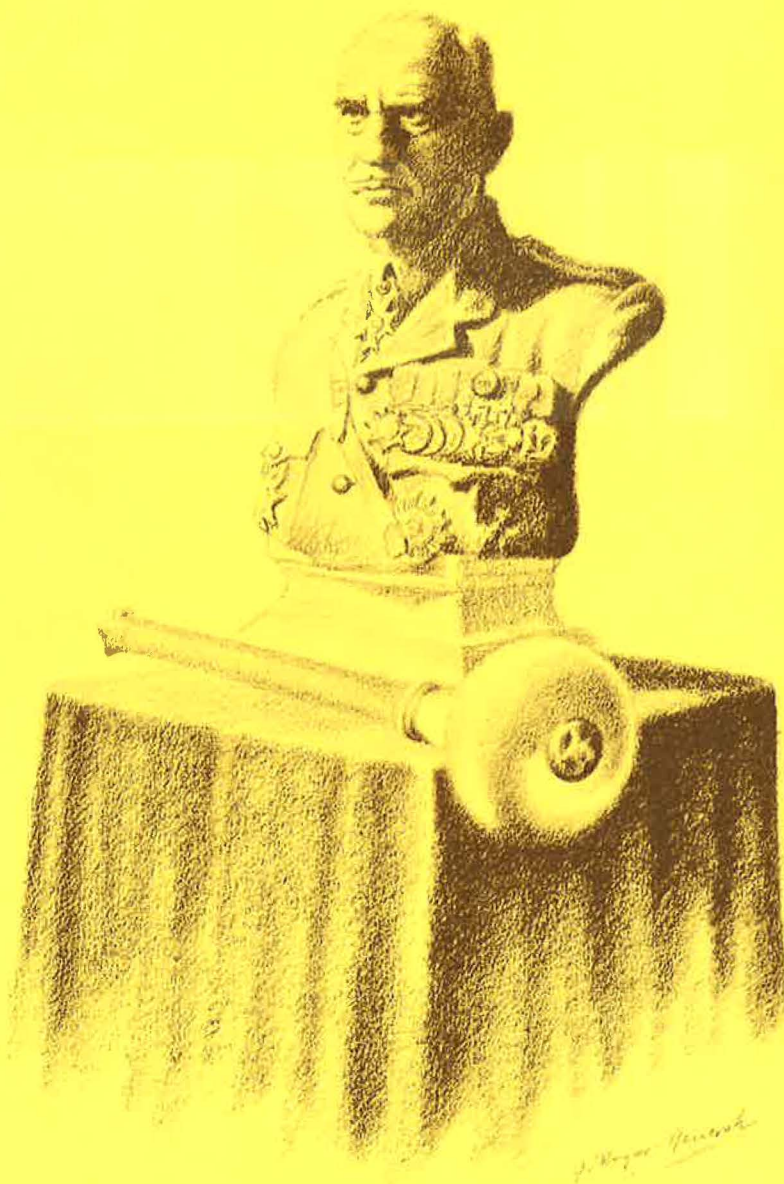


Report of the Council

1979



Monash University

**Report of the Council
of Monash University
1979**

Report of the Council for the period
1 January 1979 to 31 December 1979

Report of the Council

1979

Monash University

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and the ceremonial mace of the University (from a sketch by Arno Roger-Genersh).

Photographs in this Report are by Hervé Alleaume, Rick
Crompton, Julie Fraser, and Graham Harris.

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REPORT OF THE COUNCIL FOR 1979

In accordance with Section 41 of the Monash University Act 1958, as amended, I submit the Report of the Council for 1979.

For and on behalf of the Council

**R.M. Eggleston
Chancellor**

THE COUNCIL

Members of Council as at 31 December 1979*

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 to represent the Parliament of Victoria

Ian Robert Cathie, M.L.A., B.A., Dip.Ed.(Melb.)
The Honourable James Vincent Chester Guest, M.L.C., M.A. (Oxon.), M.B.A.(Melb.), of Lincoln's Inn, Barrister-at-Law, Barrister-at-Law (Vic.)
Neil Malcolm McInnes, M.L.A.

Appointed by the Governor in Council to represent Commercial and Industrial Interests

Merilyn Joy Harris, Dip.Ed.(S.C.V.), B.Ec.
Geoffrey Alistair Knights, M.A., Ph.D.(Cantab.)
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.)

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. (*Education*)
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.R.A.C.M.A. (*Medicine*)
Sir James Robert Price, K.B.E., D.Sc.(Adel.), D.Phil.(Oxon.), F.R.A.C.I., F.A.A.(*Science*)

Elected by the Professors

Martin Joseph Patrick Canny, M.A., Ph.D.(Cantab.)
Ross Henry Day, B.Sc.(W.Aust.), Ph.D.(Brist.), F.B.Ps.S., F.A.Ps.S., F.A.S.S.A.
Richard Charles Nairn, M.D., Ch.B., Ph.D.(Liv.), F.R.C.Path., F.R.C.P.A., F.R.A.C.P., F.R.S.E.
Ian James Polmear, B.Met.E., M.Sc., D.Eng.(Melb.), F.T.S., F.I.M., F.I.E.Aust.

Elected by teaching staff other than the Professors

Ian McCance, M.Sc.(Melb.), Ph.D.
Brendon Aston Parker, B.Sc.(Eng.), Ph.D.(London.), D.I.C.
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

Keith Thomas Henry Farrer, O.B.E., M.A.(LaT.), D.Sc.(Melb.), C.Chem., F.R.I.C., F.R.A.C.I., F.I.F.S.T.(U.K.), F.A.I.F.S.T., F.T.S.
Margaret Elizabeth Hamer, B.E.(Syd.), B.A.(Melb.)
Patricia Frances Hutson, M.B., B.S.(Melb.)
The Honourable 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.
John Melvin Swan, Ph.D.(Lond.), D.Sc.(Melb.), F.R.A.C.I., F.A.A.

Elected by the non-academic staff

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

Elected by the students of the University

Peter Howard Costello
Peter Golding, B.Sc.

*See Appendix I for changes in membership during 1979.

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

Ten meetings of the Council (at each of which I presided) were held in 1979 between March and December inclusive. Council addressed itself to a number of important issues during the year and, as always, many useful discussions took place. The Vice-Chancellor continued his programme of familiarising lay members of the Council with the resources and facilities of the University by arranging visits of inspection to various sections of the campus. This programme will be continued in 1980.

There were a number of changes in the membership of Council during the year and details of these are given in Appendix I. The Council records its sincere appreciation of the contribution made to its proceedings by all who served but are no longer members. I do wish, however, to single out for mention two members who, between them, have devoted thirty-seven years of service to Monash University. At its June meeting, Council farewellled Mr John Wood who had served on the Council of the University since its inception in July, 1961 apart from a three year break between 1971 and 1974 — a total of fifteen years. In December, Mr Ian Langlands attended his last meeting of Council prior to his retirement in March 1980 after almost twenty-two years of continuous and dedicated service to the Interim Council and Council of the University, the last six of which were in the capacity of Deputy Chancellor.

In July, I led a delegation of six members of Council including the Deputy Chancellor and Vice-Chancellor to a Conference of University Governing Bodies sponsored by the Australian Vice-Chancellors' Committee at the Australian National University in Canberra. The theme of the conference was

'Australian Universities to the Year 2000', a pertinent topic given the earlier publication of the Williams Report on Education, Training and Employment. At the invitation of the organisers, I gave a plenary address at the conference entitled 'The Role of University Governing Bodies'.

At its meeting in March, Council noted with pleasure that the New Year and Australia Day Honours Lists had included The Hon. Mr Justice Lush (Kt.), a member of Council between 1969 and 1974; Mr Henry Krongold (C.B.E.), who contributed so generously towards the construction of the Dinah and Henry Krongold Centre for Exceptional Children; Miss N.L. Stephenson (O.B.E.), formerly Manager and now Director of Planning and Construction of the Queen Victoria Medical Centre; and Dr H.B. Kay (A.M.), a member of the Board of Management and former consultant physician and clinical teacher at the Alfred Hospital. Council also noted with pleasure at the July meeting that Professor E.M. Campbell of the Faculty of Law had been awarded the O.B.E. in the Queen's Birthday Honours List.

At its meeting in November, Council expressed its congratulations and gratitude to Mr G.W. Collett of the Finance Branch who was awarded a Commendation for Brave Conduct in the Australian Bravery Awards in recognition of his action in foiling an armed robbery at the University in October 1978.

At graduation ceremonies during the year, the following honorary degrees were conferred: Master of Science — Ruth Elise Coullsell; Doctor of Laws — James Alexander Forrest; Doctor of Laws — Sydney Lance Townsend; Doctor of Laws — Frank Woods.

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.

The concluding year of this decade was memorable for a number of reasons, not the least of which was because it heralded the restoration of triennial recurrent funding for universities. Even though our annual income is to decline progressively each year of the 1979-81 triennium, the inevitable adverse effects can now be offset to some degree because of the revived opportunity for planning more effectively over a three-year period.

Academically the year also started well with Professor A.G.L. Shaw, Chairman of the department of History at Monash University, being elected President of the Academy of the Social Sciences in Australia an office which he will hold for three years. Monash enjoys a world-wide reputation for the quality of its scholarship and one yardstick of that reputation is election to fellowship of the four Australian learned academies. Currently, twenty-seven members of the Monash teaching staff are Fellows: eleven of the Academy of Science, twelve of the Academy of Social Sciences, two of the Academy of Humanities, and two of the Academy of Technological Sciences.

Events in 1979 tended to focus attention on broad issues in tertiary education. The long-awaited publication in May of the Williams Report on Education, Training and Employment and the release in July of the Myers Report on University Staffing in a Static Situation both contained much to stimulate thinking by universities and government. The need to prepare a detailed submission to the Universities Council for the 1982-84 triennium also encouraged the staff at Monash to identify the broader policy objectives which would guide us into the 1980s. My own involvement with university affairs at the national level increased during the year through membership of the executive of the Australian Vice-Chancellors' Committee.

Despite the debate generated by these events, the fortunes of universities during the year have remained depressed with little prospect for improvement in the early years of the new decade. Recurrent funding was

again reduced in real terms, and further major cut-backs in capital funding led the Tertiary Education Commission to warn the Government that the capacity of universities to meet their research and teaching commitments would be seriously impaired unless capital funds were significantly increased above the level proposed for 1980. It is interesting to note that the call for increased funding for research has been taken up and generally endorsed by the media — one of the few issues in tertiary education to gain such support in recent years. The downgrading of the education portfolio late in the year from fifth to twenty-first ranking in the Federal Ministry did little to encourage even the most optimistic among us that there were better times ahead.

With the permission of Council, I made two overseas trips during 1979, both of which provided excellent opportunities to compare directly the Australian situation with the problems faced by universities in the countries I visited. In May and early June, I spent three weeks in Japan as a guest of Monbusho and the Association of National Universities in the company of the Vice-Chancellors of the Australian National University and the University of New South Wales. This trip led to the establishment of valuable personal contacts which will undoubtedly foster closer understanding and co-operation between universities in Japan and Australia. In September, I spent ten days in Europe, principally to attend the 30th General Assembly of the International Union of Pure and Applied Chemistry in Davos, Switzerland, but managed also to spend a little time in the United Kingdom and Greece. It gives me no comfort to report that the problems of cut-backs in funding and research support, and the poor prospects of tenure for well-qualified younger academics are, if anything, more acute in the United Kingdom than in Australia. Once again I am indebted to Professor W.A.G. Scott for standing in as Acting Vice-Chancellor during these and my other absences during the year and for his contin-

uing support and wise counsel as Deputy Vice-Chancellor. I also wish to thank Professor B.O. West for his effective superintendence of research and graduate matters during a further term as part-time Pro-Vice-Chancellor.

In my last report I mentioned the impending early retirement of the University's first Registrar and now Comptroller, Mr F.H. Johnson. These plans became disrupted owing to the protracted illness during the year of the Deputy Comptroller, Mr I.B. Tate. In characteristic fashion, Frank Johnson generously offered to stay on in office for another busy year. I am pleased to report that Mr Tate's health is much improved and Mr Johnson now plans to commence his well-earned retirement early in February 1980, after twenty years of dedicated service. In October, Council appointed Mr L.W. Candy to succeed Mr Johnson as Comptroller. Mr Candy has been employed at Monash since 1961 as Assistant Accountant, then as Accountant and Finance Manager of the University. He brings with him a wealth of experience and a depth of knowledge of Monash which should ensure a smooth transition and a firm administrative base for the University in the coming years.

The Chancellor has already mentioned the foreshadowed retirement in March 1980 of the Deputy Chancellor, Mr Ian Langlands, after almost twenty-two years of distinguished service to the Interim Council and Council of the University. I am pleased to report that the decision by Council to confer the Honorary Degree of Doctor of Laws on Mr Langlands at a ceremony in April 1980 will ensure that his association with the University will be a continuing one. We will be hard-pressed indeed to replace Mr Langlands on the many committees on which he has served the University, particularly the important Staff and Buildings Committees of which he has been Chairman for many years.

In November, Council elected Dr J.E. Isaac as its new Deputy Chancellor to succeed Mr Langlands for a three-year term commenc-

ing on 17 March 1980. The University is fortunate to have a man of Dr Isaac's wide experience and insight occupying this senior position. I was also delighted that Sir Richard Eggleston was re-elected for a further term as Chancellor. He has given distinguished leadership to the University since January 1975 and I am pleased that we shall have his firm hand at the helm for the next three years. It is fitting that, early in the year, a portrait of Sir Richard was completed by the Melbourne artist of his choice, Bruce Fletcher. This portrait now hangs in the Robert Blackwood Hall alongside the Dargie portrait of Sir Robert Blackwood. In order to complete the series, Council, at its December meeting, authorised the commissioning of a posthumous portrait by Melbourne artist, John Scurry, of Monash's second Chancellor, Sir Douglas Menzies, who died in office in November 1974.

Monash lost two of its most distinguished professors in 1979. Professor Karol Morsztyn of the department of Electrical Engineering retired at the end of the year. In his nine years as a professor at Monash, Professor Morsztyn developed the field of heavy power engineering into one of the University's centres of excellence with a reputation of world standing. I am pleased that, on his retirement, Council conferred on him the well-earned title of Professor Emeritus. In much less happy circumstances, the University was saddened by the sudden and unexpected death in July of Professor Arthur Brown of the department of English. Professor Brown had a most distinguished record of scholarship and, since his appointment in 1973, had been actively engaged in teaching and research as well as being a vital force in many activities on campus, not the least of which was his enthusiastic Chairmanship of the Alexander Theatre Committee. Monash will miss him.

Monash also lost a valued friend during the year with the death in August of Mrs Bertha Bennett, the only daughter of Sir John Monash. Despite her advanced years, Mrs

Sir Richard and Lady Eggleston view the portrait of Sir Richard painted by Melbourne artist Bruce Fletcher. The portrait was commissioned by the University and will hang in Robert Blackwood Hall.



Bennett had always taken a keen interest in the affairs of the University.

I turn now to a brief consideration of some of the events which have influenced the universities during 1979. I have already mentioned the long-awaited publication of the Williams Report. While it attracted some early adverse criticism for its 'evolutionary rather than revolutionary approach' I believe that it tackled its enormous task with clear-sightedness and courage. For the most part, we at Monash welcomed the recommendations relating to universities, particularly the endorsement of the special role that universities play in scholarship and research. It was gratifying to note the support given to the pro-

posal for special research grants to build up postgraduate centres, for increased funding of research, and for the restoration of the number of Commonwealth Postgraduate Awards to the levels of 1975 and 1976. The Commonwealth Government's general acceptance of most of the recommendations in the report, particularly the policy objective of 'strengthening and concentrating research in universities' was equally encouraging.

Much less publicity surrounded the publication in July of the report by Dr D.M. Myers on University Staffing in a Static Situation. This report, commissioned by the Australian Vice-Chancellors' Committee, reached some disturbing conclusions for the future of Aus-

tralian universities and deserves to receive careful attention from Government, the Tertiary Education Commission, universities, and staff associations. Facing up to the problems of staffing will, undoubtedly, be a major preoccupation for universities in the next decade.

Both Commonwealth and State Governments have introduced legislation during the year which pose further threats to the traditional autonomy of universities. New powers granted to the Commonwealth Minister for Education enable him to have a direct influence on the introduction of new fields of study in universities. More worrying still are some provisions of the Post-Secondary Education (Amendment) Bill introduced into the Victorian Parliament late in the year. The removal of any distinction between universities and colleges of advanced education is contrary to the recommendations of both the Partridge and Williams Reports and negates the special responsibility of universities for promoting scholarship, research, and post-graduate training. Also, the proposed establishment of an Accreditation Board to approve of and influence the content of all new courses in universities is a direct threat to the principle of self-management that has traditionally and, I think, wisely been accorded to universities. This legislation constitutes a further encroachment by the State Government into the co-ordination and superintendence of universities, an area which I firmly believe should remain the prerogative of the Commonwealth. The full ramifications of the Commonwealth Government's intention to introduce fees for overseas private students have yet to be seen. Needless to say, there is a number of unforeseen difficulties which need to be resolved and I expect to have more to say on this matter in next year's report.

In my last report, I mentioned the long, divisive and highly publicised debate which surrounded the inquiry into study leave by the T.E.C. The final report of that inquiry was published in October 1978 under the

title, 'Study Leave in Universities and Colleges of Advanced Education'. In response to the recommendations of this report, the University completely revised its rules and procedures relating to study leave — now termed Outside Studies Programmes, without damaging its contractual relationships with staff. The new rules, which came into operation in September 1979, conform with the T.E.C. recommendations. Needless to say, the whole matter is administratively very much more complicated than it was. More detailed records are required and annual returns are made to the T.E.C. For statistical purposes, the unit of measurement is defined as a percentage of available man-years of staff time of the grade of lecturer and above. The T.E.C. requested that universities should try to achieve a figure of 7 per cent for the calendar years of 1980 and 1981, and thereafter to maintain this figure averaged over the years in subsequent triennia. The Monash figure was 10.13 per cent for 1978. It dropped to 9.37 per cent for 1979. Because of the long lead time in processing applications, 1979 was a transition year with some staff on study leave under the old rules and some on Outside Studies Programmes (O.S.P.) under the new. The provisions of the new O.S.P. rules will become fully applicable next year and it is likely that the T.E.C.'s target figure of 7 per cent will be met for the calendar year of 1980.

Let me turn now to a brief look at Monash itself in 1979. Enrolment increased slightly to 13,910 students compare with 13,698 in 1978. By contrast, total staff numbers dropped from 2,972 equivalent full-time staff in 1978 to 2,916 in 1979. The decline in teaching and research staff from 1,016 to 984 had the effect of increasing the student to staff ratio from 12.51 in 1978 to 13.05 in 1979 which compares unfavourably with a stable national average figure of 11.8 for both years. Although student numbers have remained fairly constant over the last few years, it is encouraging to note that Monash is attracting an increasing share of the really tal-

ented students. The Faculty of Science introduced new regulations during the year whereby particularly gifted students can study at an accelerated pace and at an increased depth to complete an Honours degree in three instead of the usual four years. We were pleased to see our second Rhodes Scholarship in 1977 followed up in 1979 with the award of Exhibition of 1851 Research Scholarships to two Monash students. These were two of the only nine such scholarships awarded for the whole of the British Commonwealth, Ireland, Pakistan, and South Africa.

The new Physiology building and extensions to the Anatomy department were completed during the year, as were substantial modifications to D block designed to cater for the expanded needs of the department of Biochemistry. Also, a start was made on the long-awaited building to house the department of Microbiology, the expected completion date for this project being September 1980. In January the Monash section of Community Practice moved into the new premises in the grounds of Moorabbin Hospital.

The problems faced by our clinical departments in the teaching hospitals continue to grow and appear to have reached the stage where they are insurmountable without a much greater financial commitment from the Commonwealth Government. Our most urgent priorities are for increased accommodation and facilities at the Prince Henry's and Alfred Hospitals and for student accommodation at the Geelong Hospital. The perennial question of the date for re-location of the Queen Victoria Medical Centre to Clayton remains unanswered.

Other building developments on campus include the completion of the Arts and Crafts building by the Union and the commencement of planning for a heated, indoor swimming pool. Both projects are fully funded by the students themselves and will provide for an increased range of activities of enormous benefit to Monash as well as offering oppor-

tunities for the University to forge new links with the community.

Monash took steps in 1979 to make significant inroads into its \$800,000 annual energy bill with the establishment of an Energy Conservation Committee. To date, lighting levels have been surveyed and reduced; energy audits are being undertaken progressively for all major areas of the campus; the basic components of a central monitoring system and heat monitoring points have been installed. In addition, the University's ambient temperature was reduced from 20°C to 19°C with a considerable cost saving.

Year round teaching was initiated in 1978-79 by the Faculties of Education and Law with the introduction of summer courses designed to enable students to read for part of the normal degree programme at an optional time. Another new development during the year was the creation of a Centre of Policy Studies in the Faculty of Economics and Politics. Under the supervision of its first Director, Professor M.G. Porter, the Centre will concern itself with the whole area of public policy-making including the implementation, evaluation, and impact of policy decisions. The Centre plans to focus on key issues, such as energy, tax reform and Australia's response to various international, economic and political disturbances.

In terms of cultural significance, the most exciting event of the year occurred on 10 December with the arrival on campus of the Louis Matheson Pipe Organ. This instrument, designed and built by the world renowned organ builder, Jürgen Ahrend, was funded by public subscription and will be installed in the Robert Blackwood Hall to commemorate the contribution to Monash of its first Vice-Chancellor, Sir Louis Matheson. Installation and voicing should be completed early in the year and the organ will be inaugurated by the Governor-General, Sir Zelman Cowen, at a ceremony on 22 April 1980. This magnificent instrument will be a lasting tribute to a great man and a significant addition to the musical life of Victoria. It will

also become, I am sure, one of the distinctive and highly-regarded assets which Monash can share with the community together with its growing art collection and its beautiful grounds, to name but two.

In closing my report for 1979, I should like to quote a passage from Monash University's recently completed submission to the Universities Council for the 1982-84 triennium:

'Australian taxpayers . . . have a substantial investment in this University. In return for their investment to the end of 1979 they already have an in-

stitution of world standing. Our major concern is to ensure that the University is adequately staffed and equipped to enable it to maintain its standing in the fields of teaching and research for which it was created. After several years of undernourishment, failure to provide the modest increase in resources requested in this submission will inevitably result in a damaging decline in our capacity to contribute to the nation's development in the 1980s.'

We are, I believe, at the crossroads.

DEVELOPMENT AND ADMINISTRATION

Site and Buildings

In 1979 the Arts and Crafts Centre was completed and opened for use. Construction of the Microbiology building commenced with completion anticipated in 1980. Preliminary planning was completed for the swimming pool.

Funds for minor building projects and site works in 1979 were applied to the provision of incinerators and stacks to meet E.P.A. requirements, a deceleration lane on Wellington Road, the construction of the Animal Services' Rabbit House, the completion of laboratories on the sixth floor of the Biology building, the completion of the master heating system, the landscaping of the area adjacent to the Arts and Crafts Centre, and the commencement of the Cat Nursery and Biology 101 laboratory alterations.

Legislation

Eight statutes and fifty new and amending regulations were made by Council in 1979.

University publishing

New internal design layouts and production methods were instituted in 1979 for all the official University book publications. Some cost saving was effected and it is hoped that the continuing developments in the computer typesetters and word processors will permit cheaper and speedier production in the future.

Further work was done in the academic archives, though the extra work caused by the redesign of the publications meant that there was less opportunity to do archival work.

During a holiday in Europe, the Publications Officer was granted the opportunity to spend some time in the United Kingdom to meet people concerned with the university publications at the Universities of London, Manchester, Leeds and Sheffield. Meetings were also arranged with people involved with the production and distribution of other publications connected with university administration.

Only two meetings of the Publications Committee were held during the year. However, the infrequent meetings should not be taken as an indication of low publishing activity. During 1979 the Committee supported the publication of five books by Monash authors, as well as subsidising journal articles. Three Monash journals continued to receive financial assistance from the Committee: *Apeiron*, *Australian Journal of French Studies* and *Ramus*. At its last meeting the Committee expressed concern at the level of journal subsidies and early next year will review the basis on which journal subsidies are calculated.

Safety

Safety standards overall have risen steadily by introduction of, for example, Australian Standards Association 'Safety in Laboratories' series of which four parts have been distributed to departments concerned, personal identity cards for students and staff, eye examinations for users of V.D.U.'s, viewing panels in solid doors, non-slip areas and in-fill of balustrades.

A larger and more efficient emergency vehicle was purchased and has been in action on forty occasions during the year. The Menzies building was equipped with an evacuation alarm. An introductory lecture was arranged for persons concerned in proper and safe procedures for handling and disposal of micro-organisms. Personal safety was updated by a film screened for all staff and students. Evacuation exercises continued. The University continued its affiliation with the National Safety Council and the local Dandenong Safety Group. The University was host to the Victorian Industrial Safety Convention held triennially and an Apprentice Safety Seminar at which some 250 local apprentices attended.

In the thyroid monitoring programme, five users had detectable thyroid iodine-125 burdens which were below the maximum permissible. Detailed local rules for the handling

of high-specific activity iodine-125 have been promulgated to minimise this uptake of the radionuclide. There was one incident of inhalation of a short-lived radionuclide in powder form. Quick emergency attention limited the personal radiation dose to a small fraction

of the maximum permissible. The training programme of lectures and demonstrations to new radiation users has continued and the Radiation Protection Officer attended the 3rd Annual Conference of the Australian Radiation Protection Society in Sydney.

STAFF

The recruitment of academic staff in 1979 was at a low level similar to that which has existed since 1976. Under current conditions mobility of teaching staff is restricted.

Over the years regular part time staff, referred to in this University as fractional staff, have become an established part of the university staffing pattern and for the first time figures in this report are given in terms of

full time equivalent staff i.e. including fractional staff rather than full time staff only as was the case in earlier reports.

The number of full time and fractional staff, expressed in terms of full time equivalents, as reported to the Tertiary Education Commission in the annual statistical return of April 1979, was:

	Professor	Assoc. Professor, Reader	Senior Lecturer	Lecturer, Teaching Registrar	Principal Tutor	Senior Tutor	Tutor	Total
Arts	23	16	76	48	6	22	28	219
Economics & Politics	15	9	36	31	2	4	36	133
Education	6	5	27	15	2	5	—	60
Engineering	10	14	38	12	—	7	—	81
Law	7	6	23	15	—	8	5	64
Medicine	20	16	57	24	1	27	—	145
Science	22	27	75	19	1	11	14	169
Other	—	—	3	1	—	1	—	5
Totals	103	93	335	165	12	85	83	876

A comparison of the total teaching staff numbers in 1979 with those of the previous two years is given below:

1977	1978	1979
887	897	876

Financial stringency has caused some reduction at the levels of Tutors and Senior Tutors and to some extent in teaching by those members of the part time staff whose work is performed on a sessional basis. The pattern of teaching staff recruitment in 1979 was:

	Continuing Appointment	Fixed Term	Short Term or Temporary
Professors	1		3
Senior Lecturer		9	1
Lecturers	4	9	5

Nineteen Senior Tutors and 33 Tutors appointed for one year with the possibility of renewal, the normal procedure for such grades, took up their first appointments in 1979.

Teaching staff leaving the University in the year due to resignation, retirement or expiry of fixed or short term appointments were:

	Continuing Appoint- ment	Fixed Term	Short Term or Temporary
Professors	3	1	2
Associate Professors	2	—	—
Senior Lecturers	5	—	9
Lecturers	2	17	1

Thirty-five Senior Tutors and 20 Tutors also left during the year.

