

*Report of the Council*  
*1982*

*Monash University*

# **Report of the Council of Monash University 1982**

Report of the Council for the period  
1 January 1982 to 31 December 1982





# **Report of the Council**

**1982**

**Monash University**

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# **REPORT OF THE COUNCIL FOR 1982**

In accordance with Section 41 of the Monash University Act 1958, as amended, I submit the Report of the Council for 1982.

**For and on behalf of the Council**

**R.M. Eggleston  
Chancellor**



# THE COUNCIL

Members of Council as at 31 December 1982\*

## Members ex officio

The Honourable Sir Richard Moulton  
Eggleston, Q.C., LL.B., Hon.LL.D.  
(Melb.), F.A.S.S.A. — *Chancellor*

Raymond Leslie Martin, M.Sc.(Melb.), Ph.D.,  
Sc.D.(Cantab.), D.Sc.(A.N.U.), F.R.A.C.I.,  
F.R.S.C., F.A.A. — *Vice-Chancellor*

## Appointed by the Governor in Council to represent the Parliament of Victoria

The Honourable William Robert Baxter,  
M.L.C.

The Honourable James Vincent Chester  
Guest, M.A.(Oxon.), M.B.A.(Melb.), of  
Lincoln's Inn, Barrister-at-Law, Barrister-  
at-Law (Vic.), M.L.C.

Gerard Marshall Vaughan, A.R.M.I.T.,  
Dip.Ed.(S.C.V.), B.E., M.Eng.Sc., Ph.D.,  
A.R.A.C.I., M.P.

## Appointed by the Governor in Council to represent the interests of agriculture, the professions, industry and commerce

Geoffrey Alistair Knights, M.A., Ph.D.  
(Cantab.)

Hugh Mitchell McKenzie

Sir James Charles McNeill, C.B.E.,  
Hon.D.Sc.(N'cle), F.A.S.A., F.A.I.M.

Gregory Brian Sword

## 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.S.S.A.,  
F.A.H.A. (*Arts*)

Charles Barrington Goode, B.Com.(Melb.),  
M.B.A.(Col.), A.A.S.A. (*Economics and  
Politics*)

Maxwell Wilkinson Oldmeadow, B.A.(Melb.),  
Dip.Ed., T.P.T.C., M.A.C.E. (*Education*)

Robert John Neil Kinsman, B.Mech.E.(Melb.),  
C.Eng., F.I.Mech.E., M.Aust.I.M.M.  
(*Engineering*)

The Honourable Mr Justice Robert Clive  
Tadgell, 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

John William McCarty, B.Com.(Melb.),  
Ph.D.(Cantab.), 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.

Bruce Oswald West, B.Sc.(Adel.), Ph.D.(Adel.  
and Cantab.), F.R.A.C.I.

## Elected by teaching staff other than the Professors

Ian McCance, M.Sc.(Melb.), Ph.D.

Brendon Aston Parker, B.Sc.(Eng.),  
Ph.D.(Lond.), D.I.C.

Martin George Sullivan, M.A., B.Ed.(Q'ld.),  
Ph.D.

## Appointed by the Minister for Education

Ronald George Ritchie, B.Mech.E.,  
Dip.Ed.(Melb.), Dip.Mech.E.(Caulfield  
T.C.), M.Admin., F.I.E.Aust., M.A.C.E.

## Co-opted

Keith Thomas Henry Farrer, O.B.E.,  
D.Sc.(Melb.), M.A.(La T.), C.Chem.,  
F.R.S.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.  
— *Deputy Chancellor*

\*See Appendix I for changes in membership during the year.

**Co-opted from among the Deans of  
the Faculties**

John David Legge, M.A.(Melb.),  
D.Phil.(Oxon.), F.A.S.S.A.  
Graeme Calderwood Schofield, O.B.E., M.D.,  
Ch.B.(N.Z.), D.Phil.(Oxon), F.R.A.C.P.,  
F.R.C.M.A.

**Elected by the students of the  
University**

Susan Elizabeth Armstrong  
Robert John Alexander Elliott  
Candy Celeste Strahan, B.Com.(W.Aust.)

**Elected by the non-academic staff**

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

## REPORT OF THE CHANCELLOR

THE HON. SIR RICHARD EGGLESTON, Q.C., LL.B.,  
Hon.LL.D.(Melb.), F.A.S.S.A.

As is usual, the Monash University Council met on ten occasions in 1982, in the months of March to December inclusive. I chaired seven of these meetings while the Deputy Chancellor, the Honourable Dr J.E. Isaac, chaired the March and April meetings during my absence overseas and the November meeting when I was in Canberra.

There were, as always, a number of changes in the membership of Council during the year and details of these are given in Appendix I. The University is indebted to all those who gave of their time and interest to Council in 1982. Of the ten retiring members, I should mention Mr I.R. Cathie, who resigned from Council in April on being appointed Minister for Housing in the new Victorian Cabinet. Not only did he find time to attend Council meetings in addition to his busy parliamentary duties during the four and a half years of his term on Council, but he was also an active Chairman of our Halls of Residence Committee. At its May meeting, Council noted with deep regret the tragic premature death of Mr S.S. Nevile who was killed in a road accident on 27 April. Sandy Nevile had been a most involved member of Council since 1975 and had endeared himself to the University in that time. His warmth and wisdom will be missed.

Monash lost one of the links with its earliest foundations with the death of Sir Robert Blackwood on 21 August. Sir Robert had been a truly vital force in the establishment and early development of Monash University, having been Chairman of the Interim Council between 1958 and 1961 and Chancellor between 1961 and 1968. A Commemoration was held on 10 September — aptly in the Robert Blackwood Hall — at which eulogies were given by Sir Louis Matheson and Sir Henry Somerset. It was an absorbing and moving tribute to Sir Robert's memory.

Elections were held for the Chancellorship and Deputy Chancellorship at the end of the year to take effect from 7 March 1983. At that time, I will have held office for a little over eight years. It seemed the right time to

stand aside. I am pleased that Dr J.E. Isaac was re-elected for a further term as Deputy Chancellor and that Sir George Lush was elected Chancellor. I have no doubt that the Council will be in good hands under their stewardship and I wish them well for their terms of office.

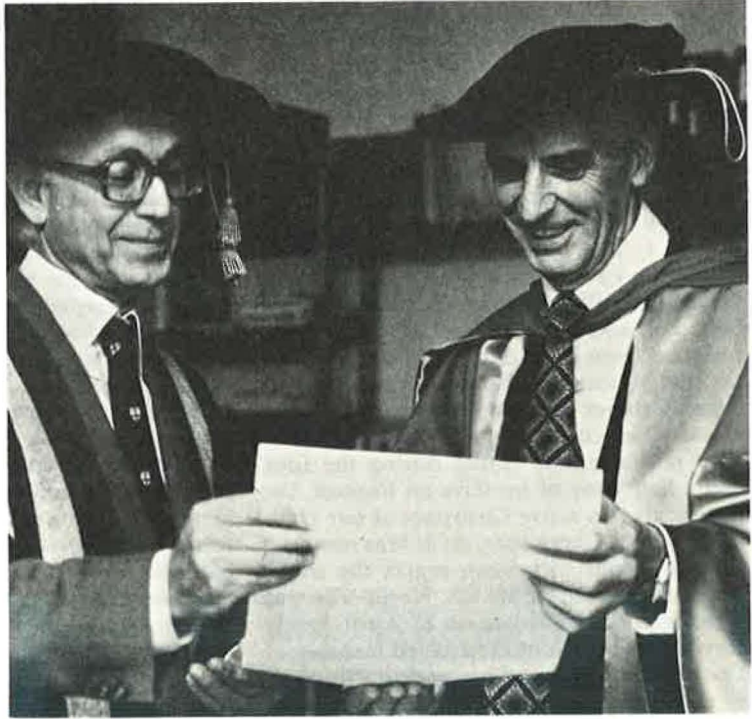
On 16 and 17 August, I attended the AVCC-sponsored Second Conference of University Governing Bodies at the University of Melbourne together with the Deputy Chancellor, Vice-Chancellor, Dr Hutson and Dr Farrer. This was a well-run, thought-provoking conference. As is often the case, as much value was derived from informal discussions with fellow delegates as from the formal proceedings.

In contrast with previous years in which the business of Council has largely been taken up with the broader issues of funding and the role of Government, 1982 saw the emergence of important issues embracing the internal administration of the University, two of which aroused enough students to enable a demonstration to be staged. The first of these involved an inquiry by Council into the funding of the University Health Service to see whether any of the annual expenditure of some \$238,000 could be recouped through the national health scheme. A hostile reaction by the students to this inquiry, while perhaps understandable, was certainly premature, and misjudged the sympathetic mood of Council in accommodating the genuine needs of all users of the Health Service. In the end, it was agreed to maintain the present situation in which the services of the Health Service are free to all students and staff of the University.

The other and much more complex issue involved an application by the Faculty of Engineering to impose a sub-quota of 80 overseas students entering the first year of the Bachelor of Engineering course at Monash University. This represented 27 per cent of the Faculty's approved first-year intake for 1983, and compared with 97 overseas students who commenced first-year Engineering studies in 1982. Council had, some years

The Deputy Chancellor, Dr Joe Isaac, presented the honorary degree of Doctor of Economics to Emeritus Professor Donald Cochrane in March. Emeritus Professor Cochrane (*right*) retired last year as founding Dean of the Faculty of Economics and Politics.

— Photo Rick Crompton



earlier, made enabling legislation to allow such sub-quotas to be imposed, but this was the first application to reach Council seeking to implement this legislation. The debate on this matter lasted some three months and took up a large proportion of the proceedings of both the Professorial Board and Council during this period, as well as generating a great deal of discussion within the student body. And quite rightly so. There can be few issues within any university more important than the criteria by which it selects its students. Discussion was fairly evenly balanced between the idealistic view that none other than academic criteria should govern

the selection of students and the pragmatic view that Monash was the only Engineering School of the five major Australian universities to allow unrestricted entry of overseas students into its courses resulting in Monash having some 30 percent of the total enrolment of overseas engineering students within Australia. In the end, the pragmatic view prevailed, but not before the November meeting of Council had been disrupted by a student demonstration and finally abandoned following an unruly occupation of the Council Chamber by some thirty protesters. As this invasion occurred after Council had, after full discussion, and after hearing a stu-



dent deputation, decided to impose the quota, it was not only futile but tended to dissipate any sympathy for the motives of those involved. While discussion, debate and dissent are part of the traditions of any university, disruption and coercion certainly are not.

At its March meeting, Council congratulated Associate Professor L. McCredie of the Faculty of Law, and Professor E.C. Wood of the Department of Obstetrics and Gynaecology, on being made Companions of the Order of the British Empire in the New Year honours list, while at its July meeting, Council congratulated Professor J.D.C. Crisp of the Department of Mechanical Engineering and Emeritus Professor A.G.L. Shaw on being made a Member and an Officer respectively of the Order of Australia in the Queen's Birthday honours.

At graduation ceremonies during the year, honorary degrees were conferred on the following: Doctor of Science — Arthur John Birch; Doctor of Economics — Donald Cochrane; Doctor of Science — Bernhard Hermann Neumann; Doctor of Laws — Geoffrey Sawyer.

In 1964 I conducted the first Academic Salaries inquiry, in the course of which I visited all the Australian universities then in existence. At Monash I was impressed by the high standards achieved by what was then a very young university. The good opinion I then formed has been enhanced by much closer contact over the past eight years. I leave the Chancellorship knowing that Monash has a reputation for excellence both in Australia and overseas. I hope that this may long continue.



# 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.S.C., F.A.A.

The University entered 1982 with high hopes and an unfaltering commitment to the pursuit of excellence in its teaching and research programs. This resolve was tempered, however, by the grim reality of substantial cut-backs in both recurrent and capital funding and the increasing erosion of the autonomy of universities at both State and Federal levels. It is ironic that much of our effort in the first year of the 1982-84 triennium, was devoted to the preparation of the University's submission to the Universities Council for funding in the 1985-87 triennium — such is the lead-time required for the lengthy decision-making processes which have become an inseparable component of Commonwealth financing of the tertiary education sector. This situation is, however, preferable to the former uncertainties which accompanied the *ad hoc* procedures of rolling triennial funding adopted by the Commonwealth Government between 1976 and 1979 which amounted to little more than annual funding. Indeed, our planning would be more effective if full triennial funding were restored for both capital and equipment allocations.

The University's operating budget for 1982 experienced an abrupt drop of \$1.415M or 2.26 per cent below our 1981 allocation. Coming as it did on top of sustained budgetary pressure since 1975, this substantial cut placed the University in an extremely tight budgetary situation. In addition to increasing costs, incremental creep, and the unwelcome uncertainties of the Government's new procedures for prospective supplementation, we faced a bevy of new charges from the State Government. These included the new 1 per cent surcharge on payroll tax, increases in charges for power, and the increase of Service Incremental Payment Scheme loadings to staff on State Wage Determinations. Capital funding for major maintenance and much-needed new buildings has all but dried up for the university sector and the level of equipment funding, although increased somewhat, still falls well short of our need

to replace outmoded apparatus and to reap the benefits of new technology.

It is in the staffing area that the greatest effects of inadequate levels of funding have been felt. Monash currently has the highest student to staff ratio of all nineteen Australian universities. Some 150 staff were lost between 1981 and 1982 and we are approaching the stage where the quality of teaching and the supervision of research will be under serious threat. It is worrying that the younger staff — the nation's senior academics of the future — are often the most vulnerable since many are on annual or limited-term appointments.

Another area of major concern lies in the encroachment by government into the autonomy traditionally accorded to universities. The University is determined to maintain the creativity and vigour of its teaching and research programs, for which it has achieved world recognition, and these can only be nurtured within an environment which offers independence in decision-making for all matters that can be deemed to be academic. Because our universities are almost wholly funded by the taxpayer, inclining the Government towards intervention, the resolution of this growing conflict is likely to create additional demands on university-government relationships in the coming years. The Senate Inquiry into the Tenure of Academic Staff was of particular significance to tertiary institutions and both the Australian Vice-Chancellors' Committee and the University's Professorial Board have established working parties to examine its report in detail. However, the Inquiry's general endorsement of the concept of tenure and the independence of University staff has met with generally favourable comment. In April of this year, the Ralph Report on the Inquiry into Management Education recommended the establishment of two national management schools, one in Sydney and one at the University of Melbourne. In addition, it recommended the establishment of five regional management

schools including one at Monash. This latter recommendation was not supported by the Victorian Post-Secondary Education Commission which proposed that the mission and functions of the regional school be achieved by the establishment of a Victorian Graduate School of Management based on a consortium of Deakin University, Monash University and the Royal Melbourne Institute of Technology. Monash is justifiably proud of its Master of Administration program which, since 1968, has attracted a high degree of recognition from its graduates and employers alike. The University believes its role envisaged by the Ralph Committee of becoming the centre for part-time management training in Victoria should be implemented. This view has been conveyed to the Minister for Education and the Chairman of the Commonwealth Tertiary Education Commission and the matter remained unresolved at the end of the year.

On a related matter, immediate objections were expressed by the academic community within and outside Australia at the Commonwealth Government's action in refusing to grant visas to two senior Soviet delegates who were invited to participate in the XIIth International Congress of Biochemistry, held in August in Perth. Sustained criticism of this action was channelled through the Australian Vice-Chancellors' Committee and was also expressed from the Australian and international scientific communities. As a result, the government gave an undertaking that, in future, it would issue visas to visiting Soviet scholars attending international conferences in Australia. However, the manipulation of bureaucratic processes in this manner to prevent the free interchange of knowledge is worrying. Similarly, the government's silence surrounding the unsuccessful attempts of Professor Rokuro Hidaka and his wife to obtain visas to accept invitations issued by both La Trobe and Monash Universities is causing ill-feeling within the Australian academic community and must damage our image abroad.

Let me now mention particular individuals who have helped to shape Monash in 1982.

By tradition a festive occasion, the atmosphere of the December Council meeting was tempered by the knowledge that this was the last meeting to be chaired by Sir Richard Eggleston, who steps down as Chancellor in March 1983 after eight years in office. Sir Richard has given Monash most distinguished leadership during this period and his experience, wisdom and great personal qualities will be much missed. It is most fitting that Council agreed to confer upon Sir Richard the degree of Doctor of Laws *honoris causa* at a graduation ceremony in 1983. We were indeed fortunate to secure the services of Sir George Lush, an eminent Justice of the Supreme Court, to succeed to the Chancellorship and I look forward to working with him in the years ahead. Some continuity in the leadership of Council was ensured, I am pleased to say, with the re-election of Dr J.E. Isaac for a further term as Deputy Chancellor. On a sadder note, Monash lost one of the key links with its foundations through the death in August of Sir Robert Blackwood after a long illness. Sir Robert was Chairman of the Interim Council between 1958 and 1961 and the University's first Chancellor up to 1968. Monash mourned his passing with a moving commemorative service, held in the Robert Blackwood Hall. As mentioned in the Chancellor's report, the untimely death of Mr S.S. Nevile, O.B.E., in a road accident on 27 April left a further gap in Council ranks. Mr Nevile had been a member of Council for nearly seven years and had given generously of his time and broad experience to the University.

As foreshadowed in my last report, Professor K.C. Westfold took up his appointment as Deputy Vice-Chancellor at the beginning of the year in succession to Professor W.A.G. Scott. In March, Council appointed Professor M.I. Logan to the position of half-time Pro-Vice-Chancellor. I have been ably assisted by both Professors Westfold and Logan during the year and I am most grate-



ful for the energy, enthusiasm, and imagination they have brought to the Vice-Chancellorate, particularly in overseeing the complex task of preparing our submission to the Universities Council for the 1985-87 triennium. Professor W.A. Sinclair, who holds the Chair of Economic History at Flinders University, takes up appointment as Dean of the Faculty of Economics and Politics on 1 January 1983 in succession to Emeritus Professor D. Cochrane, C.B.E., who retired at the end of 1981 because of ill-health. Professor Cochrane was awarded the degree of Doctor of Economics *honoris causa* at a graduation ceremony in March — the first time this degree has been conferred by the University — and in October, the faculty commissioned his portrait to be painted by Clifton Pugh. Ms M.M. Plant was appointed to the Chair of Visual Arts left vacant following the resignation of Professor A.P. McCaughey to take up the position of Director of the National Gallery of Victoria.

The Chancellor has noted in his report the honours accorded to Monash academics in the New Year honours lists and the Queen's Birthday lists. Other honours and appointments recognise the depth of academic excellence at the University. Professor M.D. Neale, O.B.E., formerly a Professor of Education in the Faculty of Education, was appointed Research Professor (Studies of Exceptional Children) in recognition of her leadership in the study of exceptional children. Dr D. Boger, Reader in Chemical Engineering, was appointed to the Chair of Chemical Engineering at the University of Melbourne, Dr J.L. Keedy, Senior Lecturer in the Department of Computer Science, was appointed to a Chair of Computer Science at the Technical University of Darmstadt, Dr F.P. Larkins of the Department of Chemistry was appointed to the Chair of Chemistry at the University of Tasmania, and Dr D. Black of the same department was appointed Professor of Organic Chemistry at the University of New South Wales. Dr M.J. Kartomi (Music), Dr F.W. Kent (History) and Professor

P. Singer (Philosophy) were elected Fellows of the Australian Academy of Humanities, while Associate Professor M.G. Clyne (German) and Professor J. Head (Economics) were elected to Fellowship of the Academy of Social Sciences in Australia. Dr E.W. Prior (Philosophy) was awarded a Harkness Fellowship and will study at Princeton University.

The Monash University Artist, Mrs Celia Rosser, was presented to the Queen during the Royal visit in October. Mrs Rosser and author Alex George were presented in recognition of their work on the first volume of *The Banksias*, published by Academic Press (London) in association with Monash University, a copy of which was presented to the Queen by the Prime Minister on behalf of the Australian people. Also in the publishing field, the widely-acclaimed biography of Sir John Monash by Dr Geoffrey Serle of our Department of History won first prize in the 1982 National Book Council awards. Dr Serle's award brought not only distinction to himself and the University but helped to focus attention on the life of this remarkable Australian after whom the University is named.

The University's world-wide reputation in research continues to grow. While important and valuable research work is being conducted in many fields, one development commanded special attention this year. A Monash research team, led by Professor A.W. Linnane, F.R.S., and Dr G.C. Woodrow of the Department of Biochemistry, succeeded in cloning three interferon genes and boosted hopes for an eventual cure for some forms of cancer. This exciting development puts Monash in the forefront of world interferon research. Medical research at Monash received further endorsement during the year in the form of increased support from the National Health and Medical Research Council which allocated grants totalling \$1,383,349 to new and continuing projects — an increase of 47.2 per cent over the N.H. & M.R.C. allocation for 1981. A major accomplishment was achieved during the year

The Governor of Victoria, Rear Admiral Sir Brian Murray, paid his first visit to Monash — as Visitor of the University — for a graduation ceremony in May. He is pictured (*centre*) with the Chancellor, Sir Richard Eggleston (*left*), and the Vice-Chancellor, Professor Ray Martin.

—Photo *Tony Miller*



by the Baker Medical Research Institute — an affiliate of both Monash University and the Alfred Hospital, and Australia's largest cardiovascular research centre — with the award of a five-year Block Institute Grant by the N.H. & M.R.C. This is only the third award of this type that has ever been made to a medical research institute; the other two institutes being the Walter and Eliza Hall Institute and the Howard Florey Institute. During 1982, Council approved the entering into of affiliation agreements between the University and the Moorabbin Hospital, the Victorian Academy for General Practice Limited, and the Veterinary Research Institute. It is also expected that Monash will affiliate with the Epworth Hospital early in 1983.

Such affiliations enable wider teaching and research activities and in this case will lead to a diversification of the teaching and research activities in our Faculty of Medicine. Monash's continuing dominance in the area of *in vitro* fertilisation and egg transfer research culminated in the establishment in May of an inquiry by the State Government into the social, ethical, and legal issues raised in relation to such programs — questions which were addressed at a public conference in March sponsored by the Monash Centre of Human Bioethics. The complex issues which are raised by developments in this exciting field of medicine will, I am sure, receive comprehensive and sympathetic evaluation by the Committee of Inquiry which is chaired by the



Victorian Law Reform Commissioner, Professor P.L. Waller, who is currently on leave from the Monash Law School.

During the year, the University's research program benefited from generous support by the Commonwealth and State Governments and from private industry in the three notable instances. The Monash Centre of Policy Studies was selected as one of ten Commonwealth Special Research Centres announced in January. It will attract \$1.2M for the 1982-84 triennium under the 'centres of excellence' scheme, now known officially as the Program for the Promotion of Excellence in Research. This is a great tribute to the Centre which was established in late 1979. Under the inspiring leadership of Professor M.G. Porter, it has quickly built its reputation as a major centre for the study of key economic, social, and political issues facing Australia. I hope that the government will continue to realise the benefits of backing excellence in local research and extend its program in support of other worthy areas of endeavour at this and other Australian universities. In another welcome initiative, the Victorian Health Commission agreed to fund a second Monash Chair of Psychological Medicine to be established at the Royal Park Psychiatric Hospital. The Government's action in this matter represents a substantial endowment and will enable the University to provide further much-needed research into the care and rehabilitation of the mentally disabled in Victoria. I hope this is the first of many such ventures in which the government and University can co-operate. Finally, Monash University and the British Petroleum Company Limited have embarked on a major collaborative research project aimed at exploring a promising alternative method of converting brown coal into liquid fuels. The research, which will be conducted in the Department of Chemistry under Professor W.R. Jackson, will be funded by B.P. Limited to the extent of \$450,000 over three years. The benefits to the nation of closer contact between universities and industry are sub-

stantial and further collaborative projects of this kind must be fostered.

The long-awaited relocation of the Queen Victoria Medical Centre to its new site in Clayton moved closer to commencement when the Minister announced that site works would commence in February 1983. The University has waited many years for some real action on this project and, although some questions remain unanswered with regard to the funding of the new clinical school building, it welcomes the Government's enthusiasm for proceeding with the project. On campus, two building projects will add significantly to our facilities. Hopes that the swimming pool would be opened in March were dashed by delays caused by a number of minor problems and technical faults. It was finally opened in November and is already proving a popular venue for students, staff and the surrounding community. The facilities include a 25 metre pool and adjoining leisure pool, saunas, spa, sundeck, and refreshment area. The whole complex cost \$1.3M and was financed out of non-government Union funds. Its opening coincided with the designation of Monash as the nation's first 'Life. Be In It' university reflecting the wide range of recreational activities and facilities Monash offers to the general public as well as its students and staff. Late in the year, planning commenced for the building of a Japanese Studies Centre on the Monash campus. The construction of a permanent home for this Centre has been financed by donations from the Commemorative Association for the Japan World Exposition, the Japanese car firm, Toyota, and from local funding bodies including the Australia-Japan Foundation, The William Buckland Foundation, and C.R.A. Limited. The Centre is a joint undertaking involving Monash, the University of Melbourne, La Trobe University and Swinburne Institute of Technology and will provide a valuable focus in Victoria for Japanese studies.