Those who resigned during 1979 included Professor M.S. Henderson (Accounting and Finance), and Professor A.A.L. Powell (Econometrics and Operations Research).

Professor D.A. Kemp (Politics), took up his appointment during 1979; Professor M.G. Porter (Economics), was appointed Director of the Centre of Policy Studies; Professor M.C. Ricklefs (History), was appointed in 1979 but will not take up duty until 1980.

Academic staff employed solely for research projects comprised 8 Junior Research Fellows and 70 Research Assistants, many of the last being employed on a fractional basis.

The overall full time equivalent staffing of the University has, with minor fluctuations, stabilised as shown by the following figures:

<u>1977</u>	<u>1978</u>	<u>1979</u>
2,916	2,972	2,915

Full time equivalent staffing 1979

		Total
Teaching and Research:		
Teaching staff	989	
Support staff	710	1,699
Research:		
Academic staff	119	
Support staff	59	178
Library		198
Computing		53
Other Academic Services		56
Student Services		21
Central Administration		207
Buildings, Grounds, Cleaning and Central Services		247
Continuing Education		6
Independent Operations		
Student Union, Bookshop, etc.		250

Some staff economies have been possible in central administration as a result of the increased use of computerisation, which is already well established in this University, and the introduction of word processing equipment into some sections of the University Offices.

The University records with regret the deaths during 1979 of Professor Arthur Brown (Professor of English), and Dr L.J. Gleeson (Reader, Department of Mathematics).

ACADEMIC DEVELOPMENTS

Degrees and diplomas conferred

The following degrees and diplomas were conferred by the University at graduation ceremonies in 1979, the final column indicating the total number of degrees and diplomas awarded since the foundation of the University:

	Male	Female	1979 Total	1961-79 Total
Bachelor of Arts	195	362	557	6,724
Bachelor of Arts with Honours	32	56	88	1,110
Bachelor of Social Work	—	—	—	4
Bachelor of Social Work with Honours	4	31	35	92
Master of Arts	8	10	18	238
Master of Librarianship	1	3	4	4
Bachelor of Economics	304	102	406	3,762
Bachelor of Economics with Honours	17	5	22	414
Master of Administration	34	5	39	239
Master of Economics	9	4	13	116
Bachelor of Education	67	68	135	1,238
Bachelor of Special Education	19	13	32	131
Master of Education	27	12	39	206
Master of Educational Studies	1	—	1	1
Bachelor of Engineering	68	3	71	790
Bachelor of Engineering with Honours	77	3	80	954
Master of Engineering Science	8	—	8	147
Bachelor of Jurisprudence	34	18	52	901
Bachelor of Laws	161	53	214	1,370
Bachelor of Laws with Honours	7	5	12	121
Master of Laws	13	4	17	78
Bachelor of Medical Science	—	—	—	11
Bachelor of Medical Science with Honours	2	1	3	121
Bachelor of Medicine, Bachelor of Surgery	75	39	114	1,327
Bachelor of Medicine, Bachelor of Surgery with Honours	13	27	40	374
Bachelor of Science	186	129	315	2,737
Bachelor of Science with Honours	117	46	163	1,624
Master of Environmental Science	13	5	18	69
Master of Science	13	4	17	239
Doctor of Philosophy — Arts	12	6	18)	
— Economics	3	—	3)	
— Education	8	1	9)	
— Engineering	14	—	14)	103
— Law	1	—	1)	
— Medicine	11	1	12)	
— Science	32	14	46)	
Doctor of Medicine	3	—	3	21
Doctor of Science	—	—	—	6
Honorary Master of Science	—	1	1	3
Honorary Doctor of Letters	1	—	1	10

Honorary Doctor of Engineering	—	—	—	7
Honorary Doctor of Laws	2	—	2	24
Honorary Doctor of Medicine	—	—	—	5
Honorary Doctor of Science	—	—	—	7
Total Degrees	<u>1,592</u>	<u>1,031</u>	<u>2,623</u>	<u>26,205</u>

	Male	Female	1979 Total	1961-79 Total
Diploma in Commercial Law	3	3	6	6
Diploma in Computer Science	1	—	1	3
Diploma in Education	143	234	377	5,271
Diploma in Educational Psychology	12	22	34	76
Diploma in Engineering Geology	2	—	2	5
Diploma in Immunology	1	2	3	3
Diploma in Linguistics	—	2	2	3
Diploma in Materials Engineering	1	—	1	1
Diploma in Microbiology	—	—	—	3
Diploma in Migrant Studies	4	3	7	18
Diploma in Russian	—	—	—	1
Total Diplomas	<u>167</u>	<u>266</u>	<u>433</u>	<u>5,390</u>

1979 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.

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Group (a)										
Arts	78	80	83	85	87	88	83	87	86	87
Economics and Politics	76	88	81	87	85	80	75	83	85	82
Law	80	82	79	88	92	94	91	90	93	97
Science	89	90	89	87	84	87	85	80	83	86
Group (b)										
Diploma in Education	92	92	96	97	95	95	98	94	98	89
Engineering	84	88	82	76	64	64	67	71	71	74
Medicine	99	96	98	98	95	90	99	95	95	88

STUDENT ENROLMENT

The net total undergraduate population increased from 10,061 in the previous year to 10,118, an increase of 0.84 per cent. Graduate enrolments increased from 2,069 to 2,224 and total enrolments of all students from 13,698 to 13,910. Full details of enrolments are given in the table below.

Of the total of 13,910 students, 1,335 (9.6 per cent of the total) were from overseas, as follows: Bangladesh 9; Belgium 1; Britain 7; Brunei 1; Burma 4; Canada 7; Cyprus 2; Fiji

18; France 2; Ghana 3; Greece 6; Hong Kong 56; India 20; Indonesia 20; Iran 2; Israel 2; Italy 1; Japan 23; Kampuchea 1; Kenya 2; Kuwait 1; Laos 3; Malaysia 956; Mauritius 4; New Caledonia 1; New Zealand 17; Pakistan 4; Papua New Guinea 1; Peru 1; Philippines 6; Rhodesia 5; Singapore 55; Somalia 1; South Africa 3; South Korea 1; Sri Lanka 24; Sweden 2; Taiwan 2; Tanzania 1; Thailand 25; Tonga 1; Uganda 1; U.S.A. 10; U.S.S.R. 2; Vietnam 18; West Germany 3. Total of 886 males, 449 females.

Net Enrolments by Degree/Faculty 1979 (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	4	—	4	12	—	12	16	—	16
Ph.D.	262	85	347	128	38	166	390	123	513
Master	202	106	308	980	407	1387	1182	513	1695
TOTAL	468	191	659	1120	445	1565	1588	636	2224
Master preliminary	33	16	49	57	37	94	90	53	143
Postgraduate diplomas									
Arts: Dip.Engl.	1	2	3	4	17	21	5	19	24
Dip.Jap.Stud.	1	1	2	1	—	1	2	1	3
Dip.Libr.	—	—	—	3	9	12	3	9	12
Dip.Mig.Stud.	1	2	3	1	5	6	2	7	9
Economics & Politics:									
Dip.Ops.Res.	8	3	11	4	1	5	12	4	16
Education:									
Dip.Ed.	111	177	288	38	32	70	149	209	358
Dip.Ed.Psych.	4	15	19	20	33	53	24	48	72
Engineering:									
Dip.Mat.Eng.	1	—	1	2	—	2	3	—	3
Law: Dip.Com.Law	—	—	—	24	2	26	24	2	26
Medicine:									
Dip.Imm.	1	1	2	—	1	1	1	2	3
Science:									
Dip.Comp.Sc.	—	—	—	43	3	46	43	3	46
Dip.Eng.Geol.	—	—	—	7	—	7	7	—	7
TOTAL	128	201	329	147	103	250	275	304	579

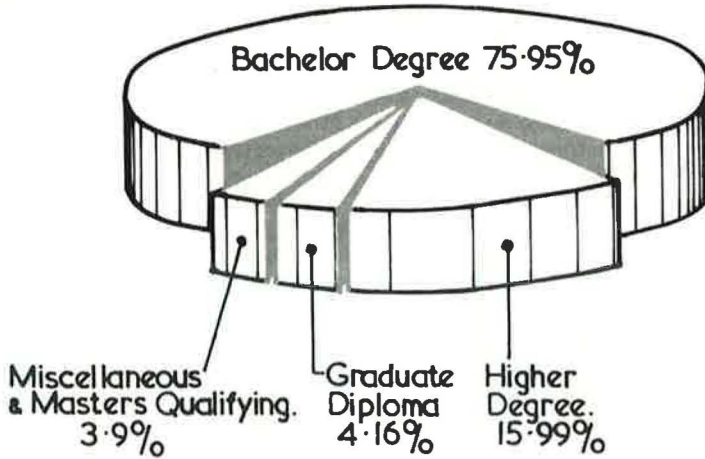
Net Enrolments by Degree/Faculty 1979 (as at 30 April)

Faculty and year	Full time			Part time			Total			
	M	F	T	M	F	T	M	F	T	
Postgraduate										
Bachelor degree										
Education: B.Ed.	6	5	11	160	178	338	166	183	349	
B.Sp.Ed.	16	16	32	12	54	66	28	70	98	
TOTAL	22	21	43	172	232	404	194	253	447	
Bachelor degree										
Arts: B.A.	I	239	520	759	100	337	437	339	857	1196
	II	168	394	562	65	210	275	233	604	837
	III	182	389	571	106	233	339	288	622	910
	IV	33	60	93	11	20	31	44	80	124
Sub-Total		622	1363	1985	282	800	1082	904	2163	3067
Economics & Politics:										
	I	327	160	487	66	31	97	393	191	584
	II	240	139	379	48	13	61	379	151	530
	III	279	117	396	215	49	264	396	166	562
	IV	23	8	31	1	—	1	31	9	40
Sub-Total		869	424	1293	330	93	423	1199	517	1716
Arts: B.Soc.Wk.										
	III	14	25	39	—	—	—	14	25	39
	IV	14	26	40	—	—	—	14	26	40
Sub-Total		28	51	79	—	—	—	28	51	79
Engineering:										
	I	247	15	262	1	—	1	248	15	263
	II	194	13	207	1	—	1	195	13	208
	III	172	3	175	1	—	1	173	3	176
	IV	153	3	156	1	1	2	154	4	158
Sub-Total		766	34	800	4	1	5	770	35	805
Law: LL.B.										
	I	—	2	2	6	4	10	6	6	12
	II	2	1	3	22	18	40	24	19	43
	III	15	12	27	22	8	30	37	20	57
	IV/V	43	15	58	17	12	29	60	27	87
Sub-Total		60	30	90	67	42	109	127	72	199
Law: B.Juris./LL.B.										
	I	14	7	21	4	4	8	18	11	29
	II	24	11	35	2	—	2	26	11	37
	III	37	12	49	3	1	4	40	13	53
	IV/V	83	34	117	22	7	29	105	41	146
Sub-Total		158	64	222	31	12	43	189	76	265

Net Enrolments by Degree/Faculty 1979 (as at 30 April)

Faculty and year		Full time			Part time			Total		
		M	F	T	M	F	T	M	F	T
Law/Arts:	I	36	42	78	—	3	3	36	45	81
	II	34	60	94	2	4	6	36	64	100
	III	50	51	101	2	3	5	52	54	106
	IV/V	81	55	136	10	6	16	91	61	152
	Sub-Total	201	208	409	14	16	30	215	224	439
Law/Economics and Politics:	I	73	26	99	2	1	3	75	27	102
	II	77	13	90	3	—	3	80	13	93
	III	86	17	103	10	—	10	96	17	113
	IV/V	147	23	170	19	1	20	166	24	190
	Sub-Total	383	79	462	34	2	36	417	81	498
Law/Science	I	8	3	11	—	—	—	8	3	11
	II	19	7	26	1	—	1	20	7	27
	III	18	2	20	2	—	2	20	2	22
	IV/V	17	8	25	5	1	6	22	9	31
	Sub-Total	62	20	82	8	1	9	70	21	91
Medicine	I	102	67	169	—	—	—	102	67	169
	II	103	66	169	—	—	—	103	66	169
	III	105	56	161	—	—	—	105	56	161
	IV	102	52	154	—	—	—	102	52	154
	V	82	57	139	—	—	—	82	57	139
	VI	93	67	160	—	—	—	93	67	160
	B/Med.Sc.	5	2	7	—	—	—	5	2	7
Sub-Total	592	367	959	—	—	—	592	367	959	
Science	I	416	262	678	20	17	37	436	279	715
	II	333	205	538	40	29	69	373	234	607
	III	271	151	422	53	46	99	324	197	521
	IV	103	53	156	1	—	1	104	53	157
	Sub-Total	1123	671	1794	114	92	206	1237	763	2000
TOTAL	4864	3311	8175	884	1059	1943	5743	4368	10118	
Not for degree	18	6	24	197	178	375	215	184	399	
Total other than higher degree	5065	3555	8620	1457	1609	3066	6522	5164	11686	
Total net enrolments	5533	3746	9279	2577	2054	4631	8110	5800	13910	

Total Enrolments at 30 April 1979: 13,910



Faculty of Arts

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

Students

In 1979 the Faculty of Arts enrolled a total of 4,343 students as against 4,263 in 1978 and 4,140 in 1977. The slight increase in the gross enrolment figure over this period must not be allowed to conceal a real fall in the equivalent full-time students (E.F.T.S.) load generated by enrolments. As a result of increasing numbers of part time students in 1979, the total faculty E.F.T.S. load at 30 April was 3004 compared with 3029 in 1978 and 3026 in 1977. In 1979 the faculty, in fact, fell short of its forecast target by some 65 E.F.T.S. Higher degree enrolments, however, increased from 499 E.F.T.S. in 1978 to 536 in 1979.

While recognising the decline in E.F.T.S. over the last two years, it should be emphasised that the drop has been slight and the faculty is confident that enrolments can be

held at about the present level without any further decrease in the quality of students admitted.

Staff

The faculty was saddened by the sudden deaths of Associate Professor I.A.H. Turner of the department of History (late in 1978), and Professor Arthur Brown, of the department of English. Both were distinguished figures who will be missed not merely in their respective departments but in the University at large. Professor Turner's active political life and his interest in popular culture and in football made him well known in the outside community. Contributions from colleagues, students and friends have funded an annual prize in his memory, to be awarded for the best dissertation submitted by final year honours or M.A. Preliminary students

in History. Professor Brown, who came to Monash from University College, London, where he had been Professor of English and Professor of Library Science, had an international reputation as an Elizabethan scholar. Within the University he will be remembered for his services to the Alexander Theatre, whose committee he chaired from 1977, and to the Monash University Publications Committee.

In July the vacant chair in History was filled by the appointment of Dr M.C. Ricklefs. Professor Ricklefs, who comes to Monash from the London School of Oriental and African Studies, is a graduate of the University of Colorado and Cornell University, and is a specialist in the field of 18th Century Javanese History.

Two members of the faculty took periods of leave without pay to enable them to accept temporary research appointments in other institutions during the course of the year. Dr D.C. Muecke, of the department of English, held a Visiting Fellowship in the Humanities Research Centre at the Australian National University for six months, and Professor Peter Singer, of the department of Philosophy, was appointed to a Research Fellowship in the Woodrow Wilson International Centre for Scholars in Washington.

On 1 July Professor P. Boss succeeded Professor M.I. Logan as Associate Dean.

Undergraduate Studies

Though the teaching patterns of the faculty are well established and though new developments are necessarily limited by the contraction in available financial resources, a number of departments, individually or in co-operation with each other, have been able to mount new courses. The departments of History and Visual Arts, for example, have co-operated in planning a new course, 'Quattrocento Art and Society', to be offered jointly by the two departments. The department of Classical Studies offered 'New Testament Greek' for the first time. A new major in General and Comparative Literature has

become available. The department of English offered a new course in Literature for students of Environmental Science. The Language and Literature departments, with the financial assistance of the faculty, the Vera Moore Fund and the Alexander Theatre, have jointly planned a new development in the form of a Drama Director in Residence. The Director, who will hold a part time appointment, will assist the normal teaching of these departments by contributing to the discussion of drama from the point of view of performance as well as from that of literature.

The overseas studies programmes of the departments of French and German continued. Changes were made in the practical language component of the French programme at the University of Nice in order to improve verbal and writing skills. The Nice programme can now be taken at second as well as at third year level. Plans have been developed, in co-operation with the departments of French of La Trobe University and the University of Adelaide, for an intensive three-weeks course to be offered in Noumea, New Caledonia, to second year students in French at the three universities. This will operate on a trial basis in 1980.

Research

At 30 April 1979, 259 candidates were enrolled for Masters' degrees in the faculty, including 46 candidates for the degree of Master of Librarianship and 15 candidates for the degree of Master of Social Work. One hundred and thirty-three candidates were enrolled for the degree of Doctor of Philosophy. During the year 22 students completed the requirements for the Master's degree, including the first four M.Lib. graduates, and 16 completed the requirements for the degree of Ph.D.

The Centre for Migrant Studies and the Centre of Southeast Asian Studies continued to facilitate interdisciplinary co-operation in the conduct of research and the supervision

Members of the Monash Music Department (*from left*) Dr Margaret Kartomi, Gregory Hurworth, Reis Flora and Dr Jill Stubington with some of the exhibits displayed as part of the Third National Conference of the Musicological Society of Australia held at Monash in May.



of graduate students in their respective fields. The Centre for Migrant Studies conducted a review of its activities during the course of the year and decided to place more emphasis in future on graduate research and to restrict the range of courses offered for the Diploma of Migrant Studies.

Dr D.P. Chandler, formerly senior lecturer in History, took up his position as Research Director of the Centre of Southeast Asian Studies at the beginning of the year. Fifty students were working under the auspices of the Centre during the year, of whom 18 were from Southeast Asia. The Centre conducted an active graduate seminar programme

throughout the year and published three working papers.

The faculty attracted twenty-two Australian Research Grants Committee (A.R.G.C.) grants for 1980, totalling \$119,128, which were distributed amongst members of twelve departments.

Conferences and Seminars

A number of conferences and seminars were held within the faculty during the course of the year. The department of Philosophy hosted the annual conference of the Austra-

lasian Association of Logic as well as taking part in the annual conference of the Australasian Association of Philosophy which was held at the University of Melbourne. Professor Jackson gave the presidential address at the latter conference. The department of Music played host to the Musicological Society of Australia, whose conference was held at Monash during the May vacation. A seminar on Television in a Multicultural Australia was organised by the Centre for Migrant Studies in conjunction with the Ecumenical Migration Centre. Members of the Centre for Migrant Studies and of the departments of Anthropology and Sociology and Social Work joined with the Ecumenical Migration Centre, the Australian Council of Social Service and the Institute of Immigration and Ethnic Studies of La Trobe University, in organising a seminar at Monash on Australia's immigration responsibilities. The resulting papers were published under the title, *Refugees, Resources, Reunion: Australia's Immigration Dilemma* (eds R. Birrell, L. Glazer, C. Hay and M. Liffman). The Centre of Southeast Asian Studies sponsored an inter-university conference on 'Class Formation in Modern Indonesia' during the August vacation and a one-day public seminar in October was devoted to problems of the contemporary Philippines.

The Creative and Performing Arts

Once again, the Vera Moore Fund supported a number of diverse activities including a lecture/demonstration and recital of the classical dance style of South India, a series of concerts arranged by the department of Music, and presented in conjunction with the national conference of the Musicological Society of Australia, a series of lunchtime folk concerts presented by the department of Music and a concert of Brazilian music arranged by the department of Spanish. The Fund also assisted the department of English to bring two

Australian poets to the University for brief visits during second term, and supported the department of Visual Arts in arranging a photographic exhibition, 'Visions of a City', a skilfully presented study of aspects of Melbourne townscape. In addition to that exhibition, the department of Visual Arts presented a number of exhibitions in its exhibition gallery.

In the latter part of the year John Walker held the position of Artist in Residence in the department of Visual Arts. During this period he visited art schools in Victoria and Canberra, worked on a group of drawings, held an exhibition of his drawings and made contact with staff and students. His appointment was made possible by the support of the Visual Arts Board.

Staff and students of the English department produced Marcus Clarke's play, *Reverses*; the Visual Arts Students' Association, with the support of staff and students of the departments of Visual Arts, History, English and Classical Studies, produced Machiavelli's *Mandragola*; and the department of Classical Studies arranged the screening of Greek films of two Greek tragedies, *The Iphigenia* and *The Electra*. The department of Classical Studies added a fourth century Attic vase to its museum and has adopted the policy of maintaining a continuing display of old books in the museum.

Visitors

Visitors to the faculty during the year included Professor David Lewis of Princeton University (Visiting Professor in the department of Philosophy), Professor David Harris of University College, London (Geography), Professor Derek Jehu of the University of Manitoba (Visiting Professor in Social Work), Professor Z. Yavets of Tel Aviv University (Classics), Professor James Cox of U.C.L.A. (Visiting Lecturer in Librarianship), and Professor George Mosse of the University of Wisconsin (German).

Faculty of Economics and Politics

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

7

Student Enrolment

The total E.F.T.S. for the faculty in 1979 was 2,374 compared with 2,356 in 1978. The continued pressure of demand for admission of undergraduates resulted in the faculty achieving this high E.F.T.S. figure which was 54 E.F.T.S. more than the target for 1979. On the other hand, the higher degree E.F.T.S. of 374 was approximately 9 per cent less than the target of 410 E.F.T.S. It is the aim of the faculty to increase the size of the graduate school but some difficulties have been encountered in the last few years as a result of two main factors: the large proportion of potential honours students who go on to complete the degree of LL.B. after the Bachelor of Economics degree rather than proceeding with honours and master's degrees, and the large and increasing proportion of students taking Accounting who prefer to undertake the professional year for membership of one of the professional accounting institutes instead of undertaking higher degree work. Both factors are related to the current employment situation which has led students to enrol for what they regard as vocationally oriented subjects within the degree. Graduates of the faculty, especially those students who specialise in Accounting, have one of the best employment rates of any faculty.

Prizes for Accounting

Touche, Ross and Co. (Chartered Accountants) offered the faculty prizes of \$100 to the best students in the subjects AF101 Accounting, AF216 Auditing and Systems, AF315 Income Tax Law and AF415 Advanced Taxation. This generous offer was gratefully accepted by the faculty.

Technical Facilities and Faculty Library

The computing laboratories on the seventh floor were reorganised to accommodate sixty computer terminals. Memory capacity of the VAX computer was increased to 1½ megabytes. A graph plotter and a word processor were installed. Computer utilisation has increased and the faculty has now become a heavy user of computers.

The Faculty Library continued to provide a service to the teaching staff of the faculty, the postgraduate students and the third and fourth year honours students.

During the year seminars on the use of indexing and abstracting services were again provided for the postgraduate students and the honours students from all departments and appeared to be well received. To facilitate the use of microform material currently being received, a Canon Microfiche Reader and a Canon Microfiche Reader/Printer were obtained.

Two issues of the Library Newsletter were produced during the year and the weekly 'Current Contents' file was again prepared as a service for the use of teaching staff during the period February to November contributing to the high use of current material.

New Developments

Professor M.G. Porter returned from leave of absence to take up the Directorship of the Centre of Policy Studies which opened in July 1979. This Centre is intended to attract outside researchers including post-doctoral fellows and visiting scholars for short-term periods. It is intended to raise funds for the purpose of generating policy-orientated re-

search and to organise workshops, seminars and conferences in areas central to the policy debates in Australia.

A number of activities and project applications were set in motion throughout the year. Particular focus has been in the areas of energy and resources policy, taxation and financial regulation, the economy and the law. By the end of 1979 significant funding had been received from a variety of sources including the A.R.G.C. and the Reserve Bank of Australia.

The Diploma of Operations Research was introduced in 1979 with four students graduating; a further six part-time students continue into 1980. This course enables students to become involved in the more advanced areas of Operations Research and is seen as

a notable new development for the department of Econometrics and Operations Research.

Many staff members took part in seminars and conferences held in Australia and overseas, and several short courses and seminars were held at Monash. Several staff members continued appointments during 1979 as members of committees and societies and as advisers to government, industry and commerce.

As in previous years, a number of distinguished visitors contributed to the work of the faculty. Academic visitors included Professor P. Phillips (Birmingham), Professor M. Michaely (Hebrew University of Jerusalem), Professor J. Saville (Hull), Professor R.M. Bird (Toronto) and Professor F.Wirt (Illinois)

Faculty of Education

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

Students

There were 1565 students counted as 1266 E.F.T.S., enrolled in the faculty on 30 April

1979. The details given below relating to these totals indicate the main direction of the teaching undertaken during the year.

	Number of Students	E.F.T.S.
Diploma in Education	358	315
Bachelor of Special Education	98	60
Diploma in Educational Psychology	72	33
Bachelor of Education	349	139
Master of Educational Studies	344	348
Master of Education	271	284
Doctor of Philosophy	61	72
Other (M.Ed.Prelim., M.Env.Sc., and Not for Degree)	12	15

The decline in the number of students undertaking the Diploma in Education has continued. At the start of the academic year the general climate of opinion about teaching as a career seems to have been so adverse that two consequences followed. The faculty had difficulty reaching its quota in initial teacher training and the quality, as measured by academic achievement in first degree, dropped

somewhat. Possibly due to the second consequence the failure rate for the Diploma in Education rose in 1979.

In all other courses the enrolment situation was totally the opposite of that for initial training. Targets were met and throughout the year there was a small waiting list for entry to research degrees. Throughout the University, entry to Masters for course work and

to research degrees is now limited by the Tertiary Education Commission (T.E.C.) quota. In the case of research degrees this is an odd procedure in institutions supposedly dedicated to research. It is somewhat ironic that all the indications are that the T.E.C. expects a cut in the size of faculties of Education in both the initial and the post-initial sectors at the very moment when the Faculty's work enrolments are very buoyant in this latter sector.

Staff

A number of appointments were made at the lecturer level during 1979. In line with T.E.C. policy no continuing appointments have been made since late in 1977. This is a matter of great concern. Within the faculty there has been great growth in two areas: in professional studies and in educational administration. This growth was necessary to meet demands from serving teachers for higher professional training at the level of the Master of Educational Studies. As staff have left, new appointments have been made on fixed-term in these areas so that at present four of the seven lecturers in educational administration are on fixed-term appointments for three years. The consequences for the collective memory of that area and for the supervision of students, almost entirely in part-time courses which usually last for more than three years, are extremely serious.

In 1979 Professor Ida Kurcz, psychologist from Warsaw University and Mr D. Whitehead, economics method lecturer at the Institute of Education, University of London, visited the faculty. Four other overseas visitors were able to spend a month here: Professor A. Champagne (Pittsburgh), Professor D.B. Frohnmayer (Oregon), Professor T.L. Good (Missouri) and Professor M. Wittrock (University of California, Los Angeles).

One other change has regrettably begun to affect the faculty. Throughout 1979 the Education Department withdrew the seconded practising teachers who had assisted

with the teaching of methods work to students since 1964. These secondees have not only been a valuable addition to our staff but brought many new ideas into the faculty and helped forge very strong links with local schools.

Because daytime students on secondment from the Education Department are no longer available to undertake the Bachelor of Special Education this degree is now available to part-time students and the change-over began this year.

Research and Professional Service

An increasing number of students are completing higher degrees by thesis and the faculty has given attention to how their findings may best be diffused. Several have published papers in journals and one former doctoral student's thesis has been published overseas as a monograph.

Staff continued their research and funds came from various sources including the Education Research and Development Committee; The Tertiary Education Commission; and the Department of Social Security. Contract research was commissioned by Colleges of Advanced Education and one independent school. In addition, funds were donated by various trusts and by Channel 7. What must be emphasised, however, is that a great deal of educational research is comparatively cheap in terms of material resources and some of the work published by faculty members in international journals is neither financed by outside bodies nor costs much in terms of the faculty's resources.

Centres

The faculty has two centres: the Krongold Centre for Exceptional Children and the Elwyn Morey Child Study Centre. It co-operates with the faculty of Arts in the running of a third, the Centre for Migrant Studies.

The Krongold Centre had a difficult year since the Director, Professor M.D. Neale, had

Members of the National Music Camp Students' Association of Victoria play for a group of 'very able' children taking part in an enrichment programme at the Krongold Centre for Exceptional Children.



to operate for the first time without the help of teachers on study leave undergoing training for the Bachelor of Special Education. With the continuing assistance of seconded teachers from the Education Department and sessional staffing however, routines were established to continue the established tradition of research, teaching and service to the community, the results of which attract many visitors from overseas and interstate. It is a matter of concern that so much effort has to be made by the Director and others to raise funds to keep the Centre operating at its present level.

The Elwyn Morey Child Study Centre continued to provide for the pre-school education of some 48 children. More emphasis was placed upon the opportunities for research offered in the Centre and to this end all the sound equipment was renewed. The major event, however, was the organisation of a conference for the International Year of the Child on 'Infant Imagination: Language and Play in the Years 0-5'. The main speaker was the 1979 Elwyn Morey Lecturer, Professor Marion Blank of Rutgers University.

The faculty continued to support the Centre for Migrant Studies by teaching some students undertaking the Diploma in Migrant Studies, through the co-operation of students and staff in the seminar programme, and by providing financial assistance.

Two other small activities of a different kind were inaugurated during the year, both of which aimed to increase the faculty's co-operation with schools and teachers at a time when, as seconded teachers were withdrawn from our staff, this might have diminished.

First, the Educational Development Centre at Monash was established. This takes the form of a teachers' centre, based in the faculty and using resources of staff and hardware when these are available for in-service courses for serving teachers in local schools. It is organised by a teacher seconded from the Education Department.

Second, the Monash Association of Teacher Education was formed from the teachers who supervise Diploma in Education students on their teaching practice. The Association met at regular intervals to liaise with the faculty

concerning the problems involved in relevant aspects of teacher education.

Conclusion

Since its inception in 1964 until this year the faculty has been much exercised with the problems of fairly rapid growth. In 1979 the climate changed, both because of clear warnings from the Tertiary Education Commission that cuts should occur and because of the establishment, at both state and national levels, of Inquiries into Teacher Education. At the moment this faculty has approximately one-quarter of all the Ph.D. candidates in Education in Australia and just over

one-fifth of Masters candidates by research or by course work. No other faculty of Education in Australia is putting so much of its efforts into higher degree work. Yet the context within which this enterprise is being undertaken grows increasingly difficult. Amongst instances cited here are the complexities of annual, as opposed to triennial, budgeting and the staffing problems implicit in an increased proportion of fixed-term appointments. If quality is required in Australia's schools, training and research of high quality is needed in faculties of Education. The Monash faculty will accept this challenge, but it will need adequate resources to fulfil its consequential responsibilities.

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., Hon. M.E.I.C.

Student Entrance

There continues to be an unsatisfied demand for Monash graduates in all disciplines in engineering, and strong indications that there will be a serious shortage of engineers in Australia over the next few years. In these circumstances it remains disturbing to note the continued low popularity of mathematics and science subjects in secondary schools.

As mentioned in previous years, the faculty cannot readily accept students deficient in mathematics and science; failure is the inevitable consequence. It is unfortunate that subject preferences by many students in secondary school place them in a situation where they are seriously disadvantaged in their later career choices. Many young people complete their secondary school education with little knowledge about prospective careers and then find that serious career options are limited.

It is the faculty's experience that matriculants without a strong background in

mathematics and science require at least an additional full year of study before commencing first year engineering. In the previous report it was noted that the faculty advocated 'a preliminary year' for such students. It is pleasing to note that this proposal has been taken up by Rusden State College, who have submitted a proposal to the Victorian Post-Secondary Education Commission for a two year programme for such students. The proposed course would integrate well with the faculty's programmes.

Undergraduate Studies

The total number of students in the faculty in 1979 was 805, a decline of 20 students on the previous year. The distribution of these students in the various departments is shown in Table I.

Table I: Undergraduate Enrolments as at 30 April 1979 (1978 figures in brackets)

	1st Year	2nd Year	3rd Year	4th Year	Total
First Year	263(285)				263(285)
Chemical		17 (13)	15 (21)	20 (21)	52 (55)
Civil		57 (61)	64 (71)	54 (74)	175(206)
Electrical		63 (61)	50 (34)	28 (23)	141(118)
Materials		22 (16)	13 (7)	8 (10)	43 (33)
Mechanical		49 (45)	35 (52)	47 (31)	131(128)
Total	263(285)	208(196)	177(185)	157(159)	805(825)

Postgraduate Coursework

The coursework programme developed further in 1979, both in the number of subjects offered and in the number of students enrolled. Once again the development of the

Masters coursework programme was accomplished only as a result of a dedicated effort by all the staff concerned. The number of students enrolled in the Masters coursework programme was 133, an increase of 21 on the previous year. (See Table II).

Table II: Graduate Enrolments as at 30 April 1979
(Actual, including staff enrolments)

Department	M.Eng.Sc.			Ph.D.	Total
	Prelim.	Research	Coursework		
Chemical	1 (—)	9 (9)	11 (11)	7 (9)	28 (29)
Civil	10 (17)	13 (13)	65 (44)	13 (12)	101 (86)
Electrical	3 (7)	9 (13)	22 (15)	9 (9)	43 (44)
Material	2 (3)	17 (14)	5 (3)	11 (11)	35 (31)
Mechanical	9 (7)	3 (3)	30 (29)	14 (12)	56 (51)
Total	25 (34)	51 (52)	133(102)	54 (53)	263(241)

Research and Publications

Although research activity continued at a high level, mainly as a result of the momentum of previous years, there are disquieting signs of a serious slowdown in research activity because of the reducing number of research scholars. The present level of funding of Commonwealth scholarships is now seriously out of balance with graduate salaries in the market place, and top-level scholars are not prepared to make the sacrifice involved.

Major areas of research activity are given in the University's Research Report. A total number of over 150 learned papers and 4 books were published in 1979.

Operating Budget and Buildings

The faculty continued to be particularly hard-pressed for funds. The total funds available again barely covered basic salary commitments, leaving relatively little for stores, materials and other equipment. In view of the prospective critical demand for engineers in Australia, the faculty is anticipating an increasing demand for places and an increasing demand for consulting and research services by the faculty. These prospective demands cannot be met without additional funding.

The faculty continued to be short of tutorial rooms. The faculty has proposed a building extension which would provide three

Dr Peter Uhlherr (*left*) and Dr David Boger (faculty of Engineering) watch Ph.D. student Nguyen Quoc Dzuy use a Weissenberg rheogoniometer which measures viscosity. They are researching the efficient handling of 'red mud' — a waste product formed when alumina is extracted from bauxite.



additional small tutorial rooms adjacent to the main lecture theatres.

The faculty's proposal for a new hydraulics laboratory, particularly for research in coastal, ocean, estuarine and river engineering, was included in the University's submission for the forthcoming triennium. The faculty is providing increased research support to firms and government agencies concerned with offshore and coastal projects, as well as conducting significant research and teaching in these fields. The proposed laboratory is needed to assist all these purposes.

Staff Honours and Awards

Professor K. Morsztyn retired at the end of the year after seventeen years of service to the University. His major contributions to the University were in teaching and research in electrical power engineering, and especially the study of electrical power systems. Professor Morsztyn was made an Emeritus Professor on his retirement.

Professor K.H. Hunt was awarded the A.G.M. Michell Medal of the College of Mechanical Engineers of The Institution of Engineers, Australia. The Dean was made an

Honorary Member of the Engineering Institute of Canada.

Associate Professor T.A. McMahon was awarded the W.H. Warren Medal by The Institution of Engineers, Australia. Professor W.H. Melbourne was elected Chairman of the International Association of Wind Engineering.

Advisory, Consulting and Professional Activities

There continued to be a considerable call on faculty members and departments to advise and assist governments and industry to conduct research and to participate in committees.

Faculty of Law

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

Students and Staff

As at 30 April 1979 there were 1747 students enrolled in the faculty giving a faculty E.F.T.S. figure of 1201. The breakdown of actual enrolments as at 30 April 1979, is as follows:

	Full time	Part Time	Total
B.Juris/LL.B.	314	154	468
B.A./LL.B.	409	31	440
B.Ec./LL.B.	464	36	500
B.Sc./LL.B.	82	10	92
	<hr/>	<hr/>	<hr/>
	1269	231	1500
Diplomas	—	25	25
LL.M. by major thesis (prelim.)	—	7	7
LL.M. by major thesis	1	8	9
LL.M. by coursework and minor thesis	11	103	114
Ph.D.	1	5	6
	<hr/>	<hr/>	<hr/>
	13	148	161
Not for degree			86

The notional equivalent academic staff (e.a.s.) of the Law School in 1979 was 77.6 (including casual staff). Actual appointments, other than casual staff, as at 30 December 1979 totalled 63.7.

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.

Professor Winston Nagan of the University of Florida visited the faculty for a period of six months as a visiting Fulbright Fellow. While he was here he taught in the area of Conflict of Laws and Family Law and took responsibility for the LL.M. subject Problems in Family Law.

Undergraduate Programme

The curriculum review mentioned in the last report is still in progress and it is anticipated that the restructured Bachelor of Jurisprudence degree will prove attractive to students and potential employers. The precise content of the new Bachelor of Laws curriculum has yet to be determined. Changes in the rules of the Council of Legal Education will, however, lead to a change in the students' selection of subjects in 1980 and later years.

In the light of the high calibre of students entering the law course, the small number of top honours graduates has become a matter of concern. More attention is now being given to the format and content of teaching in the earlier years of the course in order to provide early stimulation for our best students.

Clinical Legal Education

The clinical subject, Professional Practice, has continued to expand. From the beginning of

1979, in response to student demand for places in the subject, the former Student Legal Advice Service expanded into a full legal service in its new premises at Normanby House, catering mainly for the needs of students and known as the Monash Legal Service.

Late in 1979, the Commonwealth Attorney-General made small grants available both to the Doveton Legal Service and to Springvale Legal Service to assist in the administration and development of their programmes of legal aid. These contributions recognise the dual role of the Legal Services as a 'teaching hospital' for budding lawyers and as providers of legal services and facilities to underprivileged members of the community. A Co-ordinator of Clinical Legal Education, to co-ordinate the operation of the three legal services and plan future development of the clinical programme will be appointed.

The development of the programme as a whole during 1979 owed much to the enthusiasm, drive and organising ability of Mr C.G. Powles, Associate Professor H.B. Connell, and Mrs C. Bartlett; the development of the Monash Legal Service in particular stemmed largely from the perception, professional competence and hard work of Mrs Bartlett.

Summer Teaching

Teaching over summer term once again proved successful. The subjects taught over summer term were Administration of Estates; Consumer Protection; Death Gift and Stamp Duty; Economic Regulation; Environmental Law; Law of Employment; Legal History; Legal Philosophy C; Professional Practice; Succession; The Lawyer; and the LL.M. subject, Banking Law.

The total student numbers involved were 255, giving a total subject enrolment of 479. A total of 16 subjects, including half-year and year-long subjects, is being taught during the 1979/80 summer term.

The programme of year round teaching continues to be popular both with staff and with students.

Graduate Studies

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

The Diploma in Commercial Law attracted twenty-five enrolments during 1979. The success of this Diploma in catering for the needs of highly qualified professionals in law and in other fields led to the introduction during 1979 of provisions to provide for a Diploma in International and Comparative Law, a Diploma in Family Law and a Diploma in Taxation. These new Diplomas will be introduced in 1980.

The Leo Cussen Institute

Pursuant to the agreement reached during 1978, the Leo Cussen Institute for Continuing Legal Education is now receiving from the federal government, through Monash University, the funds necessary to maintain its legal practice course. As indicated in the 1978 report the funds received from the Tertiary Education Commission are earmarked funds and the University is not responsible for making up any short fall between the amount of the grant and the needs of the Leo Cussen Institute.

Continuing Legal Education

In 1979 the Faculty of Law continued to take a leading part in providing law-related professions with avenues to maintain their knowledge of developments in the law and related disciplines. The faculty conducted a number of lecture series, seminars, workshops and conferences both alone and in association with other organisations. In association with the Taxation Institute of

Australia, the faculty provided two very successful series of lectures on recent developments in Taxation Law and a seminar on new rules relating to the taxation of trusts. Related to this seminar were two others, one dealing with the responsibilities and liabilities of trustees, and the other dealing with the ambit of professional negligence.

In the Trade Practices area, the faculty held a workshop seminar for the Trade Practices Consultative Review Committee on small businesses and it also mounted its fifth Annual Conference on Trade Practices.

The faculty was associated with the Law Council of Australia and the Faculty of Law at Melbourne in another series of National Seminars in areas of business and consumer law. A seminar in June to celebrate the 75th anniversary of the Conciliation and Arbitration Commission was addressed by the Minister for Industrial Relations, Mr Street, and attracted a cross section of delegates from trade unions, industry, the legal profession and industrial relations. In June and July, the faculty in association with the Leo Cussen Institute organised a series of classes on new developments in a number of important areas of practice.

Towards the end of the year two non-related seminars were held, one on Trusts and one on Administrative Law.

Law Library

The appointment of a third qualified librarian at the beginning of 1979 enabled the Library to improve its performance, especially in the area of reader-services. The Library user is now assured of professional assistance at most times throughout the office hours of each week day.

The Library printed and distributed 100 copies of its *Case-notes Index*. A new edition will be published each year and it is planned in future to also index comments and notes on statutory provisions. It also compiled and printed its *Union List of Law Reports Held in*

Australian Libraries. Both publications will prove invaluable to legal researchers.

The Library's recurrent budget, boosted by grants from the faculty of Law, proved to be adequate for monographs and periodical backsets. On the other hand, the 'continuations' budget (for current law reports, journals, serials, and loose-leaf publications) has given much cause for concern.

There have been suggestions in some quarters that library expenditure on monographs and periodicals should be evenly balanced. This is quite unacceptable in a Law Library. The works which constitute the raw materials of a lawyer's research are all 'continuations', and if the Library's budget remains unchanged, or decreases, 'continuations' must grow at the expense of the monograph collection.

Research

Once again research in the faculty covered a very broad spectrum during 1979. The emphasis of the published work continued to highlight the faculty's 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. At the same time research in the Industrial Law area in legal education and in relation to the functioning of the legal profession continued to grow.

During 1979, members of the faculty published, either alone or in collaboration, a total of fifteen books, one more than the record established in 1978.

More important than the quantum of publication, is the fact that the research output was of immediate relevance to community needs and to professional activities, and was achieved in spite of continued growth of the faculty's commitment to year-round teaching, to the clinical programme, and to continuing education; and in a year when the development of our first diploma courses has increased the load of graduate teaching.

The year as a whole

The year 1979 saw a consolidation of many of the faculty's new initiatives. Clinical education, year-round teaching and continuing education were all placed on a firmer footing.

The faculty developed a satisfactory balance of practical and academic input into its undergraduate course and expanded its graduate teaching into the diploma field. In 1980 it can turn its attention to the pursuit of excellence amongst its top students.

Faculty of Medicine

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

Students

The total number of E.F.T.S. in the faculty in 1979 was 1,509. There were 961 medical undergraduates distributed as follows: year I: 169; year II: 169; year III: 161; year IV: 156; year V: 139; year VI: 160; B.Med.Sc.: 7. Female entrants comprised 40 per cent, as against 36 per cent in 1978.

Staff

Academic staff comprised 121 full-time and 49 part-time members. Clinical teachers included some 250 visiting medical staff and 80 full-time hospital medical staff in affiliated hospitals and approximately 250 general practitioners.

Towards the end of 1979 the faculty learned with much regret but considerable pride that Professor R. Porter had been appointed Director of the John Curtin School of Medical Research at the Australian National University and that he would take up this position on 1 March 1980. Professor Porter joined Monash University in 1967 and, except during 1973 when he was on study leave, was Chairman of the department of Physiology from 1972 until the time of his resignation. During his Chairmanship the new department of Physiology was constructed under his detailed supervision and during a period of intensive scientific activity for Professor Porter and his colleagues.

Honours and Distinctions

Dr R.C. Bayly has been appointed as the first Australian Visiting Lecturer under the Exchange Lecturer Scheme between the Australian Society for Microbiology and the Society for General Microbiology in the U.K. Professor S. Faine has been elected a Fellow of the American Academy of Microbiology; he was also elected Chairman of the Bacteriology Section, and Member of the Executive Board of the International Association of Microbiological Societies, at the International Congress for Microbiology. Professor B.G. Firkin was appointed Boehringer Visiting Professor at Flinders University from 26 February to 3 March 1979. Professor Sir Edward Hughes was appointed Honorary Director of the Menzies Foundation for Health, Fitness and Physical Achievement, established with funds raised by the Sir Robert Menzies Memorial Trust. Dr H.B. Kay, Associate in the Department of Medicine at Alfred Hospital was awarded Membership of the Order of Australia for distinguished services to medicine. Professor V.C. Marshall was appointed British Journal of Surgery Travelling Professor for 1979 and was also guest speaker at the annual meeting of the Association of Surgeons of Great Britain and Ireland at the University of East Anglia.

Dr Grahame Taylor (*right*) of Physiology explains his work on Hirschsprung's disease to a group of Chinese scientists and health workers. The group visited Monash in September and was led by Mr Qian Xinzong, the Chinese Minister of Public Health.



Visitors

Senator Peter Baume, Chairman of the Senate Standing Committee on Social Welfare, visited the faculty on 5 July 1979 to deliver an address on funding of health care. He visited the department of Community Practice and its teaching unit at Moorabbin Hospital, met with students and staff and also took part in discussions on the provision of geriatric services in the environs of the Royal Southern Memorial Hospital.

On 14 September 1979 Mr Qian Xinzong, Minister of Public Health in the Government of the People's Republic of China, and a delegation of eight Chinese officials, visited the Faculty of Medicine and had an opportunity of meeting staff and discussing research

activities on campus and at Monash Medical School, Alfred Hospital. At the request of the delegation the provision of health care in rural areas of Victoria was also reviewed by Professor Carson and staff of the section of Community Practice.

During the year other visitors who spent longer periods at the University included Professor A. Kent Christensen (Anatomy) from Ann Arbor; Professor Soupert (Obstetrics and Gynaecology) from Vanderbilt University; Professor June Lloyd (Child Health) from St George's Hospital Medical School, London; Dr J.E. Fothergill (Biochemistry) from the University of Aberdeen; Dr J.E. Olley (Pharmacology) from Bradford University; Mr Charles Mann (Surgery) from St Mark's Hospital, London; Professor T.C.

Laurent (Medical and Physiological Chemistry) from the University of Uppsala; Professor I.R. McWhinney (Family Medicine) from the University of Western Ontario; Dr D.L. Aronson (Medicine) from the Department of Health, Education and Welfare, Bethesda; Professor E.G. Jones (Physiology) from Washington University; Professor F.L. Crane (Biochemistry) from Purdue University; Professor G. Bernardi, (Biochemistry) from Paris; Professor P.W. Majerus (Medicine) from Washington; Professor J.O. Davis (Medicine) from Columbia, Missouri; Dr A. Zanchetti (Medicine) from Milan; Professor R.W. Schrier (Medicine) from Colorado; Professor H. Fox (Obstetrics) from Manchester and Dr H.C. Ong (Obstetrics) from the National University Malaysia.

In 1977 the faculty determined to set aside a sum equivalent to the salary of one staff member to be shared by departments for the purpose of inviting distinguished academics from overseas or elsewhere in Australia to take part in teaching and research for periods of three weeks or longer. This arrangement anticipated one of the recommendations of the Williams Committee and has proved to be highly successful for the faculty.

New Hospital Affiliations

During the year negotiations leading to an affiliation agreement were completed with the Western General Hospital which will be a Clinical School as from 1 January 1980. The agreement with the Hospital will add substantially to the resources available to the faculty for clinical teaching and will provide an opportunity for promoting special aspects of health care. In the region of industrial medicine, for example, the Hospital would form a suitable base for the study of occupational health using existing resources of the department of Social and Preventive Medicine and providing that appropriate support could also be made available from the Health Commission and other sources for this purpose.

For some years fifth year students from Monash University have attended the Box Hill Hospital for training in Obstetrics and Gynaecology and Paediatrics. During 1979 this arrangement was established on a permanent basis through affiliation with the Hospital for the purpose of teaching in the two areas.

During 1979 negotiations directed towards formal affiliation continued with representatives of the Dandenong and District Hospital and also with representatives of the Cancer Institute. There are considerable logistic problems in ensuring that each medical student has a balanced programme with appropriate experience during clinical studies. However various committees in the faculty have continued to review curricular proposals with the object of enabling students to make the best use of resources now available to the faculty for clinical teaching.

Clinical Teaching

All Victorian hospitals are now involved in cost containment exercises at the direction of the Health Commission. The Commission has agreed to a procedure through which teaching hospitals can be reimbursed for costs attributable to the provision of some types of facilities for clinical teaching. Allocation of funds to each hospital for this purpose are to be made in proportion to expenses incurred and are to be derived from the allowance to the University from the Universities Council for Teaching Hospital Maintenance Service Costs. However, it is clear that none of the teaching hospitals will be fully reimbursed from the Federal Grant for actual expenses incurred and it remains to be seen whether or not the Health Commission of Victoria will provide funds to cover the shortfall for each teaching hospital.

In 1979 the faculty introduced a pilot trainee intern programme for final year students attending the Royal Southern Memorial, Dandenong and Frankston Hospitals. The success of this venture has encouraged

the faculty to expand the programme to include students at Western General Hospital although in 1980 it will still not be possible for all students to take part in this activity. The trainee intern programme, although not yet fully developed, provides an opportunity for final year students to be better prepared for the intern year which they are required to undertake if they are to become registered medical practitioners in the State of Victoria.

One consequence of the restricted funding for hospitals is that more restricted opportunities for extended postgraduate training in a hospital setting may be expected. Each medical student on graduation is assured of a hospital appointment as an intern in order to complete a year of post-graduate hospital training (the preregistration year), but the Victorian Government has given no undertaking that each graduate will necessarily be admitted to more advanced training afforded by appointment to more senior resident and registrar positions in hospitals.

The faculty's Standing Committee on Post-graduate Affairs continued to plan, through short courses and other programmes, for the educational requirements of the growing number of graduates of the faculty. The need for a centre for graduate training has been identified in the 1982-84 triennial submission. Through the expansion of facilities for clinical teaching outlined in the 1978 Report of Council, the faculty is now in a better position to co-ordinate postgraduate training should the opportunities for vocational training of medical graduates become more restricted through a reduction in the availability of appointments to junior hospital staff positions.

In seeking approval for a new category of academic appointment, Clinical Associate Professor, which was agreed by Council in 1979, reference was made to the high ratio of clinical teachers (comprising visiting and full-time medical staff of hospitals and general practitioners) to full-time and fractional clinical academic staff (a ratio of approximately 11:1). Prior to the establishment of

the Clinical Associate Professor grade, clinical staff in the Faculty of Medicine at Monash University were at a disadvantage compared with clinical academic staff at Melbourne University in respect of promotional opportunities. The new rank will enable clinical departments to assume more effectively their increasing responsibility for academic leadership in the increasing number of teaching hospitals needed to provide an expansion of facilities for undergraduate and postgraduate teaching.

Curriculum

During 1978 and 1979 an extensive review of the preclinical curriculum was carried out by representatives of campus departments. Boards of Studies with representation from all departments and also from undergraduates, were established to examine teaching in particular themes throughout the six years of the course, and have largely completed their reviews.

Following the review by the campus curriculum committee a further group examined teaching in the fourth year of the course and accepted the recommendation of the campus committee that the possibility of introducing clinical teaching in the third term of the third year of the course should be explored further. Clinical professors are at present examining possible changes to clinical teaching in the light of this recommendation and a consolidated report to the Faculty Board is expected in 1980.

Association of Monash Medical Graduates

During the past three years representatives of the graduating classes of 1966, 1967 and 1968 proceeded with planning to establish an Association of Monash Medical Graduates and the inaugural meeting of the Association was held on 9 August 1979. Dr R.M. Dargaville was elected President and a committee was appointed to further aims which include the provision of financial support for

undergraduate students in need. The Association is now represented on the Faculty Board and an opportunity thus exists for an expression of graduate opinion on curricular matters and other issues which will advantage the faculty greatly during its deliberations.

Research

The faculty continues to attract a significant proportion of funds allocated in 1979 for new and continuing projects by the National Health and Medical Research Council (\$699,742) and the Australian Research Grants Committee (\$264,075) although both

organisations were unable in 1979 to fund many grant applications from throughout Australia which would have gained support in previous years. Research funds from other sources were \$1,016,738 and total outside support for the faculty was \$1,980,553. Research productivity as evidenced by publications in international journals of high standing gives cause for satisfaction, but the increasing costs of maintaining the present momentum in research and the fact that over 20 per cent of the income for the faculty now comes from outside sources emphasises the need for the faculty to maintain the highest standards of research activity if this support is to continue.

Faculty of Science

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

Students

At 30 April 1979 the faculty had a total enrolment of about 1400 men and 800 women students in its undergraduate courses, and about 340 men and 100 women students undertaking postgraduate studies (M.Sc., Ph.D., and M.Env.Sc.).

The total number of bachelor degree students, including those enrolled for a combined Science/Law degree has been close to 2050 \pm 50 over each of the last five years. It has proved to be quite difficult to control the intake of new students each year so as to ensure that the overall 'student load' targets set by the Universities Council are met. For example, only some 88 per cent of the students offered a place in first year directly following their year-12 studies in a Victorian school in 1978 actually enrolled in 1979. Of those who did enrol some 10 per cent sought immediate deferment (to be replaced only in part by the arrival of students who had deferred twelve months earlier), while a fur-

ther 10 per cent of those who enrolled and commenced classes sought intermission of their studies between 1 March and 30 April, the date on which the 'final' census was taken. These percentages vary in a seemingly unpredictable way each year. The yield of enrolled students from 'E-type' offers is even smaller — less than 10 per cent. The 'E-type' students are those applying from interstate or overseas or from a technical school or from another university. Many of them undoubtedly apply to a range of institutions in a number of different states.

For one category of hard-working and dedicated overseas students, however, the acceptance rate is very high. These are the 'N-25' students who study the Victorian year-12 programme at Taylors College in Kuala Lumpur and sit for the Victorian Higher School Certificate examination in their city. The number in this sub-class of overseas students applying for entry to Monash Science through the Victorian Universities Admis-

sion Committee system has grown from 70 in 1977 to 135 in 1979; the numbers admitted over those three years have been approximately 20 per annum. Some 250 'N-25' students have applied for 1980 and the number likely to accept a place will probably exceed 70.

Experience in England, Canada and the United States would suggest that the recent decision of the Australian Government to charge a 'visa fee' for overseas students seeking an education in Australian universities or colleges will increase, rather than decrease, the numbers of such students applying for admission. When the host country charges no fees, the foreign governments tend to place a limit on the number of exit visas granted. Once a fee is charged these controls tend to be more liberal so that the number applying increases.

The number of overseas undergraduates in the Faculty of Science has grown steadily from about 5 per cent of the student population in 1977 to nearly 9 per cent in 1979. At the current rate of increase the proportion of overseas students in the faculty could exceed 24 per cent by 1982. In late 1979 the faculty, operating under new legislation approved by the University Council, proposed a quota for qualified overseas students of 8 per cent of the first-year intake. This proposal was referred back to the faculty for further consideration by the Professorial Board. No such quota will operate in 1980, therefore, and the matter will be reviewed in the light of 1980 enrolments.