On 25 February, the former South Australian premier, Mr Don Dunstan, delivered the 7th Oscar Mendelsohn lecture on the



topic 'The Social Necessity of Rebellion'. It was an apt theme given the turbulent times of this University. In recent years, the sounds of dissent on campus have been much muted, although the year saw several issues which raised the ire of some students. In his report, the Chancellor mentioned two of the more difficult internal issues which came before Council and caused student dissent — the funding of the University Health Service and the imposition of a sub-quota for overseas students in the first year of the Bachelor of Engineering course. I will not enlarge further on the Chancellor's comments except to say that in both cases Council's sympathy for the students' point of view was threatened by ill-informed and unruly acts of defiance by a minority of the student protesters. Later in the year, in a much more responsible manner, the Union Board pressed persuasively for the University to allocate additional funds in support of childcare facilities on campus for student parents. While few would argue against this issue on principle, it does raise the complex question of whether University funds should be used to support or subsidise sectional groups on campus. In the past, Council has always taken the view, and I believe quite rightly so, that the University's resources should be used in the best interests of the University as a whole. There is, of course, an equally important parallel consideration which becomes particularly apparent in these days of dwindling resources — all such calls for the support of peripheral activities on campus, no matter how compel-

ling, draw funds away from the central teaching and research functions of the University. On a less contentious note, Council approved the institution of a special orientation year for mature Aboriginal students. Described as an attempt 'to break out of a cycle of educational disadvantage at the tertiary level' the scheme is unique in an Australian university and will operate alongside the Monash Early Leavers' Scheme as a path by which Aboriginal students can make a successful transition to university. This program is pre-tertiary in its scope and will be entirely funded from external sources.

Monash opened its doors to prospective students and their parents on Sunday 1 August, for our Careers and Counselling Day which now alternates with our more traditional and community-orientated Open Day. Judging from the attendance figures and the enthusiasm shown by the next generation of tertiary students, there should be no shortage of eager takers for the places available in the coming years. This is not only a measure of the respect with which Monash is now regarded in the community, but justifies the decision of our early planners in locating the second Victorian university close to the then expected population centre of greater Melbourne.

In terms of the quality of its staff and students, Monash looks to the future with confidence provided the University can be accorded a level of resources and independence sufficient to develop fully their collective potential.

# DEVELOPMENT AND ADMINISTRATION

## Site and Buildings

In 1982, construction commenced on the Large Animal House, the Japanese Study Centre, and the complete renovation of the Anatomy Animal House, with completion expected in 1983. Construction projects completed in 1982 included the extensions to Engineering Building 6, and the Robert Blackwood Hall, four additional plexipave tennis courts and the Swimming Pool.

Funds for minor building works, site works and services in 1982 were applied to the provision of additional lighting for carparks, roads and paths, general road resurfacing, the connection of three additional buildings to the Central Control Monitoring System, the implementation of the first stages of the University Sign System and the upgrading of the Computer Centre Air Conditioning System, with contributions towards the Large Animal House and Anatomy Animal House renovation projects.

## Legislation

Four amending Statutes and thirty-two new or amending Regulations were made by Council in 1982. Included in these were major revisions of the Regulations for Degrees of Bachelor of Arts, Bachelor of Social Work and Bachelor of Engineering. Extensive amendments were also made to the Admission to Courses Regulations and the Matriculation Regulations.

## University Publishing

Four meetings of the Monash University Publications Committee were held during the year. The Committee found itself called upon to consider a far wider variety of publications seeking subsidy than had previously been submitted, perhaps reflecting the growing difficulties faced by authors in achieving publication. The Committee also noted an increasing number of requests from Monash authors for publishing advice, particularly in the area of publishing contracts and neg-

otiations. The breadth and variety of the work reinforced the need for the Committee members and the Secretary to maintain close contact with publishing houses and to be aware of publishing trends.

In an effort to level the wide variations in work flow through the Publications section and, in some small way, to avoid the inevitable major cost increases in the printing trade over the next few years, it was proposed that a typesetter be introduced for the exclusive use of the Section. This would have enabled a continuous preparation of some of the official publications and have avoided, in part, the impact of continual increase in material and labour costs in the typesetting industry. However, since the volume of work handled at peak periods is too great for one typesetter, the proposal foundered on a cost benefit analysis. Partly as a result of this decision, the Publications Officer sought leave — and was granted — to go to a part-time appointment. This has resulted in unexpected benefits to the University since the greater flexibility in working hours has enabled her to reaffirm and pursue contact with Australian publishers and to be more rapidly attuned to shifts in publishing trends and personnel.

The official publishing program remained at a steady ten publications for the year. The initial savings incurred by the conversion to phototypesetting in 1979-80 have now been absorbed in the ever-rising printing costs. In the face of static budget provisions the task of producing the essential and required University publications is becoming ever more difficult.

## Safety

Satisfactory standards of safety and radiation protection were maintained throughout 1982. Nevertheless the lessons and recommendations arising from the investigation of a few serious incidents were widely circulated.

Sprain and strain injuries, mainly from slips, trips and falls, and lacerations from handling glass and sharp objects, were two common causes of minor injuries.

Safety on University roads remains a matter of concern. A comprehensive traffic management and road safety survey is being conducted on behalf of the University Safety Committee by the Department of Civil Engineering Traffic Group.

The emergency vehicle was again of considerable value. It responded to forty-two calls and was used on thirty-eight occasions to assist in the care and transport of patients and casualties following twenty-six medical incidents and twelve accidents. In all, twenty students, twelve staff members and six visitors were assisted in this way. One patient only was taken to hospital in the vehicle.

In radiation protection, the major effort in complying with the criterion that radiation doses received by workers be kept as low as reasonably achievable has continued. This has been applied to the two major areas of external radiation dose as monitored by film badges and internal thyroid dose from ingested radioactive iodine as measured by the Radiation Protection Officer's thyroid mon-

itor. Interest in a cost-effective and simple thyroid monitor was indicated by the number of visitors in 1982 including a health physicist from Thailand. Training of new users of ionizing radiation has continued with lectures, films and demonstrations in departments in the Faculties of Science and Medicine including downtown departments in the teaching hospitals. The disposal of low level radioactive waste in 1982 continued the trend of previous years, one of steady increase in the volume of both radioactive solvents and solid material. The assistance of government agencies such as the Division of Industrial Hygiene of the State Health Department and the Australian Radiation Laboratory in providing material, monitoring services and loans of monitoring equipment is gratefully acknowledged.

During 1982 some legislation which will affect safety and radiation protection in the University was introduced or was revised. The Safety Committee is preparing reports on the legislation for review early in 1983.



## STAFF

The recruitment of academic staff in 1982 remained at the low level of recent years. 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's staffing pattern and figures in

this report are given in terms of full-time equivalent staff, i.e., including fractional staff rather than full-time staff only.

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 1982 was:

	Professor	Assoc. Professor, Reader	Senior Lecturer	Lecturer, Teaching Registrar	Principal Tutor	Senior Tutor	Tutor	Total
Arts	21	18	86	35	4	8	37	209
Economics and Politics	12	10	31	38	2	5	32	130
Education	6	3	28	14	2	4	3	60
Engineering	9	14	41	10	—	10	1	85
Law	6	6	26	9	—	14	3	64
Medicine	20	15	61	23	1	26	6	152
Science	21	29	77	15	1	8	15	166
Other	—	2	—	3	—	1	—	6
Totals	95	97	350	147	10	76	97	872

The pattern of teaching-staff recruitment in 1982 was:

	Continuing Appointment	Fixed Term	Short Term or Temporary
Professors	4	—	—
Senior Lecturers	2	—	2
Lecturers	4	4	10

and 23 Senior Tutors and 52 Tutors, many of the last being employed on a fractional basis, took up their first appointments in 1982. Those leaving the University in the year due to resignation, retirement or expiry of fixed- or short-term appointments were:

	Continuing	Fixed Term	Short Term or Temporary
Professors	1	—	—
Readers	1	—	—
Associate Professors	2	—	—
Senior Lecturers	12	1	5
Lecturers	3	7	6

and 25 Senior Tutors and 46 Tutors.

At the beginning of 1982, Professor P.J. Fensham commenced a five-year term as Dean of the Faculty of Education, at which time the former Dean, Professor P.W. Musgrave, returned to a Chair in the Faculty. Professor W.A. Sinclair was appointed Dean of the Faculty of Economics and Politics in 1982, but will not take up duty until 1983. During 1982, Professor K.C. Westfold, most recently Professor of Astronomy, was appointed Deputy Vice-Chancellor.

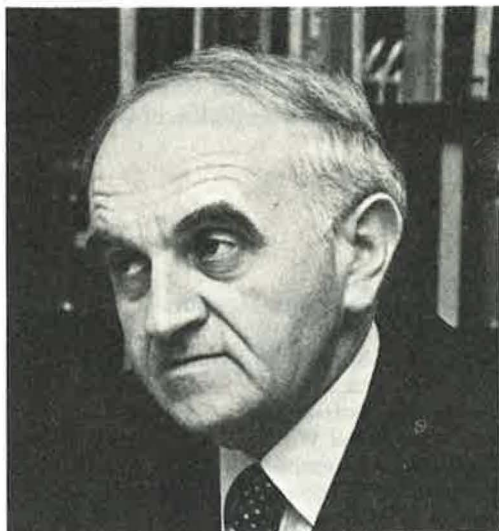
Those appointed to Chairs during 1982 were Professor G.J. Davison, History; Professor M.M. Plant, Visual Arts; Professor C.T. Probyn, English; and Professor R.V. Short to a Personal Chair of Reproductive Biology.

Academic staff employed solely for research projects, expressed in full-time equivalent staff, comprised 39 Research Fellows and Officers and 160 Research Assistants.

With a strength of 2,925 total equivalent staff at end April 1982, total staffing remains at approximately the same level as for the past four years.

Professor Louis Waller took two years' leave of absence from Monash, where he holds the Sir Leo Cussen Chair of Law, to take up duties as Victoria's third Law Reform Commissioner.

— Photo *Tony Miller*



The 1981 distribution of staff over the various fields of activity was:

		Total
Teaching and Research		
Teaching Staff	970	
Support Staff	685	1655
Research		
Academic Staff	199	
Support Staff	79	278
Library		181
Computing		57
Other Academic Services		42
Student Services		21
Central Administration		202
Buildings, Grounds, Cleaning, and Central Services		239

Continuing Education	10
Independent Operations —	
Student Union,	
Bookshop, etc.	238

The University records with regret the deaths of Dr E. Elbing, Mr L.E.V. Keeler and Mrs G.L. Kopievsky.

At the end of 1982, Professor W. Ironside retired and was granted the status of Emeritus Professor and Professor H.W. Garlick retired at the end of his part-time appointment.

The University remains within the C.T.E.C. 7 per cent limit for staff undertaking Outside Studies Programs.



# ACADEMIC DEVELOPMENTS

## Degrees and Diplomas conferred

The following degrees and diplomas were conferred by the University at graduation ceremonies in 1982, the final column indicating the total number of degrees and diplomas awarded since the foundation of the University.

	1982		1961-82	
	Male	Female	Total	Total
Bachelor of Arts	151	366	517	8,251
Bachelor of Arts with Honours	33	36	69	1,363
Bachelor of Social Work	5	15	20	40
Bachelor of Social Work with Honours	3	13	16	163
Master of Arts	18	14	32	308
Master of Librarianship	4	4	8	16
Master of Social Work	2	—	2	6
Bachelor of Economics	244	125	369	4,879
Bachelor of Economics with Honours	18	3	21	495
Master of Administration	36	6	42	364
Master of Economics	10	—	10	146
Bachelor of Education	42	48	90	1,519
Bachelor of Special Education	4	4	8	169
Master of Education	29	13	42	358
Master of Educational Studies	26	28	54	118
Bachelor of Engineering	59	3	62	997
Bachelor of Engineering with Honours	78	5	83	1,197
Master of Engineering Science	26	1	27	227
Bachelor of Jurisprudence	15	8	23	1,020
Bachelor of Laws	134	57	191	2,026
Bachelor of Laws with Honours	5	2	7	143
Master of Laws	16	2	18	124
Bachelor of Medical Science	—	—	—	12
Bachelor of Medical Science with Honours	6	1	7	132
Bachelor of Medicine, Bachelor of Surgery	75	35	110	1,643
Bachelor of Medicine, Bachelor of Surgery with Honours	24	15	39	491
Master of Psychological Medicine	—	—	—	1
Master of Surgery	—	—	—	2
Bachelor of Science	159	100	259	3,556
Bachelor of Science with Honours	126	61	186	2,141
Master of Environmental Science	13	3	16	113
Master of Science	17	4	21	290
Doctor of Philosophy — Arts	6	6	12	167
— Economics	4	—	4	26
— Education	6	2	8	70
— Engineering	20	2	22	218
— Law	1	—	1	20
— Medicine	6	3	9	87
— Science	36	4	40	671

Doctor of Medicine	4	—	4	29
Doctor of Science	—	—	—	10
Honorary Master of Science	—	—	—	4
Honorary Doctor of Letters	—	—	—	10
Honorary Doctor of Economics	1	—	1	1
Honorary Doctor of Engineering	—	—	—	7
Honorary Doctor of Laws	1	—	1	32
Honorary Doctor of Medicine	—	—	—	5
Honorary Doctor of Science	2	—	2	11
Total Degrees	1,465	989	2,454	33,678

			1982 Total	1961-82 Total
Diploma in Commercial Law	6	—	6	21
Diploma in Computer Science	6	2	8	21
Diploma in Education	103	132	235	6,049
Diploma in Educational Psychology	6	28	34	178
Diploma in Engineering Geology	—	—	—	8
Diploma in English	1	7	8	23
Diploma in Family Law	2	3	5	5
Diploma in Immunology	4	3	7	15
Diploma in International and Comparative Law	—	—	—	1
Diploma in Japanese Studies	2	—	2	5
Diploma in Librarianship	1	4	5	13
Diploma in Linguistics	1	—	1	4
Diploma in Materials Engineering	—	—	—	1
Diploma in Microbiology	—	—	—	4
Diploma in Migrant Studies	1	—	1	22
Diploma in Operations Research	4	4	8	19
Diploma in Slavic Languages	—	—	—	1
Diploma in Taxation Law	9	—	9	10
Total Diplomas	146	183	329	6,400

**1982 annual examination pass rates**

There has been a continuation of the high percentage of first year full time students passing examinations. 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.

Group (a)	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Arts	85	87	88	83	87	86	87	84	84	88
Economics and Politics	87	85	80	75	83	85	82	83	80	81
Law	88	92	94	91	90	93	97	92	95	90
Science	87	84	87	85	80	83	86	87	88	91
Group (b)										
Diploma in Education*	97	95	95	95	95	98	87	93	95	93
Engineering	76	64	64	67	71	73	74	75	83	80
Medicine	98	95	90	99	95	95	88	92	92	92

For the purposes of this table, students are regarded as having passed in:

Group (a) if they 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 they 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.

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\*Calculated from enrolments in Diploma in Education and Diploma in Educational Psychology.

# STUDENT ENROLMENT

The net total undergraduate population increased from 10,459 in the previous year to 10,566, an increase of 1.0 percent. Graduate enrolments increased from 2,375 to 2,472 and total enrolments of all students from 14,161 to 14,221. Full details of enrolments are given in the table below.

Of the total of 14,221 students, 1,757 (12.4 percent of the total) were from overseas as follows: *Oceania* — Papua New Guinea 7, Fiji 6, Nauru 1, New Zealand 8, Tonga 1, other Pacific Islands 1; *Africa* — Ghana 2, Malawi 2, Mauritius 6, Nigeria 2, South Africa 3,

Zimbabwe 4, Tanzania 4, Uganda 4, Zambia 2, other Africa 1; *America* — Canada 6, USA 15, South America 2; *Asia* — Brunei 3, Cyprus 1, Hong Kong 68, India 11, Malaysia 1,378, Singapore 62, Sri Lanka 25, Israel 2, other Middle East 3, Bangladesh 7, Burma 1, Cambodia 1, China 4, Indonesia 26, Japan 21, Korea 6, Pakistan 2, Philippines 3, Taiwan 4, Thailand 19, Turkey 1, Vietnam 3; *Europe* — UK and Eire 10, France 2, Germany 5, Malta 2, Netherlands 1, USSR 2, other Europe 6. A total of 1027 males and 730 females.

## Net Enrolments by Degree/Faculty 1982 (as at 30 April)

Faculty and year	Full-time			Part-time			Total		
	M	F	T	M	F	T	M	F	T
<b>Higher degree</b>									
Higher Doctorate	5	—	5	12	—	12	17	—	17
Ph.D.	293	127	420	137	57	194	430	184	614
Master	212	121	333	978	530	1,508	1,190	651	1,841
<b>TOTAL</b>	<b>510</b>	<b>248</b>	<b>758</b>	<b>1,127</b>	<b>587</b>	<b>1,714</b>	<b>1,637</b>	<b>835</b>	<b>2,472</b>
<b>Master preliminary</b>	<b>23</b>	<b>16</b>	<b>39</b>	<b>31</b>	<b>46</b>	<b>77</b>	<b>54</b>	<b>62</b>	<b>116</b>
<b>Postgraduate diplomas</b>									
Arts:									
Dip.Engl.	2	2	4	3	6	9	5	8	13
Dip.Gen.&Comp.Lit	—	—	—	—	1	1	—	1	1
Dip.Jap.Stud.	—	—	—	—	2	2	—	2	2
Dip.Libr.	—	2	2	3	10	13	3	12	15
Economics & Politics:									
Dip.Ops.Res.	4	7	11	8	2	10	12	9	21
Education:									
Dip.Ed.	118	128	246	32	46	78	150	174	324
Dip.Ed.Psych.	8	11	19	17	38	55	25	49	74
Law:									
Dip.Com.Law	4	1	5	14	1	15	18	2	20
Dip.Int.&Comp.Law	—	—	—	2	—	2	2	—	2
Dip.Tax Law	4	—	4	31	1	32	35	1	36
Dip.Fam.Law	—	—	—	3	7	10	3	7	10
Medicine:									
Dip.Micro.	—	—	—	—	1	1	—	1	1
Dip.Imm.	2	3	5	—	—	—	2	3	5
Science:									
Dip.Comp.Sc.	—	—	—	4	—	4	4	—	4
Dip.Eng.Geol.	—	—	—	1	—	1	1	—	1
<b>TOTAL</b>	<b>142</b>	<b>154</b>	<b>296</b>	<b>118</b>	<b>115</b>	<b>233</b>	<b>260</b>	<b>269</b>	<b>529</b>

**Net Enrolments by Degree/Faculty 1982 (as at 30 April) (continued)**

Faculty and year		Full-time			Part-time			Total		
		M	F	T	M	F	T	M	F	T
<b>Postgraduate</b>										
<b>Bachelor degrees</b>										
Education:										
B.Ed.		8	6	14	68	90	158	76	96	172
B.Sp.Ed.		—	8	8	12	82	94	12	90	102
TOTAL		8	14	22	80	172	252	88	186	274
<b>Bachelor degrees</b>										
Arts B.A:	I	291	553	844	77	276	353	368	829	1,197
	II	174	390	564	65	221	286	239	611	850
	III	179	400	579	104	301	405	283	701	984
	IV	37	42	79	3	28	31	40	70	110
	Sub-total	681	1,385	2,066	249	826	1,075	930	2,211	3,141
Arts B.Soc.Wk:	III	5	36	41	—	—	—	5	36	41
	IV	10	34	44	—	—	—	10	34	44
	Sub-total	15	70	85	—	—	—	15	70	85
Economics & Politics:	I	220	146	366	24	10	34	244	156	400
	II	226	167	393	61	17	78	287	184	471
	III	313	206	519	182	57	239	495	263	758
	IV	18	10	28	—	—	—	18	10	28
	Sub-total	777	529	1,306	267	84	351	1,044	613	1,657
Engineering:	I	267	25	292	1	—	1	268	25	293
	II	243	21	264	2	—	2	245	21	266
	III	203	12	215	10	—	10	213	12	225
	IV	136	12	148	1	—	1	137	12	149
	Sub-total	849	70	919	14	—	14	863	70	933
Law: LL.B.	I	—	—	—	1	4	5	1	4	5
	II	—	1	1	9	5	14	9	6	15
	III	11	14	25	18	15	33	29	29	58
	IV/V	43	24	67	38	18	56	81	42	123
	Sub-total	54	39	93	66	42	108	120	81	201
Law: B.Juris./LL.B.	I	12	11	23	2	1	3	14	12	26
	II	4	—	4	6	2	8	10	2	12
	III	13	10	23	4	3	7	17	13	30
	IV/V	40	19	59	13	5	18	53	24	77
	Sub-total	69	40	109	25	11	36	94	51	145
Law: B.Juris.	III	3	—	3	1	3	4	4	3	7
	Sub-total	3	—	3	1	3	4	4	3	7

**Net Enrolments by Degree/Faculty 1982 (as at 30 April) (continued)**

Faculty and year		Full-time			Part-time			Total		
		M	F	T	M	F	T	M	F	T
Law/Arts:	I	28	51	79	—	—	—	28	51	79
	II	37	60	97	1	4	5	38	64	102
	III	64	68	132	4	4	8	68	72	140
	IV/V	98	109	207	12	13	25	100	122	232
	Sub-total	227	288	515	17	21	38	244	309	553
Law/Economics and Politics	I	37	24	61	—	2	2	37	26	63
	II	75	25	100	—	—	—	75	25	100
	III	82	27	109	4	2	6	86	29	115
	IV/V	156	41	197	23	5	28	179	46	225
	Sub-total	350	117	467	27	9	36	377	126	503
Law/Science:	I	6	5	11	—	—	—	6	5	11
	II	16	8	24	—	—	—	16	8	24
	III	23	15	38	1	2	3	24	17	41
	IV/V	26	6	32	3	1	4	29	7	36
	Sub-total	71	34	105	4	3	7	75	37	112
Medicine: M.B.,B.S.	I	99	69	168	—	—	—	99	69	168
	II	97	66	163	—	—	—	97	66	163
	III	102	63	165	—	—	—	102	63	165
	IV	93	67	160	—	—	—	93	67	160
	V	92	58	150	—	—	—	92	58	150
	VI	99	51	150	—	—	—	99	51	150
	Sub-total	582	374	956	—	—	—	582	374	956
Medicine: B.Med.Sc.		6	5	11	—	—	—	6	5	11
	Sub-total	6	5	11	—	—	—	6	5	11
Science:	I	334	278	612	11	10	21	345	288	633
	II	334	85	619	53	31	84	387	316	703
	III	273	241	514	63	50	113	336	291	627
	IV	120	96	216	2	1	3	122	97	219
	Sub-total	1,061	900	1,961	129	92	221	1,190	992	2,182
Science/Engineering: B.Sc./B.E.	I	56	7	63	—	—	—	56	7	63
	II	11	—	11	—	—	—	11	—	11
	III	6	—	6	—	—	—	6	—	6
	IV	—	—	—	—	—	—	—	—	—
	Sub-total	73	7	80	—	—	—	73	7	80
TOTAL		4,818	3,858	8,676	799	1,091	1,890	5,617	4,949	10,566



**Net Enrolments by Degree/Faculty 1982 (as at 30 April) (continued)**

Faculty and year	Full-time			Part-time			Total		
	M	F	T	M	F	T	M	F	T
Not for Degree	15	5	20	112	132	244	127	137	264
Total other than higher degree	5,006	4,047	9,053	1,140	1,556	2,696	6,146	5,603	11,749
Total net enrolments	5,516	4,295	9,811	2,267	2,143	2,410	7,783	6,438	14,221

**Total Net Enrolments at 30 April 1982: 14,221**



Higher degree 17.4%

Graduate diploma 3.7%

Miscellaneous & Masters Preliminary 2.7%

Bachelor degree 76.2%

## Faculty of Arts

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

### Student Enrolments

In 1982 the faculty, having exceeded its 1981 target by 45 equivalent full-time students (E.F.T.S.), was faced with the task of attempting to trim its enrolments so as to come within a reduced E.F.T.S target of 3,035. The undergraduate load, in fact, was almost exactly as planned on 30 April 1982 (2,530 E.F.T.S. — 10 in excess of target); however, an increased higher degree figure meant that the overall target was again exceeded, this time by 69 E.F.T.S. It has become clear that, for the first time, the faculty will have to exercise some control over higher degree numbers. Though it has decided, over the next few years, to increase its HD load from 515 (the planned figure for 1982) to approximately 600, and to reduce its undergraduate load accordingly, it may still be necessary in 1983 and 1984 to introduce a selection process for the admission of M.A. and Ph.D. candidates.

During the course of 1982 the problem of containing student load within the limits set by the C.T.E.C. was considered against the background of University deliberations about the desirable distribution of students between laboratory and non-laboratory areas. In the light of a decision to allow an increase in Science and Engineering enrolments, the faculty has accepted a further reduction of E.F.T.S. to 3,020 in 1983 and 2,905 in 1984, a reduction which, of course, is likely to be accompanied by a significant increase in the cut-off point for N-type enrolments. Consideration of these questions has recognised advantages and disadvantages for the faculty. A smaller intake should result in a higher minimum standard for undergraduate entry and will relieve, to some extent, the pressures at present placed on an academic staff whose numbers have been sharply reduced as a result of the financial cuts of the last few years. At the same time doubts have been expressed

about the accuracy of the Anderson score in predicting University performance and it has been argued that the general education offered by a Faculty of Arts should be available to as many as possible of those who can satisfy matriculation requirements.

### Staff

Academic staff numbers were maintained in 1982 after the reductions made in previous years. However, at the beginning of 1982 a redeployment of clerical staff was carried out as positions fell vacant. In all, nine clerical positions were saved and these provided salary savings which were devoted to the purchase of three word processors for the faculty.

Three new professors took up their positions during the course of the year: Professor Graeme Davison in History, Professor Margaret Plant in Visual Arts and Professor Clive Probyn in English.

Professor M.I. Logan took up a 0.5 appointment as Pro-Vice-Chancellor and Associate Professor J.S. Whitelaw has been appointed as Chairman of the Department of Geography during the period of Professor Logan's Pro-Vice-Chancellorship. Professor M.C. Ricklefs was elected to a Visiting Fellowship at All Souls' College, Oxford. Dr F.W. Kent, of the Department of History, and Professor Peter Singer, of the Department of Philosophy, were elected Fellows of the Academy of the Humanities and Associate Professor Michael Clyne was elected a Fellow of the Academy of the Social Sciences in Australia. Dr K.B. O'Connor of the Department of Geography has been seconded to the Department of Economic Development, Government of Victoria, for a period of two years.

The Department of English enjoyed the presence of two Chinese scholars who came to Monash under the Australia-Chinese Ex-

Professor Margaret Plant was appointed to the Chair of Visual Arts early in the year.

— Photo Adrian Featherston



change Scheme: Wang Yue-Xi (Beijing Language Institute) and Huang Guangda (Foreign Languages Institute Xizn) and Yupin Hanvatananukul of Thammasat University, Thailand, who was a lecturer on a cultural exchange with Monash.

Mr W.L. Dale, Senior Lecturer in Geography, retired at the end of the year after 18 years' service. Ms Rahda Rasmussen of the Department of Librarianship was promoted to a Senior Lectureship. Dr Elizabeth Prior of the Department of Philosophy was awarded a Harkness Fellowship, to be taken up at the end of 1983.

### **Undergraduate Studies**

During the year the faculty completed the review of the Bachelor's degree which it began in 1981. In the event no fundamental changes were made to regulations but the faculty agreed to encourage certain developments within the existing framework. In particular, it was decided to encourage interdisciplinary experiment. A new first year course, 'Text and Content', planned by the Centre for General and Comparative Literature, is one example of this type of development and consideration is being given to



ways in which similar initiatives may be developed.

The course in Modern Greek, introduced under the Australian Government's community languages scheme, opened in first term. There were some teething difficulties. The funds made available by the C.T.E.C. did not permit the appointment of a lecturer to the Monash campus as we had hoped, and indeed staffing difficulties meant that on-campus teaching could not begin until second term. In the second half of the year, however, two staff members were available to take classes at Monash, and in 1983 it is expected that a lecturer and a tutor will be in residence at Monash for three days a week each throughout the year.

During the year discussions were held with representatives of the University of Melbourne and La Trobe University about further possible cooperation between the three campuses in the field of language teaching. It is likely that Melbourne and La Trobe will cooperate in the teaching of French and that there will be sharing of responsibilities between Monash and Melbourne in Indonesian and Malay and Russian. The present proposal is that Monash will assume responsibility for fourth year honours work in Indonesian, and that Melbourne will be responsible for the third year of a Russian major and for honours work in Russian while Monash will offer comparative studies in Slavic Languages and Linguistics in third and fourth years. This complementary arrangement follows naturally on the faculty's earlier decision to change the name of the Department of Russian to the Department of Slavic Languages and to emphasise, in third and fourth years, comparative Slavic studies.

The French Study Abroad program in New Caledonia was expanded during the year and the University of Melbourne joined the scheme which had formerly been operated by Monash, La Trobe and the University of Adelaide. The Department of French has also engaged with La Trobe and Melbourne in a joint project, supported by the A.R.G.S., to inquire into the possibilities offered by new

technology for computer-assisted language teaching.

The Department of Social Work prepared a submission to be made to the current V.P.S.E.C. inquiry into Social Work in Victoria. The submission sees the department as meeting Social Work training needs in the eastern and south-eastern metropolitan area and emphasises the fact that the demand for places far exceeds the quota for admission.

### Research and Graduate Studies

During the year 42 students completed the requirements for the degree of M.A. and 11 students, enrolled in Arts departments, completed the requirements for the degree of Ph.D.

The Centres for Migrant Studies and Southeast Asian Studies continued their seminar and graduate supervision programs and the Centre for Human Bioethics expanded its activities. The publicity attendant upon the in vitro fertilisation work of the Faculty of Medicine gave an added stimulus to its program and was the subject of discussion at an unusual seminar in August when the Dalai Lama was the principal guest.

The scholarly journals, the *Australian Journal of French Studies*, the *Journal of Intercultural Studies* and *Ramus* have continued. The Centre for Southeast Asian Studies produced two monographs and two working papers, the Department of Social Work published the second in its monograph series, and the Centre of Migrant Studies produced *Prejudice in Print*, the proceedings of a seminar on that subject.

Amongst the extensive individual publications of members of the faculty it may be appropriate to draw attention to two distinctive items. Geoffrey Serle's biography of Sir John Monash was launched by the Governor-General, Sir Zelman Cowen, on 4 May 1982, and has since been given an Australian Book Award and was selected as the *Age* Book of the Year. Dr Stuart Duncan's *Atlas of Victoria* was launched in September by the Premier, Mr John Cain.



### **Monash Orientation Scheme for Aborigines**

The University has adopted a proposal, submitted by the faculty in conjunction with the Faculty of Law, for an orientation year for Aboriginal students. The scheme has been approved subject to funds being provided from outside the University. The object of the scheme is to accelerate access by Aboriginal people to University qualifications, thereby increasing Aboriginal participation in the professions, public service, management and community leadership. The scheme will offer Aboriginal students a full academic year of specific preparation for University study, thereby bridging the gap which frequently exists between the level attained by Aboriginal students and that expected of first year University students. Students who complete the orientation year successfully at an appropriate level will be guaranteed first year places in the Faculties of Arts and/or Law.

### **Conferences**

In May the 4th Conference of the Asian Studies Association of Australia brought approximately 500 delegates to Monash, including visitors from China, Japan, Southeast Asia and India. Papers covered a wide range of subjects. In association with the Conference, the National Gallery of Victoria organised an exhibition, 'Palm Leaf and Paper', of illustrated manuscripts of India and Southeast Asia and the Monash Gamelan Orchestra presented a concert.

In June, the Department of German, in conjunction with the German Department of the University of New South Wales, held a Conference on 'Tendenzwende', the change in the cultural climate of the mid-seventies in Germany. The Department of German also organised a seminar on 'The Austrian Identity' for a C.A.E. seminar held at Monash.

The Department of Geography took advantage of the presence of its Visiting Professor, Professor T.G. McGee of the University of British Columbia, to mount a

weekend workshop in July on the subject 'Proletarianization in Asia'. Professor McGee also gave seminars within the department and to the Centre for Southeast Asian Studies.

### **Creative and Performing Arts**

Professor Theodore Weiss of Princeton spent eight weeks at Monash as Writer-in-Residence. He gave several lectures and conducted a poetry workshop for undergraduates. It is a matter for regret that funds will not allow the faculty to have a Writer-in-Residence in 1983 and it may be that Professor Weiss will be the last person for some time to hold that appointment. The Department of English continued its program of poetry readings and Shakespeare play readings.

In March, the 150th anniversary of Goethe's death was marked by an exhibition of items relating to his life and works, arranged by the Department of German. A lecture program was also organised, with contributions by Dr M. Osten, the Vice Consul General of the Federal Republic of Germany, Professor Oscar Seidlin from Indiana and Monash staff members from the Departments of English, Music and Mathematics.

Graduates of Monash, assisted by members of the Department of Classical Studies, have formed an association called 'The Classics Group' which has developed plans for a classical drama festival to be held at Northcote early next year. The festival, which has been given substantial financial support by the Northcote City Council, will consist of a performance of Euripides' *Medea* in a modern Greek translation and Aristophanes' *Lysistrata* in English. The festival will represent a novel contribution to the life of the community as well as to the academic work of the Department of Classical Studies.

The Department of Visual Arts, aided by financial support from the Vera Moore Fund, the Vice-Chancellor and the faculty, mounted six exhibitions ranging from Japanese art (Ukiyo-e) to Massim tribal art, current women photographers and young Melbourne paint-

ers. The group 'Connotations' gave a lunch time performance in the Gallery in conjunction with the latter exhibition. With the aid of the Art Advisory Board, a catalogue has been prepared by Dr Helen Light of the complete Monash University art collection. The department arranged a number of film screenings outside its normal film courses, including the film *Two Laws* which was shown prior to its commercial release, with a discussion led by Carolyn Strachan, the film's co-director, and *Wrong Side of the Road* also followed by an extended discussion with director Ned Lander. A seminar was given by Christina Perincoli, a leading feminist film director (*Power of Men is the Patience of Women*). The Monash Library during the year obtained the only print in Australia of Zika Vertov's *Enthusiasm*, an early Soviet sound film set in the Don basin coalmines in the third year of the first five year plan.

## Visitors

Visitors to the faculty included Sir Kenneth Dover (President, Corpus Christi College, Oxford), Professor G. Arnott (University of Leeds), and Professor W.R. Connor (Princeton) to the Department of Classical Studies; Professor E. Haugen (Harvard) to the Departments of German and Linguistics; Professor J. Kusonose (Sophia University) to Linguistics; Professor Syed Husin Ali (University of Malaya) to Anthropology and Sociology; Professor E.D. Hirsch (Virginia), Jounf Skvorecky (Toronto) and Professor A. Rizzardi (Bologna) to English; Professor Henri Besse (Ecole Normale Supérieure) to French; Professor Jose Maceda (University of the Philippines) to Music; Professor David Lewis (Princeton) and Dr Mary McCloskey (Melbourne) to the Department of Philosophy and the art critic Peter Fuller, Professor Umberto Eco (Bologna) and Professor Janet Bergstrom (U.C.L.A.) to the Department of Visual Arts.

## Faculty of Economics and Politics

**Acting Dean: Professor R.H. Snape, B.Com.(Melb.), Ph.D. (Lond.), F.A.S.S.A.**

### Student Enrolment

Total equivalent full-time students for the faculty decreased slightly from 2,472 in 1981 to 2,446 in 1982 with higher degree E.F.T.S. increasing from 406 to 428. Despite a reduction in first year Bachelor of Economics students from 538 to 463, the total number of students in years 1-3 of the Bachelor of Economics course increased by 47 to 1,698 and is the main reason why the faculty exceeded its E.F.T.S. quota in 1982. The faculty is still being affected by the large number of first year students enrolled since 1974.

The C.T.E.C. has indicated that the University should reduce the number of equivalent full-time students to no more than

12,800 in 1983 and the quota allocated to the faculty is 2,300 for 1983.

### Donald Cochrane Library

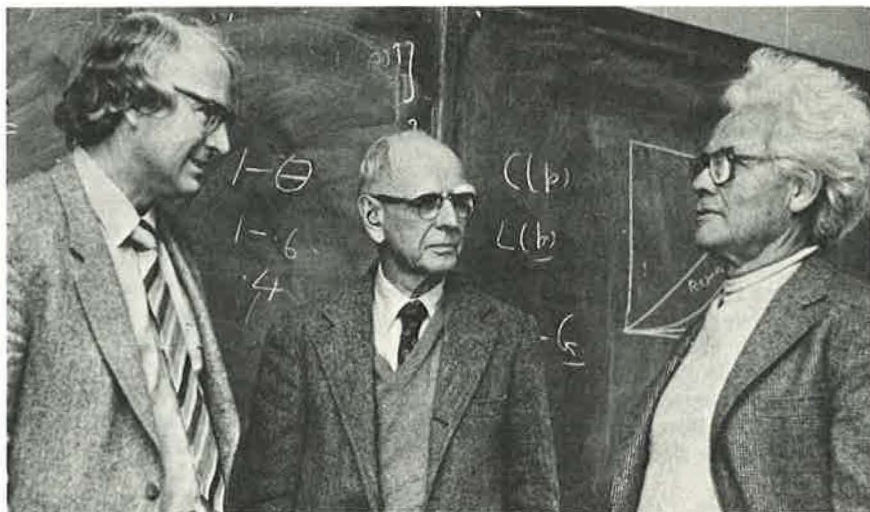
The role of the Library is to support teaching and research by maintaining a collection of statistical material, company reports and journals covering the main areas of interest in the faculty.

Financial constraints make it impossible to increase journal holdings but those taken are reviewed annually by the Faculty Library Advisory Committee to ensure that the collection remains relevant. A 'Current Contents' list is prepared weekly during the teaching year and a newsletter informs staff



The first international conference on Australian taxation issues was held at Monash in August. The conference was organised by Professor John Head (Economics) and sponsored by the Centre of Policy Studies. Professor Head (*left*) and Emeritus Professor Carl Shoup (*centre*) (Columbia University) are pictured with Professor Richard Musgrave (University of California at Santa Cruz).

— Photo Rick Crompton



of current acquisitions, changes in the journal collection, new and deleted statistical bulletins, etc.

### **Centre of Policy Studies**

The Centre of Policy Studies was selected by the Commonwealth Tertiary Education Commission as one of the Special Research Centres to be separately financed for excellence in research. The Centre gained the only award made for the country as a whole in the social sciences and humanities.

### **Research and Professional Activities**

The research program of the Faculty continued successfully within all departments and in the Centre of Policy Studies. Of particular note has been the large number of publications by members of the faculty which have appeared in leading international journals during the year.

Considerable emphasis continued to be placed on the provision of policy advice to governments and their instrumentalities. This occurred partly through the Centre of Policy Studies and also through the direct participation of a number of Faculty members in the work of governmental departments and advisory bodies.

### **Staff**

With the retirement of Professor D. Cochran, the Acting Dean for 1982 was Professor R.H. Snape. Professor W.A. Sinclair, of Flinders University, will take up the position of Dean in 1983.

Many members of staff continued to serve on committees and tribunals advising government and industry, while other staff maintained editorial roles on journals and other publications.

### Conferences and Seminars

Several staff members participated in conferences and seminars held both in Australia and overseas. The Department of Econometrics and Operations Research organised and hosted the first meeting of the Australian Econometrics Study Group, which was well attended. The Econometric Society subsequently recognised this group as its Australasian Chapter. The Department of Economics held a series of lectures for H.S.C. students, and the Department of Economic History delivered H.S.C. Australian History lectures in country areas.

Professor R.R. Officer took part in a seminar concerning corporate control, held jointly with the Faculty of Law. Associate Professor W.A. Howard presented a paper at the 1982

ANZAAS Conference. Professor R.M. Parish attended a symposium on government conducted by the Academy of Social Sciences.

### Visitors

During 1982 a number of distinguished visitors made valuable contributions to the work of the Faculty. Academic visitors included Associate Professor P. Medding (Hebrew University of Jerusalem), Professor A.J. Meltsner (University of California), Professor M.S. Robinson (U.C.L.A.), Professor R.W. Clower (U.C.L.A.), Professor C.S. Sharp and Professor J.M. Hulbert (Columbia), Professor J.S. Armstrong (University of Pennsylvania) and Professor S. Timperley (London Business School).

## Faculty of Education

**Dean: Professor Peter J. Fensham, M.Sc.(Melb.), Ph.D.(Brist. and Cantab.), F.R.A.C.I., A.B.Ps.S., A.A.Ps.S.**

### Introduction

In my first year as Dean, I was conscious of how much was owed to my predecessors and particularly to Professor Peter Musgrave who had led the faculty in the recent years when the fortunes of universities in Australia had turned downwards.

Early in the year a careful appraisal was made of the faculty's directions and of those of the wider educational scene. These were required to formulate our plans for the triennium 1985-87, but also enabled some creative developments to occur despite the present triennial constraints.

### Students

The target load for the year was 1,100 but a number of factors led to an actual load in excess of this figure. Interest in most of the

faculty's programs firmed, including the Diploma in Education (a number of areas of shortage of teachers are again visible) and research for a doctorate. The throughput of our many part-time students for the Master of Educational Studies was slower than expected. This knowledge has been built in to our enrolment plans for 1983. As part of our planning for the next triennium, a lot of attention was given to the balance of students between the various courses the faculty offers.

### Staff

The main feature of staffing activities has been the resolution of the uncertainty that faced the faculty with seven fixed-term appointments ending in 1982 and two other positions vacant. Eight appointments have been made, four of them to continuing posi-



tions. This considerable fillip to our stability has enabled consolidation of several of our recent developments such as computer education, sex-role socialisation and more theoretical aspects of educational administration. One appointment went to a well established scholar in educational measurement restoring a strength that was weakened by the loss of two senior staff in 1980-81.

Professor Marie Neale was appointed Research Professor (Studies in Exceptional Children) in March and a new era began for the Krongold Centre, of which she is also Director, when it became a Centre of the University.

Very good use was made of the two vacant positions by appointing a number of short term Visiting Lecturers. Appointees from England, West Germany, Canada, U.S.A., Tasmania and Victoria were appreciated for their contributions in course teaching, in postgraduate stimulation and in research seminars and workshops.

This valuable and economic use of any available funds has been exploited by the faculty for some years and this year there was sharing of some of these visitors with Deakin. The calibre of people willing and anxious to come to Monash for these short periods is now very high and continuance of the scheme at some level is a high priority. It has done and can continue to do much for the faculty's quality of work and its reputation elsewhere.

### **Research**

In 1982 we have had our largest number of Ph.D. students yet, and we obtained seven postgraduate scholarships. These full-time research scholars add a valuable presence to the research climate. Research continues at a high level among many of the staff. Professor R.T. White was President of the Australian Association for Research in Education and Dr Gilah Leder also serves on its national executive. Four of our historians had major books published, making the year a vintage one for the research record of that lively group.

Despite the demise of the Education Research and Development Committee, members of the faculty have continued to attract some outside funds for research and evaluative studies. For example, the Schools Commission has supported studies by Dr Sampson and Dr Chapman.

### **Professional Service**

The staff of the faculty have continued to make many contributions to the administration and practice of education in the community. Among the on-going involvement I would like to indicate the weight of some of these efforts by instancing Associate Professor Balson's Chairmanship of the Council of the Institute for Early Childhood Development through its long, on-off, highly political process of amalgamation.

The new State government has set up a number of working parties and advisory committees. Dr Gerald Burke, Dr Shirley Sampson and myself have already been involved with several of these.

The teachers' centre that is housed in the faculty has been renamed the Monash Teachers' Centre and in 1982 continued to expand and deepen the informal links between the faculty and the teachers who serve the schools in its nearby regions. In 1982, nearly 2,000 teachers were involved which sustained the level of involvement of previous years. As the regionalisation of the Education Department increases there should be new opportunities for mutual benefit in this and other links. Some very valuable discussions have begun with the four neighbouring Regional Directors, and a former Dean, Mr S.S. Dunn, now an Associate of the faculty, has been very helpful in these.

On the initiative of Dr Warren Mellor, a more systematic approach has been developed for the training of visiting educators from Third World countries — a common occurrence in the faculty over the years. In each of 1981 and 1982, about ten such UNESCO-supported fellows have participated in programs ranging from 3-8 months.

Professor Peter Fensham was appointed Dean of the Faculty of Education at the beginning of the year. He is pictured (*left*) with Professor Peter Musgrave who relinquished the deanship at the end of his five-year term.

— Photo *Claude Sironi*



### **Collaborative Venture with other Departments**

Professor White and Dr Gunstone, in collaboration with members of staff of the Department of Physics, have arranged with the Science Museum of Victoria for the mounting of a display of exhibits which provide participatory opportunities for the public to experience and learn about simple physical phenomena. Exhibits are being constructed in various Workshops in the University, funds for materials being supplied both by the Faculty of Education and commercial organisations. The display will open late in 1983. This exciting project will provide Victorians with their first opportunity to experience the sort of science education that Canberra's Questacon and San Francisco's Exploratorium provide.

### **Centres**

The faculty has continued to be very active in its participation in several university centres as well as in the Krongold Centre. Dr G. Best was Chairman again of the Centre for Migrant Studies. Dr Margaret Brumby undertook heavy responsibilities in relation to two major seminars of the Centre for Bioethics.

The Elwyn Morey Child Study Centre within the faculty provided pre-school education as usual. A number of staff and students of the Faculty are now involved in language work with children in this Centre.

## Faculty of Engineering

**Dean: Professor L.A. Endersbee, A.O., B.C.E., M.E., F.I.E.Aust., F.A.S.C.E., M.Aus.I.M.M., Hon.M.E.I.C.**

### Student Entry

The demand for places in the faculty continues to rise. The preferred year 12 entry subjects for the faculty are English, Physics, Chemistry and Pure and Applied Mathematics; virtually all students entering the faculty with Victorian H.S.C. have completed these subjects. However the faculty notes that moves by V.I.S.E. to introduce new subjects in Year 12 may have the effect of reducing opportunities for students in some high schools to take the preferred combination of subjects for Engineering entry. To a certain extent the situation is corrected by the students themselves, or by their parents, by transfer to high schools where this combination of subjects is available. It is also recognised that this may require transfer from a government school to a private school, involving greater cost to families.

### Quota for Overseas Students

In order to provide greater opportunities for Australian students to enter the faculty, the Faculty Board decided to recommend to the University that there be a quota of 80 places for overseas students within the total enrolment of 300 students in first year. This quota was approved and is to apply for 1983 entry.

### Undergraduate Courses

The steady progress of technological knowledge requires the faculty to frequently review the courses in all engineering disciplines.

There is a need in the engineering profession for some engineers to have a greater depth of training in related sciences than can normally be provided within the four year engineering program. The faculty, in collaboration with the Faculty of Science, has de-

cided to offer five year B.E./B.Sc. programs, and such courses are now available in the four engineering streams of Chemical, Materials, Mechanical, and Electrical and Computer Systems Engineering. These combined degree programs are attracting a talented group of students.

### Collaboration with Deakin University

In their proposals for the current triennium, the Universities Council confirmed the decision by the Federal Government to close the Engineering course at Deakin University, and suggested that Deakin University consider possible collaboration with the University of Melbourne or Monash University in order to provide for those Deakin students wishing to undertake engineering courses. As a result of proposals by Deakin University, and subsequent discussions, the Engineering Faculty Board approved in principle an arrangement whereby a selected quota of Deakin students could be enrolled for five year programs leading to B.Sc.(Deakin)/B.E.(Monash). The first students in this program are to be enrolled in 1983.

### Staff Movements, Honours and Awards

Professor J.D.C. Crisp of the Department of Mechanical Engineering was made a Member of the Order of Australia for services to engineering.

Professor W.H. Melbourne is Chairman of the International Association of Wind Engineering, and participated in international meetings in the United States and South Africa. He was also appointed Associate Dean of the faculty.

The Department of Chemical Engineering has appointed Dr Andrews from I.C.I., Dr Sridhar from State University of New York



Professor Hunt, Professor of Mechanisms in the Department of Mechanical Engineering, was awarded the Kernot Memorial Medal in September for distinguished engineering achievement.

— Photo Eddie O'Niell



and Dr Boulton from the University of California, as Senior Lecturers. Dr D. Boger of the Department of Chemical Engineering resigned to take up an appointment as Professor in Chemical Engineering at the University of Melbourne.

Dr K.W. Ogden of the Transport group in Civil Engineering returned to Monash after two secondment years with the Australian Railway Research and Development Organisation, and Dr P.G. Gipps returned to C.S.I.R.O., Division of Building Research after two secondment years at Monash.

Associate Professor B.W. Cherry, Department of Materials Engineering was elected a fellow of the Institute of Corrosion Science and Technology of U.K.

Professor K.H. Hunt was awarded the Kernot Memorial Medal by the Engineering Faculty of the University of Melbourne.

### **Research and Advisory Activities**

Research activities in the faculty during 1982 continued at a high level with many staff members receiving grants from both state and national research associations or support bodies. Over 180 papers, together with one book, were published by staff members during the year.

Many academic staff also serve in advisory capacities on committees, assisting both industry and government. Members of the faculty are also involved in the work of professional associations, while others perform an editorial function for technical journals.

The teaching and research functions of the faculty have been made considerably more difficult due to understaffing, a situation which is of great concern to the faculty.



## Faculty of Law

**Dean: Professor R. Baxt, B.A., LL.B.(Hons.)(Syd.), LL.M.(Harv.)**

### Students

As at 30 April 1982, there were 1,782 students enrolled in the faculty giving a faculty E.F.T.S. figure of 1,279. The breakdown of actual enrolments as at 30 April 1982, is as follows:

	Full Time	Part Time	Total
Ph.D.	8	3	11
Masters Research	17	113	130
Total Higher Degree	25	116	141
Master Preliminary Diploma	1 9	— 59	1 68
Bachelor			
B.A./LL.B.	515	38	553
B.Ec./LL.B.	467	36	503
B.Sc./LL.B.	105	7	112
B.Juris./LL.B.	112	40	152
LL.B.	93	108	201
Not for degree	8	43	51
Total O.T.H.D.	1,310	33	1,641
Faculty Total	1,335	447	1,782

The notional equivalent academic staff (E.A.S.) of the Law School in 1982 was 76.8 (including casual staff). Actual appointments, other than casual staff, as at 31 December 1982, totalled 60.5.

### Visitors

The Law School entertained a number of distinguished visitors from all branches of the profession and from various countries. Many of these came to the Law School for short periods and gave lectures or conducted seminars for students or staff. Visitors to the Law School for a substantial period included Mr P. Cane (Corpus Christi College, Oxford

University); Professor R. Folsom (University of San Diego); Professor D. Jackson (University of Southampton); Associate Professor S.K. McCallum (University of Victoria); Dr N. Suriya (Thammasat University) and Mr G. Syrota (University of Leicester).

### Honorary Degrees

The faculty entertained Emeritus Professor G. Sawyer, LL.B., LL.M., B.A.(Melb.), on the occasion of the award to him of the LL.D. (*honoris causa*) at the April graduation.

### Clinical Legal Education

The Professional Practice program involves Legal Service and classroom components in all of which faculty staff are employed. The Legal Aid Commission is unable to contribute directly to the 'educational' function of the program, but it supports the program through the provision of funds which enable the appointment of administrative officers and solicitors at the two legal services at Springvale and Monash-Oakleigh. It is hoped that the level of Federal and State grants through the Legal Aid Commission which helped to support the course in 1982 will continue in 1983. If this occurs, the faculty will be able to maintain the clinical program through the forthcoming year. The Visiting Fellowship program was launched in 1982.