Increasing numbers of secondary students are enrolling for General Mathematics within a Science/Engineering/Medicine-oriented school programme, rather than the traditional Pure Mathematics and Applied Mathematics. The faculty is concerned that General Mathematics does not provide a satisfactory mathematical preparation for most of the courses in Science, and in particular for the basic first-year subject 'Mathematical Methods' which is taken by more than 96 per cent of Monash first-year Science students. The

department of Mathematics is providing special help to the 'General Mathematics only' students. The whole question of Mathematics at year-12 level is now under discussion with the Victorian Institute of Secondary Education, and it may be hoped that some solution to the present difficulties can be found.

Faculty of Science Scholars

During the year the faculty set up procedures that recognised students who display excellence in their studies. The title of 'Faculty of Science Scholar' was formally introduced and may be conferred on any student whose performance in any year of the course has been outstanding. Students with exceptionally good HSC results at the time of entry into the course are invited to enter the scheme, though without any title until their first year's assessment has been completed. Faculty Scholars are personally directed in their studies by the chairman of the relevant department, and are offered an overweight course providing extra depth of academic experience in the areas that interest them. In certain cases a scholar can, if he so wishes, opt to make accelerated progress in his course so as to complete the requirements of the four-year honours degree in only three years. The Faculty Scholars first selected in 1979 fulfilled the promise; in summary, thirteen scholars studying at the first and second-year levels between them gained 42 High Distinctions, 11 Distinctions, 3 Credits, and 2 Passes. Another outstanding student who entered the faculty before the Faculty Scholar scheme was introduced had, in 1979, completed a work load of 5.2 formal years of instruction in only 3 years, and gained a total of 8 High Distinctions (including two 301 subjects), 3 Distinctions and 2 Credits.

Teaching and Laboratory Space

From the earliest days of teaching in the Science course it was clear that the laboratory facilities provided for first-year Biology would

be inadequate for the likely demands. The faculty is most grateful that in 1979 it was given financial support from the University to reconstruct the Biology laboratory so that adequate numbers of students can complete a proper course of practical work each week and so prepare themselves for the wide range of biological disciplines awaiting them in the later years of the course. Resolution of this problem has obviated the need to explore the proposal for two separate entry streams into the faculty as outlined in the 1978 *Report of the Council*.

The space made available by the Physics department for the purpose of operating a first-year Computing laboratory has proved to be highly successful, though already the student demand is taxing the facilities to the limit. In 1979 construction commenced of the new Microbiology building in the area west of Physics; the building is due for completion in the latter part of 1980. Funds were found from within the University to complete the 'shell' areas on the third and sixth floors of the Biology building.

Affiliation Agreement

The University Council has approved a proposal emanating from the Faculty of Science that the University should affiliate with the National Museum of Victoria. Senior scientific staff of the Museum are experienced research scholars, most of whom enjoy international reputations. The expertise of these staff members, and the Museum's laboratories and extensive collections of reference materials in zoology, palaeontology, geology, and anthropology are important adjuncts to some of the University's educational and research activities. The intention of affiliation is to further a co-operative effort for the benefit of staff and postgraduate research and to bring relevant Museum facilities and staff into closer contact with graduate and undergraduate students by arranging joint projects with shared supervision, and lecture and seminar programmes of mutual interest.

Staff

Professor B.O. West continued his part-time appointment as Pro-Vice-Chancellor in parallel with his duties as Professor of Inorganic Chemistry. Professor G.B. Preston resigned as Chairman of the department of Mathematics to undertake an outside studies programme; the new Chairman is Professor P.D. Finch.

Dr D.M. Churchill, Director of the Royal Botanic Gardens and National Herbarium, completed a three-year term as a member of the University Council elected by the Faculty of Science; the newly-elected member is Sir Robert Price, K.B.E., D.Sc.(Adel.), D.Phil.(Oxon.), F.R.A.C.I., F.A.A., who until recently was Chairman of CSIRO. Professor J.M. Swan was appointed by the Minister for Science to the Australian Research Grants Committee and continued to serve on the Meteorology Policy Committee, the Council of the Victorian Institute of Marine Sciences, and the Victoria Conservation Trust.

The faculty records with regret the death of Dr L.J. Gleeson, Reader in Applied Mathematics, on 19 February 1979 after a long illness. He had joined the department of Mathematics originally in 1961 on a Shell Postgraduate Fellowship.

Finances

The impact of financial stringencies on faculty staffing and maintenance budgets has been apparent, and the faculty has expressed its view to the Professorial Board that no major changes in any course structure or subject offerings by any one department or faculty should be permitted until the consequential effects of the proposed changes (particularly the effect on existing staff structures and departmental budgets) have been carefully examined.

The faculty was again very successful in attracting support for its research. Of the total of \$1,123,137 granted to the faculty, the Monash Special Research Grants provided \$207,534 (18.5 per cent) with the balance of

\$915,603 (81.5 per cent) being provided by outside funding agencies ranging from the Australian Research Grants Committee through industry and research foundations to private individuals. The faculty was most

grateful for this support which allowed the continuation of a vigorous programme of research, as demonstrated by the lengthy list of publications shown in the University's annual *Research Report*.

Library

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

More and more in 1979 the spread of new technology became visible. To the public the 'squeaky pen' of automatic data collection units could be heard in more of the libraries; to the research workers, access to a startling array of on-line data bases became a reality; while the cataloguing department had the difficult and time-consuming task of adjustment to a whole range of external restrictions and standards while trying to hold to self-consistency in existing records.

Overall it was a satisfactory year. Funds available were adequate to keep up with significant current publishing in our areas of collection, though not for any major programme of retrospective purchasing. It is clear that this must be cautiously resumed, though in the face of continuing steep price rises for all library materials, and the promise of more to come, this is a difficult decision to make.

Re-assessment of the Library's periodicals subscriptions continued, but in a calmer atmosphere: unfortunately the results were minimal. In 1980 periodical subscriptions must be trimmed to a financially more healthy state.

A sub-committee of the Australian Vice-Chancellors' Committee (A.V.C.C.), set up to look at non-salary library costs, asked the Library to prepare and maintain an index of the costs of books, periodicals and binding. This has been done since 1976, and the results distributed to the A.V.C.C., the T.E.C., and other university libraries. In 1979 two other libraries commenced supplying input

to the index, which should make it even more widely acceptable. One fact revealed by the index is that in 1979 new books, whose price rose on average 19 per cent over the year, outpaced periodicals, whose inflation rate was 15.3 per cent.

The slight downward trend in student loans was reversed in this year; they increased from 534,194 to 598,671, some 12 per cent, with no increase in student numbers. The Plessey light-pen data collection system was extended to Hargrave and Biomedical Libraries early in the year with very few difficulties. Badging of books in the Law Library was carried out in November and December, in preparation for equipment to be installed in 1980.

The system was also extended to State College Rusden early in the year, and S.C.V. Burwood is being readied for connection in 1980. A staff member has been appointed to handle both the liaison and the programming involved in these outside activities, so that their interference with the primary operation is minimal.

A very positive improvement in communication virtually transformed the information retrieval field. The Biomedical Library had been an enthusiastic user of the MEDLINE system and later BIOSIS, mounted for Australia by the Department of Health and the National Library but, as every search involved tying up a trunk line to Canberra, for some time costs were a restraint. During the year, the Department established a com-

The German Democratic Republic donated about 100 classical and contemporary East German books to the Monash Library. The University Librarian, Mr Brian Southwell inspects a selection of the books.



munications node in Melbourne, and the cost of a search was suddenly reduced to that of a local call.

An even more dramatic development was the inauguration of the Overseas Telecommunications Commission's 'MIDAS' service, in which packet-switching techniques are used in a satellite relay to networks in the U.S.A. As a result, quick low-cost searches are possible, on computers in America, of data bases of greater variety and in depth than could be imagined in Australia. So far the humanities are badly served in the provision of these files, but for most other areas of study they will be of enormous value.

Access to tools with such power naturally throws into doubt the future of AUSINET, the Australian equivalent. Its first base and

its original *raison d'être* was the educational file, ERIC, and this is still the file most often used. Some Australian bases are beginning to appear, but until they become more significant, the future of AUSINET seems to be as a practice pitch for new search analysts and as an inexpensive way of refining search strategies for later application on DIALOG or ORBIT in the United States.

It has been expected that the greater information available from these data bases would result in an increased demand for a wider range of documents. In fact, inter-library borrowings did increase, but only slightly (from 5,640 to 6,179) and probably not significantly. Inter-library loans on the other hand, showed a slight drop, from 26,799 to 26,671; the only other fall ever recorded was in 1966.

Reader Education activities continued as a time-consuming but necessary and satisfying part of reader services work. In the Humanities and Social Sciences Library a coordinator of reader education was appointed, and a very useful seminar was held, attended by the Library's subject specialists and the departmental first-year coordinators, to prevent duplication.

The area of activity of the Biomedical Library, supported in its role as reference centre of the Australian Hospitals Association by the Kellogg Foundation, has been widened following positive measures to publicise the service. Hospitals in all states and several countries of the South Pacific have been helped, and the service is still expanding. Closer to home, the University is now affiliated with ten different hospitals spread between Dandenong and Geelong, and to all of these the Biomedical Library provides a continuing bibliographic checking, reference and the University's interloan service in support of staff and students.

Three major bibliographic works were completed during the year by staff of the Law Library: *Legal Research: Materials and Methods*, (2nd edn, Law Book Co.), for which the Law Librarian, Ted Glasson, was co-editor with Professor Campbell and Mrs Lahore; *Case-Notes Index* (1968 to date); and *Union List of Law Reports Held in Australian Libraries*. The latter two have been widely distributed in Australia and most favourably received.

Mention has been made of the preparation of books in the Law Library for computerised circulation. Also during the year an automatic book security system was installed, after a stock-take had revealed serious book losses. It is too early to be sure of results but the impression is gained that the cost is justified and losses markedly reduced.

Whereas automation of reader services processes has expanded horizons for the staff

and done so with minimal disruption the same cannot be said for cataloguing. Automation of cataloguing processes, especially as part of a consortium, has imposed considerable strains on the staff concerned. With the computer support still under development, and Monash as the first large library to enter the scheme, every small decision has major implications, and the time taken in consultation is considerable. The spirit of compromise may be present; even so the details of operation require soul-searching, discussion and time. Work began on the input of cataloguing to the CAVAL data base in July. By the end of the year procedures were clarified, but Monash entries were still few, and mainly experimental. However, the basic work has been done, and it is expected that the pace will increase quite rapidly in 1980.

To add to the difficulties, two major changes in international formats were introduced during the year: the second edition of Anglo-American Cataloguing Rules, which makes radical changes in forms of heading, names and other aspects of cataloguing, and the 19th edition of Dewey, in which many areas have quite new classifications. Different national agencies, from which Monash draws cataloguing data, have different time-tables for the implementation of these new rules, and synchronising these changes with Monash Library's changes in cataloguing practice and the planned closing of the card catalogue late in 1980 has meant even greater strains. With all this disruption, it is hardly surprising that cataloguing output fell during the year, by about 2,000 titles, giving an addition of 26,487 titles to stock.

Total stock rose by nearly 53,000 volumes, to 991,500. It appears certain that the Library will top its millionth volume early in the new year — less than twenty years after the appointment of the first Librarian. This is an achievement of which Monash University can be proud.

One factor which has made it possible is the continuing support of its friends: the formally-titled Friends of the Library, who have made possible the purchase of many treasures, the Parents' Group, who have again this

year made the Library the main beneficiary of their fund-raising, and the many thousands of others who continue to assist, either with gifts of books, or by their continuing support of the Library Appeal.

UNIVERSITY FACILITIES

Alexander Theatre

1979 was, once again, a very busy year for the Alexander Theatre. The range of the Theatre's activities continued to be wide, encompassing public lectures and symposia, student and professional production and presentations, films, and productions by local community groups. In all the Theatre was used on 313 occasions over the year, which does not include official and academic occasions.

Student theatre had a varied year. The Monash University Musical Company production of *Cabaret* was a notable success, but the 'Fabrique' (formerly Monash Players, now Monash Theatre Workshop) production of *1786 - A Revolution* fared less well. Students were also heavily involved in the co-operative group Pan Pow pantomime, *Peter Pan*, reported on below. In addition, the Theatre was much used by the Film Group and other societies for screen presentations.

In spite of the difficulty of competing with theatrical monoliths such as the Melbourne Theatre Company, the Alexander has continued to maintain a presence in the professional field, and our productions in adult and children's theatre were supported by a grant of \$20,000 from the Victorian Ministry for the Arts. The most ambitious production, *Measure for Measure*, directed by Malcolm Robertson, was acclaimed by the critics, but failed to gain the audiences it deserved. In this respect it should be noted that the fragmentation of the H.S.C. English course has made it more difficult to attract sufficient student audiences for productions of syllabus plays.

However, the Theatre enjoyed considerable success in joint presentations with the Victorian Arts Council, which included the mime artist Nola Rae in *Some Great Clowns From History*, the children's production, *Merry Tales from Andersen and Grimm* and the extraordinarily successful *Flexitime* by the New Zealand public servant turned playwright, Roger Hall. The latter played to 82 per cent

capacity audiences at the Alexander and returned to Melbourne for a second season at the Comedy Theatre. These joint ventures have thoroughly justified themselves, and the Theatre will be looking to develop them further.

Perhaps the Theatre's greatest achievement in 1979 was in the area of children's theatre. The Pan Pow production of Barrie's *Peter Pan*, adapted by a former Monash student, John Alsop, was very successful on all counts, and there were May and August holiday productions of *Merry Tales from Andersen and Grimm* and *Tales from the Arabian Nights*. The Australian Dance Theatre and the 'Puppet People' from Queensland both visited the theatre to perform for children, and the renowned Saturday Club continued on its winning way. In short, the fare for children offered by the Theatre was rich, sustained and varied.

Local community groups hired the Alexander for productions in the course of the year. These seasons help maintain our ties with the region which Monash serves; they also contribute to the financial well being of the Theatre. In this respect it can be reported that the financial position of the Alexander Theatre is not only sound but has strengthened in 1979. Such a position is necessary if the Theatre is to realise its potential, particularly in the entrepreneurial area. 1979 also saw improvements to the lighting control system, with the installation of a new control board and additional equipment.

A shadow was cast over the year, however, by the death of the much loved chairman of the Theatre, Professor Arthur Brown. His genial and efficient chairmanship, and his very real interest in the activities of the Theatre, will be much missed. The director of the Theatre, Dr Alan Dilnot, retired in 1979 to go on study leave after three years of dedicated service, and has been succeeded by Mr Peter Fitzpatrick of the English department.

Robert Blackwood Hall

1979 was a year of further achievement and consolidation. The basic site works in readiness for the arrival of the Louis Matheson Pipe Organ from Herr Jürgen Ahrend's Organ Works in Leer, north-west Germany, were carried out and the large curtain which will mask the organ was hung.

The Hall was in operation on 256 days to cope with 271 functions which included 110 concerts (chamber, orchestral, choral, youth, popular, band, puppets, gospel and concerts for schools), 11 speech nights, 10 graduations (Monash and other), 20 conferences and seminars etc. Examinations and re-enrolments occupied the Hall on 71 occasions.

Robert Blackwood Hall hosted the finals of the World Fencing Championships on nine evenings, from 19 to 27 August.

The Australian Broadcasting Commission increased its use of Robert Blackwood Hall in 1979 to include the Commonwealth finals of the Instrumental and Vocal Competition (instrumental and keyboard) and, apart from a successful Gold Series concert season, nineteen days were used for recordings, both sound and colour video, most for release overseas.

In all, 127,626 persons used the Hall for one reason or another. The majority of patrons were from outside the campus, which stresses the important role that the Hall plays as a community asset. The City of Waverley Council continued its support of free Sunday Afternoon Family concerts.

Monash University Bookshop

Early in 1979, the Monash Bookshop was asked to take over the operation of the bookshop at the Prahran College of Advanced Education. After a careful consideration of the advantages and disadvantages of the venture, the decision was taken to extend the Monash Bookshop activities to include the Prahran College as this would lead to a greater flexibility in the utilisation of resources and a potentially greater turnover without too

great an increase in operating costs. Trading at Prahran commenced on 1 April and has been conducted without loss this year.

The Bookshop Manager undertook his second overseas buying trip to the United States and Britain in May/June and a further trip to the United Kingdom in October at the invitation of the British Overseas Trade Board and Book Development Council.

During 1979 the Bookshop achieved gross sales of \$1,350,858 which was \$26,108 (2 per cent) above the budgeted sales for 1979 of \$1,324,750. The increase in sales during 1979 has resulted in a very small trading surplus. This improved result has been mainly attributable to a further reduction in staff costs and the acquisition of the Prahran Bookshop and the commendable efforts of the entire Bookshop staff.

However, the operating results reflect the fact that there have been considerable cost increases in book prices over the year and it is expected that 1980 will bring even greater cost escalations. Of continuing concern too is the presence of other book and stationery outlets on campus, and these limit the economic viability of the Bookshop. In addition, the change in the student mix, buyer resistance brought about by the increasing price of books, and the cost of non-returnable stock being rendered almost valueless through many changes in prescribed books nominated by various areas from year to year continue to present problems.

With the increasing pressures on the Bookshop, 1980 will be a very exacting year.

Religious Centre

The establishment of chaplains for 1979 included the Rev. D. Evans, Protestant Chaplain; Mr P. Forgasz, Chaplain to Jewish students; Rev. V. Kleinig, Lutheran Chaplain; and Rev. Fr P. Knowles, O.P., Roman Catholic Chaplain.

Regular services throughout the year included the daily celebration of mass, with the exception of Saturdays and some term holi-

days, daily Islamic prayers, a Sunday evening Protestant service, a weekly Lutheran service and, during University terms, a weekly Anglican Eucharist celebration 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 continued to be made by student societies, with regular bookings occupying week days, evenings and weekends. Requests for wedding bookings increased significantly during 1979 compared with the previous years, with 118 weddings being held in the Centre. Again, a number of bookings were made by university departments and groups outside the University for meetings or services.

Instead of the usual lecture series, six sessions of an Inter-faith Dialogue incorporating Christian, Jewish, and Moslem viewpoints were organised by the chaplains with students. The Dialogues covered a number of basic theological and ethical issues and it was interesting to note that the seminars on purely theological issues were better attended than those of a socio-political orientation.

Signs of growth and confidence amongst religious groups on the campus, both within and between the various organisations, were evidenced by such events as a programme of theological and cultural activities run by the Monash Jewish Students Society, seen as one of the best such series on campus in recent years, and the initiation by the Evangelical Union of a weekly prayer meeting of leaders from the various Christian groups.

The Sharp Organ became the focal point of the Centre for many successful musical events, including a recital during the Autumn Festival of Organ and Harpsichord, a popular series of lunchtime recitals performed by notable visiting artists during first and second terms, a series of organ and choral recitals conducted on Open Day and an end-of-year concert organised and performed by Monash staff.

During 1979 the Chaplaincy Library was extended significantly with a selection of books on Jewish literature, history, philosophy and biblical studies. The growing collection of modern materials is being used increasingly by students.

Early in the year, the Religious Centre Advisory Committee commissioned a post-graduate student to prepare a publication covering the many aspects of the Religious Centre in the life of the University and the community and is looking forward eagerly to its completion in the coming year.

Careers and Appointments

The difficulties experienced by new graduates in obtaining employment during recent years continued throughout 1979, but students completing courses at the end of 1979 found improved employment prospects in some areas.

The demand for engineers, which has given cause for concern in recent years, showed a strong increase, and a shortage of engineers is anticipated over the next two to three years. Demand for graduates from the physical sciences continued to be encouraging particularly those completing studies either in computer science, or in disciplines that provided a suitable grounding for careers in computing. The strong demand experienced for graduates in chemistry last year continued throughout 1979. Economics graduates qualifying in accounting attracted much interest from employers. Although new graduates in law are able to complete pre-professional training with little difficulty, an increasing number may be leaving the legal profession within three years of graduating. There is a steady need for them in accounting, business and government organisations, usually doing work not specifically legal in nature. Arts graduates continued to proceed with further courses of study, rather than proceed directly to employment immediately upon graduation. The outlook for teachers continued to be uncertain, although nearly all those com-

pleting training found teaching positions. Graduates in biological and social sciences, and those completing pure humanities courses found jobs elusive, and many accepted positions of lower status in fields outside their original choice.

Casual and part-time employment continued to be in short supply, although willingness and persistence were attributes that usually resulted in success. Most students with critical financial needs were able to earn adequate income.

During the year studies were conducted into the recruitment of graduates by chartered accounting firms, and the experience of law graduates obtaining articles of clerkship in 1979.

The active programme of establishing contact with prospective students through counselling and school visiting was maintained through the efforts of Mrs L. Andrew, and this work will continue to receive high priority in the year ahead. Mr B. Walsh spent most of the year on secondment to H.E.A.R.U. completing his work on manpower planning. Mr. W.H.C. Mann retired from the position of Careers and Appointments Officer, and was replaced towards the end of the year by Mr L.H. Parrott.

Student Counselling

In 1979 the Service saw fewer clients (5 per cent) than in 1978, which is probably the result of the shortage of counsellor hours that were available, due to the unfilled vacancy left by the retirement of Mr George Cally in January 1979. However, total interview hours for the year increased by 3 per cent over 1978 and there was a slight increase of .2 in the average number of interviews per client.

Major problems which appeared in the year fell into the personal developmental area. Issues here are becoming far more complex in nature, and require more counselling time than in the past. This trend also appeared to be the case in the vocational/educational area. Here clients presented problems

which were more involved than the normal study or course advising issues, because in most cases there was an underlying uncertainty and disillusionment with the future.

The Service saw more female students (52 per cent), which appears to correspond with the overall increase of female students within the University. There were also increases in the number of students from the Arts, Education, Science and Engineering faculties, resulting probably from the uncertainty of the future value, in work terms, of courses offered by these respective faculties.

Staff of the Counselling Service offered a number of group programmes in 1979 in the areas of relaxation, study skills, orientation, and interpersonal relations. However, there were slightly fewer of these programmes offered than in 1978, but it is evident that such programmes are desired, especially those directed at the practical survival issues faced within and without the University.

During the year the Service also provided a counsellor for two nights a week at the Halls of Residence as well as for a half day at the Alfred Hospital. Staff were also called upon to teach and consult in various areas within and outside the University, namely the Faculty of Education, Counselling and Guidance Division of the Education Department, and the Institute of Early Childhood Development.

Students' Grants and Loans Committee

The Committee approved seventy-five applications for assistance, in the form of loans and non-repayable grants, totalling \$74,285, compared with sixty-seven approvals for a total of \$69,349 in 1978.

Borrowers whose loans had matured repaid \$53,460, and \$10,684 was received as interest. The net depletion of available funds reflected the lower average amount of loans approved in earlier years and which became due for repayment in 1979.

Expressions of appreciation of past assistance continue to be received.

Student Housing

The number of students assisted through the Student Housing Office remained at about the same level as in 1978 (3,800) both for advice and actual housing requests.

The availability of accommodation in private homes is still diminishing. As the requests for this type of accommodation came mainly from first year country and overseas students, many of these students were forced to live in commercial flats without the experience to manage them and, as a result, faced many social and financial problems.

Group living was still popular with the more senior students and there was a strong move towards houses in preference to flats.

The South-East Flats increased in popularity and more students stayed on over the long vacation. The occupancy level remained at slightly over 80 per cent the whole year; the shortfall was due to some students deferring or relinquishing their studies, and others completing their courses.

The Halls of Residence experienced a satisfactory year in which very careful management was necessary to cope with rising costs. The Halls operated at 100 per cent occupancy throughout the academic year and maintained a waiting list at most times. Once again a modest advertising campaign was conducted to remind students about the Halls' services.

The system of charging separate accommodation and meal fees continued in operation and again proved most effective in budgeting and controlling costs. The 1979 student accommodation fee was raised by 13 per cent to \$24.85 per week. Food prices were increased initially by 10 per cent over the previous year, but at the beginning of the third term, increased food costs required an additional 10 per cent price increase. During the year, the average food service expenditure per resident per week was \$8.46. The average expenditure per week for students who took all meals available was \$19.74.

Therefore most residents lived in Halls for between \$33.31 and \$44.59 per week.

Late in the year, the Halls' boilers were converted from oil to natural gas to reduce energy costs.

Dr Stafford Kay, Warden of Deakin Hall was Chairman of the Committee of Wardens until he went on study leave in June. Dr Bruce Allender, Warden of Roberts Hall, then served as Chairman for the remainder of the year. Mr Hugh Monypenny resigned as Warden of Richardson Hall at the close of the year and Dr Ione Fett was appointed as his successor.

Health Service

1979 was a difficult year for the Health Service and it was perhaps surprising that there was not a greater drop in consultations for the year than the minor one which did occur. Dr Sawrey was absent due to illness from February until he retired in July. Dr C.E. Sawrey came to this University as Director of the Health Service in 1964. He relinquished this position because of ill health in August 1974, but continued on as a valuable member of the Health Service staff until his retirement.

The Health Service is indebted to Dr R. Bleier who, despite other commitments, unselfishly helped out during this difficult period.

Statistics for 1979 (figures for 1978 in brackets) were as follows: total attendances 21,535 (21,921) visits by 7,124 (7,086) persons; 4,302 (4,396) visits were made by 1,556 (1,590) staff members; 16,795 (17,183) visits were made by 5,351 (5,293) students or 38.5 per cent of the 13,910 total enrolments. 438 (342) attendances were made by 217 (203) visitors.

Aboriginal Research Centre

The Centre, formerly the Centre for Research into Aboriginal Affairs, was established in December, 1964 to fill a gap in the existing research materials about Aborigines.

At that time there was a lack of information on contemporary aspects of Aboriginal life when compared to that available about traditional life.

The objectives of the Centre are first to undertake and stimulate research into Aboriginal demography, legal status, health, education, employment, vocational training, housing and social change, and to publish the results of its research. Secondly, to maintain a body of information on matters relating to Aborigines and to provide information and resources materials in response to enquiries from a wide range of people both inside and outside the University.

The Elizabeth Eggleston Memorial Aboriginal Resource Centre was extensively used by staff, students, and the general public during 1979. The collection is catalogued and holds over six hundred monograph titles, eighty periodical titles and about two thousand pamphlet items. Holdings also include seminar papers, research reports, annual reports, audio tapes, slides and videotapes.

During the year the Centre staff conducted an Aboriginal Studies Lecture series which was accredited a 6-point unit at second year level for the Arts degree. These lectures were also open to the public. This lecture series was also held at Melbourne University in conjunction with the Aboriginal Liaison Officer. Lectures were also given by staff members to students at teachers' colleges, other universities and service clubs, such as Rotary.

Staff at the Centre were involved in a wide range of research projects during 1979 including research on teacher education for the urban Aboriginal situation, Aboriginal community workers course, provision of legal services to Aborigines, Aboriginal community development in Eastern Australia and effect of prisons on Aborigines.

In addition, the Director, Mr Colin Bourke headed an evaluation team to assess the effectiveness of the Adelaide Aboriginal Community College and the senior tutor, Ms Eve Fesl followed up her research project, which

evaluated the possibility of introducing an Aboriginal language into Victorian schools, by developing a Bandjalang language programme for trial in 1980.