Planning this year for the re-orientation of Monash Legal Service towards assistance for the citizens of Oakleigh, including the appointment of a lawyer-tutor as co-ordinator of the Service, will come to fruition early in 1983 with the opening of 'Monash-Oakleigh Legal Service' in Beddoe Avenue to the west of the campus. The support of the Vice-Chancellor, the University Administration and the City of Oakleigh in this project is much appreciated.

### **Summer Teaching**

Summer teaching was maintained on a reduced level for 1982/83. A total number of 14 subjects is being taught during the summer semester. The final number of students enrolled in summer will not be known until later in 1983. The number of students enrolled in the summer program 1981/82 was approximately 350 undergraduate students with a further 65 graduate students.

### **Graduate Studies Program**

1982 has been a year of consolidation rather than expansion. Enrolments, slightly down on 1981, reached 170.25 E.F.T.S. as at 30 April 1982. During the last twelve months 34 candidates graduated from the program.

The growing reputation of the Graduate Program is reflected in the large number of overseas candidates. In 1982 the figure was 25 (4 Ph.D. and 21 LL.M.) representing 13 countries in Europe, Africa, Asia and the Pacific.

The outlook for 1983 is however rather gloomy. The lower overall E.F.T.S. target fixed for 1983 will involve a reduction of 10 E.F.T.S. in Ph.D. and LL.M. enrolments. This comes at a time when demand for places in the program is very strong.

### **Monash University Law Alumni**

The Law Alumni organisation commenced in 1981 and the faculty hopes the organisation will enable it to maintain closer contacts with its growing and impressive list of graduates.

### **Student Activities**

The Professional Experience Scheme (formerly known as the 'Godfather Scheme') has continued.

The Law Students' Society has had an extremely successful year. Monthly coffee meetings with office bearers of the Society and student delegates to Faculty Board has resulted in increasing awareness of student

difficulties. The students played a significant role in the decision to retain the summer program, although on a limited scale.

### **Law Library**

A reduction of 1.5 positions in the staff establishment at the beginning of the year put the library under considerable pressure, and although no services have been cut yet, some programs have not been completed as expeditiously as might be desired.

Senior library staff invested much time in a reader education program for first year students. This was integrated with the teaching of the subject Legal Process, and involved the preparation of eighty sets of graded exercises, the production of a *Guide to Research in the Monash Law Library*, and two hour-long tutorials for all first year students.

The library received generous financial assistance from the faculty during the year, notably for binding and book repairs, and for the continuance of nominated periodical titles.

### **Continuing Legal Education**

These programs have been supported by the accounting, legal and banking professions, as well as by social workers, industry and other select groups. The Trading with China conference was an outstanding success in 1982.

Co-ordination with other institutions and bodies continues and a subsidiary result of this work was a joint catalogue of publications. This was very successful indeed, boosting the sales of seminar papers.

The faculty will be appointing a special co-ordinator of C.L.E. in 1983 to maintain this program.

The faculty has continued to play an important role in the work of the Leo Cussen Institute for Continuing Legal Education.

### **Research and Professional Activities**

Research in the faculty has been maintained at an excellent level.

Two Monash lawyers were amongst a five-member delegation of Australian criminal law experts which visited China in October. The delegates were (*left to right*): Acting Professor Richard Fox (Reader in Law at Monash), Judge Peter Rendit (County Court of Victoria), Mr Justice McGarvie (Supreme Court of Victoria and Chancellor of La Trobe University), Professor Louis Waller (Sir Leo Cussen Chair of Law at Monash and currently Law Reform Commissioner of Victoria) and Mr Mark Weinberg (Reader in Law at the University of Melbourne and a Monash graduate).

— Photo *Tony Miller*



During the year, members of the faculty published, either alone or in collaboration with others, a total of 14 books. In addition, members of the faculty are directly responsible for editing a number of journals and surveys.

The monograph committee, with Professor P.L. Waller and Professor E.M. Campbell as convenors, has published two monographs. The volume titled *Well and Truly Tried*, in honour of Sir Richard Eggleston, and commissioned by the faculty, was presented to Sir Richard at an Academic Staff Dinner late in the year.

A number of research grants have been received from within the University, the A.R.G.C., and recently the Patents Office has awarded the faculty a grant to undertake a review of the Patents system in association with I.P.A.C. Other grants have been made from both government and private bodies for research into various areas of law.

The 1982 Wilfred Fullagar Memorial Lecture was delivered by the Right Honourable Sir Harry Gibbs, Chief Justice of the High Court of Australia, on 'The Constitutional Protection of Human Rights'.

The faculty continued to be represented on various professional bodies and associations.



## Faculty of Medicine

**Dean: Professor G.C. Schofield, O.B.E., 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 at April 30 1982, was 1,747. There were 967 medical undergraduates distributed as follows: Year I: 168; Year II: 163; Year III: 165; Year IV: 160; Year V: 150; Year VI: 150; B.Med.Sc.: 11. Female entrants comprised 41% as against 40% in 1981.

### Staff

Academic staff comprised 124 full-time and 54 part-time members. Clinical teachers included some 270 visiting medical staff and 70 full-time hospital medical staff in affiliated hospitals and approximately 350 general practitioners.

### Honours and Distinctions

Dr B.F. Ford was appointed an Officer of the Order of the British Empire (O.B.E.) for service to medicine. Honorary Associate Professor I.D. Gust received the 1982 Wellcome Australia Award for his outstanding contribution to the field of virology. Professor C.I. Johnston was elected a member of the Council of the International Society of Hypertension. He was also appointed a member of the Scholarships (Standing) Committee of the National Health and Medical Research Council until 31 December 1984. Dr J.B. Kerr was awarded a C.J. Martin Fellowship by the N.H. & M.R.C. Dr G. Klempfner was appointed a member of the Radiation Health (Standing) Committee of the N.H. & M.R.C. until 31 December 1984. Professor P.I. Korner received the Volhard Award of the International Society of Hypertension in recognition of his contribution to hypertension research. Professor V.C. Marshall was elected as an Honorary Fellow of the Association of Surgeons of Great Britain and Ire-

land. Associate Professor H.K. Muller was appointed as Chairman of the Board of Censors (Chief Censor) of the Royal College of Pathologists of Australasia. Professor R.C. Nairn was re-appointed Consultant to the Office of the President (Cancer Research) at the University of Texas System Cancer Center, M.D. Anderson Hospital and Tumor Institute, Houston, Texas, U.S.A. Professor L.J. Opit was appointed a member of the National Health Technical Assessment Advisory Panel. Honorary Associate Professor A. Pitt was elected President of the Victorian Branch Council of the Australian Medical Association for 1981/82. Clinical Associate Professor M.B. Van der Weyden was awarded the Susman Prize of the Royal Australasian College of Physicians for outstanding research over the past two years. Professor E.C. Wood was appointed a Commander of the British Empire (C.B.E.) for service to medicine. Dr V.Y.J. Yu was appointed a member of the Child Health (Standing) Committee of the N.H. & M.R.C. until 31 December 1984.

### Retirement of Professor H.W. Garlick and Professor W. Ironside

Professors H.W. Garlick and W. Ironside both retired on 31 December 1982.

Professor Garlick was appointed as a part-time Professor in the Department of Medicine at Prince Henry's Hospital in August 1970. As Consultant Honorary Physician at Prince Henry's hospital he was closely associated with the establishment of the University Department of Medicine and he also held the position of Dean of the Clinical School at Prince Henry's Hospital during 1966-68. The Faculty of Medicine has been greatly advantaged by Professor Garlick's deep interest and outstanding support since its inception.



Professor Ironside came to Monash in May 1969 and was appointed Foundation Professor of Psychological Medicine after having held a similar appointment at the University of Otago, New Zealand.

Under Professor Ironside's Chairmanship, the Department of Psychological Medicine established itself as one of the pre-eminent University departments in that discipline in Australia and it also established Prince Henry's Hospital as an outstanding centre for postgraduate training in Psychiatry.

On 5 November 1982, a conference on 'Education in Psychological Medicine' organised by the Department of Psychological Medicine was held at Prince Henry's Hospital. Following contributions by interstate and local visitors, Professor Ironside delivered a Valedictory Address.

In recognition of his contribution to the faculty and the University, the title of Emeritus Professor was conferred by the University Council as of the date of Professor Ironside's retirement.

### Visitors

During the year visitors to the faculty included Dr A.M. Aikman (Obstetrics and Gynaecology) from Johannesburg; Professor A. Aitken (Community Medicine) from King Faisal Medical School; Dr M.S. Al-Khatani from King Faisal University; Dr K. Al-Jaber of the Ministry of Health, Qatar; Associate Professor M. Blank (Biochemistry) from Columbia University; Dr C. Bulpitt (Social and Preventive Medicine) from Hammersmith Hospital, London; Dr M. Camus (Obstetrics and Gynaecology) from the Free University of Brussels; Dr F. Carrillo (Obstetrics and Gynaecology) from Caracas; Mr D. Carter (Surgery) from Glasgow University; Dr C.J. Huang (Paediatrics) from the Peking Children's Hospital; Mr T. Choegyal, Special Assistant to the Dalai Lama; Dr A. Conti (Obstetrics and Gynaecology) from the University of Basel; Professor P.G. Crosignani (Obstetrics and Gynaecology) from the University of Milan; Dr M. de Swiet (Obstetrics

and Gynaecology and Paediatrics) from Queen Charlotte's Hospital, London; Dr L. Gianoroli (Obstetrics and Gynaecology) from the University of Bologna; Professor S. Goldberg (Surgery) from the University of Minneapolis; Professor J.B. Harris (Physiology) from the University of Newcastle; Dr V. Hascall (Biochemistry) from the National Institute of Dental Research, U.S.A; Professor E.A. Johnson (Physiology) from Duke University; Professor K. Keuttner (Biochemistry) from Rush Medical College, Chicago; Mr J.S. Kirkham (Surgery) from St. George's Hospital, London; Professor and Dr T. Laurent (Biochemistry) from Uppsala University; Dr S.P. Lock (Pathology and Immunology) of the British Medical Journal, London; Dr G. Loverro (Obstetrics and Gynaecology) from the University of Bari; Professor A. Marcus (Medicine) New York V.A. Medical Centre; Dr D.Y. Mason (Pathology and Immunology) from Oxford University; Dr R. Mason (Biochemistry) from the Charing Cross Hospital Medical School, London; Professor K. McCarthy (Pathology and Immunology) from the University of Liverpool; Professor D. McKenzie (Pathology and Immunology) from the University of Capetown; Dr A. Mines (Physiology) from the University of California; Dr H. Muir (Biochemistry) from Hammersmith Hospital, London; Professor J.D.K. North (Medicine) from the University of Auckland; Dr J. Osborn (Obstetrics and Gynaecology) from St. Mary's Hospital, Manchester; Dr K.S. Soh (Pharmacology) from the University of Malaya; Professor A. Veis (Biochemistry) from Northwestern; Dr S. Wong (Microbiology) from the Chinese Academy of Medical Sciences; Dr S.N. Webb (Physiology) from the University of Liverpool and Dr A.F. Williams (Pathology and Immunology) from Oxford University.

### Curriculum

During the year two committees were appointed to make revised curriculum proposals within the framework of the abolition of the fifth subject in first year, and inclusion

Professor Roger Short took up his appointment to a Personal Chair of Reproductive Biology at Monash during the year. The appointment is a joint one in the Departments of Physiology and Anatomy.

— Photo Rick Crompton



of the third term of the third year of the course within the clinical and paraclinical teaching program.

The proposals put forward by the two committees were approved, and further planning will proceed on the basis of implementing the new first year course in 1984.

### **Faculty Changes**

The Section of Community Practice, formerly a part of the Department of Social and Preventive Medicine, became the Department of Community Medicine in 1982. Located at the Moorabbin Hospital since 1979, the Department has developed a reputation for leadership in the field of community medicine.

A second Chair of Psychological Medicine is to be established at Monash University. The Chair will be located at Royal Park Psychiatric Hospital rather than at a general teaching hospital, and so will be the first of its kind in Australia. A Professor will be appointed Consultant Psychiatrist at the Hospital, where a new teaching and research unit will be es-

tablished as part of the Department of Psychological Medicine. While located at Royal Park, however, the incoming Professor will also have a responsibility to contribute to the further development of Psychiatry at the Alfred Hospital.

### **Conferences and Lectures**

In 1982 an International Congress of Biochemistry was held in Perth. The Organising Committee included six biochemists from Monash University. In addition, three Satellite Conferences were organised by staff from the Department of Biochemistry.

Lectures given during the year by three distinguished visitors (Dr S.P. Lock, Dr A.F. Williams and Professor H. Goodglass) were well attended.

### **Research**

The faculty continues to attract a significant proportion of funds allocated for new and continuing projects by the National Health

and Medical Research Council (\$1,191,097), and the Australian Research Grants Committee (\$304,806), although both organisations were unable in 1982 to fund many grant applications throughout Australia which might have gained support in previous years. Research funds from other sources amounted to \$1,866,724 and total outside support for the faculty amounted to \$3,362,627. Research productivity, as evidenced by publi-

cations 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 approximately one quarter of the income of 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.**

### Faculty Student Numbers

The total faculty student enrolment continued to increase in 1982. The previous steady increase in first year undergraduate enrolments was reversed in 1982. Total Science, Science/Engineering and Science/Law first year enrolments were reduced from 760 in 1981 to 674 in 1982. This adjustment to the intake of new students, when matched to the number of continuing students, meant that the total faculty O.T.H.D. enrolment was only 3.5 E.F.T.S. short of our target of 2,215.

At the graduate level, enrolments increased more than expected, perhaps due to the uncertainty regarding a Federal Government proposal to introduce student fees for second and higher degree students. The faculty higher degree enrolment was some 35 E.F.T.S. above the sub-target, generating a total excess enrolment of 1.2%.

Another feature at the undergraduate level was the continuing increase in honours enrolments. In 1982 we had 220 honours students, up from 208 in 1981 and 189 in 1980. At higher degree level, the M.Sc. enrolments have been fairly static over the last several years with the Ph.D. enrolments accounting for the increase. The total Ph.D. enrolment was 254 in 1982, including 56 new students.

There were 49 new students in 1981 and 43 in 1980.

The proportion of overseas students in the faculty continues to increase. In 1982, 14.3% of our B.Sc. students had permanent home addresses outside Australia. The corresponding proportion was 13.1% in 1981 and 10.7% in 1980.

### Quality of Undergraduate Intake

The last few years have seen a swing back of student interest towards physical sciences and engineering. The proportion of students taking subjects such as physics, chemistry, and one or more branches of mathematics at H.S.C. level has increased slightly. At the tertiary level we have noted an increase in the number of applicants for entry to science and engineering courses. The number of applicants through the V.U.A.C. system for first preference entry to undergraduate study in our Science faculty was 605 in 1980, 654 in 1981, and a remarkable 801 in 1982. This increase in application numbers, together with the reduction in first year intake, meant that the faculty H.S.C. cut-off score increased from 240 in 1981 to 257 in 1982.

We also enrolled some very gifted students. In 1978, eight new students with H.S.C. scores



above 360 were invited to join the Faculty of Science scholar scheme. This number rose to ten in 1981, and in 1982 as many as 21 were invited to join the scheme, all with scores from 366 to 414.

### **B.Sc. Honours Program in Computer Science/Accounting**

On the basis of perceived student demand for a course which combined studies in computer science and accounting, the faculty, in consultation with representatives from the Department of Accounting and Finance, developed a four year honours program within the general structure of its B.Sc. and B.Sc.(Hons.) courses. The new program, which will commence in 1983, will enable interested students to combine major studies in computer science with major studies in accounting to the extent that the graduates will be able to gain registration with the relevant accounting professional bodies after completion of the four year Honours course. This significant development is likely to attract a deal of interest from students and should produce graduates well suited to the requirements of employers in industry, commerce and public service.

### **Bachelor of Science/Bachelor of Engineering Program**

The combined B.Sc./B.E. course, which was officially approved in 1981, proved very popular with applicants in 1982. The quota of 75 entrants to the first year meant that a very substantial number of applicants could not be accommodated. Initially this five year course, which involves the completion of a B.Sc. degree after three years of full-time study and a B.E. degree after a further two years, provided for major studies in a variety of specified science subjects to be combined with studies in the fields of chemical, electrical and computer systems, and materials engineering. During 1982 further developments resulted in the inclusion of an extended range of science disciplines in the

course and a whole new program for intending mechanical engineering graduates was added as from 1983.

The most popular combination proved to be that which combined computer science with electrical and computer systems engineering studies. Just over 50% of all candidates embarked on this course. Both the Computer Science and Electrical Engineering Departments are under considerable pressure in terms of enrolment numbers, and the combined course has certainly aggravated this situation.

The approval in 1981 for the combined course came at a time when the V.U.A.C. entry for 1982 had already been prepared so those students interested in the course could only be identified as they attended for enrolment through the Science Faculty. During 1982 a special course code was identified for this program and the two faculties also established a joint committee to handle the selection of prospective 1983 entrants. Feedback from the experience in administering the course has pointed to the need for refining the course regulations and amending the policies which determine 'satisfactory progress' in the course. It is expected that further adjustments will need to be made as experience is gained. We believe the course will continue to be popular.

### **Other Teaching Program Adjustments**

The academic content of each of the many subjects offered by the nine departments in the faculty was kept under review by the appropriate academic staff, with a view to maintaining and improving the quality of our teaching and the relevance of the learning experience of our students.

It is unfortunate that financial stringency, the implications of which are becoming more pervasive, has served to focus attention more on opportunities for rationalisation than on better meeting the needs of our students. Only one new subject, Theoretical Physics 303, which in any case did not require



Dr George Ettershank, senior lecturer in the Department of Zoology, has developed a new method for determining the age of animals as diverse as flies and shrimps. His method involves measuring lipofuscin levels which accumulate in cells as a by-product of metabolic processes.

— Photo Rick Crompton



additional resources, was approved in 1982 for introduction in 1983. In 1982 the Department of Botany, Genetics and Zoology found it necessary to conserve resources by cancelling their collaborative offering of the subject Life Science 101. This subject had been available for a number of years as a non-laboratory alternative to Biology 101 and had been especially attractive to Arts faculty students interested in the biological sciences. In 1981 the enrolment in this subject had been 174 students, of which 123 were Arts or Arts/Law students.

### **Vacation Scholarships**

Based partially on schemes operating at the A.N.U. and within the C.S.I.R.O. the faculty agreed in 1982 to offer vacation scholarships to selected students after their second, third

or fourth year of Science studies at this or other Australian universities. The purpose of the vacation scholarship scheme is to provide opportunities to interested students to spend a period of some 4-12 weeks working under supervision on research projects of interest both to the scholarship holders and the relevant departments. It is hoped that the scheme will serve to attract students motivated to pursue higher degree programs after exposure to the research interests of individual staff members. Most of the departments in the faculty were planning to have at least one, and up to five, vacation scholars during the 1982/83 Christmas recess. After the scheme was advertised the faculty office received several enquiries from other universities expressing an interest in exploring the features of the scheme.

### **Staffing Difficulties in the Department of Computer Science**

Six members of staff of the Department of Computer Science resigned during the year in order to take appointments in industry or in other tertiary institutions and this had repercussions on the teaching and research programs of the Department.

The faculty is conscious of the importance of maintaining a strong Computer Science department and has taken action to ensure that its teaching and research programs will continue, despite these staff resignations. The University is also reviewing the teaching of computer science in the Faculties of Science, Engineering and Economics and Politics and developing a plan for the future. These latter enquiries are being conducted by the Deputy Vice-Chancellor, Professor K.C. Westfold, and the Pro-Vice-Chancellor, Professor M.I. Logan.

### **Staff**

Professor R.H. Day took over from Professor J.W. Warren as Associate Dean from the beginning of 1982, and he was formally re-appointed for a one year term in this capacity as from 1 July. Mr N. Cameron was re-appointed Sub-dean for a further one year term commencing in the middle of the year. It has become the practice for sub-deans to serve a total of some three years to provide continuity in their role of advising and guiding students.

Associate Professor A.A. Holland became chairman of the Committee on Graduate Matters, replacing Professor P.D. Finch, whilst Professor R.F.E. Van der Borghst continued to chair the Committee on Undergraduate Matters.

A large number of staff continued to give voluntary service to a wide range of professional societies, other academic institutions and bodies such as the Victorian Universities Admissions Committee and the Victorian Institute of Secondary Education. Details are provided in the individual departmental reports.

## **Library**

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

Financial constraints dominated the Library's thinking during the year. The favourable exchange rates, which had provided such an unexpected purchasing bonanza in 1981 had now reversed their direction: increases of 24% for books and 25% for periodical subscriptions showed up in the survey figures the Library produces quarterly. Finance was available to cover the increases, but they made the future look bleak indeed.

With the temporary affluence had come a problem in the shape of an unusually large backlog of cataloguing, the result of the high intake (itself partly a product of an historically high publishing output, the least useful

possible reaction to a tightening world economy), and of a sharply reduced cataloguing throughput. We had calculated that intake would fall, when in fact it rose; and that throughput would rise with the advent of a shared cataloguing network. In fact it fell, largely because of the adoption by the national agencies who supply most cataloguing of a new version of the Anglo American Cataloguing Rules (AACR2), and of the Dewey Decimal Classification (DC19).

It was well into the year before the effects of the changes were absorbed. Familiarity with the new techniques, adoption of standards more appropriate to a co-operative

environment, and particularly the development of a very effective team spirit, all came together about May, returning production to something like the levels of earlier years, even with a staff considerably reduced from those years. Overall, 49,012 volumes were added to stock, as against 37,377 in 1981, the staff being virtually the same.

### Cataloguing

Two special projects were undertaken, with outside financial help. With advice and some funds from the Mathematics Department, the reclassification of the Mathematics collection was continued, and should reach near completion during 1983. At the same time, the cataloguing has been converted to machine-readable form, for easier selection and printing as a separate list, or comparison with other collections, should it be worthwhile. A similar job was carried out, with help from the Kellogg Foundation, for books on hospital administration, mostly bought from funds given by the Foundation to support the Australian Hospital Association's Reference Centre, at the Biomedical Library.

The machine-readable catalogues concerned are produced on a batch basis by a commercial bureau, under the control of C.A.V.A.L. (Co-operative Action by Victorian Academic Libraries). It had become clear that the batch process, apart from its innate clumsiness, would by 1983 become too expensive to maintain, and an enquiry was begun in 1981 as to a possible on-line cataloguing package to replace it. In the event, many of the member libraries saw the recently established Australian Bibliographic Network, based on the National Library, as a better alternative and most hope to be cataloguing on-line to Canberra early in the year. This Library felt that the time was not appropriate for such a decision, so will not be joining at the moment. Monash records will still be available in the C.A.V.A.L. regional catalogue.

### Activities Level and Services

A smaller University budget in 1982 meant that staff costs overall had to be reduced. The cuts in earlier years had been concentrated on the technical services departments; in 1982 all reader services departments were affected. The hours of opening, already reduced (from 11 p.m. to 10 p.m. closing, closed Friday nights, opening later on Saturday mornings, and closing some of the libraries completely on Saturdays for the first half of the year), were not shortened further, but staff costs were lowered, by the taking of unpaid leave, by reduction in hours worked, and by shedding of casual staff. The effects may not even have been noticed by the users, except perhaps in lowered general efficiency.

Perhaps as an effect of this, although more probably as a sign of a general reduction in University activity, numbers of loans fell, for the first time since 1977: students' to 456,657 (from 483,778), staff to 158,109 (165,980). Inter-library loans fell for the second year from 27,794 to 25,151 after 20 years of virtually unbroken increase. At the same time, our borrowings from other libraries continued to fall, from 6,585 to 6,439.

Usage of on-line bibliographic data bases continued to grow, although much more slowly than had been anticipated. An exception was the first service to which we had become accustomed — MEDLINE — whose usage fell quite dramatically because its interrogation had now become commonplace; very many hospitals had access to terminals and no longer needed to be served by the Library. This was an interesting example of the steps in dissemination of a new technology.

The Computer Centre's B6700 computer is due to be phased out at the end of 1984 and much thought has been devoted to specification and design of programs to replace those at present on that machine. Most of the Library's operations will be affected by these changes, and the specification groups considering them have been drawn from all levels



and work areas, so that their impact can be assessed before commitment to programming staff and equipment. In particular, the group working on the Monash In-Process System (M.I.P.S.) confidently expects it (a very considerable upgrade on the present system) to be operational quite early in 1983. Another group dealing with a potential on-line catalogue, hopes for reality, if only at prototype level, before the end of the year. The circulation system depends for its data input on equipment now rapidly becoming obsolete. A back-up system was developed during the year, and locally produced equipment installed. Failures in the main system have both proved the need for it and shown that it works; it will in fact become the operating system in 1983.

Salaries for Library Technicians had caused concern for some time, and an attempt was made in 1981 to rectify this, as well as to provide a better career structure for professional librarians. These moves drew attention to other anomalies, and a committee representing general staff was set up, as the Library Area sub-committee of the General Staff Association (L.A.G.S.A.). There were many discussions between L.A.G.S.A. and the Library's department heads, and a number of position papers were prepared and discussed. A sub-committee of the General Library Committee was set up, with representation of staff and management,

hoping in 1983 to consider the salary structures and promotion procedures of the Library.

### **Gifts to the Library**

The gifts of the Friends of the Library on the occasion of the receipt of our millionth volume had been an incunabulum, a commentary on the Bible dated 1478. It was natural therefore that they should have been interested in the purchase of a Bible of the same date, and it was at their initiative that a very fine example, printed by Anton Koberger of Nuremberg, was donated to the Library. The book was once owned by Talleyrand.

The Parents' Group once again gave handsomely towards the provision of books for student reading. To the hard-working members of the Group we again give our thanks, and as well to all the staff, students, parents, graduates and friends who continue to contribute to the Library Appeal. Their continuing generosity helps make it possible to keep up with present day publishing.

A gift that must certainly be noted is that of Sister Elizabeth Burchill, a mature-age graduate of the University, whose gift will be used to enrich the Library's Australian collection. The first fruits have been the enclosure and furnishing of a room, named in her honour, to house that collection.



## UNIVERSITY FACILITIES

### Alexander Theatre

1982 was a successful year for the Alexander Theatre. The theatre was in almost constant use, with 311 performance sessions, 284 of these being for live theatre presentations with a total audience of 94,271. It is evident, then, that the Theatre continues to serve not only the University but the wider community which surrounds it.

While escalation of costs and the evaporation of State subsidy has made it necessary for the Theatre to limit its own entrepreneurial ventures, the Alexander's traditional concerns have been maintained, and in some cases, advanced. The first Festival of Student Theatre met with an encouraging response. Comprising *Gyps and Dolls* (M.U.M.C.O.), *The Knight of the Burning Pestle* (Shakespeare Society) and *Charley's Aunt* (Student Theatre Committee), together with a Modern Dance program, the Festival attracted an audience of more than 6,000. There was evidence that all productions benefited from the packaging of the Festival, and the student groups appreciated the sponsorship of the Alexander. This will become the model for future seasons of student drama.

Children's theatre, a traditional concern for the Alexander, experienced an excellent year. The pantomime, *The Wonderful World of Mr Men*, was a record-breaking success, while the Saturday Club continued on its winning way with 96% capacity houses. Of our own presentations, only *Patrick's Hatrick* met with a disappointing response.

In adult theatre, the Alexander joined with the Victorian Arts Council in presenting the Hugh Whitemore play *Stevie*. Although not a financial success this was a most memorable production with distinguished performances from Anne Phelan and Queenie Ashton. Also of note were the Melbourne Music Theatre's productions of *The Mikado* and *H.M.S. Pin-afore*, both starring Dennis Olsen, and the latter's concert performances. Problems remain, however, in attracting sufficient professional productions to the Alexander, some

entrepreneurs retaining a suspicion of an outer suburban venue.

The stage facilities offered by the theatre continue to be improved, as do the front-of-house facilities. The Bass booking agency has proved popular with the University community, and in 1983 the theatre hopes to gain a liquor licence. In all, prudent management has ensured that the financial position of the Alexander remains secure.

The Committee, however, continues to review its priorities in determining future policy, particularly with regard to achieving an appropriate balance between University and community use, and between amateur and professional productions. Some thought is already being given to 1985 when Monash celebrates its first quarter century. It is hoped that the Theatre will mark that occasion with a suitable festive program.

### Robert Blackwood Hall

For Robert Blackwood Hall, 1982 was a year of considerable significance. The long awaited north-east extension was completed, providing a large ground-level storage area and a larger stage-level store-room. At last the Hall has proper and convenient storage for the valuable graduation furniture, the two grand pianos and other important goods. As well, large string instrument cases can now be accommodated there instead of in the foyer.

The second important event was the completion of extension, modifications, sound-proofing and safety-proofing of the two sound control booths. They are now, at last, of an acceptable standard, particularly for recording.

Following discussion with the Vice-Chancellor's Department, Robert Blackwood Hall now has agreed to set aside from its earnings each year \$10,000 to a sinking fund which will, in the future, provide funds for seat-cover and carpet replacement and other major maintenance and repairs.

The Hall again was used extensively. It is interesting to note that since the Hall's opening in June 1971, approximately one and a

quarter million persons have attended functions in the Hall, and most of these are from off-campus. This achievement must surely exceed the most optimistic hopes of the 1964 Council who initiated the Hall project.

Highlights of 1982 Hall usage include the continuing use by the A.B.C. for recording and concerts, particularly the successful and now well-established 'Monash Series'. Twenty-two State and Private schools used the Hall for Concert/Speech Nights. The Vice-Chancellor delivered his Orientation address of welcome to new students in the Hall for the first time and the colour and splendour of a procession and the glory of the Ahrend organ contributed to the occasion. The organ, apart from concert use, was booked for 179 practice sessions during the year. Several recordings made with the organ have been released publicly.

The Committee of Management is investigating ways and means of finding funds to install cooling equipment for the Hall, thus eliminating the last major fault in the Hall's basic design.

### **Monash University Bookshop**

The various pressures referred to in recent reports, particularly the rising cost of books, salary increases and other costs over which the Bookshop has no control, intensified again during 1982 and they were reflected in a trading loss of \$13,016. Had it not been for the excellent efforts made by the Manager and his staff however, the deficit would have been far greater. It is most disappointing for them, and for the Bookshop Board, that after having striven so hard, the Bookshop finished the year with a trading loss.

Once again staff related costs are the major problem; even though the Bookshop staff numbers were reduced from 26 to 24, the staff related costs increased by \$62,965 to \$432,842 in 1982.

Gross sales of \$1,683,731 were up slightly compared with the 1981 level of \$1,603,189.

The continued existence on campus of other book outlets compounds the difficulties

with which the Bookshop is faced, as the resultant lower sales, particularly of stationery, lead to higher overhead costs per unit, and these must then be passed on to the purchaser in the form of higher prices.

The Bookshop Board sees no way of substantially cutting costs without reducing service to the University community, a step which it is loath to take. However, no commercial operation can continue to operate for long periods with trading losses each year and the Monash University Bookshop is no exception. Another trading deficit has been budgeted for in 1983.

### **Religious Centre**

This year witnessed a number of changes in the personnel most closely associated with the Religious Centre, with the arrival of two new chaplains and the departure of another two later in the year. Fr Laurence Foote O.P. was welcomed as the new (full-time) Roman Catholic chaplain at the start of the year and Fr Nicholas Moutafis took up an appointment as (part-time) chaplain to Greek Orthodox students in second term. Late in September Rev. Vernon Kleinig, the (part-time) chaplain to Lutheran students left to take a school chaplaincy appointment in Brisbane. Furthermore, after six years as full-time Protestant chaplain Rev. Derek Evans transferred to parish ministry from the end of 1982. Rabbi Laibl Wolf, the chaplain to Jewish students, attended in the chaplaincy on a full-time basis during the year.

Changes also occurred in the facilities available in the Religious Centre, with the completion of the extensions to the organ loft, to accommodate singers and musicians, and the arrival in November of the harpsichord. The commissioning of this instrument was made possible through the generosity of Mrs Vera Moore and the H.E. Wilms bequest. Both the harpsichord and the enlarged organ loft have been favourably received and have improved considerably the facilities offered by the Centre for musicians and musical events.



The Religious Centre continued to be used daily for services by the various faiths, and the campus religious societies utilised the facilities for their meetings and discussion groups. Many outside organisations also used the Centre for seminars and conferences. One hundred and eight weddings were celebrated, and several funeral and memorial services conducted in the chapels.

A full year of weekly, and during second term twice weekly, recitals for organ, piano, vocal and instrumental groups, performed by both overseas and local artists developed the Centre's activities in the musical sphere.

As in the previous year an interfaith service was held to mark the commencement of the academic year, the address being given by Rev. Dr J. Davis McCaughey, former Master of Ormond College, University of Melbourne.

### Careers and Appointments

Procedures instigated to generate income to meet non-salaried costs were successful in 1982. These included seeking donations from employers, a recruiting fee from employers recruiting on campus, training programs, and subscriptions to the publication *Careers Weekly*. Whether part funding of the service in this way can be sustained in times of economic hardship remains to be seen.

Despite the imposition of a recruiting fee, the Employer Interview Program was supported by employers only slightly less than in 1981. Concern about economic hardship and its consequences for employment prospects is influencing students' choices of courses in favour of those perceived to offer reasonable job prospects *at the time the choice is made*. Although such long range guesswork is a hazardous method of career planning, there is good evidence that the graduate enjoys an advantaged position in the labour market and is even somewhat protected from the consequences of market fluctuations.

The level of schools visiting increased yet again. Already, indications are of increased demand for this service in 1983, and efforts

will be made to spread the burden imposed by this work on the Careers and Appointments Service (much of it is after hours) among other departments.

Research and investigation was well supported by employers, and a number of publications covering diplomates in education, and graduates in computer science, medicine, accounting and geography were produced. Additional publications included *Graduate Starting Salaries* and *On Starting Work*, and the booklet 'Why Study?' was distributed to schools throughout Australia.

Staff continued with their professional development, and in addition to the training courses conducted by the service, several others were attended. A possible staff exchange with a careers adviser from the United Kingdom is being considered for 1984.

The Graduate Careers Council of Australia was active in co-ordinating co-operative activities in 1982. These include quarterly meetings with employer groups, the production of a video film 'The Job Hunter', and an annual conference organised by careers services in New South Wales. A major project, the Employment Orientation Program, a co-operative venture of employers and careers services, was held at R.M.I.T. in December 1982. This successful venture was attended by 150 graduates drawn from throughout Victoria. In February 1983, an employer sponsored initiative for students commencing their final year is to be held at the University of Melbourne.

During 1982, the need to increase our efforts towards students in their first and second years has become increasingly apparent. Partly this need has been met by increased contact with academic departments, and being present at enrolments, re-enrolments. A 'self-empowerment' program is being developed for 1983.

### University Counselling Service

The past year has been a very busy year for the Counselling Service. There has been an increase in most aspects of our work. There

has been a marked increase in the number of students attending our group work programs; there has been an extension on our consultative work with staff; individual counsellors have continued to increase their skills through attending courses and seeking private supervision of their work at their own expense. A change in the pattern of the usage of the service has been detected, with more students requiring longer-term counselling — with an apparent increase in the stress they face in tertiary education. Although the workload has been excessively heavy the members of the unit are not daunted by the challenges they face and find those challenges exciting — requiring constant appraisal of their work and of the ways in which we need to change to meet the changing demands.

The bulk of our work is in one-to-one counselling. During 1982 there was an increase of 200 in the number of interviews conducted by the unit. We continued to provide a limited evening service to the Halls of Residence and a half-day per week service at the Alfred Hospital. In all, some 625 students took part in our various group programs, such as study skills, stress management and relaxation, preparation for exams, and orientation for part-time and mature-age students. Counsellors continued to be available to see clients after hours by appointment. The service provided lectures for both the Medical and Law faculties during the year. The counsellors value these opportunities of making this contribution to the academic life of the University.

Four major problem areas stand out for our clients — relationship difficulties, issues of identity and self-esteem, study skills, and academic problems. There has been a marked change, not so much in the type of problems presented, but rather in the level of stress and severity involved. Twenty per cent of our clients now have severe problems, a marked increase over past years, and the severity of the problem is such that their normal functioning as either a student or staff is inhibited. This has put a considerable strain on the

counsellors, to the point of physical and mental tiredness. We have had to look carefully at our own health, and at whether, in the future, we can continue to offer the same wide variety of services.

The level and instability of staffing continues to be a problem, and although some temporary relief will be available in 1983, that will be offset with one member of staff being overseas for six months on staff development leave.

### **Students' Grants and Loans Committee**

Seventy-eight applications for assistance were considered, of which seventy-three were approved; two of those approved were given as non-repayable grants.

The total amount of assistance given was \$101,197, an increase of 5.8 per cent of the previous year's total of \$95,605, comprising seventy-one approved applications.

A total of \$61,232 was received in repayment of loan principal, and interest on loans and on unutilised funds aggregated \$20,905.

During the year the trend toward larger individual loans continued, giving rise to preliminary investigations into suitable measures to prolong the life of the funds administered by the Committee.

Expressions of appreciation for assistance given continued to be received.

### **Student Housing**

The number of requests by interview through the Student Housing Office for advice and housing assistance of all types during 1982 was 3,867.

The percentage of students requesting independent living in flats, houses and rooms remains at 87.5 per cent, with 12.5 per cent being for private house accommodation. All types of accommodation become harder to find each year, particularly at rents students can afford to pay. Rents have risen steeply in 1982 and are expected to rise further. Extensive advertising for accommodation was arranged at the end of the year with all



universities and other tertiary institutions combining, but so far with little result, at least as far as Monash is concerned.

The number of applications for accommodation in the South-east Flats in 1982 continue to be at a high level. Group living remains popular and fifty-five applications for whole flats for 1983 were recorded during 1982, only twelve of which were able to be gratified. Two thirds of these applications were from overseas students. The occupancy rate for 1982 was 96.8%.

### **Halls of Residence**

The Halls of Residence experienced a satisfactory year during 1982 retaining full occupancy throughout the academic year and exceeding the Budget expectations during the vacations. However, whilst the conference bookings were better than the Budget estimate this activity as a percentage of income is declining.

The accommodation fee was \$34.72, an increase of 9.49 per cent over 1981. The residency cost per student (averaged) was \$45.54 per week. A student taking all meals, at the averaged expenditure for meals, spent \$61.18 per week. For the first time since January 1980 the price of meals was increased by ten per cent.

Associate Professor J.H. Smith was Chairman of the Committee of Wardens. At the close of the year Dr Michael Knowles and Dr Ione Fett resigned as Wardens of Farrer Hall and Richardson Hall respectively. Mr Lee Parker, a member of the Accounting and Finance Department, and Dr Dudley Blane, a member of the Faculty of Education, were appointed as Dr Knowles' and Dr Fett's successors.

### **Health Service**

In 1982 the Health Service saw little change from previous years, with 7,301 people making 21,481 visits. This was 112 less people and 893 less visits than in 1981. This was associated more with a decrease of staff usage than one by students.

5,636 students used the Health Service at some time during the year. This was 40 per cent of the 14,221 students enrolled. 1,476 staff members and 189 visitors also used the service.

The visits were made up of 17,201 by students, 3,919 by staff and 361 by visitors.

The Health Service did not have the services of a consultant psychiatrist for the first time since 1968. Attendances in the psychological area did not appear to have been affected, probably because of the expertise of one staff member in this area.

## RESEARCH CENTRES

### Aboriginal Research Centre

The Aboriginal Research Centre has continued its involvement into the stimulation of research into Aboriginal demography, legal status, health, education, employment, languages and land rights during the past two years.

The Elizabeth Eggleston Memorial Aboriginal Resource Centre continues to function at optimum level, being used by the public and schools in the vicinity, as well as by researchers, staff and students from this and other universities. It is pleasing to note the increased use by Aboriginal organisations and individuals. Extra shelving has had to be installed, and re-arrangement has been made to accommodate users and the Centre's holdings. The Resource Centre responded to almost 1,000 telephone and written requests for information during the past 18 months.

The Aboriginal Studies course continued with maximum enrolments both in 1981 and 1982. Lectures were well attended by the public and staff of the University. Additionally, teachers from schools in the vicinity availed themselves of the lectures, attending with classes of High School students and Aboriginal students attending special courses in Melbourne.

Major research undertaken by the Centre during the last 18 months has included: evaluation of the Adelaide Aboriginal Community College (C.J. Bourke and others); provision of Legal Services to Victorian Aborigines (Gregory Lyons); a survey of Aboriginal housing needs in Victoria (Jenny Bryant); Bala Bala: some literacy and educational perceptions of three Aboriginal communities (E.D. Fesl).

The following projects were undertaken during the year: Education Services Booklet, Aboriginal Studies Kit for Non-Aboriginal Children, Bandjalang Language Program for Aboriginal adults, and extension of children's programs, Walpiri Language and Culture classes for adults, history of the Victorian Aborigines Advancement League, instrument design for Aboriginal Health Section

of Health Commission and a Racial Awareness Seminar for tourist coach drivers, cooks and couriers.

The Centre, in its role as a training institute for Aboriginal persons, has trained eighteen persons over the past five years. Of these only three were unable to take up employment after leaving the Centre.

The Centre was involved in a number of activities both within the University and the Aboriginal community, the most important of which included: Pioneer Week at Camp Jungai, Open Day displays at Monash, N.A.D.O.C. Week Activities, including provisions of a social event involving University staff.

Centre staff attended the following conferences: Applied Linguistics Association of Australia/Australian Languages Association Conference in Canberra; Aboriginal Languages Association Conference in Batchelor, Northern Territory; conference of the Australian Federation of University Women in Canberra; the ANZAAS Conference which took place in Brisbane; the French Society for the Promotion of Aboriginal Culture Conference in France; the South Eastern Australia Study Group Conference in Canberra; the Three Nations Conference and Workshop in New Zealand; the conference on Adult Literacy in Brisbane; and the conference on Bicentennial History in Canberra. A number of papers were presented at the above conferences as well as other universities throughout the year.

One of the most important functions in which the Aboriginal Research Centre has been involved with Monash University has been the establishment of the Monash Orientation Scheme for Aborigines. For the first time in a university in Australia it is hoped that in 1984 a special orientation year for Aboriginal students will take place on campus in conjunction with the Law and Arts Faculties. The Scheme hopes to enhance the chances of Aboriginal students of being successfully able to complete degrees in this University.

In summary, the Centre continues to play an important role in the Australian and Victorian communities, dispensing information, research, and teaching services, as well as advice which cannot be obtained readily elsewhere, to both Aboriginal and non-Aboriginal communities involved in Aboriginal matters.

### **Computer Centre**

1982 proved to be one of the Centre's busier and more eventful years. Acquisition of a significant amount of new equipment enabled computing services to be extended. The introduction of the new fourth year syllabus for the Electrical and Computer Systems Engineering degree resulted in a significant amount of new work for the academic staff and the new courses were well received by both the students and the Electrical Engineering Department. The new equipment was brought into operation for the start of the academic year as a consequence of the University using the strategy of ordering computers with a cancellation option in advance of knowing what its equipment grant would be. The foresight of the Administration in doing this has ensured that equipment funds are put to effective use as soon as they become available, allowing the Centre and its customers to commence academic programs as much as a year earlier than they might otherwise have done.

There was a substantial increase in the amount of computing carried out in 1982 compared with 1981. All departments were allocated the full computing budget which they requested based on 1981 charge rates. By September it was clear that many departments would exceed their budget and the charge rates were reduced by about 30 per cent. Even so the total income from University departments exceeded the cost of providing the service and a 36 per cent rebate was applied to all accounts. It is difficult to predict how much further the unit cost of the Centre's services will reduce. The point is being approached where a significant num-

ber of previously unsatisfied requirements will have been met and it is therefore likely the cost per unit of computing will tend to stabilise until the time comes when the Centre moves to a new class of equipment. The effect of using the VAX computers has been to reduce the unit cost of computing for many classes of work by a factor of about 5 in terms of the 1978 dollar. Allowing for inflation the reduction is significantly more.

While the capital cost of computers continues to make it difficult for the University to satisfy all needs, the cost of the general purpose computing equipment alone is, for many classes of work, no longer the dominant factor. The costs of programming, proprietary programs, maintenance and associated labour tend to dominate. This is true for administrative services and for many academic activities. It tends not to be the case for large scale research calculations, such as those carried out in 1982 by the Department of Mathematics which was the Centre's largest customer. Extensive use of the Centre's machines for such work, mostly done outside normal working hours, is a major factor in reducing the cost of computing to all concerned. The charges for computing outside normal working hours are seen by the Centre as being relatively high and therefore it is anticipated that they will be reduced in 1983 if income is higher than budgeted.

At the end of 1982 the Centre was operating one nine-year old Burroughs B6700 computer which continued to carry out a significant but decreasing amount of the University's computing. A second, more recent model B6700 was acquired from Burroughs in July and was operated to provide service to the Victorian Public Works Department. Late in 1983 that machine will be augmented by peripheral units from the other in a move to provide a service for the University to last until the end of 1984 and possibly longer.

In addition to the B6700s the Centre operated seven Digital Equipment VAX11/780 computers and twelve PDP-11s were used



with the MONECS (Monash Educational Computer System) software to serve first year students in Computer Science and Mathematics. A node to the CSIRO computer network CSIRONET was kept in operation, though little use was made of CSIRO computers. The main use of the network was to provide a link between the Department of Computer Science VAX computer and others around Australia using the Unix operating system.

During the year the number of terminals connected to the VAX and Burroughs computers increased from about 600 to 710. Some 220 of them were connected to MONET (Monash Network) which the Centre designed and developed. At the end of 1982 substantial progress had been made in installing MONET, with 11 network nodes operating on campus and one at a teaching hospital. There were orders for a further 70 connections and work was in progress to construct additional nodes to bring the total number to be installed on the campus to 27.

The teaching program of the Centre was extended in 1982 to include new fourth year subjects for the Electrical and Computer Systems Engineering degree leading to a significant increase in the workload of academic staff who were involved in teaching a total of 17 service courses. These were for the departments of Computer Science, Civil Engineering, Electrical Engineering, Mathematics, Physiology, Environmental Science and the Education Faculty.

The bulk of the research and development activities continued to be devoted to the local area communications network, MONET. An experimental version was delivered to the Victorian T.A.B. and another ordered by Telecom. By the end of the year voluminous technical documentation had been prepared for making application for patents.

A number of significant computer hardware and software projects were completed to enhance the capabilities of the Centre.

These included new graphics plotting equipment, a file transfer system, registration and accounting programs, acquisition and refurbishing of used B6700 equipment and a major overhaul of the computer room air-conditioning.

Revenue earning work was carried out during 1982, mainly for established customers including the VUAC, ACER and several tertiary colleges.

Planning for the 1985-87 triennium was an additional activity for 1982. The plans submitted to the Development Committee and later incorporated in the University's submission to the Commonwealth Tertiary Education Council seek capital funds of the order of \$800,000 per annum to provide for both new facilities and the replacement of worn and obsolete equipment. There is also a proposal for a computing laboratory to accommodate computer terminal facilities in space suitable for teaching.

At the beginning of 1982 a total computing budget of \$1,487,942 (non-discretionary funds) was distributed to departments for the purchase of computing resources from the Centre. All departments received the allocation requested. The rates set for the different computers were kept at 1981 levels until September when they were reduced by about 30%. As in previous years there was no charge for the use of the MONECS computers and the Centre did not attempt to recover the cost of its teaching activities.

The following table shows the allocation of computing funds to faculties and the amounts recovered during 1982. The total University (FS1) budget for the Centre was \$1,324,120. Of this it is estimated that \$200,000 was spent on teaching and support services which cannot be included in the cost of time on the main computers. To break even the Centre should have recovered \$1,121,322 rather than the \$1,752,065 actually recovered and a rebate of 36 per cent was therefore made.



### 1982 Computing Budget Allocation and Expenditure

Faculty	Initial Budget	Final Budget	Actual Recovery	Adjusted Recovery
Arts	34,400	34,700	23,711	15,175
Economics	210,000	210,000	137,896	88,253
Education	12,000	12,000	10,073	6,447
Engineering	278,360	358,630	251,223	160,783
Law	2,000	2,000	1,061	679
Medicine	75,157	76,657	52,654	33,699
Science	616,550	846,550	978,916	626,507
Administration	170,000	170,000	192,074	122,927
Library	81,500	81,500	101,047	64,670
Others	7,975	7,975	3,410	2,182
	1,487,942	1,799,742	1,752,065	1,121,322

(Charge rates from September, excluding rebate: B6700 \$42-\$74, depending on job priority; VAX \$30 per hour.)

One encouraging aspect of the financial picture is that the drop in external income foreshadowed in the 1981 report did not occur. There was a significant increase as a result of being able to keep the older B6700 operating longer than had been anticipated and providing service to the Victorian Public Works Department. This arrangement is expected to continue for part of 1983 and thereafter external income is likely to drop. Fortunately over the past year the Centre's dependence on external income for meeting some essential staff costs has been reduced and a drop in income will not have unduly serious consequences.

#### Centre for Continuing Education

The work of the Centre continued in those sectors in which successful programs had been mounted in previous years, but also expanded into one new field of activity. Its 'Welcare' program of seminars and conferences for professional staff working in the fields of welfare and health care, on issues of current concern in these fields, continued to receive strong support. Twelve activities

attracting a total of 1,200 registrations were successfully conducted. Many of these were organised with the active collaboration of Foundations, professional bodies and other agencies. All involved leading practitioners in their respective fields as resource people.

The program of intensive short courses (three to five days) in Engineering was smaller than in previous years. Four courses (compared to six in 1981), with a total enrolment of 141 were offered. There is evidence that the pressures on academic staff, arising from contracting departmental budgets, are making them more reluctant to find the time, outside their normal duties, to plan and conduct such courses.

The 'Languages for Adults' program, based on the Language Centre, continued at much the same level as in previous years. Fourteen courses attracted viable numbers at the beginning of the year — a total of 261 enrolments being received. Drop-out is an unavoidable phenomenon in such courses, but the number continuing in the second semester (118) was proportionately smaller than usual and three classes were discontinued.

The Centre for Continuing Education invited the Victorian State Treasurer, Mr Rob Jolly, a Monash graduate, to deliver the inaugural address at a luncheon in connection with the Centre's 'Update' business training program. Mr Jolly (*right*) is pictured with Dr Jack McDonell, Director of the Centre.

— Photo Rick Crompton



The new area of activity was the 'Update' business training program, providing a range of seminars and short courses. These were primarily addressed to the needs of small businesses in the suburbs around the University. A supporting grant was received from the Small Business Development Corporation. Altogether, fifteen activities were conducted, with a total enrolment of 315. Another fourteen however, were cancelled because of low enrolments. Since its costs included the salary of a co-ordinator, the program needed subsidy from the Centre's Development Fund. It was decided to continue to offer it in a modified form in 1983, but without commitment to its continuation beyond the end of that year.