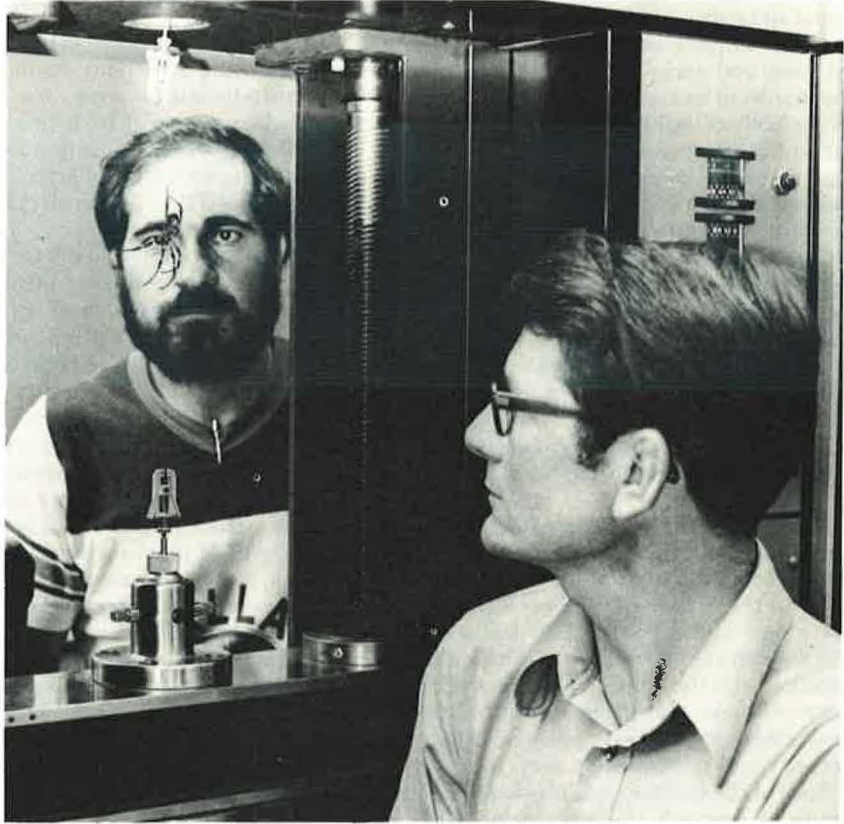
Computer Centre

There was a significant increase in computer usage during 1979 and this is attributed to the introduction of computer related topics in a wider range of undergraduate courses and the provision of computing laboratories for undergraduates in Science, Economics and Engineering. The undergraduate laboratories provide access to the low cost MONECS computers used for running student assignments during introductory programming courses, and to inter-active terminals connected to the University's larger computers for more advanced computing applications.

The majority of the University's computing was performed on the Burroughs B6700 computer that has been installed in the Computer Centre for the past six years. The B6700 system includes dual processors, 1.92 megabytes of main memory, 800 megabytes of disk, 5 magnetic tapes, card reader, 2 line printers and an extensive network of terminals. The B6700 is a general purpose computer which performs the data processing tasks required of the University's Administration and Library, and is used by staff and post graduate students for a wide range of research and development applications. Since the beginning of 1978, the B6700 has operated in a fully loaded or saturated basis 24 hours per day, 7 days a week.

Towards the end of 1978, the University installed three VAX-11/780 computers, one in Economics and two in the Computer Centre. These are relatively low cost terminal-oriented systems which were used to provide computing facilities for teaching undergraduates in Economics, Engineering and Science (particularly Computer Science and Mathematics), as well as providing overnight turn-around for large research jobs on

Mr Vince Salanitri (*left*) (faculty of Science) and Dr John Griffiths (faculty of Engineering) prepare to measure the strength of the silk spun by a Victorian golden orb weaver spider. The measurement, made on an Instron tensile testing machine, is part of the work of the department of Materials Engineering on the strength of synthetic polymers.



campus. Two additional VAX computers were installed during 1979; one to meet the work load of the computer Systems Engineering stream to be introduced in 1980 and the other to be used to provide terminal access to Administration and Library data bases from departments around campus. A sixth VAX is to be installed early in 1980 for use as a research tool for Computer Science and for Computer Centre software development and maintenance.

Towards the end of 1979, the University purchased a secondhand B6700 computer from the Burroughs Corporation at a very attractive price. The system is approximately the same age as the University's B6700 and was previously on lease to the Gas & Fuel Corporation of Victoria, who replaced it by a more modern computer. The B6700 was installed by the Centre's maintenance engineering group and will be ready for use before the start of the 1980 academic year.

The locally developed MONECS (Monash Educational Computer Systems) were used extensively. Ten MONECS computers were available during 1979, two in the Computer Centre, three in Economics, one in Computer Science and four in Mathematics.

At the beginning of 1979 a total computing budget of \$1.2 million (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 aims

at recovering an average of \$100 per hour for B6700 time but introduces different rates based on priority of access to computing resources. Charges range from \$140 per hour for immediate execution through \$80 per hour for overnight turn-around.

Increased use of the B6700 and VAX computers, together with reduced operating costs in the Computer Centre, will allow the recovery rates to be reduced in 1980.

The following table shows the allocation of computing funds to faculties and actual usage during 1979 (charging rates \$100 per hour for B6700 and \$50 per hour for VAX).

Faculty	Initial Budget \$	Final Budget \$	Actual Usage \$
Arts	19 800	24 800	21 716
Economics	80 000	110 000	104 787
Education	20 000	20 000	16 235
Engineering	222 600	267 600	232 845
Law	4 000	4 000	1 608
Medicine	29 070	35 990	27 029
Science	596 950	596 950	439 167
Administration	120 000	120 000	146 489
Library	106 177	106 177	88 247
Others	10 650	10 650	9 215
	<u>\$1 209 247</u>	<u>\$1 296 167</u>	<u>\$1 087 338</u>

Note that the above table does not include work run on the MONECS computers which were used during 1979 to run an estimated 200 000 jobs for undergraduates. In addition the MONECS computers were used by staff and postgraduates as remote job entry terminals to submit approximately 25,000 jobs to run on the B6700.

Making a comparison at the 1979 rates of \$100 per hour for the B6700 and \$50 per hour for the VAX computers, an expenditure of \$1,087,338 for computing resources during 1979 represents an increase of \$252,303, or 30.2 per cent on the 1978 usage. This level of increase, similar to the 33 per cent increase in 1978, is the result of a change towards terminal and interactive use of the

computers on campus, and the introduction of computing topics into a wider range of undergraduate courses.

Total expenditure for the year, including contract work but excluding Health Computing Services-Victoria, amounted to \$1,784,552 of which \$1,608,517 came from University recurrent funds and \$176,035 from the Centre's revenue earning activities. Revenue earning work accounted for 10 per cent of computing resources used on campus during 1979.

Centre for Continuing Education

The Centre's programme of activities in 1979 was less extensive than that of 1978, although still mainly in the general field of continuing

professional education. Two main reasons for this programme reduction can be advanced. First, there was a noticeable fall-off in the number of activities initiated by the various departments and faculties of the University. Discussions with several staff members suggest that this is a side-effect of budgetary constraints, which led to a general reduction in support staff in faculties — secretarial, technical and tutorial. Academic staff members, in general, found themselves undertaking increased loads in teaching and in university administration. Their willingness to give time to the planning and presentation of continuing education projects, all of which are undertaken as spare-time activities, has correspondingly dwindled. An increased proportion of the Centre's programme therefore consisted of activities initiated and planned by the Centre's own staff. Since the staff hours involved in such activity was much greater than those required to support the operation of a departmentally-planned activity, the total number of activities in the programme necessarily fell.

A second factor has been the involvement of the Director in the establishment of Normanby House. This project was not actually part of the Centre's responsibilities, but it was inevitable that a fraction of the Director's time be given to it. Accordingly, the amount of staff time available for planning the Centre's activities was somewhat reduced, the Director being one of only two staff members engaged in such planning. The positive side of this state of affairs, from the point of view of the Centre, is that the successful establishment of Normanby House may well lead to an expansion of the range of operations of the Centre for Continuing Education, enabling it to meet some of the many needs for educational services which it now perceives but is unable to address satisfactorily because of staffing limitations.

In October, the Standing Committee for the Centre sponsored a seminar on 'Priorities for the C.C.E.'. This aimed at identifying priority areas for the Centre's programme.

Invited participants in this seminar included several people from professional organisations, colleges and other groups outside the University with whom the Centre has had repeated contacts, as well as a number of University colleagues. The seminar was particularly supportive towards the Centre and recommended that priority be given to four areas, one of which would represent a new interest for the Centre — the development of educational services for recognisable community groups and organisations (as distinct from services for individual adults) in the surrounding community. This could open up new initiatives in university-community relationships.

In general, therefore, 1979 was a year of marking time rather than continuing expansion, but it was one in which there emerged a number of possibilities for new and stimulating developments for the Centre, in 1980 and beyond.

Higher Education Advisory and Research Unit

The Higher Education Advisory and Research Unit (HEARU) consists of two cost centres, each housed in separate locations. The Advisory and Research Centre is located in temporary accommodation on the third floor of the Law building and the Educational Technology Section is located in temporary premises adjacent to the medical school.

There were two resignations of support staff during 1979 and this together with the budgetary cuts over the last two years which forced the cessation of the secondment scheme (whereby academic staff were seconded to HEARU to work on teaching-learning projects for their department), severely reduced the productivity of HEARU.

Course development projects were conducted in co-operation with one-third of the academic departments, while approximately three-quarters of departments used the services of the Educational Technology Section.

Over 10 per cent of academic staff attended the in-service workshops held throughout the year. The colour television facility installed in 1978 was operational for teaching and research in 1979. The full details of publications and projects can be found in the *Research Report 1979*. Over the last three years information has been gathered which will provide material for decision-makers on higher education. This information ranges from descriptions of the past and present scene to building scenarios of the future. HEARU staff taught formal courses in education (ED683) as well as shorter sequences in education, law and psychological medicine. The Thai Universities Lecturers' Scheme brought twelve

academics from Chiang Mai University to Monash University for six months in 1979; two days each week for four months, the Thais undertook a formal course in HEARU on teaching and learning in higher education. Remedial English classes were run throughout the year in four faculties and individual help was given to referred students. Two issues of *Notes on Higher Education* were published in 1979, (Number 14 — Monash University and the Williams Committee Report and Number 15 on Computerized Information Retrieval and Mature Age Students). Three universities, five colleges and seven other organisations sought the advice of HEARU over the year.

STUDENT ACTIVITIES

Orientation 1979

Once again a varied programme, both informative and social was held over three days, 7-9 March. Two additional functions were held for part-time students: a 'family day barbecue' on 17 March and a 'meet the staff evening party' on 22 March. The Counselling and Careers and Appointments Student Services also arranged an orientation workshop for mature-age students on 5-6 March.

In addition to the traditional orientation handbook, a diary/directory was produced under the general supervision of the Joint Orientation Committee in conjunction with the Union Board. This was distributed to all students in the University, and to a few staff members. It has proved an outstanding success, and it is hoped that the diary/directory will become a regular annual publication, available to all members of the University.

The overall impression is that the importance of orientation continues to be recognised. Some 62 per cent of full-time first year students availed themselves of the information, advice and entertainment offered by the organisers of orientation 1979.

The Union — administration and general

In 1979 the Union operated on an expenditure budget of \$1,282,685, derived mainly from a Union fee of \$138 per full time student (and pro rata fees of \$86 and \$60 for part time students). As usual, 25 per cent of the fee income was allocated to the Union development fund.

With the completion of the Arts and Crafts Centre in July, there are no further plans for development of the central Union complex, and development is being concentrated on completion of the sports and recreation complex. Significant capital funds were approved for: the construction of a leisure-oriented swimming pool which, from the design stage, will incorporate energy-conservation features; replacement of tennis courts with synthetic-surfaced courts; three additional

squash courts; change rooms; and various minor works to improve the standard and functioning of the sports and recreation facilities.

In the central Union building, renovations were carried out in the offices of Lot's Wife, Careers and Appointments, Student Welfare, and in the commercial areas. A room in the Hargrave building was fitted up as a first-class screen printing facility, which operates under the supervision of Clubs and Societies. Following the take-over of A.U.S. Student Travel Pty Ltd, the tenancy of the Union travel office transferred from this company to Student Travel Australia Pty Ltd. A mini-Union for medical and science students at the teaching hospitals was finally established at the Alfred Hospital, in premises leased by the Union and known as 'The Back of Beyond'.

Minor works included the replacement of the Union's 22-seater bus with two 12-seater buses, to make up a fleet of three 12-seater buses, and the establishment of a women's room. The provision of a standby-generator for use during S.E.C. strikes and power failures was considered but was rejected.

In the catering area, extended self-service facilities in the main dining room reduced the length of queues at peak periods and generally met with customer approval. The Union Bakery, which commenced operations on a small scale in October now produces all the Union's bread and bread-roll requirements, plus loaves and bags of rolls for sale. Cakes, pastries, sausage rolls, pies and pasties available at catering outlets are now produced on the premises, and most items contain wholewheat flour. The result of the year's trading in student and function catering areas was an overall deficit of some \$75,000. While many university unions accept catering deficits of this order, the Monash Union Board has not relinquished the objective of a break-even result. Prompted by the financial situation, the Board carried out an extensive review of the catering operation in 1979, which included consultation with the Department

of Productivity and a survey of customer requirements. As a result of this review, additional cost control and quality control measures are to be introduced in 1980, and the break-even policy will be reassessed on the basis of the 1980 operation. The Pantry and the Wholefood Restaurant, which specialise in vegetarian and unprocessed foods, and are staffed partly by student volunteers, both returned a surplus.

The staffing establishment remained stable except for the creation of one full time and one part time position connected with the Arts and Crafts Centre. New appointments were made to the Union Finance Officer and Activities Officer positions, following resignations in these areas. This year, a number of matters relating to a University rather than a Union context were raised by the Board, such as traffic controls and pedestrian safety on University roads, the provision of sign-posts and shelters at hitchhiking points, the provision of rest rooms for students and staff in University buildings and investigation of a dental health scheme. The Board gave assistance to the Monash Association of Students to advertise in detail the positions for student representatives on University and Union boards and committees. The Board was given authority by Council to approve constitutions for the Community Research Action Centre and the Wholefood Restaurant.

A reorganisation of the framework for student theatre activities resulted in the replacement of the function of Director of Student Theatre with a Student Theatre Committee and an administrative co-ordinator, and the suspension of the traditional summer theatre tour.

The Community Research Action Centre's major projects were the development of an energy display, which has been widely exhibited on campus and in the community, and projects on women and unions and unemployment. During the 1979-80 summer vacation, C.R.A.C. is to conduct an alpine education project which will examine the

Alpine National Park issue. The Board expressed its support for C.R.A.C.'s involvement in the anti-uranium movement by declaring the Union a 'nuclear-free zone'.

The activities of other Union groups are outlined below.

Monash Association of Students

Although in recent years, students' participation in M.A.S. has been less than desired, 1979 showed a resurgence of interest by students in the Association. Government criticism of student unions and spending cutbacks on education and welfare helped make 1979 a more active year. Marred by an editorial reshuffle early in the year, *Lot's Wife* newspaper maintained its high standard.

The Activities Committee showed its usual enthusiasm by organising many and varied functions including Union nights, balls and lunchtime concerts. All were extremely popular with the student body and were well attended.

An inevitable Student General Meeting on Australian Union of Students' membership was held in third term, with Monash students voting overwhelmingly to remain in A.U.S. In the area of student welfare, the Welfare Officer continued to be active. Complementing this role, the Student Employment Officer managed to help many students find part-time and casual employment.

Monash Association of Graduate Students

In 1979, graduate students throughout Australia really began to get together to do something positive about the cut-backs in their allowances etc. M.A.G.S. played a leading role in this effort by organising the first ever National Conference of Postgraduate Students at Monash in January 1980 and by lobbying successfully for the appointment of a Postgraduate Officer at A.U.S. Again, due mainly to M.A.G.S. efforts, Council of Australian Postgraduate Associations (C.A.P.A.) considerably broadened its policies, re-

vamped its organisation and strengthened its ties with both A.U.S. and Federation of Australian University Staff Associations (F.A.U.S.A.).

All this was possible because M.A.G.S. considerably expanded its activities on campus during 1979. Regular general meetings were held. This, coupled with active representation of members' interests, increased the involvement of members in the Association.

The new research officer position was effectively used to back up local and national campaigns with the relevant facts and figures. The Association's most significant contribution to the general student body was the mobilisation of Monash graduate students against attempts to break away from A.U.S. Several well-attended social functions were organised in the University Club and were well attended.

Clubs and Societies Council

Each year representatives of over 150 student clubs and societies elect eight to ten Council Executive members to administer a budget of more than \$100,000. This money is part of the Union funds raised from student fees and is used to subsidise functions and activities of all the affiliated clubs and societies. Weekly meetings of the executive apportioned various fund allocations depending upon the projects desired to be undertaken by the various clubs. Further assistance to clubs was given through the employment of a part-time Club Liaison Officer with experience in club organisation.

The Clubs and Societies Office provided copiers, duplicators, typewriters and screen printing equipment to clubs. Social event assistance was given through the loan of urns, mugs, games, etc. and an extensive amount of video equipment was also available for use.

Union tuition and summer school

From a modest beginning, thirteen years ago, this department offered during 1979 over 60 tuition courses throughout the year and

150 in the annual Summer School. With the opening of the new Monash Arts and Crafts Centre in July 1979, the potential for courses expanded enormously.

The 1980 target is to more than double the number of courses currently available and to repeat them continuously throughout the year. The high quality of tuition is achieved by engaging practising professional artists and crafts people for each of the specialist subjects.

Sports and Recreation Association

The sports and recreation complex was again heavily used by members and the level of activity continued to grow. It certainly appears that physical activity is becoming increasingly popular as more people realise the dangers of a sedentary life and the advantages of regular exercise. There was a constant demand for help and advice on fitness and exercise programmes and, as a consequence, the fun and fitness track and weight training room were particularly popular throughout the year.

The co-recreational games programme, designed for persons not engaged in regular competitive activities, was again a feature of the Association's activities. The most popular team games were soccer, volleyball, cricket and basketball, with a total of seventy-seven teams participating throughout the year.

The sports grounds staff made a further contribution to improving the overall atmosphere of the Centre by developing a pleasant, sheltered lounging area complete with fountain, benches and a garden in the central courtyard.

The Association continued to encourage contact with the local community and with schools in the area. Facilities were made available to outside groups at times that did not conflict with student usage. Many successful inter-school competitions were held and numerous contacts established with local clubs and sporting groups.

The Vice-Chancellor,
Professor Ray Martin,
opens the new Monash
Arts and Crafts Centre on
Open Day 1979.



Successes were achieved in club competitions in badminton (men's), basketball (men's), hockey (women's) and in Intersarsity contests in sailing, squash (women's), badminton (men's and women's), athletics, skiing, netball and table tennis (men's).

The World Fencing Championships held in the Centre during August were one of the highlights of the year. The success of this event established the Monash University sports complex as a suitable venue for international events of this kind.

GIFTS AND GRANTS

The following gifts and grants were received by the University:

Aborigines Auxiliary of the Uniting Church in Australia to help defray cost of staging Milingimbi Art Exhibition and Workshop			1 000
Agnew, Associate Professor J.B. to the work of the Department of Chemical Engineering			100
Alexander Foundation, The George 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		
in support of cancer research project being conducted by Sir Edward Hughes (Surgery, Alfred Hospital)	13 561	33 561	
Alexander, Mrs R. against \$10 500 grant for building The Ruth Alexander Room (one of two artists' rooms) Robert Blackwood Hall			2 000
Alfred Hospital research grant to cover salary of Dr M. van der Weyden's Technical Assistant on the project Enzyme markers in haematological neoplasia (Medicine, Alfred Hospital)	9 325		
toward cost of colo-rectal computer study, being conducted by Sir Edward Hughes (Surgery, Alfred Hospital)	1 000	10 325	
Amalgamated Charitable Trusts: The Truby and Florence Williams Charitable Trust; C.F.W. Taylor Public Charitable Bequest; H.G. Turner Estate A/c. Helen G. Turner; Samaritan Fund; T.J. Sumner Trust A/c. Charity Fund; The Alfred Edments Trust; for the work of the Krongold Centre			200
Anatomy Museum Users Group general donation (Anatomy)			562
Angliss, Estate of the late William to orthopaedic and traumatic surgery research, to be supervised by Associate Professor J. Clark McNeur (Surgery, Alfred Hospital)			4 000
Anonymous donors as follows — redirected lecture fees (Education)		152	
for research (Chemistry)		500	
Corpus Christi Cambridge Award — tenable at Corpus Christi College, Cambridge	10 000		
to hypertension research fund, Professor C. I. Johnston (Medicine, Prince Henry's Hospital)	6 180		
towards the work being done in research and clinical assessment of recently developed anaesthetic machine attachments and services, Professor J.F. Mainland (Surgery, Alfred Hospital)	750		
to be used at the discretion of the Director of Centre for Early Human Development (Dr John Maloney)	2 500		
for research into the social and educational issues associated with the possession of physical, mental and sensory impairments (Education)	10 000	30 082	
Anti-Cancer Council of Victoria in support of cancer research projects (includes supplementation for 1978 research grants \$4 001 plus supplementary grant for National			

Wage Increase \$3 270): 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)	99 513
Apex Foundation for Research into Mental Retardation Ltd, The, for the education of selected adults at the Sunbury Training Centre, to be supervised by Ms M. Doherty (Education)	500
Arthur Andersen and Co. donation to special projects fund, Careers and Appointments Office	200
Arthur Wilson Memorial Foundation support of research project: immunological sex separation of human sperm, being conducted by Dr A. Trounson (Obstetrics and Gynaecology)	5 000
Artificial Insemination Donor Service Trust research grant, project: AID and reproductive biology, being conducted by Dr A. Trounson (Obstetrics and Gynaecology)	5 000
Australian Academy of Science, to assist Dr D. S. Cronan of the Imperial College, London, in presenting a short course on metalliferous sediments at the 25th International Geological Congress, Monash University, November '79 (Earth Sciences)	800
Australian Associated Breweries, The project: Is alcohol a neurotoxin? being conducted by Dr B. G. Cragg (Physiology)	13 814
Australian Institute of Aboriginal Studies balance of grant to Mr J. G. Breen (Linguistics)	578
Australian Institute of Nuclear Science and Engineering direct grant for 1979 allocated for Leybold Vacuum Gauge project: efficiency, power and energy limitations of a longitudinally excited copper halide laser, being conducted by Mr R. C. Tobin (Physics)	510
Australian Kidney Foundation, The grants-in-aid 1978/79 projects: role of vasopressin in hypertension, Professor C. K. Johnston and Dr P. T. Pullan	6 000
Kallikrein-kinin system in human renal disease, Dr P. G. Matthews, (Medicine, Prince Henry's Hospital)	5 000 11 000
Australian Liliun Society, The for the purchase of a Braun 4.5 litre water bath to be used in research on Liliun chromosomes, Dr D. R. Smyth (Genetics)	217
Australian Neurological Foundation grant for project: Bio-chemical alterations in central and peripheral	

nervous system following nerve injury, Dr L. Austin and Dr P. L. Jeffrey (Biochemistry)		4 000	
Australian Psychological Society, The prize in Psychology			100
Australian Road Research Board			
project: Delineating the way ahead at night, Dr T. J. Triggs (Psychology)	10 603		
project: Transport investment and residential location — choice: Analysis and appraisal of freight generation characteristics, Dr K. Ogden (Civil Engineering)		19 337	
project: Car pooling and geographic structure, conducted by Mr A. J. Richardson (Civil Engineering)	2 813		32 753
Australian Welding Research Association			
project: Microstructure and mechanical properties of welds in polyethylene pipes, Mr S. J. Barton		5 150	
project: Structure and adhesion of plasma and flame sprayed coatings, Associate Professor R. McPherson (Materials Engineering)	4 720		9 870
Bank of New South Wales			
grant to research, Centre for Early Human Development (Queen Victoria Medical Centre)			250
Baxter Charitable Trust, Percy			
project: Development of a treatment for viral diseases and cancers by cloning of human interferon genes, being conducted by Professor A. W. Linnane (Biochemistry)		5 000	
towards purchase of a fluorescent activated cell sorter for use in early cancer detection research being conducted by Professor R. C. Nairn (Pathology and Immunology)	10 000		15 000
Beans (Hong Kong) Ltd			
to employ part-time temporary research assistant on project: Investigation of the physiology of mung bean seedlings, under supervision of Professor M. J. Canny (Botany)			340
Behrend Mrs D.			
to the 1979 Creativity Programme at the Krongold Centre			200
Boehringer Ingelheim Pty Ltd			
for cardiovascular research being conducted by Professor W. A. W. Walter (Obstetrics and Gynaecology)			1 000
British Society of Rheology, The			
to further the activity in rheology (Chemical Engineering)		50	
general donation (Chemical Engineering)		400	
in appreciation of the help provided during the First National Conference on Rheology, Monash University, 1979 (Engineering)	200		650
Broken Hill Proprietary Company Limited			
to Dr R. A. Jago in support of project: Microstructural control of mechanical properties of dual phase steels (Materials Engineering)			2 100
Buckland Foundation, The William			
towards purchase of a fluorescence activated cell sorter for use in early cancer detection research, Professor R. C. Nairn (Pathology and Immunology)		15 000	

Equipment grant, project: Research relative to atheroma, being conducted by Mr K. A. Myers (Surgery, Prince Henry's Hospital)	12 000	27 000
Byer, Mrs K. for the work of the Krongold Centre		2 000
Carmichael, Dr G. G. staff donation to Department of Anatomy		30
Casey, Father M. to help defray cost of staging Milingimbi Art Exhibition and Workshop		60
Chambers, Professor L. R. donation to special issue R. F. Jackson Memorial Volume, <i>Australian Journal of French Studies</i> (French)		40
Churches Committee for Tertiary Education annual grant for secretarial assistance in the Religious Centre		1 000
City of Oakleigh Sunday Concerts' subsidy, Robert Blackwood Hall		998
Clayton Arts Council to Organ Appeal	100	
towards Sunday Concerts at Robert Blackwood Hall	100	200
Coe, Professor R. N. to R. F. Jackson Memorial Volume <i>Australian Journal of French Studies</i> (French)		100
Collier Charitable Fund to be divided between the Department of Mechanical Engineering and the Krongold Centre		5 000
College of Nursing, Australia unspent balance of grant from Education Research and Development Committee for project: Evaluation of college-based courses in nursing, conducted by Associate Professor L. D. Mackay (Education)		393
Comalco Limited renewal of research grant, relating to studies into high strength, high conductivity aluminium alloys, being conducted by Mr G. Thomson under the supervision of Dr P. L. Rossiter (Materials Engineering)	3 500	
grant for research into fatigue crack propagation in cast aluminium alloys, under the supervision of Dr J. R. Griffiths (Materials Engineering)		5 200
postgraduate scholarship: to investigate the mechanical behaviour of aluminium alloys under conditions typical of industrial forming processes, with a view to understanding and exploiting the effects of strain rate sensitivity, granted to Dr B. A. Parker (Materials Engineering)		5 350
supplementary grant to cover extended work on project: Post-yield deformation behaviour of aluminium alloy, conducted by Mr P. W. Beaver under the joint supervision of Dr B. A. Parker and Dr J. R. Griffiths (Materials Engineering)	1 575	15 625
Commercial Bank of Australia Limited first C.B.A.-Monash postdoctoral Research Fellowship Grant, awarded to project: Plant-insect interactions in the arid and semi-arid zones		

in Australia, being conducted by Dr T. P. O'Brien and Professor M. J. P. Canny (Botany) and Dr G. Ettershank (Zoology)		20 000
Commonwealth Aluminium Corporation Limited		
to enable the University to establish a research scholarship for the purpose of conducting research into Mossbauer spectroscopy of bauxites, (Physics)		5 000
Commonwealth Government		
Aboriginal Affairs, Department of		
research grant, project: Study of the Victorian Aboriginal Legal Service and for five weeks research assistance, Mr C. Bourke (Aboriginal Research Centre)	4 250	
to cover employment of two research assistants for five weeks	2 000	
additional running costs in 1978/79 (Aboriginal Research Centre)	2 500	
interim payment to cover extension of research programme, Mr K. Gilbert (Aboriginal Research Centre)	4 923	
research grant for 1979/80: Adelaide Aboriginal Community College Project, Mr C. Bourke (Aboriginal Research Centre)	15 000	28 673
Australia Council, The		
grant-in-aid for costs associated with Milingimbi Art Exhibition (Aboriginal Research Centre)	2 000	
travel assistance within Australia, Artist in Residence, Mr John Walker (Visual Arts)	600	2 600
Australian Chicken Meat Research Committee (Department of Primary Industry)		
1978/79 research grant for project: The role of thyroid hormones in tibial dyschondroplasia in broiler chickens, being conducted by Professor D. A. Lowther (Biochemistry)		10 000
Australian Research Grants Committee		
on the recommendation of the Committee, the Commonwealth Government approved grants for 1979 as listed at the conclusion of this section		971 896
Community Welfare Services, Department of		
for Aboriginal Community Workers Research project, Mr C. J. Bourke (Aboriginal Research Centre)		6 000
Curriculum Development Centre		
full payment for grant, project: Bibliography of current research on English teaching, Dr D. F. Davis (Education)	2 745	
supplementary grant to cover additional expenditure: research project on consumer education, conducted by Professor P. W. Musgrave (Education)	237	2 982
Education Research and Development Committee		
on the recommendation of the Committee, the Commonwealth Government approved grants for 1979 as listed at the conclusion of this section		30 560
Hospitals and Health Services Commission (Department of Health)		
first half of research grant to Professor L. J. Opit, project: The clinical, social and psychological needs of cancer sufferers in Australia (Social and Preventive Medicine)		8 000