1982 was the first full year of operation of Normanby House as a C.C.E. responsibility. Ninety-eight separate events, ranging from single meetings to a twelve-day residential training program, were held there during the year. Client organisations were widely distributed among the educational and business communities and accommodation was provided for a large number of University visitors, for periods ranging from a few days up to five months. Financially, it was a profitable year, enabling some funds to be allocated to improvements to the building.

Overall, the total level of activity undertaken by the Centre increased and shows signs of continuing to do so in the future.

## Graduate School of Environmental Science

1982 was the tenth year that the degree of Master of Environmental Science has been offered. The number of units taught by the Graduate School was twenty-nine and with other relevant units across the campus the number of units available for selection by candidates was increased to 154.

A course on Applied Ecology and Conservation continued to be offered to undergraduates of the Engineering Faculty and one on Soils, Land Use and the Environment was taught to Geography undergraduates.

Interest in the Master of Environmental Science course continues and a high standard of applicants are available from which to select candidates.

Twenty candidates have been involved in project work for which the research reports and minor theses will be submitted in early 1983. Topics studied were: current energy strategies — critiques and alternatives; evaluation of uniform building regulations; disposal of classified wastes by Hamersley Iron in the Pilbara, W.A.; a study of the Latrobe River adjacent to A.P.M. Mill, Maryvale; the West Nakanai Oil Palm Scheme in West New Britain, P.N.G.; a heritage evaluation of the Commonwealth holdings at Portsea and Point Nepean and the Morwell River diversion — urban and rural implications and Western science, technology and cultural imperialism in the Third World.

As well as being involved in supervision of the above research teams, staff have undertaken research into: social contexts that connect care of the natural environment with care of the person; development of an educational game on Australian futures; evaluation of the use of a wind energy system to service intermediate community structures; public attitudes to energy conservation and energy management policy in Melbourne; preparation of guidelines for energy conservation in local government; uptake of metal cations by plants and their relevance to animal nutrition; evaluation of the effectiveness

of postgraduate environmental education programs in Australia and Southeast Asia; the way different means of transport affect the way we perceive environmental phenomena; the implications of technology (the 'technical system') for sustainable lifestyles; influence of fluctuating soil temperatures on the growth of lupin seedlings and effects of environmental gradients and mechanical disturbance on the association of plants in Eucalypt forests of south-eastern Victoria.

Dr E. Ealey, Director, visited Mahidol University, Thailand, as a A.U.I.D.P. consultant. He presented two papers at the Man-Environment Impact Conference in Toronto, Canada, and visited environmental education programs in Canada and the U.K. While supervising research teams he visited the Pilbara District and West New Britain.

Dr Ealey continued to serve in a number of appointments outside the University as did other staff members.

### Enrolment Information

	Full-time	Part-time	Total
Enrolled December 1981	32	102	134
Number of applicants for 1982	36	66	102
Offers made	29	57	86
Acceptances	18	37	55
Total enrolled April 1982	24	119	143
Total withdrawn/ intermitted during 1982	1	14	15
Graduated	2	14	16
Total enrolled December 1982	25	112	137

The School was host to a number of distinguished visitors during 1982. Professor W. Stapp visited on a Fulbright Scholarship from the University of Michigan. He gave a series of lectures and evaluated environmental education programs across Australia. Mr



Songvut Phetpradap, from the Maejo Institute of Landscaping and Environmental Conservation, Thailand, visited under the A.U.I.D.P. Thai University Lecturers Scheme. Professor Bent Sorensen, from Roskilde University Center, Denmark, had discussions with the staff on energy conservation and gave a course of lectures to candidates.

### **Higher Education Advisory and Research Unit**

The Higher Education Advisory and Research Unit (HEARU) has two sub-sections, the Advisory and Research Unit situated in the Law building and the Educational Technology Section located at the rear of the Medical building.

Both parts have experienced an increase in the demand for their advice and service from departments and individuals. The tasks have been diverse, ranging from requests for information to extended course evaluations, from advice on examining to the maintenance of the data bank, which commenced in 1970, of the sociological characteristics of entering first-year students. Of the 106 identifiable departments and sections within the University, the Educational Technology Section provided services to 79 and provided the technical support to the Rotunda Lecture Theatres.

One innovation in 1981 was the introduction of a small grants scheme to encourage innovative teaching. The scheme was called the Teaching Improvement Projects (TIPs) and was funded by the Vice-Chancellor in 1981 as a pilot year. The TIPs scheme was so successful that it was continued into 1982. Twelve projects were supported, the content of which varied from videotapes of pre-laboratory instruction, to computer generation of Chinese characters, to a self-help resource centre in Mathematics.

1982 was the fifth year in which Monash University has conducted the Thai Universities Lecturers' Scheme. This year Thai academics came from the Thammasat University and the Maejo Institute of Agricultural Technology and spent two days each week for about five months in HEARU for a formal course on teaching and learning in higher education.

Through the Australian Universities International Development Program, HEARU has been involved in assisting Hasanuddin University in South Sulawesi, Indonesia, in designing its new campus and presenting courses on Teaching Methodology.

One book, five articles, and ten internal reports were published in 1982.

# STUDENT ACTIVITIES

## Orientation

Budgeting was predictably tighter than ever in 1982, but Orientation activities were maintained at much the same level as in previous years by dint of careful costing and with generous help from the Union Board. Future years' budgeting will be facilitated by the new arrangements agreed upon by the Professorial Board.

The opening academic ceremony on 24 February in the Robert Blackwood Hall was the major innovation in the program and proved highly successful; the Hall was filled with new students for a welcome by the Vice-Chancellor, who was joined by the Deans and senior officers of the University and the Union. The Oscar Mendelsohn Lecture was once more delivered during Orientation, Mr Don Dunstan attracting a capacity audience to the Alexander Theatre.

Special functions were again held for part-time and mature-age students, and the Joint Orientation Committee this year sponsored functions organised by the Monash and National Overseas Students Services. The continued popularity of the Host Scheme, in which at least 1,500 new students took part, led the Committee to undertake a careful evaluation of its goals and financing and it is to be hoped that the Scheme's value within the whole process of Orientation can in future attract the desired degree of financial support.

## The Union — Administration and General

In 1982 the Union, operated on an expenditure budget of \$1,785,000 derived mainly from a Union fee of \$178 for full-time students and \$112 or \$78 for part-time students. 25% of the fee income was allocated to the Union Development Fund.

For several years building development has been concentrated on completing the Sports and Recreation complex. With the completion of the swimming pool and tennis courts in 1982 (as detailed later in this report) the major facilities in this area are now estab-

lished and attention can be given in future to necessary building extensions and refinements. The Union continues to negotiate with the Faculty of Medicine and the Alfred Hospital for more satisfactory and less costly recreational facilities for students at the Alfred Hospital. It is prepared to provide recreational equipment for students at the proposed Queen Victoria Medical Centre.

The catering result for the year was a deficit of \$37,500 which was well within the budgeted deficit of \$40,000. The credit for this result, which is very favourable when compared with results reported by other Victorian universities, must go to the Catering Manager, Mr Charles Svec, and his staff. The Union Board, anticipating a higher deficit, engaged the services of a catering management consultant towards the end of the year and this appointment coincided with the resignation of the Catering Manager. The alternative food outlets, the Pantry and the Wholefoods Restaurant, returned a small surplus and a small deficit respectively. During the year the Wholefoods Restaurant service extended into a sandwich bar which was very well patronised.

In the staffing area one new position for swimming pool supervision was created and several staff positions were re-classified.

The recurrent budget allocations to Union departments included a new allocation for research students at the down-town hospitals, and an increase in subsidies to clubs for interstate travel. Special allocations were also made to the 1983 Joint Orientation Committee for the Host Scheme and for a survey on the effectiveness of the orientation program.

A research project and report on the current and future needs of student parents for child care at Monash was funded jointly by the Union and the Vice-Chancellor. The Board strongly supported recommendations in this report that the University accept more financial responsibility for child care facilities and, while awaiting the outcome of this rec-

ommendation, has increased Union funding in this area in 1983.

Apart from the major student groups whose reports are given separately, several of the special interest groups have experienced a fruitful year. The three groups mentioned below have all shown tremendous enthusiasm for their co-curricular activities and a purposeful approach to and considerable progress in the business of acquiring professional expertise in these activities. They have also had some very rewarding interaction with the public which we would like to think has favourably influenced the public image of the University and has drawn attention to the range of educational opportunities which it offers.

The Student Radio 3MU which, up to date, has broadcast through speakers in the Union, celebrated its tenth birthday and came nearer to its goal of going to air as a fully-fledged radio station. It has obtained an AM licence to broadcast within the University and to the Halls of Residence, and is currently researching the implications of an FM licence and the establishment of a community radio station at Monash. It is liaising with several other student radio stations to form a federation.

Activities by C.R.A.C., Community Research Action Centre, have included a weekly radio program broadcast from 3CR, workshops on media production, campaign planning and public speaking and numerous special projects on current issues such as native forests, nuclear disarmament, Tasmanian wilderness, Aboriginal rights and women's rights. Several of the projects involved video and film productions.

Student Theatre activities focussed on the Festival of Comedy and Dance, comprising four productions at the Alexander Theatre in June and July, presented by Student Theatre and the Alexander Theatre jointly. This involved all of the student theatre and several non-theatre clubs and gave the participants the invaluable opportunity of working with professional staff in a professional theatre. The wide publicity given to this fes-

tival helped to publicise the theatre facilities at Monash. Other highlights of the Student Theatre year were participation by members of the Modern Dance Club in a production at the Melbourne Concert Hall, and M.U.M.C.O.'s presentation of a melodrama at Sovereign Hill.

### **Monash Association of Students**

1982 was a mixed year for the Monash Association of Students. With the threat of legislative restrictions on how the Association could expend its funds hanging over its head, the year began on a bad note. However, the election of the Cain Government removed this problem. Once again the Association worked closely with the Australian Union of Students on a number of nationwide campaigns, including, in particular, the anti-loans and women's rights to education campaigns.

On the campus level, the Association extended its services to students in a number of areas. With student incomes falling dramatically, the Student Employment and the Student Welfare Offices received increased funding.

The problem of the enormous drain the Union fee was having on students' income was also addressed (in 1982 the full-time fee was \$178.00). A successful campaign to have the extravagant Union Development Fund cut from 25 % of the fee was launched as were moves to have the Union Catering operations looked into.

Staff assistance was, once again, invaluable during 1982 with all members contributing long hours under difficult circumstances, with excellent results.

1982 was a worthwhile year from the Association's point of view with a few of its more memorable moments noted here. It was, however, far from perfect and it is hoped that the coming years will see some efforts made to address both the Union's and the Association's more fundamental problems.



### **Monash Association of Graduate Students**

The 1982 M.A.G.S. Collective Committee has been one of the most active committees of M.A.G.S. in the past few years. The number of committee members had increased from 1981 and the level of active participation in the running of M.A.G.S. was high through the year. A program of holding at least one general meeting each term was again followed in 1982. General meetings are well attended and provided an excellent opportunity for the committee to report on the progress of various campaigns and for the general membership to discuss issues relevant to themselves and/or graduate students at Monash University in general. Effective use of the established contact network throughout the departments ensured regular feedback from students and provided ample opportunity for information to be distributed to full-time students. M.A.G.S. still encounters difficulties in being able to maintain even minimal contact with part-time graduate students.

The main issues in 1982 were the working conditions of part-time tutors and demonstrators, and the incomes for students on scholarships and awards. M.A.G.S. was involved in the Australia-wide campaign, co-ordinated by the Council of Australian Post-graduate Associations, for the level of the Commonwealth Research Awards to be increased. An increase in the awards was announced in the 1982 Federal Budget. M.A.G.S. sent three delegates and one observer to the C.A.P.A. Annual Council held in December 1982 at Melbourne University.

### **Clubs and Societies Council**

1982 saw a greater than usual turnover in the composition of the Clubs and Societies Executive which administers the budget of more than \$75,000 provided by the Union Board to facilitate club activities. The year also saw several staff changes. With these challenges to be overcome, the Executive and the continuing staff members made great and

successful efforts to cope with an expanding load of club activity and with a wide variety of new club initiatives.

Daily, and often hourly, use was made of the services provided by the General Office — photocopying, duplicating, electronic stencil cutting, typewriters, screen-printing, and the loan of urns, cups, games and photographic and video equipment.

As in previous years, the Executive and the office staff provided invaluable assistance to club office-bearers, not only in the allocation of funds but, often more importantly, in helping newly appointed club personnel to understand and carry out their duties and to plan and organise projects and social functions, magazines and off-campus conferences and camps.

### **Union Tuition and Summer School**

Union Tuition has been offering a wide range of courses for many years. The annual Summer School comprises intensive short courses and uses venues throughout the University. The 1982 Summer School contained over 100 courses in 72 subjects in arts, crafts, music, languages, sports, dance, etc., and proved very popular yet again.

A further 250 courses in many subjects were offered in the term programs throughout the remainder of 1982. Week by week courses are now well established and form the basis of the program. In 1982 a whole new concept of weekend workshops was introduced and these have proved highly successful. They have wide appeal, serving as an introduction to a subject, and also for working people who are often too busy to schedule week by week courses. For the first time a school holiday program was offered and, although only mildly successful, caused such interest it is proposed to offer another during 1983 with more advertising aimed at students on holiday at the time.

The Centre faces ever increasing competition from many local community-backed centres, TAFE colleges and schools offering similar programs. However, despite this

The Monash Fencing Club staged a duel as part of the University's Orientation Program activities.

— Photo *Tony Miller*



greatly increased competition, courses at the Centre enjoy increasing popularity due in the main to the excellence of the tutors and facilities offered. It is a constant challenge to provide a good, varied and challenging program four times a year that appeals to the current market. In 1983 more emphasis will be placed on short interesting courses, weekend workshops and school holiday programs. It is hoped that the Centre will continue to expand and diversify in the future to meet community and campus requirements.

### **Sports and Recreation Association**

1982 saw the long-awaited swimming pool complex completed. After several delays in the building program, the pool finally opened in September. The complex consists of an indoor heated 25-metre training pool, a free form leisure pool, two saunas, spa bath and sunbaking area and was designed with

particular emphasis on minimising the recurrent operating costs. Solar panels contribute considerably to reducing energy consumption, careful design of floor surfaces and drainage points aid cleaning and the use of an electronic entry turnstile avoids duplicating the existing sports centre control desk. Early usage patterns indicate that the pool will be a popular meeting place for everyone from the social 'splasher' to the competitive swimmer.

Four more floodlit artificial-surface tennis courts were completed during the year providing a total of twelve courts. Advance booking is still very much the rule as demand for courts, particularly at peak times, still cannot be satisfied.

The sports centre has further established itself as a coaching centre for groups such as the Australian and Victorian Squash Rackets Associations, the Victorian Cricket Association and Victorian Soccer Federation.

Several successful coaching camps were held during the year and the Sports and Recreation Association looks forward to furthering this liaison with state and national sports associations in the future.

One new initiative by the Association was having Monash declared the world's first 'Life. Be In It' university. This reflects that the Association in particular provides a service to both its members and the local community virtually every day of the year.

Monash achieved a number of successes in intervarsity competitions during the year and took first place in Athletics (men and

women), Soccer (men), Volleyball (men) and Lacrosse (men).

There has proved to be a direct correlation between the number of persons taking out subscriptions for Union membership and the sports and recreation facilities. As the facilities have improved, so has membership of the Union by graduates and other categories of non-University people increased — reaching nearly one thousand subscribing members in 1982. It is pleasing to find that the Sports and Recreation Centre provides an incentive for graduates to maintain links with the University which might otherwise be lost.



## GIFTS AND GRANTS

### The following gifts and grants were received by the University:

Abrams, Mrs I. D.		
for the Student Assistance Fund, (University Union)		240
ACI Limited		
towards the work of the Krongold Centre		250
Adams, The Estate of the late George		
for the project: The role of morphine-like hormones in psychiatric conditions, particularly severe depression, schizophrenia and anorexia nervosa Dr D. Copolov (Psychological Medicine)	1,000	
towards travelling expenses for 1982 visiting lecturers in geriatric medicine (Medicine)	30,000	31,000
Alcoa of Australia Limited		
to (Careers and Appointments Service)		750
Alexander, Mrs Ruth		
third instalment, Geoffrey Alexander Postgraduate Research Scholarship in Hydrology, Professor Eric Laurenson (Civil Engineering)	2,000	
second instalment, Ruth Alexander Room, Robert Blackwood Hall	1,500	3,500
Alfred Hospital		
for colorectal research, Clinical Associate Professors F. T. McDermott, and E. Pihl, Professor Sir Edward Hughes and Mr W. R. Johnson, (Surgery, Alfred Hospital)	15,500	
stipend for 12 months for Dr Hilary Hunt, (Medicine, Alfred Hospital)	11,598	
to fund research project into the occurrence of skin cancer in Maryborough, Victoria, Dr R. Marks, (Medicine, Alfred Hospital)	3,187	
research scholarship to Dr P. Ryan, (Medicine, Alfred Hospital)	11,625	
studentship grant-in-aid for the project: Colorectal carcinoma: <i>in vitro</i> testing of anti-tumor reactivity and immunomorphological staging, Professor R. C. Nairn, Mr A. J. Rollo Clinical Associate Professor E. Pihl, Dr J. M. Rolland, (Pathology and Immunology)	10,000	51,910
American Cyanamid Company		
towards conference travel expenses U.S.A. August 1982, Professor S. Faine, (Microbiology)		250
Andersen, Arthur, and Company		
to (Careers and Appointments Service)		400
Andrew, Aileen S. Foundation		
payment of 1982 scholarship for Ph.D. study at Monash for work in the fields of engineering science or pre-clinical medicine		16,000
Angliss, Estate of the late William Charles		
to fund the Mini Enrichment Program, Krongold Centre	3,000	
for Orthopaedic and Traumatic Surgery Research, Associate Professor J. Clarke McNeur, (Surgery, Alfred Hospital)	4,000	7,000
Anti-Cancer Council of Victoria		
1982 research grants:		
Dr P. J. M. Tutton and		
Dr D. H. Barkla, (Anatomy)	21,000	
Dr D. R. Smyth, (Genetics)	8,000	
Dr T. E. Gan and Clinical Associate		
Professor M. B. Van der Weyden	18,150	

Dr H. H. Salem and Professor B. G. Firkin (Medicine, Alfred Hospital)	13,750	31,900	
Professor R. C. Nairn and Clinical Associate Professor E. Pihl	50,194		
Clinical Associate Professor B. H. Toh and Dr J. S. Pedersen	5,000		
(Pathology and Immunology)		55,194	
Professor N. E. Carson and Dr A. T. Rose, (Community Medicine)		3,000	
Professor Sir Edward Hughes, Clinical Associate Professor F. T. McDermott, Mr W. R. Johnson and Mr B. J. Milne, Department of Surgery (Alfred)	19,566		
supplementation for 1982:			
Anatomy)	1,543		
(Medicine, Alfred Hospital)	1,062		
(Pathology and Immunology)	2,607		
(Surgery — Alfred Hospital)	1,943	7,155	
supplementary grant to cover shortfalls in 1981 research grants		2,879	148,694
ANZ Banking Group Limited			
donations in sponsorship of 'Trading with China' Conference, (Law)		5,000	
towards the cost of publishing 'What is ....' series, (Careers and Ap- pointments Service)		500	5,500
Apex Foundation			
1982 grant-in-aid on the recommendation of the Research Advisory Committee of the Sudden Infant Death Research Foundation, for the project: Continuous measurement of oxygen saturation in nor- mal and chronically hypoxaemic sheep fetuses, and in term and pre-term newborn lambs, Dr R. Harding (Physiology)		11,715	
grant-in-aid to Dr N. G. Wreford, (Anatomy)		4,000	
further grant-in-aid to Dr J. E. Maloney (Research Centre for Early Human Development)		27,265	42,980
A.P.M. Forests Proprietary Limited			
for research into control of wallaby damage in in commerical forests, Associate Professor A. K. Lee (Zoology)			1,000
Associated Book Publishers (Aust.) Limited			
for use in the Faculty of Law			1,950
Associated Pulp and Paper Mills Limited			
additional support for research into control of wallaby damage in commercial forests, Associate Professor A. K. Lee (Zoology)			1,800
Astra Pharmaceuticals Proprietary Limited			
in support of research study of local analgesics being conducted jointly by the Research Centre for early Human Development, and the Queen Victoria Medical Centre's Department of Anaesthesia			1,000
Australasian Institute of Metals			
for use in Department of Materials Engineering			2,346
Australia-China Council			
towards cost of visit by Dr Cheng-Ju Huang, Department of Surgery, Beijing Children's Hospital, Beijing, China, to work for 12 months in Department (Paediatrics)			6,000

Australia-Japan Foundation, The		
donation in sponsorship of 'Trading with China' Conference (Law)	3,000	
honoraria for Japanese visitors expected to visit Monash in 1982 about the time of the 12th International Congress of Biochemistry, Professor A.W. Linnane (Biochemistry)	1,000	
for the project: Research on the different attitudes to the killing of marine mammals such as whales and dolphins, being conducted by Professor P. Singer (Philosophy)	5,000	9,000
Australian Associated Brewers, The		
research projects: GIA 2022 Brain peptides in alcoholism, Dr R. D. Helme, (Medicine, Prince Henry's Hospital)	9,000	
GIA2017 A study of the effects of ethanol on prostaglandin and thromboxane production by the cardiovascular system, Professor A. L. A. Boura (Pharmacology)	17,000	
GIA2019 Experimental bowel cancer — do alcoholic beverages have any contributory or protective effects? Clinical Associate Professor E. Pihl (Pathology and Immunology)	15,000	
1982 limited short term grant for the project: Reducing neuronal damage during withdrawal from alcohol, Dr B. G. Cragg (Physiology)	2,148	43,148
Australian Biological Resources Study		
balance of 1982 grant for the project: The systematics of the Geocarpinae of Australia Mr M. S. Harvey (Zoology)		1,900
Australian Brain Foundation		
grant-in-aid for the project: Surface-reactive autoantibody to oligodendrocytes in multiple sclerosis, Dr J. S. Pederson and Clinical Associate Professor B. H. Toh, (Pathology and Immunology)	2,500	
for the project: Derivation of Substance P in the blood of rats, Dr R. D. Helme, (Medicine Prince Henry's Hospital)	3,000	5,500
Australian College of Paediatrics		
for use in Higher Education Advisory and Research Unit		100
Australian Consolidated Industries Limited		
1982 ACI-ASEAN scholarship payment, Mr A. Ratirattananont (Economics)	5,620	
to support Ph.D. research by Mr C. Christodoulou, in the area of strategic planning practices of Australian organisations, Professor P. T. FitzRoy (Administrative Studies)		6,120
Australian Engineering and Building Industries Research Association Limited		
part payment of research grant for the project: Noise control of impactive operations, being conducted by Dr L. L. Koss (Mechanical Engineering)		27,900
Australian Housing Research Council		
balance of grant for the project: Cluster style residential complexes, Dr W. H. Foddy (Anthropology and Sociology)		10,000
Australian Institute of Criminology		
first payment of research grant for the project: Implications of memory research for criminal law procedure, Dr D. M. Thomson (Psychology)		4,500



Australian Institute of Nuclear Science and Engineering		
AINSE Fellowship, Dr E. M. Gray (Physics)	20,587	
AINSE Studentships:		
Mr P. I. McKinnon (Chemistry)	5,106	
Mr M. A. Irving (Physics)	4,355	
Mr J. C. Osborn (Physics)	5,287	14,748
supplementary grant to cover academic salary increases November 1981 (Physics)	1,256	
		36,591
Australian Kidney Foundation, The		
for the projects: Cellular mediation of experimental glomerulonephritis, Dr S. R. Holdsworth (Medicine, Prince Henry's Hospital)	6,000	
The Kallikrein-kinin system in acute renal failure, Dr P. G. Matthews (Medicine, Prince Henry's Hospital)	5,000	
Renal transplant progress studies by rapid 'mixed lymphocyte' assay using fluorescent cell probes, Dr J. M. Rolland and Professor R. C. Nairn (Pathology and Immunology)	6,000	
the effect of chlorpromazine on kidney preservation, Professor V. C. Marshall and Dr P. Jablonski (Surgery, Prince Henry's Hospital)	3,300	
		20,300
Australian Law Librarians		
to the Law Library		99
Australian Museum Trust, The		
postgraduate grant to Ms R. St Clair, for the project: Study of the taxonomy of Victorian leptocerid larvae (Zoology)		500
Australian Mutual Provident Society		
for use by (Careers and Appointments Service)		200
Australian National University, The		
towards project: <i>Australia 1788-1988: A Bicentennial History</i> , being conducted by Dr M. Aveling (History)		5,150
Australian Newsprint Mills Limited		
to assist research project: Browsing damage by marsupials in eucalypt regeneration programs and pine plantations, Associate Professor A. K. Lee (Zoology)		1,000
Australian Paper Manufacturers Limited		
in sponsorship of 'Trading with China' Conference (Law)		2,000
Australian Road Research Board		
final payment for research project No. 347: signalized intersection survey method, Mr A. J. Richardson (Civil Engineering)	6,285	
to (Careers and Appointments Service)	50	
final payment in respect of research project No. 355: Long range delineation at night, conducted by Dr T. J. Triggs (Psychology)	5,622	
reimbursement of expenses for the project: Vehicle lateral displacement, Dr T. J. Triggs, (Psychology)	12,841	
		24,798
Australian Synthetic Rubber Company Limited		
supplementary grant to cover additional work, project: The flow properties of polybutadienne cements, Dr D. V. Boger (Chemical Engineering)		5,867
Australian Timken Proprietary Limited		
to (Careers and Appointments Service)		50