Minerals and Energy, Department of			
progress payments for project: Catalytic effects of inorganic constituents on the direct hydrogenation of brown coal, Professor W. R. Jackson, Dr F. P. Larkins (Chemistry)			16 000
National Development, Department of			
part payment research grant, project: Regional determination of catchment losses in small rural catchments (AWRC research project 78/96) being conducted by Professor E. M. Laurensen (Civil Engineering)	4 200		
research grant 78/79 project: A continuous flow catalytic converter for the direct hydrogenation of brown coal, under the supervision of Associate Professor J. B. Agnew and Professor O. E. Potter (Chemical Engineering) and Professor W. R. Jackson and Dr F. P. Larkins (Chemistry)	38 600		
1978/79 research grant, project: Development of a technique for the mapping of thermal plumes	9 019		
1978/79 research grant, project: Design of thermal outfall diffusers aligned parallel to the ambient flow, Dr J. B. Hinwood (Mechanical Engineering)	9 922		
1978/79 research grant, project: Hydrogen production from coal. New catalysts for the water gas shift reaction, being conducted by Professor W. R. Jackson and Dr F. P. Larkins (Chemistry)	24 875	86 616	
National Health and Medical Research Council			
on the recommendation of the Council, the Commonwealth Government approved grants for 1979 as listed at the conclusion of this section			744 291
Primary Industry, Department of			
grant-in-aid forestry post-graduate award holder, research project: Sugar Gliders, Mr G. C. Suckling (Zoology)			500
Science and Environment, Department of			
project: Compilation of a checklist of the Liverworts of Australia and the preparation of a handbook on the Liverworts of Victoria, being conducted by Dr G. A. M. Scott (Botany)	2 300		
Queen Elizabeth II Fellowship Awards: Dr E. C. Cartwright (Biochemistry) \$24 358; Dr J. A. P. Rostas (Biochemistry) \$30 575	54 933	57 233	
Social Security, Department of			
1979/80 grant, project: Work preparation for the mentally retarded, Dr R. C. King, Mr S. C. Sykes (Education)	12 000		
Equipment subsidy (Krongold Centre)	272		
1978/79 mental retardation research project, Dr R. C. King, Mr S. C. Sykes (Education)	48 000		
salary subsidy (Krongold Centre)	4 354	64 626	
Tertiary Education Commission			
first and second payments against \$50 000 grant for project: Evaluation of college-based courses in nursing, being conducted by Associate Professor L. Mackay	27 000		
additional grant for costs associated with the seminar on: Priorities in research relating to nurse education in Australia, Professor			

L. Mackay	3 700	
supplementary grant to cover Evaluative Studies Project: Planning for 1980 expansion of the Nurse Education Program Evaluation, Associate Professor L. Mackay (Education)	2 000	32 700
Transport, Department of		
progress payments, research grant, project: Investigation of legal implications of frangible poles (electric and telephone poles) Mr J. A. Epstein (Law)	19 136	
additional research grant, project completion: Development of a safe road crossing gap recognition training procedure for primary school children, conducted by Dr R. K. McKelvey (Psychology)	14 997	
progress payment for research grant, project: Driver response time on rural roads, Dr T. J. Triggs (Psychology)	466	
Industrial Relations Seminar, Mr J. J. Craven (Law)	45	34 644
Wheat Industry Research Council (Department of Primary Industry)		
research grant for 1979/80, project: Plant armour plate. Polysaccharide phenol complexes and the resistance of cell walls to attack in the wheat root and wheat grain being conducted by Dr T. P. O'Brien (Botany)		12 726
Wool Research Trust Fund (Department of Primary Industry)		
balance 78/79 grant, first half 1979/80 grant, project: Macrocyclic metal complexes based on amino acids (possible new dyes for wool) being conducted by Dr D. St Clair Black (Chemistry)	24 500	
supplementary grants to cover National Wage Increase, for above textile research project (Chemistry)	2 164	26 664
Consolidated Electronic Industries Pty Ltd		
1979 Reuben Medding Prize in Electrical Engineering		50
Criminology Research Council		
first payment against grant of \$12 439 for research project: Victorian Sentencing Law, being conducted by Messrs R. G. Fox and A. Freiberg (Law)		6 000
C.S.R. Chemicals Pty Ltd		
1979 C.S.R. Chemicals Prize		200
Dalgety New Zealand Limited		
towards research studies on sperm and embryo immunological sex identification, being conducted by Dr A. Trounson (Obstetrics and Gynaecology)		9 885
Danks Trust		
grant for the work of the Krongold Centre		250
Davy Pacific Pty Ltd		
grant to Professor F. Lawson for minerals processing research (Chemical Engineering)		250
Dehnert, Estate of the late Mr P. E.		
towards the purchase of equipment for the Krongold Centre		2 200
Deutsher, W. A., Pty Ltd		
travel grant to assist attendance at the 20th International Machine		

Tool Design and Research Conference in Birmingham, Dr P. F. Thomson (Materials Engineering)		500	
Dutton, Professor K. R. donation to R. F. Jackson Memorial Volume, <i>Australian Journal of French Studies</i> (French)			30
Electrical Research Board			
1978 grant project: Control and optimization of large power systems, Professor K. Morsztyn	8 000		
(1979, first half-yearly payment of further \$7 000;)	3 500		
1978 grant, project: A. C. Generators with mixed AC-DC loads, Associate Professor W. J. Bonwick (Electrical Engineering)	2 000	13 500	
Elizabeth Eggleston Trust for Aboriginal Natives of Australia to support the work of the Centre for Research into Aboriginal Affairs Eltham College			4 000
second and final payment for project: Evaluation of the educational programme of Eltham College, Professor L. D. Mackay, Mr J. A. Fyfield, Dr A. Gregory, Professor R. P. Tisher (Education)			1 000
Esso Australia Limited			
scholarship awarded to Honours student Mr Dean Hoatson (Earth Sciences)	150		
General donation to be used in improving scholarly activities (Earth Sciences)	450		
Esso Student Scholarship for 1979 awarded to Mr Stephen Cox (Earth Sciences).	600		
grant to department of Chemical Engineering	4 000		
grant to Faculty of Engineering	1 000		
grant to be applied in the areas of geology and/or geophysics (Earth Sciences)	1 000		
to assist in the purchase of necessary equipment for use within the Department, excursion field trips for geology students, library books, etc. (Earth Sciences)	600	7 800	
Fawkner Park Community Health Centre			
general donation in recognition of services rendered during Prahran Lone Persons' study, Professor L. J. Opit (Social and Preventive Medicine)			2 178
Felton Bequests' Committee, The			
toward research studies of the natural history of colo-rectal disease, being conducted by Mr P. S. Hunt (Surgery, Prince Henry's Hospital)	5 000		
towards purchase of fluorescence activated cell sorter machine for the early detection of cancer, Professor R. C. Nairn (Pathology and Immunology)	5 000		
for project on maternal bonding being conducted by Dr E. S. Wertheim (Paediatrics)	5 000	15 000	
Fensham, Professor P. donation to Higher Education Advisory and Research Unit			400
Flewin, Mr and Mrs L. to the Special Education Fund, Krongold Centre			100

Fluor Australia Pty Ltd grant to Careers and Appointments Office	200
Ford Foundation, The payments, project: Human embryogenesis research, Professor E. C. Wood (Obstetrics and Gynaecology)	16 522
Forelanders Trust for student travel to Japan (Japanese)	1 000
Forrest Trust, C. L. grant for the work of the Krongold Centre	200
Frankston Technical College second and final payments, project: Education access and transition in the Frankston region, being conducted by Professor L. D. Mackay (Education)	10 000
French Embassy donation to the <i>Australian Journal of French Studies</i> by the French Gov- ernment for 1979 (French)	531
General Motors-Holden's Pty Ltd general donation (Careers and Appointments)	200
Gibson, Dr M. to the Special Education Fund, Krongold Centre	100
Glaxo Australia Pty Ltd grant to enable Mr F. T. McDermott to attend the British Council course on inflammatory bowel diseases (Surgery, Alfred Hospital)	1 000
Grange, The Estate of the late Paul bequest to fund the Paul Grange visiting Fellowship in cancer research (Faculty of Medicine)	13 400
Gurry, Mr W. P. towards the purchase of a four-oared racing boat for the Monash University Rowing Club	100
Hallenstein Charitable Fund, Rose travel expenses, U.K., to study Mr Patrick Steptoe's test tube baby technique, Dr A. Trounsen (Obstetrics and Gynaecology)	2 000
Hambly, Dr P. S. donation to R. F. Jackson Memorial Issue <i>Australian Journal of French Studies</i> (French)	40
Hecht Trust, H and L. to underwrite the cost of the H. and L. Hecht Motor Skills Programme being conducted by the Krongold Centre	12 000
Herald-Sun T.V. Pty Ltd (Channel 7) and Austarama Television Pty Ltd (Channel 0) further joint grant towards the cost of project: Research on children and television being conducted by Dr Mary Nixon (Education)	3 500
Hoechst Australia Limited, on behalf of Fresenius towards travel expenses to attend the First European Conference of Interal and Parenteral Nutrition in Stockholm, Mr B. James (Paed- iatrics)	470
Hore, Dr T., and Paget, Mr N. royalties from their book <i>Nonverbal Communication: a select annotated</i>	

<i>bibliography</i> (ACER, Melbourne 1975), staff donation to (Higher Education Advisory and Research Unit)			126
Hungerfords			
prize for Accounting			50
I.C.I. Australia Operations Pty Ltd			
for research project on the I.C.I. pseudomonas being conducted by Professor Bruce Holloway (Genetics)	19 972		
prize for Vacation Work Report, awarded to Mr D. P. Blamires (Chemical Engineering)	40	20 012	
I.C.I. Limited (U.K.)			
towards overseas expenses, visiting I.C.I. Agricultural Division, Billingham U.K.; research project on the I.C.I. pseudomonas, being conducted by Professor Bruce Holloway (Genetics)			2 000
Ingram Trust, The M. A.,			
grant for the study of food of the Fairy Penguin at Phillip Island, Professor J. M. Cullen (Zoology)			4 775
Institution of Chemical Engineers			
donation from proceeds of the Third National Chemical Engineering Conference, to department of Chemical Engineering			300
Kellogg Foundation, W. K.			
contribution to expanding and strengthening the hospital reference and information service programme for the year January-December 1979 (Main Library)			15 514
Kelp Harvester's Association			
1980 research grant (first of three annual payments) project: The growth, reproduction and natural resources of <i>Durvillia Potatorum</i> , Dr G. A. Scott (Botany)			2 000
King, Mr and Mrs W. D. H.			
to the 1979 Creativity Programme (Krongold Centre)			500
Koppers Australia Pty Ltd			
to cover second year, project: Roasting and leeching studies of chromite bearing material, Associate Professor Lawson and Mr S. C. Thompson (Chemical Engineering)			6 350
Kraft Foods Limited			
unrestricted assistance towards the funds of the research of Centre for Early Human Development, Queen Victoria Medical Centre			1 000
Latrobe University			
donation to R. F. Jackson Memorial Volume, <i>Australian Journal of French Studies</i> (French)	200		
general donations towards cost of publication of the <i>Australian Journal of French Studies</i> in 1980	200	400	
Life Insurance Medical Research Fund of Australia and New Zealand, The			
first instalment against two-year award for research on Tissue and adrenergic receptors in hypertension, Professor C. I. Johnston and Dr E. A. Woodcock	12 500		
first instalment against two-year award for research on the Role of kallikrein-kinin in sodium and water homeostasis and blood pres-			

sure control: an approach to identifying renal kinin receptors, Dr P. G. Matthews (Medicine, Prince Henry's Hospital)	12 260	
project: A study of platelet function and coagulation abnormalities in patients with thrombotic disorders, Professor B. G. Firkin (Monash Medical School, Alfred Hospital)	15 274	
supplementary grant for this project;	1 436	
supplementary allowance to cover National Wage increases and annual leave loading, Miss M. Dowling, (Centre for Early Human Development)	429	41 899
Lincoln Institute of Health Sciences		
towards cost of bringing Professor E. Newson to Australia for International Year of the Child Conference (Education)		500
Luke Limited		
grant for the work of the Krongold Centre		200
Maclean, Mrs M.		
donation to R. F. Jackson Memorial Volume, <i>Australian Journal of French Studies</i> (French)		25
Marshall, Professor V. C.		
for the work of department of Surgery, Prince Henry's Hospital		1 000
Mason, Mrs P., and Mudge, Mrs V.		
donation to the work of the Krongold Centre		25
Menzies, the Estate of the late Sir Robert		
bequest to Main Library		2 000
Merck Sharp and Dohme (Australia) Pty Limited		
towards cost of visit of Professor W. J. Harrington, Professor of Medicine at the University of Miami, Florida, 27 March — 9 April 1979 to Monash Medical School (Medicine)		3 000
M.I.M. Holdings Ltd		
donation to Careers and Appointments Office		100
Mobil Oil Australia Limited		
general donation to Careers and Appointments Office		100
Monash Medical Mothers' Auxiliary		
donation to the Library	1 000	
for equipping Students' Lecture Theatre (Prince Henry's Hospital)	1 800	2 800
Monash University Parents Group		
Main Library, for purchase of books	1 000	
Robert Blackwood Hall, four portable display boards	500	
Union, Coin return lockers	1 000	
Sun Dial Project	1 000	
Department of Zoology, half the cost of observation pavilion, Jock Marshall Zoology Reserve	2 500	6 000
Moorabbin Hospital		
donation to Community Practice Teaching Unit (Social and Preventive Medicine)		1 000
Moore, Mrs Vera		
donation: the Krongold Centre	200	
donation: The Monash University Library Fund	200	
donation: The Douglas Menzies Room	200	600

McIlroy, Miss J. A. for the Bart McIlroy Medical Project being conducted by Associate Professor Kenneth McLean (Medicine, Prince Henry's Hospital)		30 000	
McGauran Trust, J. and R. to fluorescence activated cell sorter project, Professor R. C. Nairn (Pathology and Immunology)		5 000	
Nairn Trust Fund, Professor R. C. donation to department of Pathology and Immunology		36 500	
National Consolidated Limited 1979 Vacation Report Prize, 4th Year (Materials Engineering)		40	
National Geographic Society balance of grant for project: Comparative socioecology of five Aus- tralian Bowerbird species, Dr A. Lill (Zoology)		3 434	
National Heart Foundation of Australia, The half-yearly instalment, Fellowships tenable at Monash: Dr T. O. Neild, Dr D. Loisell (Physiology)	21 554		
half-yearly instalment, grants-in-aid tenable at Monash: Dr D. G. Hirst and Professor M. Holman, Dr I. R. Wendt, Dr J. B. Chapman, Dr C. L. Gibbs and Dr D. S. Loiselle, Dr G. D. Hirst and Dr T. O. Neild (Physiology)	12 106		
Professor A. L. A. Boura (Pharmacology)	1 000		
Professor D. A. Lowther, Dr H. C. Robinson, Dr C. J. Handley and Dr B. W. Oakes (Biochemistry)	4 250		
grant to cover unavoidable increased costs for 1978 projects: (Phys- iology) \$1 428; (Medicine, Prince Henry's Hospital) \$1 327; (Bio- chemistry) \$444	3 199		
second half-yearly instalments for projects undertaken by (Physiology) \$12 106; (Pharmacology) \$1 000; (Biochemistry) \$4 250	17 356		
second half-yearly instalment 1979 Fellowships, Dr T. O. Neild, Dr D. Loiselle (Physiology)	21 564	81 029	
National Institutes of Health, U.S.A. balance of research grant, Dr J. E. Maloney (Centre for Early Human Development, Queen Victoria Medical Centre)	8 175		
covering half year's payments, Dr J. E. Maloney's 1979 grant for the project: Cot death study of development of respiratory systems (Centre for Early Human Development, Queen Victoria Medical Centre)	17 329	25 504	
Neale, Professor M. fee declined by Mr Tim Scott and his musicians, to be donated to the Creativity Programme for the purchase of a wide angle lens for the Centre's camera (Krongold Centre)		100	
Nylex Corporation Ltd 1979 proficiency prize, 3rd Year	200		
1980 vacation report prize (Materials Engineering)	50	250	
Parke, Davis and Company first of two payments towards enterological research being conducted by Dr J. Hansky (Medicine, Prince Henry's Hospital)		10 000	

Patterson Estate, D. W. H. to assist the purchase of equipment for the Krongold Centre	500	
Peat, Marwick, Mitchell and Co. general donation to Careers and Appointments Office	300	
Petroleum Refineries (Aust.) Pty Ltd general donations to Careers and Appointments Office	200	
Pfizer Pty Ltd further grants to fund research studies being directed and supervised by Mr Phillip Hunt (Surgery, Prince Henry's Hospital)	6 000	
Pharmacia AB, Sweden awarded to Professor Torvard Laurent, Visiting Professor, for studies of the concentration, metabolism and kinetics of sodium hyaluronate after injection of healon in the anterior chamber and the vitreous body of the eye (Biochemistry)	9 393	
Plaskem Pty Ltd contribution to organo-metallic research being conducted by Dr G. Deacon (Chemistry)	69	
Porter, Dr Una B., C.B.E. further donations to the James and Una Porter Fund for the study of human development and behaviour, being conducted by Dr E. S. Wertheim (Paediatrics, Queen Victoria Medical Centre)	20 000	
Potter Foundation, The Ian travel grant: to attend the Biennial American Peptide Symposium in the United States, Dr I. D. Rae (Chemistry)	300	
travel grant: 20th International Machine Tool Design and Research Conference, U.K., Dr P. F. Thomson (Materials Engineering)	500	
travel grant: Conference of the International Society of Family Law in Sweden, Mr J. N. Turner (Law)	1 000	
\$500 each towards overseas travel expenses: Dr S. Marzuki (Bio- chemistry); Dr G. A. M. Scott (Botany); Professor I. J. Polmear (Materials Engineering); and Dr D. V. Boger (Chemical Engineer- ing)	2 000	
to assist with overseas study tour expenses, Dr Gordon Troup (Physics)	400	
travel grant to attend a joint U.S./Japan Microbiology Congress in Honolulu, Associate Professor E. G. Westaway (Microbiology);	500	
travel grants to attend conferences in the U.K. Mr K. Thomson, Mr S. Barton (Materials Engineering)	600	
travel grants for study in the United States, Dr B. W. Oakes (Anatomy)	500	
for research work in the U.K., Dr E. M. Gray (Physics)	695	
towards purchase of fluorescence activated cell sorter for use in early cancer detection research being conducted by Professor R. C. Nairn (Pathology and Immunology)	20 000	
for the work of Professor Marie Neale with the 3 R's at St Nicholas Hospital (Krongold Centre)	2 000	
two \$500 scholarships for students to study at the Monash Japanese Centre in Tokyo (Japanese)	1 000	29 495

Production Equipment Ltd			
Production equipment prize for the best vacation work report, awarded to Mr M. F. Langmaid (Mechanical Engineering)			50
Radio Research Board			
Grant for project: 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)	1 750		
grant for project: A ray tracing program for evaluation of the variations of ionospheric radio rays, Dr J. A. Bennett (Electrical Engineering)	1 600		
grant for project: Low-distortion amplifiers, Associate Professor E. M. Cherry (Electrical Engineering)	1 250		
grant for project: Electrical conductivity in thin polymer films studied via thermally stimulated conductivity thermoluminescence and dielectric measurements, Dr R. Fleming (Physics)	3 250		
grant for project: Psychophysical studies of feature detectors using synthetic speech, Dr W. R. Webster (Psychology)	1 000		
grant for project: The development of VHF and UHF receiving antennas, Dr G. Cambrell (Electrical Engineering)	950	9 800	
Ramaciotti Foundations (Clive and Vera)			
Wellcome Ramaciotti Research Travel Grant awarded to Dr R. W. Ryall of the University of Cambridge Medical School to enable him to visit Professor M. Holman's Laboratory (Physiology) and other centres	1 500		
1979 project: Electrostimulation and endogenous opiates being undertaken by Doctors T. W. Lim, D. Scott and J. Funder (Surgery, Prince Henry's Hospital)	10 000		
towards purchase of fluorescence activated cell sorter machine for the early detection of cancer, Professor R. C. Nairn (Pathology and Immunology)	10 000	21 500	
Reckitt and Colman — Pharmaceutical Division			
towards travel expenses to aid attendance of the International Conference on Prostaglandins and Thromboxanes, Salle, East Germany, Mr Alan Sandford (Pharmacology)			250
Reckitt and Colman (England)			
toward accommodation expenses for Dr J. Olley during her sabbatical visit to Department of Pharmacology			1 864
Reserve Bank of Australia			
grant from Rural Credits Development Fund for research project: Automatic sprinkler irrigation, Dr R. de Laine and Mr W. Geary (Mechanical Engineering)			26 300
Road Safety and Traffic Authority			
final payment project: Assessment of Singleton warning device, Dr T. J. Triggs (Psychology)			1 256
Robinson, Professor J. O.			
donation to R. F. Jackson Memorial Volume, the <i>Australian Journal of French Studies</i> (French)			100

Roche Products Pty Limited		
towards travel expenses to the American Society of Medical Oncology meeting, Dr M. A. Schwarz (Medicine, Alfred Hospital)		250
Rocla Research Centre		
to cover the costs of a graduate scholarship to research cathodic protection of prestressing steel in concrete, under the supervision of Professor B. W. Cherry (Materials Engineering)		5 500
Rotary Club of Ringwood		
donation to help defray cost of staging Milingimbi Art Exhibition and Workshop (Aboriginal Research Centre)		300
Royal Australian College of General Practitioners, The		
to support research Fellow working on Medical Manpower Survey under direction of Professor N. E. Carson (Community Practice)		7 988
Royal Automobile Club of Victoria (R.A.C.V.) Ltd		
towards cost of Master of Engineering Science — Transport Engineering Course (Engineering)		1 000
Sandford Trade Services		
to research being conducted by Professor A. L. A. Boura (Pharmacology)		1 000
Savage River Mines		
to research project: Wall stability in open pit mines, being conducted by Mr P. M. Dight (Civil Engineering)		7 500
Servier Laboratories (Aust) Pty Ltd		
towards research into hypertension being conducted by Professor C. I. Johnston (Medicine, Prince Henry's Hospital)		3 000
Shell Group of Companies in Australia		
undergraduate scholarship awarded to Mr G. Chappell (Mathematics)		3 500
Smith, Dr Graeme C.		
staff donation to the Department of Anatomy		1 000
Smith, Kline and French Laboratories (Australia) Limited		
towards dermatological research work, Dr R. Marks, (Medicine, Alfred Hospital)		1 000
State Electricity Commission		
part payment, project: Latrobe Valley water resources biological studies, being conducted by Dr L. A. Frakes (Earth Sciences)		2 500
Stuart Simson Educational Trust		
half share of the income from the Stuart Simson Educational Trust, to be allocated to the Stuart Simson Scholarship		1 400
Sunshine Foundation		
towards cost of biological freezer (Medicine, Alfred Hospital)	2 000	
towards the cost of ultra sound equipment, Professor E. C. Wood (Obstetrics and Gynaecology)	500	2 500
T.A.F.E., Access Committee, per Collingwood Technical College		
research grant, project, Education access and transition in the Frankston region, conducted by Professor L. D. Mackay (Education)		500
Taft, Professor R.		
for the work of the Krongold Centre		10

Tasmanian Education Department travel expenses to Flinders Island, Ms E. Fesl (Aboriginal Research Centre)	61
Tate, Mr I donation to Department of Medicine, Alfred Hospital	200
Ten-Year-On Reunion general donation to the Library	260
The Three R's grant for 'The 3 R's — Intervention-Integration Study' being con- ducted by Professor Marie D. Neale (Education)	8 330
Turner, Estate of the late Henry Gyles grant for the work of the Krongold Centre	200
Turner Family Trust further support for research into autism conducted by Dr L. Bartak (Education)	5 000
United States Department of the Interior grant for project: Recrystallized grainsize in ductile fault (Mylonite) zones, conducted by Dr M. A. Etheridge (Earth Sciences)	17 700
University of Melbourne grant to the <i>Australian Journal of French Studies</i> ; being annual contri- bution of \$400 and a further contribution of \$500 to the R. F. Jack- son Memorial Volume (French)	900
University of New England donation to R. F. Jackson Memorial Volume, <i>Australian Journal of French Studies</i> (French)	1 040
University of Newcastle grant to R. F. Jackson Memorial Volume of the <i>Australian Journal of French Studies</i> (French)	200
University of Sydney, The donation to R. F. Jackson Memorial Volume, the <i>Australian Journal of French Studies</i> (\$500 as a loan, repayable as soon as sales of the Journal permit)	1 000
Vaccari Foundation, The Gualtiero towards Dr J. Gregory's expenses to attend 'Ventunesimo Corso In- ternazionale di Storia dell Architettura', Italy (Visual Arts)	200
Victoria Law Foundation initial payment against \$5 000 grant for project: Reforming the law related to unincorporated associations, conducted by Professor R. Baxt (Law)	1 500
Victorian Artificial Breeders Co-operative Society Limited towards the cost of publishing book on 'Current Status of human AID in Australia' project being investigated by Professor C. Wood (Ob- stetrics and Gynaecology)	200
Victorian Government Arts, Ministry for the, Cultural Development Grant for 1979 to the Alexander Theatre	20 000
Conservation, Ministry for, Grant-in aid 1978/79 to assist research programme on pseudo-myine	

rodents conducted by Mr A. Cockburn, supervised by Associate Professor A. K. Lee (Zoology)	4 000	
Second, third and final instalments, research project: Management for arboreal species in Wombat State Forest, conducted by Dr E. H. M. Ealey (Board of Studies in Environmental Science)	11 000	
Research grant for 1979/80 project: Hydrological effects of land use changes, Associate Professor T. M. McMahon (Civil Engineering)	13 000	
Final payment research grant 1979/80 project: Structural changes of the Ninety Mile Beach, Dr L. Frakes (Earth Sciences)	1 000	
The Wildlife Conservation Graduate Research Scholarship in Zoology, instalments for 1978/79 project: Helmeted Honeyeater	7 748	
Additional grant to cover extension to 31 December 1979 thesis allowance, Mr B. J. Wykes (Zoology)	3 350	40 098
Crown Lands and Survey, Department of balance of grant for 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 final amount, grant from Victoria In-Service Education Committee for Evaluation Project questionnaire conducted by Mr L. C. Ingvarson (Education)		1 055
Victorian Ministry of Immigration and Ethnic Affairs Ministerial grant for Migrant Studies Exhibition (Centre for Migrant Studies)		276
Walters, Professor W. A. W. for cardiovascular research in Department of Obstetrics and Gynaecology		1 025
Water Research Foundation of Australia Limited balance of research grant project: Chemical evolution of groundwater in basalt aquifers, conducted by Ms P. M. M. Komarower, half of research grant renewal Ms Komarower (Earth Sciences)	2 150 1 200	
supplementary grant for project: Exploration for desiccation tolerant 'Resurrection' grasses in South America, conducted by Dr D. F. Gaff (Botany)	6 941	10 291
Were and Son, J. B. grant for the work of the Krongold Centre		500
Western Mining Corporation Limited, Exploration Division, annual grant: the bulk of the money will be applied toward replacement of an X-ray crystal for the X-ray fluorescence unit; two prizes of \$50 each to be awarded to the most deserving 1979 Third Year students in hard rock and soft rock geology (Earth Sciences)	400 300	700
to assist student travel to Japan (Japanese)		
Westralian Forest Industries Limited to support research into autism conducted by Dr L. Bartak (Education)		15 000
White, The Joe White Bequest to the Library		1 000