Australian Tobacco Research Foundation		
1982 research grant for the project: A study of the effects of cigarette smoke and its constituents on the removal and release of prostaglandins and thromboxanes by the lungs, Professor A. L. A. Boura (Pharmacology)	15,000	
supplementary grant to cover 1981 salary increases for the above project	790	15,790
Australian Vice-Chancellors' Committee (Australian Universities' International Development Program)		
payment of study leave grant to Associate Professor Fong Hock Sun of the National University of Singapore, arranged by Professor E. M. Laurenson (Civil Engineering)	3,000	
reimbursement of expenses for visit to Thailand by Dr T. Ealey (Graduate School of Environmental Science)	2,402	
to cover expenses of visit to Singapore on behalf of the AUIDP project — Engineering, Professor E. M. Laurenson (Civil Engineering)	2,500	
AUIDP incentive grants awarded to Professors E. M. Laurenson (Civil Engineering) W. A. Rachinger (Physics) J. Crossley (Mathematics) and Dr E. Ealey (Graduate School of Environmental Science)	8,000	
expenses for the visit by Professor Crossley to the Consortium of Universities, Manila	7,200	23,102
Australian Welding Research Association		
for the project: Trace elements and the elevated temperature embrittlement of low alloy steels, Professor R. McPherson (Materials Engineering)	2,740	
for the project contract No. 65: Stress corrosion cracking of welded pipelines — effect of coatings, Professor B. W. Cherry (Materials Engineering)	3,350	
for the project AWRA contract 69: Long term properties of adhesive joints in PVC pipes (research scholar Mr Yue Chee Yoon) Associate Professor B. W. Cherry (Materials Engineering)	3,180	
for the project contract No. 97: Microstructural stability of innershield weld steels in high temperature service, Dr R. A. Jago (Materials Engineering)	6,390	
second payment for project No. 80: Adhesion of thermally sprayed coatings, Professor R. McPherson (Materials Engineering)	2,860	
Sir William Hudson Memorial Awards: to Miss Gillian Heintze, towards expenses incurred in experimental work	1,220	
supplement to the Monash stipend (Materials Engineering)	1,780	3,000
for the project contract No. 99: Hydrogen stress cracking susceptibility of line pipe steels, Associate Professor B. W. Cherry (Materials Engineering)	5,940	27,460
Bailey, Mr D.		
to support Visiting Fellows under the Clinical Legal Education Program (Law)		50
Baker Medical Research Institute		
to supplement Ph.D. stipend of Miss A. E. Ward, Professor M. E. Holman (Physiology)		3,495

Baker (Kodak) Thomas, The, Alice Baker and Eleanor Shaw Benefactions		
to fund a new program to be named the Baker Benefactions Visual Arts component of the Creativity Program, (Krongold Centre)		3,000
Baxter Charitable Trust, Percy		
towards the Percy Baxter Sensory-Motor Therapy within the Motor Skills Program (Krongold Centre)	3,500	
to Research Centre for Early Human Development	2,000	5,500
Beecham Research Laboratories		
for use in Department (Biochemistry)	100	
for the project: Action of metoclopramide on the lower oesophageal sphincter, Dr G. Taylor (Physiology)	1,000	1,100
Bell Park North Primary School		
to Spina Bifida Research Fund, Associate Professor R. A. MacMahon (Paediatrics)		37
Boehringer Ingelheim Proprietary Limited on behalf of Thomae Laboratories		
final payment of NA872 project: Ambroxol research conducted by Dr J. Maloney, (Research Centre for Early Human Development)		15,000
Boger, Dr D. V. and Associates, Department of Chemical Engineering for use in Department (Chemical Engineering)		150
Bongiorno and Company Proprietary Limited		
four bursaries of \$250 each; awarded to Mr I. D. Davis, to visit Shanta Bhawan Hospital, Nepal, to study medicine, surgery and paediatrics; Miss D. M. Lewis, to visit Fiji to work at various mission hospitals; Mr A. Lolatgis, to visit Aghia Sophia Children's Hospital, Athens, to do practical work; Mr A. Nocera to visit Mount Hagen Hospital, P.N.G., to study tropical and general medicine (Medicine)	1,000 734	1,734
Bristol-Myers Company Proprietary Limited		
towards the Sotalol Study conducted by Dr B. McGrath (Medicine, Prince Henry's Hospital)		389
British Council, The — Academic Links and Interchange Scheme (ALIS): grant under the Scheme, Dr D. J. Crossley (Graduate School of Environmental Science)		800
Brockhoff Foundation, The Jack		
to fund the Brockhoff Visual Training Program for 1982 (Krongold Centre)		5,000
Broken Hill Associated Smelters, The		
1982 BHAS postgraduate scholarship for work in the field of non-ferrous extractive metallurgy, as a 'royalty' for the development of continuous sulphur drossing of lead by Associate Professor Frank Lawson, awarded to Miss Ai Choo Loo (Chemical Engineering)		5,000
Broken Hill Proprietary Company Limited, The		
donation in sponsorship of 'Trading with China' Conference (Law)	5,000	



further contribution for the project: Residual stresses in metal, Professor T. F. Smith (Physics)	2,000	
to Why Study Program (Careers and Appointments Service)	1,500	
general donation to Department (Electrical Engineering)	500	
scholarship payment for Mr G. R. Bryan, project: Finite element modelling of eddy currents in steel, Dr G. Cambrell (Electrical Engineering)	6,000	
contribution to the stipend and research expenses of Mr I. Cole, project: Research into the problem of thermal cracking, being conducted by Dr J. R. Griffiths (Materials Engineering)	7,350	22,350
<b>Brown Memorial Prize Fund, The Arthur, Department of English:</b>		
Mr A. D. Cousins \$20; Emeritus Professor W. A. G. Scott \$20; Mrs Terrell-Sanfil \$30; Professor J. P. Whyte \$20; Professor R. G. Keightley \$50; Mr F. H. Mares \$20; Miss A. M. Ridsdale \$20; Mr K. W. Bennetts \$20; Professor W. B. Steele \$50; Ms J. Elvins \$10; Associate Professor E. Barry \$30; Miss B. Niall, \$40; Dr C. G. Worth \$5; Mr P.E. Kilbride \$25; Mrs N. Ritchie \$5; Mrs W. Todd \$5; Sister E. Burchill \$10; Dr R. Slonek \$5; Professor A. S. Henry \$10; Mr T. A. Scott \$15; Professor J. M. Swan \$25; Mr L. N. Shaw \$10; Professor J. R. Garagnon \$15; Professor B. Boss \$6; Mrs B. M. Calton \$15; Professor J. D. Legge \$20; Mr T. Bass \$20; Dr M. A. B. Deakin \$20; Miss K. Pniewsky \$5; Professor L. Kramer \$10; Professor W. H. Melbourne \$10; Professor R. L. Martin \$10; Mr I. D. Legge \$20; Miss M. Swan \$20; Dr P. Gorman \$20; Ms P. M. Wagstaff \$30; Dr G. G. Hiller \$30; Mr J. F. Carroll \$25; Miss J. M. McVeity \$5; Dr D. Speed \$500; Professor and Mrs D. Bradley \$100; Mr I. W. Laurenson \$25; Mr J. M. Browne \$25	1,386	
Brown Collection, The Arthur		
proceeds from sales: to the Library	2,359	
<b>Brown Gallery, Joseph</b>		
to be spent on the purchase of works by artists, who in the opinion of the art acquisition committee, are not as yet adequately represented in the University's collection (Visual Arts)	7,000	
<b>Buckland Foundation, The William</b>		
to the Japanese Studies Centre	5,000	
for The William Buckland Foundation Project 1983; a program of research with services: The physical basis of cognitive and social development, to Professor Marie Neale (Krongold Centre)	25,000	30,000
<b>Budget Rent a Car System Proprietary Limited</b>		
towards costs of International Biochemistry Congress (Biochemistry)	500	
<b>Burchill, Sister Elizabeth</b>		
the first instalment of a gift of \$70,000 to establish the Elizabeth Burchill Fund, the purpose of which is to establish the Elizabeth Burchill Room in the Main Library and to encourage Australian studies.	10,000	
<b>Callaway Estate, L. J.</b>		
bequest to the University from the Lemuel J. Callaway Estate	12,607	
Camberwell Grammar School Ladies Auxiliary		
to the (Krongold Centre)	128	

Canterbury Girls' High School to (Careers and Appointments Service)		30
Capel Court Corporation Limited to (Careers and Appointments Service)		250
Carlton and United Breweries Limited Donation in sponsorship of 'Trading with China' Conference (Law)	1,000	
to (Careers and Appointments Service)	500	
for bio-chemical research, Professor A. W. Linnane (Biochemistry)	500	2,000
Catholic Education Office of Victoria to (Careers and Appointments Service)		150
Celanese Research Company for the project: Development of a Suicide Plasmid for our MW strain of Pseudomonas Putida, Professor B. W. Holloway (Genetics)		2,816
Clark, Professor A. for use in Department (Paediatrics)		110
Clyne, Associate Professor M. G. for casual teaching within the Faculty of Arts		761
Coghill, M.P., The Hon. K., Parliamentary Secretary of the Cabinet, assisting the Premier in Aboriginal Affairs: fee for lecture to Aboriginal Studies students, returned for use in Aboriginal Research Centre		36
Coles, and Company Limited, G. J. donation in sponsorship of 'Trading with China' Conference (Law)	1,000	
for purchase of computer equipment for use in the Centre (Research Centre for Early Human Development)	7,090	8,090
Collier Charitable Fund Wave Tank Computer, (Mechanical Engineering)	5,024	
Models (Chemistry)	800	
video equipment, (University Counselling and Careers and Appoint- ments Services)	1,676	7,500
Comalco Limited thesis allowance, Mr S. A. Fysh (Physics)	600	
final payment of reseach grant to Mr M. J. Couper for the project: Research into fatigue crack propagation in cast aluminium alloys, under the supervision of Dr J. R. Griffiths Materials Engineering)	1,500	
1981 Research Scholarship for the project: Mossbauer spectroscopy of bauxites, to (Physics)	6,700	8,800
Commercial Bank of Australia Limited, The donations in sponsorship of 'Trading with China' Conference (Law)	1,000	
to cover 18 months' extension to CBA Postdoctoral Fellowship project: Lake Albacutya — to study plant/insect interaction in arid and semi- arid areas of Australia, Dr T. O'Brien (Botany)	21,581	22,581
Commonwealth Serum Laboratories Commission final payment Interferon research project, Professor A. W. Linnane and Dr G. S. Cobon (Biochemistry)	112,000	
to research project: Monomeric insulin, Professor J. Bornstein (Biochemistry)	85,000	197,000

Coopers and Lybrand (A.C.T.) Proprietary Limited to (Careers and Appointments Service)	500	
Cottman, Estate of the late W. T. interim distribution of income from the Estate, for medical research (Medicine)	2,500	
Country Women's Association of Victoria, The Gippsland Hills Group towards Leukemia research (Medicine, Alfred Hospital)	1,000	
CRA Exploration Proprietary Limited for the project: Structural geology, vein formation and gold miner- alisation in the Chewton-Castlemaine area, Dr M. Etheridge and Mr V. J. Wall (Earth Sciences)	29,251	
CRA Services Limited donations in sponsorship of 'Trading with China' Conference (Law)	1,000	
1981/1982 additional support for the project: Research into the gene- tics and physiology of micro-organisms associated with the micro- biological leaching of ore deposits, Professor B. W. Holloway (Genetics)	22,376	
to assist with costs of science exhibits (Education)	500	
towards costs of building the Japanese Studies Centre	5,000	
towards costs of publication of 'What is' articles (Careers and Appoint- ments Service)	500	29,376
Criminology Research Council for the project: Implications of memory research for criminal law procedure, Dr D. M. Thomson (Psychology)	3,000	
Cullen, Professor J. M. for use in Department (Zoology)	200	
Deacon, Dr G. B. for research (Chemistry)	312	
Deafness Foundation (Victoria) research grant for the project: A study of the educational, behavioural and audiological consequences of fluctuating conductive hearing loss in young children, Dr G. Best (Education)	14,463	
Dean, Lady to the Elizabeth Eggleston Memorial Fund	25	
de Boer, Associate Professor W. G. R. M. towards a total gift of \$20,400 for research work, Professor A. W. Linnane (Biochemistry)	17,000	
Digital Equipment Australia Proprietary Limited for use in Department (Psychological Medicine)	475	
Downing, Dr B. for research, in vitro fertilisation project (Obstetrics and Gynaecology)	960	
Eggleston, Lady to the Elizabeth Eggleston Memorial Fund	500	
Eggleston, Sir Richard travel assistance to attend Conference of the French Society for the Study of Australian Aborigines at Cabreret, Ms E. Fesl (Aboriginal Research Centre)	500	



Elizabeth Eggleston Trust for Aboriginal Natives to be applied to the work of the Centre Aboriginal Research Centre)		8,190
Ellison Hewison and Whitehead to (Careers and Appointments Service)		100
Ernst and Whinney to (Careers and Appointments Service)		300
Eso Australia Limited		
to support the education of engineers (Engineering)	45,000	
to assist teaching (Earth Sciences)	14,000	
general donation (Earth Sciences)	11,000	
to (Engineering)	1,000	
to (Chemical Engineering)	1,000	
to (Civil Engineering)	1,000	
to (Electrical Engineering)	1,000	
to (Materials Engineering)	1,000	
to (Mechanical Engineering)	1,000	
for use in Faculty (Education)	2,000	
in support of research into diagenesis of sediments (Earth Sciences)	10,000	
to aid the advancement of geological sciences (Earth Sciences)	1,000	89,000
Fairbairn, Mr G. A. and Mrs B. H. for use in Department (Mechanical Engineering)		100
Federation of Polish Organisations of Victoria and members of the Polish Community		
towards the costs involved in the running of the Polish language course conducted within the Department of Slavic Languages; from the Federation of Polish Organisations in Victoria	1,590	
from members of the Polish Community	910	2,500
Felton Bequests Committee, The item of equipment for use in interferon research, Professor A. W. Linnane (Biochemistry)	8,920	
towards the project: Study of intervention in early childhood, being conducted by Professor Marie Neale (Krongold Centre)	4,000	12,920
Fensham, Professor P. J. to support research and other programs (Education)		300
Ferguson Dr R., and Dr J. MacKenzie Talbot for in vitro fertilisation project (Obstetrics and Gynaecology)		1,140
Firkin, Professor B. G. towards travel expenses for Dr H. Salem	2,000	
for use in Department (Medicine, Alfred Hospital)	5,500	7,500
French Embassy, Canberra for Study Abroad in Noumea Course, being a gift of \$70 to each of the six students who attended the Noumea course in 1981 (French)		420
Glaxo Australia Proprietary Limited for use in Department (Community Medicine)		1,000
Gleeson, Dr J. to the L. J. Gleeson Memorial Prize Fund (Mathematics)		50
Goethe Institute contribution towards advertising costs for Goethe Anniversary cele- brations (German)		46

Goeytes-Rios, Mrs E. G. for in vitro fertilisation research (Obstetrics and Gynaecology)		463
Goldfields Exploration Proprietary Limited in support of project: Hydrothermal mobility, transport and deposition of tin, Dr M. S. Bloom (Earth Sciences)	1,000	
for the project: Young volcanic centres of Western Victoria and New Zealand, Dr R. Cas (Earth Sciences)	500	1,500
Great Barrier Reef Marine Park Authority grant-in-aid in support of research being conducted by Dr J. Baldwin (Zoology)		379
Gregory, Dr Alan for the use of the Arts and Embellishments Committee (Education)		25
Grey, Mrs J. to the Library		20
Harvey, Mrs I. R. V. for use in (Medicine, Alfred Hospital)		10
Hecht Trust, H. and L. to fund the Hecht Motor Skills Program (Krongold Centre)	12,000	
to assist with the cost of publishing book entitled <i>Ferns and Fern Allies of Victoria</i> (Botany)	1,000	
to Research Centre for Early Human Development	1,000	14,000
Heiser Fellowship Program for research in Leprosy to cover costs in respect of Dr B. Steiner's Fellowship, Dr S. Graves (Microbiology)		2,743
Henderson's Industries Limited for use in Faculty (Education)		100
Herald-Sun TV Proprietary Limited for the project on children and television being conducted by Dr Mary Nixon to 1985 (Education)		18,696
Herbert, Geer and Rundle distribution from Custodian Trust		10
Hicks, Mr R. G. to Students' Loan Fund (University Union)		10
Hoechst Australia Limited to (Physiology)		125
Holloway, Professor B. W. to Department (Genetics)		1,866
Hughes, Estate of John F. to the (Krongold Centre)		2,000
Hughesdale Art Group from the sale of works of art executed by members of Hughesdale Art Group and displayed at Normanby House (Centre of Continuing Education)		51
Hungerford, Hancock and Offner to (Careers and Appointments Service)		225
Hungerford Hill Vineyards Proprietary Limited for the project: Growth of yeast contaminates at low pressures, Dr G. Cross and Dr J. May (Microbiology)		10,000

ICI Australia Operations Proprietary Limited		
for hypertension research (Medicine, Prince Henry's Hospital)	300	
supplementary grant to cover salary increase, Pseudomonas project,		
Professor B. W. Holloway (Genetics)	1,298	
for use in Faculty (Education)	250	1,848
Infertility Medical Centre		
to in vitro fertilisation fund (Obstetrics and Gynaecology)		5,000
Ingram Trust, M. A.		
to assist with the project: Aspects of the population ecology of small		
mammals, Associate Professor A. K. Lee (Zoology)	1,000	
to cover part of the cost of research into Comparative behaviour of		
two species of Rock Rat, Dr J. N. Nelson (Zoology)	500	
towards costs of research and the acquisition of casts of fossil birds,		
Dr P. V. Rich (Earth Sciences)	500	2,000
International Union of Biochemistry		
for Biochemical Research (Biochemistry)		4,500
In Vitro Fertilisation Friends:		
for in vitro fertilisation research, Professor E. C. Wood (Obstetrics		
and Gynaecology)		7,500
Ironside, Professor W.		
for use in Department (Psychological Medicine)		4,020
Ive, Mr and Mrs J. R.		
to (Medicine, Prince Henry's Hospital)		100
Janssen Pharmaceutica Proprietary Limited		
to cover half the costs of Ketanserin trial, (Medicine, Prince Henry's		
Hospital)		6,000
John Pierce Centre		
to cover costs incurred at Monash University in respect of the Hand-		
icapped Persons Welfare Program of the Department of Social Se-		
curity (Education)		250
Johns Perry — Johns and Waygood Structural Division		
to (Careers and Appointments Service)		75
Kellogg Foundation, W. K.		
to meet the 1981-82 budget and so complete \$149,000 commitment		
for the operation of the Australian Hospital Association Reference		
Centre based at the Biomedical Library		11,208
Kelp Harvesters Association		
for Bull Kelp research project, Dr G. A. M. Scott (Botany)		2,000
Kelp Industries Proprietary Limited		
for the project: Research into Durvillea on King Island, Dr G. A. M.		
Scott (Botany)		600
Kerstjens, Mrs M. R.		
to the (Krongold Centre)		50
Kiribati Research Fund		
for Kiribati research project, Professor A. W. Linnane, Associate Pro-		
fessor P. Z. Zimmet (Biochemistry)		5,411
Kovacs, Dr G. T.		
donation for in vitro fertilisation research, Professor E. C. Wood (Ob-		
stetrics and Gynaecology)		1,320



Krongold Centre Parents and Friends Association to the (Krongold Centre)		191
Labtest Equipment Company (S.E. Asia) Proprietary Limited for the project: Mineral powder analysis, Professor R. McPherson (Materials Engineering)		3,250
Ladbury, Mr R. A. to Law Library		150
La Trobe University, Department of French annual contribution towards cost of publication of the <i>Australian Journal of French Studies</i> (French)		100
Laurenson, Professor E. M. to (Civil Engineering)		500
Law Institute of Victoria, The donations in sponsorship of 'Trading with China' Conference (Law)		5,000
Leeton, Associate Professor J. F. for in vitro fertilisation project, (Obstetrics and Gynaecology)		8,340
Life Insurance Medical Research Fund of Australia and New Zealand, The in support of research projects: Inflammatory mediation systems in vascular injury, Dr S. R. Holdsworth	13,000	
Kinin receptors in blood pressure regulation, Dr P. G. Mathews	12,079	
Alpha and beta adrenergic receptors in experimental hypertension in the rat, Professor C. I. Johnston and Dr E. A. Woodcock (Medicine, Prince Henry's Hospital)	10,634	
Factors influencing the formation of extracellular products by smooth muscle cells in tissue culture, Dr B. W. Oakes (Anatomy)	16,243	
Platelet function and coagulation in patients with thrombotic disorders, Professor B. G. Ferkin (Medicine, Alfred Hospital)	14,807	
Supplementary grant to cover 1981 shortfall grants-in-aid, (Medicine) Alfred Hospital	3,017	
Prince Henry's Hospital	1,864	71,644
Lowther, Professor D. A. being fee due (ex Gene Satellite Meeting) redirected for use in department (Biochemistry)		100
Lucas Industries Australia Limited to the Hargrave Library		500
Lucas Foundation, The Eirene towards in vitro fertilisation project (Obstetrics and Gynaecology)		1,000
McInnes, Mr G. F. for research (Medicine, Alfred Hospital)		400
McKenzie Trust, Edith to the Library		10
McKinnon High School to (Careers and Appointments Service)		25
McLennan, Mr and Mrs, N. and J. to the (Krongold Centre)		100
Macpherson and Kelley to support Visiting Fellows under the Clinical Legal Education Program (Law)		500

Marshall, Mr D.		
to purchase Volumes 1 and 3 of <i>Operative Plastic and Reconstructive Surgery</i> (Surgery, Prince Henry's Hospital)	200	
Medical Research Council of Canada		
contribution towards costs of MRC Fellow Dr J. R. O'Kusky (Physiology)		1,547
Merck Sharp and Dohme (Australia) Proprietary Limited		
to hypertension and heart failure research, being research, being conducted by Professor C. I. Johnston (Medicine, Prince Henry's Hospital)	46,382	
to cover air travel for visiting Dr C. Bulpitt (and family) to (Community Medicine)	5,000	
support for Visiting Lecturers' Fund (Medicine, Alfred Hospital)	3,000	54,382
Millner, Mrs E. N.		
for biochemical research, Professor A. W. Linnane (Biochemistry)		500
M.I.M. Holdings Limited		
to (Careers and Appointments Service)		100
Mobil Oil Australia Limited		
to (Careers and Appointments Service)		100
Monash Ex Committee Club		
to the Library		300
Monash Medical Mothers' Auxiliary		
to the Library		1,000
Monash University Parents' Group		
for the purchase of a 'phone answering machine (Religious Centre)	282	
to (Main Library)	2,000	
Vande Graaf Electrostatic Generator and Kinematic motion simulator (Physics)	336	
laser beam pointer (Robert Blackwood Hall)	300	
microfiche and microfilm reader (German)	599	
cassette player with detachable speakers (English)	300	
<i>Atlas of Victoria</i> , handbook of political science, 8 volumes; Don Cochran Library (Economics and Politics)	210	
12x60 min. video cassettes (University Counselling Service)	300	
for Student Resource Centre models (Chemistry)	500	
towards cost of furnishing room for handicapped students in Faculty (Science)	500	5,045
Moore, Mrs Vera		
to the Vera Moore Starseekers Creativity Program Krongold Centre	20,000	
for the Vera Moore Quartet-in-Residence, Brahms Festival, Robert Blackwood Hall (first payment of a total gift of \$25,000)	8,500	
Curriculum/Education Officer in Economic and Commercial Education, (Education)	20,000	
to the Library Fund Appeal, for the purchase of books	200	48,700
Murdoch, Dame Elisabeth		
to the (Krongold Centre)		5,000
Myer Foundation, The		
final instalment of \$8,000 grant to assist in the establishment of the (Centre for Human Bioethics)		3,000