Whyte, Professor J. P. to the Graduate School of Librarianship		225
Wilson Charitable Fund, The Edward to assist the work of the Krongold Centre		500
Windermere Hospital Foundation Ltd to research in Centre for Early Human Development, Queen Victoria Medical Centre		5 000
Women of the University Fund gift for the work of the Krongold Centre		25
World Health Organization 1979 research grant payments, project: Development of guidelines for leptospirosis control, Professor S. Faine (Microbiology)	5 401	
Research grant for the project: Studies on the effects of inhibin pre- parations on fertility in rabbits, Professor D. M. de Kretser (Anatomy)	19 560	24 961
Wyeth Pharmaceuticals Pty Ltd for cardiovascular research being conducted by Professor W. A. W. Walters (Obstetrics and Gynaecology)		200
Yooralla Society of Victoria for research into muscular dystrophy (Biochemistry)		1 500
		<u>3 258 293</u>

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 A. R. Hiller, Professor R. Baker	An examination of the services provided by the Victorian Social Welfare Department	14 250
Professor M. G. Swift, Mr G. J. Missen	Malay settlements in Kuantan	6 323
Geography		
Dr A. P. Kershaw	The vegetation history of North-East Queensland	5 124
Dr C. A. Maher, Dr K. O'Connor	Spatial organisation within Australian metropolitan areas	5 880
Dr J. M. Powell	Conservation and environmental management in Australia 1914-1945	650
Associate Professor J. S. Whitelaw, Mr J. McKay	Internal migration in Australia 1971-1976	8 393

Investigator	Project Title	Grant \$
German		
Dr E. Keller	The literary criticism of the young Georg Lukacs (1902-1915)	880
History		
Dr I. W. Mabbett	Comparative history of Buddhism—Pilot Study	1 320
Associate Professor E. D. Potts	Australian-American contacts during World War II	200
Dr A. G. Serle	Biography of General Sir John Monash	7 914
Indonesian and Malay		
Professor C. Skinner	The Siamese-Malay expedition in 1809-1810	4 224
Linguistics		
Associate Professor J. T. Platt	The use of English in Singapore and Malaysia	8 010
Dr I. Smith, Mr S. Johnson	Linguistic convergence in Kugu Ngantayara	1 807
Music		
Dr M. J. Kartomi	The traditional music of Sumatra	6 458
Visual Arts		
Ms H. L. Topliss	Catalogue raisonné of Tom Roberts	5 554
ECONOMICS AND POLITICS		
Economics		
Dr B. A. Goss	Price determination in international commodity markets with forward trading	11 420
Dr D. E. A. Giles	The employment effects of Australia's trade policies	5 550
Dr P. G. Warr		
Politics		
Dr A. B. Davidson	The theory and practice of Italian communism	3 100
ENGINEERING		
Chemical Engineering		
Associate Professor J. B. Agnew	Dynamic studies of heterogeneous reaction systems	7 302
Dr D. V. Boger, Dr C. Tiu	Accelerating and deaccelerating flows of viscoelastic fluids	14 909
Associate Professor F. Lawson, Dr K. N. Han	Leaching mechanism of metal oxides	7 500
Professor O. E. Potter	Similarity in fluidisation	15 286
Civil Engineering		
Associate Professor I. B. Donald, Dr I. W. Johnston	An investigation into the engineering properties of Melbourne Mudstone, with special reference to failure criteria for drained and undrained conditions	500

Investigator	Project Title	Grant \$
Dr G. I. N. Rozvany	Optimism of structural layouts by analytical methods	12 539
Electrical Engineering Dr S. J. Redman	The application of electrical circuit models of neurones to the analysis of synaptic potentials	6 700
Materials Engineering Dr P. F. Thomson	Application of the finite element method to analysis of steady-state deformation — strip rolling	3 500
Mechanical Engineering Mr C. W. Ambrose	Comparison of models of regenerative dehumidifiers in solar air conditioning applications	2 000
Dr J. B. Hinwood	Cellular structure in a turbulent shear flow	9 840
Professor W. H. Melbourne	Aerodynamic loading and response of bluff bodies in a turbulent flow	12 400
MEDICINE		
Biochemistry		
Dr J. McD. Armstrong, Dr G. Y. Ma	Regulation of phosphoprotein phosphatases of mammalian tissue	2 200
Dr L. Austin, Dr C. J. Langford	The role of the cell body in the renewal of axonal and synaptic components	8 500
Dr P. L. Jeffrey, Dr L. Austin	The supply, turnover and role of synaptic components	9 000
Professor A. W. Linnane, Associate Professor H. B. Lukins	Biogenesis of mitochondria	27 707
Professor D. A. Lowther, Dr H. C. Robinson, Dr J. D. Sandy	Structural studies of connective tissues including factors involved in the maintenance of cartilage	11 400
Professor D. A. Lowther, Dr W. H. Murphy	The biochemistry of cartilage glycoproteins	2 750
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 in vitro	14 426
Dr S. Marzuki, Professor A. W. Linnane	The effects of altered biochemical functions on the structure and functions of mitochondrial membranes	12 750
Dr P. Nagley, Professor A. W. Linnane	Informational macromolecules in nucleocytoplasmic interactions	18 366
Associate Professor B. N. Preston, Professor D. A. Lowther	Physio-chemical studies on model connective tissue systems	6 000

Investigator	Project Title	Grant \$
Microbiology (Alfred Hospital)		
Dr R. C. Bayly	Evolutionary relatedness of enzymes of Meta Fission degradative pathways	10 395
Dr R. A. Skurray	Molecular and genetic analysis of the conjugative plasmid F	9 832
Pathology and Immunology (Alfred Hospital)		
Dr H. A. Ward, Associate Professor H. K. Muller	Mechanisms of development and differentiation of B lymphocytes	4 500
Pharmacology		
Professor A. L. A. Boura	Learning retardation produced by the action of antibiotics and amino acid neurotransmitters on the developing brain	17 556
Physiology		
Dr L. M. Aitken	Connections of the auditory midbrain	1 800
Dr B. G. Cragg	Measurement of neuronal metabolism and signalling by autoradiography	540
Dr C. L. Gibbs	Smooth muscle energetics	7 000
Dr G. D. S. Hirst	Quantitative aspects of neuromuscular transmission in arterioles	24 800
Professor M. E. Holman	Innervation of smooth muscle	21 500
Professor M. E. Holman	Quantitative aspects of synaptic transmission	1 000
Dr A. R. Luff	Neural control of the dynamic properties of mam- malian skeletal muscle	1 500
Dr I. R. McDonald	Adrenal function in the Australian monotremes and marsupials	12 300
Dr M. Weiss	Biogenesis of steroids by the adrenal and gonadal tissue of the Australian monotremes and marsupials	8 950
Dr R. A. Westerman	Mammalian nerve-muscle interactions	19 500
SCIENCE		
Botany		
Dr B. M. Allender	The effects of tannias and turbidity upon the growth of estuarine macro-algae	5 740
Dr M. N. Clayton	Studies on the reproductive biology of some brown algae together with related taxonomic investigations	8 100
Dr D. F. Gaff	Desiccation tolerant plants particularly grasses	8 775
Dr N. D. Hallam	The fine structure of plants adapted to desiccation	9 000
Dr A. C. Lawrie	Studies on native Australian legumes	6 448
Dr T. P. O'Brien	Plant armour plate, polysaccharide-phenol com- plexes and the resistance of cell walls to fungal attack	7 900
Dr G. A. M. Scott	A survey and taxonomic revision of the Liverworts of Victoria	2 568

Investigator	Project Title	Grant \$
Chemistry		
Dr D. St C. Black	Methods of synthesis based on Nitrene Cyclo-addition reaction	6 503
Dr D. St C. Black, Dr G. B. Deacon	New organothallium chelate systems	900
Dr R. F. C. Brown	High-temperature pyrolysis of organic compounds	800
Professor R. D. Brown, Dr P. D. Godfrey	Molecules in space – phase 2	31 067
Professor R. D. Brown, Dr P. D. Godfrey	Rotational spectro of ions	35 357
Dr F. R. Burden	Simulation studies of atmospheric reactions	1 200
Dr D. J. Collins, Dr F. W. Eastwood, Dr T. P. O'Brien	The fate of solasodine in ripening fruit of solanum laciniatum	900
Dr G. B. Deacon	Elimination reactions in organometallic synthesis	1 500
Dr G. B. Deacon	Lanthanide and actinide organometallics	14 666
Associate Professor R. S. Dickson	Organometallic intermediates in the transition metal assisted reactions of substituted alkynes	2 500
Dr B. M. Gatehouse	Crystal chemistry of the solid state	15 787
Professor W. R. Jackson	Reactions of organic compounds over supported metal catalysts	1 000
Dr F. P. Larkins	Auger electron spectra of atoms and molecules	13 945
Dr I. R. McKinnon, Dr I. R. Wilson	Chemistry of the lower stratosphere	1 500
Dr K. S. Murray	Single crystal magnetic studies of inorganic and bio-inorganic compounds	1 500
Dr K. S. Murray	Biological iron compounds	2 440
Dr M. F. O'Dwyer, Dr J. E. Kent	Perturbations in the lowest excited single state of sulphur dioxide	3 000
Dr A. D. E. Pullin	Inert gas matrix isolation studies	3 850
Dr T. D. Smith	Physico-chemical studies on cobalt (II) substituted heme proteins	1 000
Professor B. O. West	Alkyl group exchange between transition metal compounds	12 988
Professor B. O. West, Dr K. S. Murray	Synthesis, chemistry and electrochemistry of organometallic and metallo derivatives of some transition elements	1 800
Dr J. Youatt	Ultrastructure and chemical changes in the developing sporangia of allomyces	7 800
Computer Science		
Dr K. L. Keedy	Monads: software methods for complex systems	12 969
Associate Professor A. Y. Montgomery	File storage system design and evaluation	12 969

Investigator	Project Title	Grant \$
Earth Sciences		
Dr L. A. Frakes	Sedimentation in corner inlet, Victoria	4 020
Professor B. E. Hobbs, Dr M. A. Etheridge	An experimental investigation of the influence of phase transformation on the mechanical properties of rocks	11 523
Dr I. A. Nicholls	Geochemistry and petrology of Silurian-Devonian volcanic rocks in the South-Eastern Lachlan mobile belt	4 500
Dr I. A. Nicholls, Mr V. J. Wall	Crystallisation and origin of the aluminous granitic magmas	4 190
Mr V. J. Wall	Experimental and thermodynamic studies of subsolidus relations in the system CA-MG-FE-SI-C-O-H	8 330
Mr V. J. Wall	Experimental investigations on the hydro-thermal mobilisation, transport and deposition of tin	18 353
Genetics		
Professor B. W. Holloway, Dr A. F. Morgan, Dr V. Krishnapillai	Genetic organisation of pseudomonas	37 192
Dr V. Krishnapillai	Genetics of transfer of pseudomonas aeruginosa R plasmids	2 750
Dr S. W. McKechnie, Dr L. H. Schmitt	An elucidation of biochemical and genetic factors which maintain enzyme polymorphisms in drosophila melanogaster	10 500
Dr D. R. Smyth	Patterns of DNA organisation in mitotic and meiotic chromosomes of lilium	6 623
Mathematics		
Professor J. N. Crossley Dr J. J. Monaghan	Recursive content of Algebra and analysis A numerical technique for fluid systems in astrophysics and meteorology	4 000 14 984
Professor R. Van der Borgh	Computational methods in optimum systems control	11 800
Physics		
Dr J. D. Cashion, Dr P. E. Clark	Studies of solids at low temperature and high magnetic fields	6 000
Dr J. D. Cashion, Dr P. E. Clark	Mossbauer scattering from solids	2 500
Dr P. E. Clark	Physical properties of composite materials	235
Dr T. R. Finlayson, Dr T. F. Smith	The study of superconducting transition metal alloys and compounds	7 989
Dr T. J. Hicks	Polarisation analysis of diffuse neutron scattering	16 328
Dr A. C. McLaren, Professor B. E. Hobbs	Applications of the ion beam spectrochemical analyser in mineralogy, petrology and deformation studies	13 791

Investigator	Project Title	Grant \$
Dr A. C. McLaren	Direct observation and identification of crystal defects and their role in the mechanisms of crystallization and deformation of minerals and rocks	5 236
Associate Professor J. H. Smith	The relationship between atomic and magnetic short range order in mictomagnetic and super-paramagnetic alloys	2 500
Professor T. F. Smith	Measurements of the thermal properties associated with solid state transitions	18 738
Mr R. C. Tobin	Metal vapour lasers	1 525
Dr J. R. Pilbrow	Electron spin resonance in crystals and complexes	3 415
Psychology		
Dr L. M. Aitkin, Dr W. R. Webster	Organisation of the central auditory pathway	9 800
Dr J. L. Bradshaw, Mr N. C. Nettleton	Human information processing: Determinants and correlates of performance	12 538
Dr C. S. Chen	Induction of audiogenic seizure susceptibility in normally seizure-resistant mice	10 220
Dr S. A. Crossley	Behaviour genetic studies of naturally occurring populations of drosophila melanogaster	4 600
Professor R. H. Day	The components of geometrical visual illusions	9 910
Professor R. H. Day, Dr B. E. McKenzie	The development of perceptual constancies	11 140
Dr K. I. Forster	Visual processing of sentences	10 289
Dr D. R. F. Irvine	Studies of acoustic input to single cells in non-specific, polysensory cortical and sub-cortical areas	700
Zoology		
Dr J. Baldwin	Role of octopine dehydrogenase in energy metabolism of molluscs	2 300
Associate Professor A. K. Lee, Dr I. R. McDonald	Role of endocrine factors in mammalian life histories	1 100
Dr B. Roberts	Studies of puffing proteins in the footpad nuclei of the fleshfly sarcophaga SP	2 000
		<u>971 896</u>

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.

Investigator	Project Title	Grant \$
Professor P. J. Fensham	Joint study University of New South Wales, Australian National University and Monash University	700
Mr B. J. Walsh	STEP 76 — Secondary Tertiary Education Planning	15 000
Mr C. Bourke	Submission on training of teachers in Victoria to the National Teacher Inquiry	13 000
Dr A. D. Spaul	Impact of Second World War on Australian Education (typing of manuscript)	760
Professor R. P. Tisher	Report on 'More effective induction in Australia: new directions conference'	1 100
		<u>30 560</u>

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.

Investigator	Project Title	Grant \$
Anatomy		
Professor D. M. de Kretser	Hormonal and structural studies on the mammalian testis (Initial)	35 348
Dr B. W. Oakes	Factors influencing the formation of extra cellular products by vascular smooth muscle cells in tissue culture (Cont.)	10 767
Dr G. C. Smith	Neuronal basis of psychoneuroendocrine responses (Cont.)	18 230
Biochemistry		
Dr M. K. Gould, Dr I. G. Sloan	Mechanism of the insulin-antagonistic action of growth hormone: a unified hypothesis (Cont.)	2 970
Dr M. K. Gould, Dr I. G. Sloan	Regulation of sugar transport in skeletal muscle: Mechanism of insulin action (Cont.)	3 190
Dr M. K. Gould, Professor J. Bornstein, Dr F. M. Ng	Insulin-like action of B-chain tetrapeptide B22-25 (Initial)	1 750
Dr M. K. Gould, Professor J. Bornstein	Regulation of the insulin receptor by a phosphorylation/dephosphorylation mechanism (Initial)	20 105

Investigator	Project Title	Grant \$
Professor D. A. Lowther, Associate Professor B. N. Preston	The effect of anti-inflammatory drugs on normal and inflamed tissues (Cont.)	21 890
Professor D. A. Lowther, Dr J. D. Sandy	Biochemistry of the inflammatory response in arthritis (Initial)	15 255
Electrical Engineering Professor D. G. Lampard, Associate Professor W. A. Brown	Computer control of respiration and anaesthesia (Cont.)	26 919
Genetics		
Professor B. W. Holloway, Dr A. F. Morgan, Dr L. V. Asche	Detection and characterisation of antibiotic resistance plasmids in hospital strains of pseudomonas aeruginosa (Cont.)	16 030
Medicine		
Professor B. G. Firkin, Dr M. B. Van der Weyden	Pharmacological effects of drugs on erythropoiesis with particular reference to megaloblastic maturation and DNA synthesis (Cont.)	15 264
Professor C. I. Johnston	Release and storage of polypeptide hormones (Cont.)	15 484
Professor C. I. Johnston, Professor P. I. Korner	Renin secretory mechanisms: role in physiological and pathological states (Cont.)	25 096
Dr J. Koutts	Interaction between plasma coagulation factors and platelets	14 657
Dr P. G. Matthews	The role of Kallikrein-Kinin system in blood pressure regulation	39 463
Dr S. Pfueller, Professor B. G. Firkin	Structure and reactivity of platelet membrane receptors	45 083
Dr M. B. Van der Weyden	Role of Adenosine deaminase in immune function (Cont.)	16 360
Microbiology		
Professor S. Faine	Pathogenesis and immunity in leptospirosis (Initial)	34 593
Dr S. Graves	The development of a vaccine against syphilis (Initial)	18 255
Dr E. G. Westaway, Dr P. J. Wright	Translation of arbovirus proteins in animal cells (Supplementary)	21 955
Dr E. G. Westaway	Replication and immunochemistry of togaviruses (Initial)	20 090
Obstetrics and Gynaecology		
Dr A. Lopata	The ultrastructure and differentiation of pre-implantation human embryos (Initial)	14 931
Dr A. O. Trounson, Dr P. L. Nayudu	Qualitative changes in protein synthesis in the mammalian oocyte during maturation, fertilisation	

Investigator	Project Title	Grant \$
	and preimplantation embryo development and differentiation (Initial)	18 090
Paediatrics		
Dr J. E. Maloney, Dr T. M. Adamson	Maturation and control of the respiratory system in the foetus and newborn (Cont.)	33 917
Pathology and Immunology		
Professor R. C. Nairn	Effects of immunological anergy in inflammatory and neoplastic diseases (Cont.)	30 753
Pharmacology		
Associate Professor G. A. Bentley	A pharmacological study of cerebral a-adrenoreceptors (Cont.)	12 659
Professor A. L. A. Boura, Professor D. G. Lampard, Professor B. O. West, Dr J. K. Yandell	Chemistry and pharmacology of analogues of the hypotensive drug sodium nitro-prusside (Cont.)	16 360
Dr J. N. O'Neil	A study of the local influence of the sympathetic nervous system on the function and development of the ovary and ovarian ligaments (Cont.)	21 114
Psychological Medicine		
Dr J. W. G. Tiller	Control of anxiety using electromyographic external psychophysiological feedback (Initial)	14 657
Physiology		
Dr B. G. Cragg	The distribution of extracellular space in the brain (Initial)	18 007
Dr B. G. Cragg	Disorders of neuronal migration and connections in the brain after methylazoxymethanol treatment (Cont.)	17 307
Dr E. McLachlan	The role of the sympathetic preganglionic neurones in the control of blood pressure (Supplementary)	8 728
Professor R. Porter	Functional recovery after nerve transplantation in primates (Cont.)	19 695
Professor R. Porter	Central nervous mechanisms controlling limb movement (Cont.)	15 196
Dr G. S. Taylor	Electrophysiology and contractility of the colon in Hirschsprung's disease (Initial)	21 328
Dean of Medicine's Department		
Professor G. C. Schofield	Role of parietal cell membranes in gastric acid secretion (Cont.)	22 836
Centre for Early Human Development		
Dr A. M. Walker, Dr J. E. Maloney	Development of autonomic nervous control of the heart in the foetus and newborn (Initial)	19 959
		<u>744 291</u>

Gifts in kind

- Albright and Wilson Australia Ltd: 2 kilograms of triphenylphosphine, (Chemistry).
Beecham (Aust.) Pty Ltd.: 210 grams of carbenicillin valued at \$464, (Genetics)
Esaco Pty Ltd: gift of *Look I'm Reading* instructional materials, Faculty of Education.
Ilford (Australia) Pty Limited: a Unicam S.P.500 spectrophotometer, (Chemical Engineering).
Inter Naciones, Cultural Agency of the Government of the Federal Republic of Germany: payment of the transport and insurance costs of the Louis Matheson Pipe Organ from Herr Ahrend's organ building workshop in Leer-Loga, Germany, to the University, valued at \$8 963 (transport \$7 713; insurance \$1 250).
From The Estate of the late Miss Louise Lightfoot: a unique contribution of materials relating to the history of Indian music and dance, comprising programmes, newspaper clippings, books, periodicals, plans and diagrams for programmes of Indian dance, dance costumes, dance/drama curtain, tapes and cassettes, tape recorder, personal letters and miscellaneous memorabilia, plus scrapbook of ballet events in Australia for the period roughly 1930-39, (Music).
Mr J. S. P. Ramsay: Professor Alfred Newton's birds' egg collecting case and instruments, also reprint of a paper by him, Faculty of Science.
Messrs J. S. Stecki and J. Scalzo of the Fluid Power Center, Oklahoma State University: fluid logic equipment valued at \$2 000 (\$1 200 contributed by Mr Stecki, \$800 by Mr Scalzo) to assist in research and teaching activities in the area of automation, Professor J. D. C. Crisp, (Mechanical Engineering).

Some of the gifts and grants shown, 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 1979 and is therefore not reconcilable with the list.

Sources of Grants and Donations

	\$000	%
Private donations and indirect Government research grants	1 887	48.7
Australian Research Grants Committee	1 044	26.9
National Health and Medical Research Council	914	23.6
Education Research and Development Committee	32	.8
	<u>3 877</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 University 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 \$324 607 by 31 December 1979. The Library appeal reached a total of \$310 772; the Development Fund \$17 989; the Special Education Fund \$7 859; the Krongold Centre appeal \$23 082.

FINANCE

The following points from the audited accounts of the University for the year 1979 are set out for ready reference:

Funds available

Recurrent Commonwealth Government funds available for expenditure on recurrent items during the year ended 31 December 1979 were:

		\$000
University — 1979		55 153
— brought forward from 1978		<u>307</u>
		55 460
Teaching Hospitals		218
Halls of Residence		183

Expenditure for recurrent purposes during the year 1979 was:

	University		Teaching Hospitals		Halls of Residence	
	\$000	%	\$000	%	\$000	%
Academic activities	38 827	70.4	218	100.0		
Academic services	5 377	9.8				
Student services	1 207	2.2				
General services	9 594	17.4				
Public services	70	0.1				
Other	61	0.1			183	100.0
	<u>55 136</u>	<u>100.0</u>	<u>218</u>	<u>100.0</u>	<u>183</u>	<u>100.0</u>

Capital Commonwealth Government funds received in 1979 for expenditure on capital projects (buildings and furniture) on the University site totalled \$1 579 700.

Research Commonwealth Government funds available for expenditure on special research projects in 1979 totalled \$652 000.

Equipment Commonwealth Government funds received in 1979 for expenditure on equipment totalled \$1 600 000.

Union Fees

Union fees payable by students enrolled for the year 1979 were:

Students studying on campus — full time \$138; part-time \$86 or \$60.

Students studying off campus in Victoria — full-time \$35; part-time \$24.

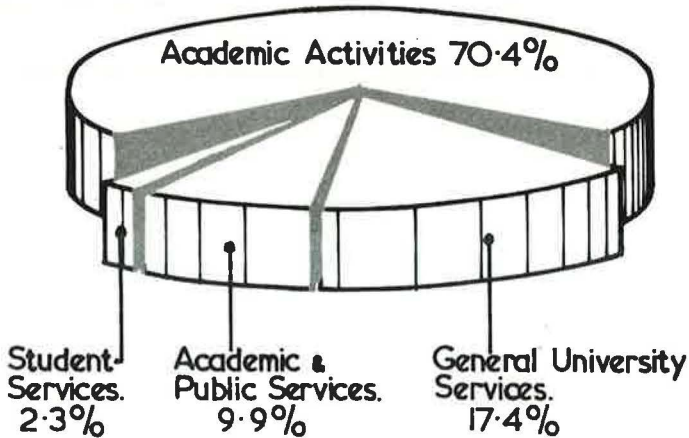
Accounts

The audited accounts of the University for the year 1979 are appended to this report, and provide further details of the year's activities.

General

The year 1979 saw the return to triennial funding of universities in respect of recurrent grants. Although this change was welcome and allows a more rational approach to long-term planning, the stipulation that any unspent recurrent grant funds in excess of 1 per cent of the grant may have to be returned in any one year does inhibit the exercise of sound management of funds. The imposition of an artificial cut-off date for expenditure in a situation of continuous operation makes careful housekeeping more difficult.

Expenditure of Recurrent Grant — year ended 31 December 1979



In previous reports, reference has been made to the reduction of recurrent grants in real terms. The level of funding for the general operation of the University continued to be critical in 1979. The further erosion of the real sums granted can be illustrated by comparison of the recurrent grants for the two years 1978 and 1979 expressed in common cost levels existing at December 1977. The recurrent grant received for 1979 of \$55 153 000 when deflated becomes \$50 325 000, while the equivalent figure for 1978 was \$50 580 000. This is a loss of purchasing power to the University of \$255 000.

This reduction in the grant, in real terms, is further exacerbated by:

- (a) the automatic incrementation of salaries paid in accordance with the remuneration scales set by the Academic Tribunal for which no provision is made within the salary supplementation formula, and
- (b) the policy of the Commonwealth Government of not supplementing grants to cover cost increases on non-salary items during the year of the grant.

It is conservatively estimated that salary increments and non-staffing cost increases amounted to \$1 300 000 in 1979. This, coupled with the decrease in the purchasing power of the basic grant, is equal to a cut in excess of \$1.5 million in the recurrent grant to the University for the year. This 3 per cent reduction has had to be sustained without a decrease in the number of students. The future prospect affords little scope for optimism. The basic grants, for the second and third years of the triennium, when deflated to the same December 1977 cost level, further diminish the level of funding, being \$280 000 and \$185 000 respectively below the equivalent 1978 grant.

The *Report of the Council for 1978* referred to the provision of funds for equipment as being most unfavourable by comparison with other large Australian universities, and this unsatisfactory feature continued in 1979. Further, the effect of not being supplemented for cost increases occurring in the year of the grant was the reduction of the real value of the \$1 600 000 granted by some \$200 000.

The situation is precarious and, unless the present policies on the financing of tertiary education are changed, there will be further deterioration. The University cannot sustain such a severe and continuous drop in the level

of funding and still maintain the same level of service in teaching and research as it has hitherto offered to the community of which it forms an integral and important part.

ACCOUNTS FOR THE YEAR 1979

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 1979.

R. L. Martin
Vice-Chancellor

L. W. Candy
Comptroller

17 September 1980

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 1979 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

12 November 1980

1 Summary Statement showing Income and Expenditure for all general purposes for the year ended 31 December 1979

	Recurrent Grant	Building Projects Grant	Equipment Grant	Teaching Recurrent Grant	Hospitals Building Projects Grant
	\$	\$	\$	\$	\$
Income					
Cwealth Government Grants	55,153,000	1,579,700	1,600,000	218,000	—
Other Income					
Total Income	55,153,000	1,579,700	1,600,000	218,000	—
<i>Less</i>					
Expenditure					
Academic Activities	38,826,825	28,053	1,012,195	218,000	2,468
Academic Services	5,376,550		190,587		
Student Services	1,206,974				
General Services	9,594,516	1,527,957	50,321		935
Public Services	70,163		3,099		
Other	60,961				
Total Expenditure	55,135,989	1,556,010	1,256,202	218,000	3,403
Surplus (Deficit) for the year	17,011	23,690	343,798	—	(3,403)
Surplus (Deficit) at 1 January 1979	307,127	56,553	—	—	24,036
Accumulated Surplus at 31 December 1979	324,138	80,243	343,798	—	20,633

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	1978 Total
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
652,000	1,043,655							60,246,355	57,272,777
	2,540,693	413,004	1,310,672	420	544,593	3,603,789	10,902	8,424,073	7,606,268
652,000	3,584,348	413,004	1,310,672	420	544,593	3,603,789	10,902	68,670,428	64,879,045
631,904	3,076,288	188,614						43,984,347	43,083,289
19,302	6,061	90,128						5,682,628	5,554,502
	151,669	19,926						1,378,569	1,348,047
794	16,049	19,019			552,118	469,061	1,114	12,231,884	15,209,290
								73,262	69,063
		199,860	1,219,832	20	233,831	1,704,429		3,418,933	3,036,573
652,000	3,250,067	517,547	1,219,832	20	785,949	2,173,490	1,114	66,769,623	68,300,764
—	334,281	(104,543)	90,840	400	(241,356)	1,430,299	9,788	1,900,805	(3,421,719)
—	466,761	1,053,684	66,809	8,327	(297,361)	4,704,160	124,728	6,514,824	9,936,543
—	801,042	949,141	157,649	8,727	(538,717)	6,134,459	134,516	8,415,629	6,514,824

2 Recurrent Grant

Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
	Income	
51,603,000	Commonwealth Government Grants	55,153,000
<u>51,603,000</u>	Total Income	<u>55,153,000</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
32,672,708	Salaries and Related Items	34,373,391
2,277,814	Maintenance	2,043,661
787,551	Computing Services	842,603
1,528,730	Equipment	622,653
260,757	Outside Studies Programme	225,079
53,988	Appointment Costs	59,054
510,984	Other Items	660,384
<u>38,092,532</u>		<u>38,826,825</u>
	<i>Academic Services</i>	
	Libraries —	
2,481,085	Salaries and Related Items	2,618,284
1,335,920	Books and Journals	1,169,944
102,587	Maintenance	104,358
116,628	Computing Services	107,741
23,245	Equipment	9,686
2,525	Other Items	1,881
<u>4,061,990</u>		<u>4,011,894</u>
	Computing —	
614,913	Salaries and Related Items	750,438
170,062	Maintenance	149,267
250,750	Equipment	607,997
1,085,528Cr	Recoveries	1,086,604Cr.
1,451	Other Items	16,781
<u>48,352Cr</u>		<u>437,879</u>
	Other Academic Services —	
805,379	Salaries and Related Items	856,262
58,749	Other Items	70,515
<u>864,128</u>		<u>926,777</u>
42,970,298	<i>Sub-Total carried forward</i>	44,203,375

2 Recurrent Grant

Statement of Income and Expenditure for the year ended 31 December 1979 (continued)

1978		1979
\$		\$
<u>42,970,298</u>	<i>Sub-Total brought forward</i>	<u>44,203,375</u>
	<i>Student Services</i>	
453,375	Salaries and Related Items	471,350
743,178	Scholarships	715,646
21,074	Other Items	19,978
<u>1,217,627</u>		<u>1,206,974</u>
	<i>General Services</i>	
	Administration —	
3,309,799	Salaries and Related Items	3,440,780
185,269	Computing Services	146,489
156,030	Other Items	138,113
<u>3,651,098</u>		<u>3,725,382</u>
	Overheads —	
504,788	Postage, Telephone and Advertising	545,472
91,730	Furniture and Furnishings	44,232
724,910	Power, Lighting and Heating	782,019
592,875	Other Items	512,201
<u>1,914,303</u>		<u>1,883,924</u>
	Buildings and Grounds —	
2,641,576	Salaries and Related Items	2,778,634
1,430,539	Maintenance	1,130,903
46,824	Other Items	75,673
<u>4,118,939</u>		<u>3,985,210</u>
	<i>Public Services</i>	
	Continuing Education —	
63,358	Salaries and Related Items	67,014
5,705	Other Items	3,149
<u>69,063</u>		<u>70,163</u>
57,163		60,961
<u>53,998,491</u>	<i>Union Administration</i>	<u>55,135,989</u>
	Total Expenditure	
2,395,491(D)	Surplus for the year	17,011
2,702,618	Surplus at 1 January 1979	307,127
<u>307,127</u>	Accumulated Surplus at 31 December 1979	<u>324,138</u>

3 Building Projects Grant

Statement of Income and Expenditure for the year ended 31 December 1979

1978		1979
\$		\$
<u>2,529,000</u>	Income	
<u>2,529,000</u>	Commonwealth Government Grant	<u>1,579,700</u>
	Total Income	<u>1,579,700</u>
	<i>Less</i>	
	Expenditure	
2,826,901	New Buildings	1,261,066
96,851	Furniture and Furnishings	7,918
835,128	Site Development	258,973
	Teaching and Research —	
<u>16,284</u>	Equipment	<u>28,053</u>
<u>3,775,164</u>	Total Expenditure	<u>1,556,010</u>
1,246,164(D)	Surplus for the year	23,690
<u>1,302,717</u>	Surplus at 1 January 1979	<u>56,553</u>
<u>56,553</u>	Accumulated Surplus at 31 December 1979	<u>80,243</u>

4 Equipment Grant

Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
<u>1,388,000</u>	Income	
<u>1,388,000</u>	Commonwealth Government Grant	<u>1,600,000</u>
	Total Income	<u>1,600,000</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
<u>1,313,152</u>	Teaching and Research — Equipment	<u>1,012,195</u>
	<i>Academic Services</i>	
39,299	Libraries —	46,362
<u>54,070</u>	Books and Journals	<u>26,426</u>
<u>93,369</u>	Equipment	<u>72,788</u>
<u>427,097</u>	Computing	<u>71,372</u>
<u>84,797</u>	Other Academic Services	<u>46,427</u>
<u>488</u>	<i>Student Services</i>	<u>—</u>
	<i>General Services</i>	
93,579	Administration	32,493
157	Overheads	—
<u>44,925</u>	Buildings and Grounds	<u>17,828</u>
<u>138,661</u>		<u>50,321</u>
	<i>Public Services</i>	
—	Continuing Education	3,099
<u>2,057,564</u>	Total Expenditure	<u>1,256,202</u>
669,564(D)	Surplus for the year	343,798
<u>669,564</u>	Surplus at 1 January 1979	<u>—</u>
<u>—</u>	Accumulated Surplus at 31 December 1979	<u>343,798</u>

5 Teaching Hospitals: Recurrent Grant
Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
204,000	Income	
204,000	Commonwealth Government Grant	218,000
	Total Income	218,000
	<i>Less</i>	
	Expenditure	
	Academic Activities	
204,000	Teaching and Research —	
204,000	Maintenance	218,000
	Total Expenditure	218,000
—	Surplus for the year	—

6 Teaching Hospitals: Building Projects Grant
Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
59,500	Income	
59,500	Commonwealth Government Grant	—
	Total Income	—
	<i>Less</i>	
	Expenditure	
141,250	New Buildings	621
2,189	Equipment	2,468
—	Furniture and Furnishings	314
143,439	Total Expenditure	3,403
83,939	Deficit for the year	3,403
107,975	Surplus at 1 January 1979	24,036
24,036	Accumulated Surplus at 31 December 1979	20,633

7 Special Research Grant
Statement of Income and Expenditure for the year ended 31 December 1979

1978		1979
\$		\$
454,000	Income	
454,000	Commonwealth Government Grant	652,000
	Total Income	652,000
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
414,458	Salaries and Related Items	454,261
30,888	Maintenance	166,513
—	Computing Services	1,500
8,428	Other Items	9,630
453,774		631,904
	<i>Academic Services</i>	
—	Other Academic Services —	
	Salaries and Related Items	19,302
	<i>General Services</i>	
226	Postage, Telephone and Advertising	794
454,000	Total Expenditure	652,000
—	Surplus for the year	—

8 Private and Indirect Government Research Grants
Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
<u>1,035,277</u>	Income	
	Commonwealth Government Grant	<u>1,043,655</u>
1,113,368	Grants and Donations	1,639,298
753,999	Government-Financed Bodies	<u>901,395</u>
<u>1,867,367</u>	Other	<u>2,540,693</u>
<u>2,902,644</u>	Total Income	<u>3,584,348</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
1,776,107	Salaries and Related Items	2,198,038
545,504	Maintenance	559,759
330	Computing Services	830
424,072	Equipment	235,369
74,690	Other Items	<u>82,292</u>
<u>2,820,703</u>		<u>3,076,288</u>
	<i>Academic Services</i>	
	Other Academic Services —	
5,990	Salaries and Related Items	4,189
2,521	Other Items	<u>1,872</u>
<u>8,511</u>		<u>6,061</u>
	<i>Student Services</i>	
	Scholarships	<u>151,669</u>
	<i>General Services</i>	
4,860	Postage, Telephone and Advertising	4,294
—	Furniture and Furnishings	389
200	Buildings Maintenance	<u>11,366</u>
<u>5,060</u>		<u>16,049</u>
<u>2,950,410</u>	Total Expenditure	<u>3,250,067</u>
47,766(D)	Surplus for the year	334,281
<u>514,527</u>	Surplus at 1 January 1979	<u>466,761</u>
<u>466,761</u>	Accumulated Surplus at 31 December 1979	<u>801,042</u>

9 General Donations

Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
	Income	
	Donations	
	Government Financed Bodies	63,601
	Other	220,199
		<u>283,800</u>
89,528	Appeals	
249,450	Robert Blackwood Hall — Organ	15,210
	Library Books	39,244
	Other	11,811
		<u>66,265</u>
338,978	Other Income	62,939
	Total Income	<u>413,004</u>
22,382	<i>Less</i>	
32,616	Expenditure	
18,040	<i>Academic Activities</i>	
	Teaching and Research —	
	Salaries and Related Items	68,094
	Maintenance	41,449
	Equipment	34,666
	Other Items	44,405
		<u>188,614</u>
73,038	<i>Academic Services</i>	
62,924	Libraries —	
474,940	Salaries and Related Items	24,150
	Books and Journals	35,393
	Maintenance	835
	Computing Services	—
	Equipment	3,417
	Other Items	3,842
		<u>67,637</u>
	Other Academic Services —	
	Salaries and Related Items	18,351
	Other Items	4,140
		<u>22,491</u>
	<i>Sub-Total carried forward</i>	<u>278,742</u>

9 General Donations

Statement of Income and Expenditure for the year ended 31 December 1979 (continued)

1978		1979
\$		\$
<u>243,617</u>	<i>Sub-Total brought forward</i>	<u>278,742</u>
	<i>Student Services</i>	
1,055	Salaries and Related Items	—
2,581	Scholarships	17,636
<u>10,160</u>	Other Items	<u>2,290</u>
<u>13,796</u>		<u>19,926</u>
	<i>General Services</i>	
	Administration —	
	Other Items	1,189
	Overheads —	
5,298	Furniture and Furnishings	405
<u>359</u>	Other Items	<u>982</u>
<u>5,657</u>		<u>1,387</u>
	Buildings and Grounds —	
45,058	New Buildings	16,266
<u>1,620</u>	Maintenance	<u>177</u>
<u>46,678</u>		<u>16,443</u>
	<i>Other Items</i>	
1,072	Halls of Residence	—
<u>880</u>	Union Activities	<u>165</u>
<u>1,952</u>		<u>165</u>
	<i>Appeals</i>	
42,060	Robert Blackwood Hall — Organ	142,353
54,570	Library Books	53,695
<u>420 Cr</u>	Other	<u>3,647</u>
<u>96,210</u>		<u>199,695</u>
<u>407,910</u>	Total Expenditure	<u>517,547</u>
67,030(S)	Deficit for the year	104,543
<u>986,654</u>	Surplus at 1 January 1979	<u>1,053,684</u>
<u>1,053,684</u>	Accumulated Surplus at 31 December 1979	<u>949,141</u>

Note: Gifts in kind are detailed on page 83 of this Report.

10 Union Activities

Statement of Income and Expenditure for the year ended 31 December 1979

1978		1979
\$		\$
1,104,578	Income	
94,925	Union Fees	1,193,477
<u>1,199,503</u>	Other	<u>117,195</u>
	Total Income	<u>1,310,672</u>
	<i>Less</i>	
	Expenditure	
273,017	Sports and Recreation Association	265,782
190,076	Monash Association of Students	186,914
102,218	Clubs and Societies Council	104,099
105,411	Union Tuition and Courses	137,415
113,099	Union Building Management	123,954
434,194	Union Administration and Special Projects	398,817
	Business Activities —	
63,619 (D)	Catering — Operating Deficit	(D) 68,120
8,816 (D)	Other — Operating Surplus	(S) <u>29,716</u>
<u>1,290,450</u>		<u>1,255,385</u>
	<i>Less</i>	
35,256	Contribution by University for use of facilities by staff	<u>35,553</u>
<u>1,255,194</u>	Total Expenditure	<u>1,219,832</u>
55,691 (D)	Surplus for the year	90,840
122,500	Surplus at 1 January 1979	<u>66,809</u>
<u>66,809</u>	Accumulated Surplus at 31 December 1979	<u>157,649</u>

11 Student Assistance Fund

Statement of Income and Expenditure for the year ended 31 December 1979

1978		1979
\$		\$
446	Income	420
	<i>Less</i>	
149	Expenditure	<u>20</u>
297	Surplus for the year	400
8,030	Surplus at 1 January 1979	<u>8,327</u>
<u>8,327</u>	Accumulated Surplus at 31 December 1979	<u>8,727</u>

12 Union Development Fund
Statement of Income and Expenditure for the year ended 31 December 1979

1978		1979
\$		\$
	Income	
366,268	Union Development Fees	395,769
150,524	Rentals and Other	148,824
<u>516,792</u>	Total Income	<u>544,593</u>
	<i>Less</i>	
	Expenditure	
	<i>General Services</i>	
268,628	New Buildings	447,509
117,631	Maintenance — Buildings	88,902
27,750	Furniture and Furnishings	15,707
<u>414,009</u>		<u>552,118</u>
	<i>Other Items</i>	
48,463	Equipment	81,399
68,887	Occupancy Expense	58,042
123,513	Other Items	94,390
<u>240,863</u>		<u>233,831</u>
<u>654,872</u>	Total Expenditure	<u>785,949</u>
138,080	Deficit for the year	241,356
159,281	Deficit at 1 January 1979	297,361
<u>297,361</u>	Accumulated Deficit at 31 December 1979	<u>538,717</u>

13 General Auxiliary Activities

Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
	Income	
1,936,232	Outside Earnings	2,174,654
<u>1,601,018</u>	Other Income	<u>1,429,135</u>
<u>3,537,250</u>	Total Income	<u>3,603,789</u>
	<i>Less</i>	
	Expenditure	
	<i>General Services</i>	
	Overheads —	
	Furniture and Furnishings	<u>13,360</u>
	Buildings and Grounds —	
87,605	New Buildings	411,047
818,940	Site Acquisition	22,138
59,681	Site Development	—
<u>48,303</u>	Maintenance	<u>22,516</u>
<u>1,014,529</u>		<u>455,701</u>
	<i>Other Items</i>	
12,013	University Bookshop	837Cr.
8,891 Cr.	Halls of Residence	76,156Cr.
7,756	South East Flats	54,804Cr.
11,267 Cr.	Owned Houses and Transit Flats	38,639Cr.
1,428,794	Outside Earnings	1,898,098
<u>43,363 Cr.</u>	Other	<u>23,233Cr.</u>
<u>1,385,042</u>		<u>1,704,429</u>
<u>2,399,571</u>	Total Expenditure	<u>2,173,490</u>
1,137,679	Surplus for the year	1,430,299
<u>3,566,481</u>	Surplus at 1 January 1979	<u>4,704,160</u>
<u>4,704,160</u>	Accumulated Surplus at 31 December 1979	<u>6,134,459</u>

14 Fire Insurance Fund

Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
	Income	
9,970	Income from Investments	10,902
	<i>Less</i>	
	Expenditure	
	Repair of Fire Damage	<u>1,114</u>
9,970	Surplus for the year	9,788
<u>114,758</u>	Surplus at 1 January 1979	<u>124,728</u>
<u>124,728</u>	Accumulated Surplus at 31 December 1979	<u>134,516</u>

15 Statement of Balances for all general purposes at 31 December 1979

	1978		1979
\$	\$		\$
		Accumulated Funds	
307,127		Recurrent Grant	324,138
56,553		Building Projects Grant	80,243
—		Equipment Grant	343,798
—		Teaching Hospitals Recurrent Grant	—
24,036		Teaching Hospitals Building Projects Grant	20,633
—		Special Research Grant	—
466,761		Private and Indirect Government Research Grants	801,042
1,053,684		General Donations	949,141
66,809		Union Activities	157,649
8,327		Student Assistance Fund	8,727
297,361 Dr.		Union Development Fund	538,717 Dr.
4,704,160		General Auxiliary Activities	6,134,459
124,728		Fire Insurance Fund	134,516
6,514,824	<u>6,514,824</u>	Total Accumulated Funds	<u>8,415,629</u>
		<i>Represented by:</i>	
		Investments	
340,298		Fixed Interest Securities, at lower of cost or par	364,885
413,013		Ordinary Shares, at cost (Market Value: 31 December 1979 — \$566,080 31 December 1978 — \$425,437)	402,853
136,104		Property and Mortgage Investment Trust Units, at cost	176,104
889,415	<u>889,415</u>		<u>943,842</u>
		Current Assets	
32,094		Cash at Bank and on Hand	22,531
2,900,000		Cash on Secured Deposits	400,000
9,800,000		Cash on Term Deposits	12,800,000
100,000		Australian Savings Bonds	100,000
23,000		Debtors — Accrued Government Grants	260,826
1,039,999		Other	1,090,796
845,490		Stocks on Hand, at cost less obsolescence	952,122
18,755		Payments in Advance	14,969
14,759,338	<u>14,759,338</u>		<u>15,641,244</u>
15,648,753	15,648,753		16,585,086
		<i>Less</i>	
		Current Liabilities	
1,672,023		Bank Overdraft	454,024
4,646,987		Sundry Creditors and Accrued Expenses	4,895,651
681,039		Students' Fees Received in Advance	745,511
7,000,049			6,095,186
2,133,880	<u>2,133,880</u>	Long-term Liabilities	<u>2,074,271</u>
9,133,929	9,133,929	Loans on Mortgage	8,169,457
6,514,824	<u>6,514,824</u>	Net Assets	<u>8,415,629</u>

16 Donor-Nominated Trust Funds

Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
<u>7,122</u>	Income	
	Income from Investments	<u>7,269</u>
	<i>Less</i>	
	Expenditure	
450	Max Buxton Scholarship	900
800	Graham John Beard Memorial Fund	—
875	J. W. Dodds Memorial Scholarship	568
600	Vallejo Gantner Memorial Travel Fund	750
56	Monash University Rowing Club	58
216	W. P. and H. E. O'Shea Fund	240
50	The David B. Rosenthal Memorial Trust	50
500	Hume Turnbull Scholarship	500
<u>2,075</u>	William and Katherine Winter Foundation	<u>2,100</u>
<u>5,622</u>	Total Expenditure	<u>5,166</u>
<u>1,500</u>	Surplus for the year	<u>2,103</u>

Balance Sheet at 31 December 1979

1978 \$		1979 \$
102,072	Accumulated Funds	
500	Funds at 1 January 1979	104,072
<u>1,500</u>	Endowment received during the year	—
	Surplus for the year	<u>2,103</u>
<u>104,072</u>	Total Accumulated Funds	<u>106,175</u>
	<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	3,171
	(Market Value — 31 December 1979 — \$4,975 31 December 1978 — \$3,053)	
<u>95,007</u>		<u>95,109</u>
	Current Assets	
9,000	Fixed Deposit Stock	10,700
65	Cash at Bank	366
<u>9,065</u>		<u>11,066</u>
<u>104,072</u>	Total Assets	<u>106,175</u>

17 Students' Loan Fund

Statement of Income and Expenditure for the year ended 31 December 1979

1978		1979
\$		\$
	Income	
2,093	Interest on Loans	2,106
464	Interest on Term Deposit	737
1,167	Bank Interest	519
47	Donations	12
<u>3,771</u>	Total Income	<u>3,374</u>
	<i>Less</i>	
	Expenditure	
<u>—</u>	Nil	<u>—</u>
<u>3,771</u>	Surplus for the year	<u>3,374</u>

Balance Sheet at 31 December 1979

1978		1979
\$		\$
	Accumulated Fund	
138,227	Fund at 1 January 1979	141,998
	<i>Add</i>	
3,771	Surplus for the year	3,374
<u>141,998</u>	Total Accumulated Fund	<u>145,372</u>
	<i>Represented by:</i>	
	Loans to Students	
115,655	Principal	121,963
3,415	Accrued Interest	3,602
<u>119,070</u>		<u>125,565</u>
	Term Deposit	
10,000	Principal	10,000
310	Accrued Interest	312
<u>10,310</u>		<u>10,312</u>
12,618	Cash at Bank	9,495
<u>141,998</u>	Total Assets	<u>145,372</u>

18 Assistance to Students In Need Fund

Statement of Income and Expenditure for the year ended 31 December 1979

1978 \$		1979 \$
	Income	
8,280	Interest on Term Deposits	7,745
1,045	Interest on Loans	1,371
438	Bank Interest	276
<u>9,763</u>	Total Income	<u>9,392</u>
	<i>Less</i>	
	Expenditure	
2,561	Grants paid to Students during the year	1,705
32	Other	58
<u>2,593</u>	Total Expenditure	<u>1,763</u>
<u>7,170</u>	Surplus for the year	<u>7,629</u>

Balance Sheet at 31 December 1979

1978 \$		1979 \$
	Accumulated Fund	
172,018	Funds as at 1 January 1979	179,188
	<i>Add</i>	
7,170	Surplus for the year	7,629
<u>179,188</u>	Total Accumulated Fund	<u>186,817</u>
	<i>Represented by:</i>	
	Term Deposits	
105,000	Principal	105,000
4,216	Accrued Interest	5,233
<u>109,216</u>		<u>110,233</u>
	Loans to Students	
60,958	Principal	68,908
1,422	Accrued Interest	2,287
<u>62,380</u>		<u>71,195</u>
7,592	Cash at Bank	5,389
<u>179,188</u>	Total Assets	<u>186,817</u>

19 Superannuation and Pension Schemes

Statement of Income and Expenditure for the year ended 31 December 1979

1978		1979
\$		\$
	Income	
568,440	Members' Contributions	620,980
1,136,997	University's Contributions	1,089,677
851,320	Income from Investments	1,155,318
108,228	Other Income	504,727
<u>2,664,985</u>	Total Income	<u>3,370,702</u>
	Less	
	Expenditure	
232,038	Benefit Payments to Members	401,767
171,565	Payments on Withdrawal	218,017
3,743	Other Payments	4,656
<u>407,346</u>	Total Expenditure	<u>624,440</u>
2,257,639	Surplus for the year	2,746,262
7,132,100	Surplus at 1 January 1979	9,389,739
<u>9,389,739</u>	Accumulated Surplus at 31 December 1979	<u>12,136,001</u>

Balance Sheet at 31 December 1979

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

1978		1979
\$		\$
<u>9,389,739</u>	Accumulated Funds	<u>12,136,001</u>
	Accumulated Surplus	
	<i>Represented by:</i>	
	Investments	
5,672,098	Fixed-Interest Securities at lower of cost or par	8,356,882
1,245,098	Ordinary Shares, at cost	1,331,823
	(Market Value: 31 December 1979 — \$1,854,015 31 December 1978 — \$1,374,816)	
<u>2,012,740</u>	Property and Mortgage Investment Trust Units, at cost	<u>2,312,740</u>
8,929,936		12,001,445
	Current Assets	
481,419	University Current Account	352,044
	Less	
	Members' Contributions and Maturity Proceeds on hand at 31 December (awaiting disbursement)	217,488Cr.
<u>21,616Cr.</u>		<u>134,556</u>
<u>459,803</u>		<u>134,556</u>
<u>9,389,739</u>	Total Assets	<u>12,136,001</u>

APPENDIX I

Changes in the Membership of Council during 1979

Members who retired or resigned from office during 1979

Mr N.A.W. Billing, M.P. (Governor in Council — Parliament) 1976-1979; The Hon. P.D. Block, M.L.C. (Governor in Council — Parliament) 1979; Dr D.M. Churchill (Faculty of Science) 1975-1979; Professor D. Cochran (co-opted Dean) 1977-1979; Professor S.R. Davis (Professors) 1975-1979; Mr J. W. Leslie (Governor in Council) 1975-1979; Mr G.G. McArthur (Undergraduate and Diploma Students) 1978-1979; Dr R.E. Melchers (Non-Professorial Teaching Staff) 1975-1979; Mr D.M. Parkes (Postgraduate Students) 1977-1979; Professor A.G.L. Shaw (Professors) 1977-1979; Mr J.W. Wood (Governor in Council) 1961-1979.

Members re-elected or re-appointed for a further term of office during 1979

Mr I.R. Cathie, M.P. (Governor in Council — Parliament) 1977-1983; Dr N.J. Gray (Faculty of Medicine) 1971-1983; Mrs A.W. Hamer (co-opted) 1977-1983; Dr G.A. Knights (Governor in Council) 1975-1983;

Mr N.M. McInnes, M.P. (Governor in Council — Parliament) 1977-1983.

Members elected or appointed to Council during 1979

The Hon. P.D. Block, M.L.C. (Governor in Council — Parliament) 1979; Dr K.T.H. Farer (co-opted) 1979-1980; Mr P. Golding (Postgraduate Students) 1979-1981; The Hon. J.V.C. Guest, M.L.C. (Governor in Council — Parliament) 1979-1983; Miss M.J. Harris (Governor in Council) 1979-1983; Professor R.C. Nairn (Professors) 1979-1983; Dr B.A. Parker (Non-Professorial Teaching Staff) 1979-1983; Professor I.J. Polmear (Professors) 1979-1983; Sir Robert Price (Faculty of Science) 1979-1983; Professor J.M. Swan (co-opted Dean) 1979-1980.

Vacancies in the membership of Council as at 31 December 1979

One Governor in Council appointee representing commercial and industrial interests to succeed Mr J.W. Leslie.

One elected representative of the undergraduate and diploma students to succeed Mr G.G. McArthur.