Myer Emporium Limited, The		
to acquire life of print title to the film series: <i>The People on Market Street</i> ,		
Mr G. R. Hogbin, (Economics)	2,950	
in sponsorship of 'Trading with China' Conference (Law)	1,000	3,950
National Geographic Society		
for the project: The Ghastly Blank, Dr P. Rich (Earth Sciences)		18,957
National Heart Foundation of Australia		
1982 grants-in-aid		
Dr C. L. Gibbs	4,968	
Dr E. M. McLachlan	14,125	
Dr J. B. Chapman	8,500	27,593
(Physiology)		
Professor C. I. Johnston (Medicine, Prince Henry's Hospital)	17,990	
1982 Fellowship, Dr E. Zelcer (Physiology)	26,009	
supplementary grant to cover national wage increase in 1981	13,136	84,728
Neale, Professor Marie		
to the (Krongold Centre)		30
Nicholas Proprietary Limited		
supplementary grant for the project: The effect of hydroquinone on melanocytes in pig skin, Associate Professor H. K. Muller (Pathology and Immunology)		4,500
Ninnis, E. M.		
for use in Centre (Aboriginal Research Centre)		3
Odgers, Miss L. R.		
to the Monash University Grants and Loans Scheme, (University Union)		50
Organon (Australia) Pty. Ltd		
to (Social and Preventive Medicine)	300	
in support of research project: Sequelae of tubal ligation and comparison of in vitro fertilisation to tuboplasty treatment for infertility, Dr T. Selwood (Community Medicine)	3,000	3,300
O'Shea Fund, W. P. and H. E.		
to the Library		280
Pacemakers' Set, The		
for the purchase of a Bio-Rad Laboratories Trans-Blot Electrophoretic Transfer Cell for (Pathology and Immunology)	667	
for the purchase of multi channel pipette (Pathology and Immunology)	350	1,017
Pathology and Immunology, Staff of Department of		
donation for use in the Department (Pathology and Immunology)		38,000
Petroleum Refineries (Australia) Proprietary Limited		
to (Careers and Appointments Service)		100
Pharmacy Guild of Australia, The		
for the project: Pharmacy manpower in Australia, being conducted by Dr J. McArthur (Education)		4,000
Philip Morris Limited		
to (Careers and Appointments Service)		100
Phillips, Fox and Masel		
towards the 'Trading with China' Conference (Law)		1,000
Potter Foundation, The Ian		
equipment grant to Professor A. Linnane (Biochemistry)	2,500	



travel assistance: conference on Saturn in the United States, May 1982, Dr A. Prentice (Mathematics)	1,200	
American Chemical Society Meeting in Las Vegas, March 1982, Mr P. Cassidy (Chemistry)	920	
to assist with the proposed visit of Dr Sandra Webb to (Physiology)	500	
Dr Yew-Kwang Ng (Economics and Politics)	500	
Associate Professor I. B. Donald (Civil Engineering)	1,000	
conference of The American Mathematical Society held in New York, June/July 1982, Professor J. Crossley, (Mathematics)	500	
9th International Fetal Breathing Conference held in London, June 1982, Dr A. M. Walker (Research Centre for Early Human Development)	1,000	
Professor I. J. Polmear (Materials Engineering)	500	
International Ornithological Congress held in Moscow, August 1982, Dr P. Rich (Earth Sciences)	1,000	
International Conference on Planar and Linear Fabrics of Deformed Rocks, held in Zurich, August/September 1982, Dr S. Cox (Earth Sciences)	1,000	
Dr M. S. Bloom (Earth Sciences)	500	
for the research project: Biology of the Agaricales (Mushrooms and Boletes) particularly their collection, description, plant interactions and ability to decompose litter, Associate Professor A. A. Holland (Botany)	1,000	
towards the staging of the 12th International Congress of Biochem- istry, Perth, August 1982, Dr L. Austin (Biochemistry)	1,000	13,120
Potter Partners		
to Don Cochrane Portrait Fund (Economics and Politics)	200	
Prince Henry's Hospital		
Vascular Consultative Clinic: to employ a part time technician to assist Mr K. Myers with Vascular Research project until June 1982	3,106	
to assist with cost of engagement of Mr H. Lu (Surgery, Prince Henry's Hospital)	3,000	
Medical Research Centre:		
payment of first year of postgraduate scholarship for Mr Hendra Setiadi, Professor G. Thorburn (Physiology)	4,500	
Gastroenterology Unit:		
for gastroenterology research (Medicine, Prince Henry's Hospital)	12,000	22,606
Prosser, Mrs T.		
donation to Leukemia Research Fund (Paediatrics)		10
Queen Victoria Medical Centre		
research grant for the project: Phenotypic investigation of breast car- cinoma, Professor J. Bornstein and Associate Professor E. Guli (Biochemistry)		2,889
Queensland Sudden Infant Death Research Foundation on behalf of Mrs E. Long		
for research into the breathing and sleeping habits of the young Professor G. D. Thorburn (Physiology)		1,200
Rachinger, Professor W. A.		
to (Careers and Appointments Service)		1,000

Ramaciotti Foundations, Clive and Vera		
Wellcome-Ramaciotti Research Travel Grant to Professor J. B. Harris, of Newcastle General Hospital England, covering eight weeks' visit to (Physiology)		3,640
Read and Read		
to support Visiting Fellows under the Clinical Legal Education Pro- gram (Law)		100
Reeves, Mr and Mrs W.		
to the Krongold Centre		100
Renou, Dr P.		
for in vitro fertilisation research (Obstetrics and Gynaecology)		120
Repco Administration and Finance Limited		
to assist with costs of science exhibits (Education)		250
Research Fund for Centre for Early Human Development		
to the (Research Centre for Early Human Development)		25,000
Reserve Bank of Australia		
to (Careers and Appointments Service)	150	
Rural Credits Development Fund: payment of 1982 research grant for the project: The development of techniques for frozen preser- vation, transport and transplantation of cattle embryos, Dr A. O. Trounson (Obstetrics and Gynaecology)	12,187	12,337
Rheumatism and Arthritis Association of Victoria, The		
for the project: Tissue degradation by proteolytic enzymes in exper- imental arthritis, Professor D. A. Lowther (Biochemistry)		4,000
Ritchie, Mr and Mrs J. G.		
for equipment for the Monash Swimming Pool (Sports and Recreation Centre)		50
Road Safety and Traffic Authority		
part payment for the project: Evaluation of the drink driving warning system, Clinical Associate Professor F. T. McDermott (Surgery, Alfred Hospital)		5,000
Rodoni, Mr B. T.		
to L. J. Gleeson Memorial Prize Fund (Mathematics)		20
Rose, Dr and Mrs N. R.		
to the (Krongold Centre)		200
Ross Trust, The R. E.		
towards the R. E. Ross Trust 1982 School Support Program (Krongold Centre)		4,000
Rotaract Club of Sunshine		
for in vitro fertilisation research (Obstetrics and Gynaecology)		100
Royal Australasian College of Surgeons		
1982 research grant for the project: Microsurgical techniques for cor- rection of male infertility, Dr P. D. Temple-Smith, Mr G. Southwick (Anatomy)	4,000	
for Parenteral Nutrition project, Associate Professor R. A. MacMahon and Mr R. J. Stunden (Paediatrics)	3,500	
Road Trauma Committee		
for study of pedal and motor cyclist road crash casualties, Associate Professor F. T. McDermott (Surgery, Alfred Hospital)	5,140	12,640

Royal Australian College of General Practitioners, The Community Practice Prize for 1981 awarded to Miss J. E. Weeks, Sixth Year Student (Medicine)	250	
for the MUCAPS project: (Monash University computer assisted prac- tice systems) (Community Medicine)	4,890	5,140
Royal Australian and New Zealand College of Psychiatrists (Victorian Branch)		
for use in (Psychological Medicine)		130
Royal Australian Nursing Federation (Victorian Branch)		
for the project: Study of the ownership patterns of Nursing Homes, Professor L. J. Opit (Social and Preventive Medicine)		2,000
Royal Southern Memorial Hospital, The		
For studies on the health effects of modernisation in developing Pa- cific countries, particularly Kiribati (formerly Gilbert Islands), awarded to Professor A. W. Linnane and Associate Professor P. Zimmet (Biochemistry)		8,572
Sandoz Australia Proprietary Limited		
towards postgraduate series 1982, Dr P. Ryan (Medicine, Alfred Hospital)		1,000
Savage River Mines		
for research project: Wall stability in open pit mines, Dr P. M. Dight (Civil Engineering)		9,167
Schlumberger Seaco Incorporated		
to (Careers and Appointments Service)		20
S.C.I. Forests Proprietary Limited		
for research into the control of Wallaby damage in commercial forests, Associate Professor A. K. Lee (Zoology)		500
Sharpin, Mrs K. V.		
for research (Medicine, Alfred Hospital)		100
Shepherd Foundation		
to Professor N. E. Carson (Community Medicine)	3,000	
in support of the MUCAPS project, (Community Medicine)	2,500	5,500
Shire of Phillip Island		
towards Koala research, Professor A. K. Lee (Zoology)		3,000
Skin and Psoriasis Foundation		
towards research on skin and Psoriasis, Dr R. Marks (Medicine, Alfred Hospital)		3,225
Small Business Development Corporation		
in support of 'Update' business training program for 1983 (Centre for Continuing Education)		9,000
Springvale Legal Service Co-operative Limited		
towards the total employment costs of Miss M. Tehan, Senior Tutor in Law, in recognition of the dual role a person engaged in the clinical program plays, namely those of teacher and practitioner (Law)		9,676
Squibb and Sons Proprietary Limited, E. R.		
for general research (Medicine, Alfred Hospital)	1,000	
for hypertension research (Medicine, Prince Henry's Hospital)	5,000	



towards travel expenses to enable attendance at American Society of Nephrology meeting in Chicago, Dr B. Jackson (Medicine, Prince Henry's Hospital)	1,000	7,000
Southwick, Mr G. for Epididymal/Vas research being conducted by Dr P. Temple-Smith (Anatomy)		5,000
St John Ambulance Association 1982 grant-in-aid to fund a research fellowship to enable Dr R. Anker to continue her first aid research, Professor De Kretser (Anatomy)		9,000
Stuart Simson Education Trust half share of income from the Trust, to be allocated to the Stuart Simson Scholarship		1,100
Surgery, Staff of Department of to Department (Surgery, Prince Henry's Hospital)		8,000
Sydenham, Mr and Mrs C. A. donation for research (Medicine, Alfred Hospital)		1,000
Taft Foundation, The Jacob and Sima to the (Krongold Centre)		500
Tate, Mr I. for research work (Medicine, Alfred Hospital)		300
Taylor, Mr J. C. to the (Research Centre for Early Human Development)		25
Tiller, Dr J. W. G. to (Psychological Medicine)		10,626
University of Chicago, The to be expended for collection expenses relating to the plant genus <i>Sporobolus</i> , Dr D. F. Gaff, Associate Professor J. A. Teeri (Botany)		3,023
University of Melbourne to the <i>Australian Journal of French Studies</i>	400	
balance of 1982 ARGS grant for the project: Australia in 1888, to Professor G. Davison (History)	8,263	8,663
U.S. Geological Survey for 1981 research contract project: Recrystallised grain size in ductile fault (mylonite) zones as an indicator of palaeostress magnitudes during faulting, Dr M. A. Etheridge and Professor B. E. Hobbs (Earth Sciences)		39,957
Victoria Law Foundation to support visiting Fellows under the Clinical Legal Education Program (Law)		2,500
Victorian Academy for General Practice Limited, The towards project: Medical Manpower Survey, being conducted by Professor N. E. Carson and Dr I. Rowe, (Community Medicine)		6,710
Walter and Eliza Hall Trust, The to meet the approximate cost of one child attending the Krongold Centre in 1982		500
Walters, Associate Professor W. A. W. for cardiovascular research: (Obstetrics and Gynaecology) (Pharmacology)	5,000 1,000	6,000

Wellcome Foundation Ltd, The for the project: Growth hormone fragments showing potential anti- diabetic properties, Professor J. Bornstein (Biochemistry)		10,000
Westall Primary School for use in Monash Teachers' Centre (Education)		600
Western Mining Corporation Limited general untied grant in support of geoscience	1,000	
specific grant aimed at helping improve the quality of tuition at the final Honours year level (Earth Sciences)	1,000	2,000
White Bequest, Joe to the Library		1,500
White, Mrs L. to purchase books concerned with the Australian media or to improve the Australian Newspapers' Collection (Library)		150
Wilson, Estate of the late Edward second payment of a three year commitment for the Edward Wilson Lectureship in Dermatology (Medicine, Alfred Hospital)		5,000
Wilson, Dr I. R. for Leukemia research (Paediatrics)		30
Windermere Hospital Foundation Limited to (Research Centre for Early Human Development)		20,000
Wood, Professor E. C. for in vitro fertilisation research (Obstetrics and Gynaecology)		420
World Health Organization 1982 research grant for the project: Core support for infertility studies, Professor D. M. De Kretser (Anatomy)	45,597	
Woolworths Limited in sponsorship of 'Trading with China' Conference (Law)		1,000
Yooralla Society of Victoria to purchase a Mettler top loading balance for muscular dystrophy research being conducted by Dr L. Austin (Biochemistry)		1,650
Young and Company, Arthur to (Careers and Appointments Service)		150
Young, Sir John to support visiting Fellows under the Clinical Legal Education Pro- gram (Law)		100

#### Commonwealth Government:

Aboriginal Affairs, Department of basic grant 1981/82 to (Aboriginal Research Centre)	38,000	
supplementary grant to cover salary increases (Aboriginal Research Centre)	500	
part of 1982/83 basic grant (Aboriginal Research Centre)	24,600	63,100
Australia Council towards costs of 1982 writer-in-residence, Mr Theodore Weiss (Visual Arts)		3,500

Australian Chicken Meat Research Committee (Department of Primary Industry)		
for the project: Associations between the chicken major histocompatibility complex and disease resistance, Dr H. A. Ward (Pathology and Immunology)		1,500
Australian Development Assistance Bureau (Department of Foreign Affairs)		
balance of research grant, including supplementation for wage increases, project: Evaluation study of chemistry research techniques course, Dr L. H. T. West (Higher Education Advisory and Research Unit)		7,912
Australian Water Resources Council (Department of National Development and Energy)		
for research project 80/127: Ecology of the Yabby cherax destructor and assessment of its potential as a metal indicator, Dr P. S. Lake (Zoology)	22,441	
final payment of research grant 78/96, project: Small rural catchment hydrology, Professor E. M. Laurenson (Civil Engineering)	10,099	32,540
C.S.I.R.O.		
for the project: Morphological and histochemical studies of the wheat kernel, Dr T. P. O'Brien (Botany)	20,480	
Australian Computer Research Board grants 1982: for the project: MONADS Series III Central Processor Dr J. L. Keedy, Dr J. Rosenberg, Mr D. M. Rowe (Computer Science)	2,500	
Radio Research Board: 1982/83 grant for the project: Rain cell structure for microwave propagation from 4 GHz to 33 GHz, Dr J. A. Bennett (Electrical Engineering)	3,750	
extra mural grant for the: Southerly buster program, being conducted by Dr R. K. Smith (Mathematics)	5,000	31,730
Defence, Department of		
for research project: Electromagnetic propulsion, Associate Professor W. J. Bonwick (Electrical Engineering)	20,000	
1982/83 research grant for the project: Aerodynamic effects of protuberances on missile configurations, Professor W. H. Melbourne (Mechanical Engineering)	24,450	44,450
Education, Department of		
1982 research grant for the project: National evaluation of projects in non-sexist education which focus on changing girls' perceptions of career opportunities, Dr S. Sampson (Education)	17,100	
further support for Bandjalang Materials Development programme (Aboriginal Research Centre)	23,000	40,100
Electricity Supply Association of Australia — Electrical Research Board		
in support of the project: Planning and design of controls on an overall system basis to achieve small large disturbance stability whilst properly accounting for load characteristics, Dr T. Dillon and Dr C. Berger (Electrical Engineering)	9,600	
1981 research grant in respect of the project: Automatic generation control of interconnected power systems, Doctors T. Dillon and C. Berger (Electrical Engineering)	500	10,100



Foreign Affairs, Department of — Australia-China Council in sponsorship of 'Trading with China' Conference (Law)		1,000
Health, Department of for the project: Repetition injuries for keyboard workers, Dr G. A. Ryan	11,000	
(Family Planning Program) for the project: Evaluation of fallopian tube operations, Dr T. S. Selwood (Community Medicine)	6,000	17,000
Home Affairs and Environment, Department of (Australian Biological Resources Study)		
1982 grant for the project: The systematics of the Geogarypinae of Australia, Mr M. S. Harvey (Zoology)		4,641
Labour Market Research, Bureau of research grant for the project: The geography of labour markets in Melbourne and Sydney, Dr K. O'Connor (Geography)		3,000
National Energy Research Development and Demonstration Program: Actual funds received in 1982 against the following grants:		
Direct hydrogenation of brown coals, Associate Professor J. B. Ag- new, Professor W. R. Jackson and Dr F. P. Larkins (Chemistry and Chemical Engineering)	54,951	
Predicting outcomes of energy conservation policies applicable to households, Dr D. J. Crossley (Graduate School of Environmen- tal Science)	31,513	
Modelling of coal-liquefaction reactions, Associate Professor J. B. Agnew (Chemical Engineering)	15,878	
Rotary regenerative heat exchangers in building conservation and airconditioning, Mr C. W. Ambrose (Mechanical Engineering)	35,711	
Australian policies in the liquid fuels and transportation sectors, Professor M. G. Porter (Centre of Policy Studies)	76,439	
Hydrogen production from coal, Professor W. R. Jackson and Dr F. P. Larkins (Chemistry and Chemical Engineering)	33,506	
The regeneration of catalysts, Professor W. R. Jackson & Dr F. P. Larkins (Chemistry and Chemical Engineering)	4,804	
The processing of fibre reinforced components for reduction in weight of the automobile, Dr D. V. Boger (Chemical Engineering)	34,808	
Design of a low energy swimming pool, Professor T. F. Smith (Physics)	14,342	
Flow improvers for waxy crudes and middle distillates Dr G. A. Holder (Chemical Engineering)	18,883	
Drying — energy conservation, Dr G. A. Holder (Chemical Engineering)	42,500	
Non-technical constraints on energy conservation, Mr F. Fisher, Professor L. A. Endersbee, Dr R. Birrell (Graduate School of Environmental Science)	2,810	366,145
Science and Technology, Department of 1981/82 grants, projects:		
Wave prediction in the Southern Ocean and Bass Strait, Associate Professor J. B. Hinwood, Dr D. R. Blackman, and Dr G. Leonart (Mechanical Engineering)	49,143	

Study of the kelp <i>Durvillea Potatorum</i> in Bass Strait, Dr B. M. Allender, Dr M. N. Clayton, Dr N. D. Hallam and Dr G. A. M. Scott (Botany)	11,988	
contribution towards costs of workshop on coal liquefaction held at Lorne, May 1982, Professor W. R. Jackson (Chemistry)	4,300	
first payment of Queen Elizabeth II Fellowship, Dr S. Cox (Earth Sciences)	14,091	
travel grant to enable Associate Professor V. Krishnapillai to visit Bielefeld (Genetics)	6,000	85,522
Social Security, Department of		
Equipment subsidy for (Kronggold Centre)	1,993	
Handicapped persons' salary subsidy (Kronggold Centre)	55,556	
for the project: Social skills training in Activity Therapy Centres: Program upgrading, Dr S. Sykes, Mrs H. Cameron-Smith (Education)	21,000	78,549
Telecom Australia		
first payment on: A study into the feasibility of fault tolerant micro-computer systems for telecommunications applications, Dr K. E. Forward and Dr T. S. Dillon (Electrical Engineering)		12,000
Tertiary Education Commission		
1981/82 research grants, projects: evaluation of college-based and hospital-based basic nurse education in Victoria, Dr J. T. McArthur (Education)	38,634	
evaluative study of open-access storage of printed library materials in university libraries Professor J. P. Whyte (Graduate School of Librarianship)	24,569	
development of the course for Diploma in Librarianship (Information Science), Professor J. P. Whyte (Graduate School of Librarianship)	10,670	
for the promotion of excellence in research, Professor M. G. Porter (Centre of Policy Studies)	250,000	323,873
Transport, Ministry for		
in support of project: Study on access to Monash University, Dr R. E. Melchers (Civil Engineering)		4,665
Wool Corporation, Australian (Department of Primary Industry)		
in sponsorship of 'Trading with China' Conference (Law)	1,000	
for the project: An investigation of the influence of cutaneous electric fields and currents on fibre formation in the follicles of sheep, Professor D. G. Lampard, Dr K. C. Ng (Electrical Engineering)	15,407	
for the project: Studies of fetal skin development and fetal growth, Professor G. D. Thorburn (Physiology)	48,674	
additional grant for operating expenses for Mr S. B. Hooper (Physiology)	667	65,748
Victorian Government:		
Conservation, Department of (Fisheries and Wildlife Division)		
grant-in-aid to support the project: Food of Fairy Penguins at Phillip Island, Professor J. M. Cullen (Zoology)		1,292

Forests Commission Victoria in support of studies of nematodes and arthropods in forest soils and litter, Ms R. Coy (Zoology)	3,000
Legal Aid Commission of Victoria to Monash Legal Service (Law)	10,000
Library Council of Victoria for Early Imprints project (Graduate School of Librarianship)	8,200
Premier, Department of the in sponsorship of 'Trading with China' Conference (Law)	1,000
State Electricity Commission of Victoria for research project: A seimentological and biostratigraphic study on sediments and brown coals of the Morwell area, Mr R. A. Cas (Earth Sciences)	1,000
State Rivers and Water Supply Commission for the project: Dartmouth Dam behaviour, Associate Professor I. B. Donald (Civil Engineering)	10,777

### Commonwealth Government Research Grants

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

Investigator	Project Title	Grant \$
ARTS Professor J. D. Legge	Western educated intellectuals in Indonesia in the later stages of Dutch rule, during the occupation and revolution and in the early years of Independence	3,300
English Ms B. M. Niall	Australian children's literature 1841-1980	10,000
Associate Professor W. A. Steele	Bibliographical and textual studies in the works of D. H. Lawrence	10,000
Geography Dr G. Dixon	The application of digital data logging techniques to the study of ship performance	7,978
Dr D. L. Dunkerley	Effects of forest strip-thinning on chemical denudation, Crotty Creek catchment, Narbethong, Victoria	350
Dr A. P. Kershaw	The vegetation history of north-east Queensland	5,900
Dr C. A. Maher	Alteration of inner city environments	8,000
Dr K. B. O'Connor	Spatial organisation within Australian metropolitan areas	7,000



Investigator	Project Title	Grant \$
History Dr M. Aveling, Dr. A. T. Atkinson Dr L. Li	Australia in 1838  Whampoa and K'angta: Nationalist and Communist experiences in cadre training 1925- 1945 Biography of General Sir John Monash	 12,250  5,970 1,000
Japanese Dr A. E. Backhouse Associate Professor H. Bolitho	Studies in Japanese semantics The regional origins of Kobu Gattai	11,424 7,780
Librarianship Dr B. J. McMullin	Australia and New Zealand Early Imprints Project (Victoria)	17,479
Linguistics Associate Professor J. T. Platt	A cross-cultural investigation of some basic communicative strategies	11,100
Music Dr M. J. Kartomi	The traditional music of Sumatra	13,500
Philosophy Professor P. Singer	Life or death choices for defective newborns	12,717
Russian Professor G. J. Marvan	Slavic context of Polish inflection	7,500

#### ECONOMICS & POLITICS

Administrative Studies Associate Professor W. A. Howard	Industrial relations in Australia's isolated mines	10,681
Centre of Policy Studies Professor M. G. Porter, Mr C. D. Trengrove	Infrastructure financing and regional growth in Australia	13,000
Professor M. G. Porter	Pricing policies of gas and electricity utilities	12,250
Econometrics & Operations Research Professor N. A. J. Hastings	Production scheduling planning in medium scale manufacturing	8,300

Investigator	Project Title	Grant \$
Economics		
Professor M. Brunt, Dr A. Fels	Economic analysis of law with special initial reference to class actions	10,673
Dr B. A. Goss, Professor D. E. A. Giles	Price determination in commodity markets with forward trading	17,217
ENGINEERING		
Chemical Engineering		
Dr D. V. Boger	Accelerating and deaccelerating flow of viscoelastic fluids	25,854
Associate Professor F. Lawson	Leaching mechanism of metal oxides	15,012
Associate Professor F. Lawson	Removal of trace amounts of copper from liquid metals using elemental sulphur	3,225
Professor O. E. Potter	Fluidisation for reaction and other applications	30,952
Professor O. E. Potter	Liquid-phase organic oxidations — chemical engineering aspects	18,000
Civil Engineering		
Dr R. E. Melchers	Human error in structural reliability	14,000
Dr G. I. N. Rozvany	Optimisation of structural layouts by analytical methods	19,348
Electrical Engineering		
Dr J. A. Bennett, Dr P. L. Dyson	Development of new ray tracing techniques and their application to spacelab and ground-based radio experiments	6,000
Materials Engineering		
Associate Professor R. McPherson	Metastable phases in ceramic systems	18,127
Dr B. A. Parker	The effect of microstructure on the strain rate sensitivity of alloys	18,276
Dr P. L. Rossiter	Effects of co-existing atomic and magnetic clustering on electrical resistivity	11,710
Mechanical Engineering		
Professor W. H. Melbourne	Aerodynamic instabilities, loading and response of bluff bodies in a turbulent flow	46,920
LAW		
Professor R. Baxt	Reforming the law relating to unincorporated associations	16,360
Mr P. J. Hanks, Mr H. P. Lee	National security and civil liberties in Australia	12,200
Professor C. G. Weeramantry	Consent to medical treatment of minors and of the intellectually handicapped	9,894

Investigator	Project Title	Grant \$
<b>MEDICINE</b>		
<b>Biochemistry</b>		
Dr J. McD. Armstrong, Professor J. Bornstein	Structure activity relationships in peptide hormones	11,200
Dr L. Austin	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 and cell surface components	12,000
Professor A. W. Linnane, Associate Professor H. B. Lukins	Biogenesis of mitochondria	33,500
Professor D. A. Lowther, Dr C. J. Handley	Regulation of matrix formation as an expression of the differentiated state of chondrocytes cultured in vitro	12,300
Professor D. A. Lowther, Dr R. I. Brinkworth	Neutral proteinases and inhibitors in chondrocytes and PMN leucocytes	32,520
Dr S. Marzuki, Professor A. W. Linnane	The effects of altered biochemical function on the structure and functions of mitochondrial membranes	27,150
Dr P. Nagley, Professor A. W. Linnane, Dr G. S. Cobon	Informational macromolecules in nucleocytoplasmic interactions	31,740
Associate Professor B. Preston	Macromolecular diffusion through porous membranes	35,850
Dr H. C. Robinson	Structural studies on connective tissues: factors involved in the maintenance of cartilage	10,250
<b>Microbiology</b>		
Dr R. C. Bayly, Dr R. A. Skurray	Biochemical and genetic analyses of aromatic degradative pathways	9,700
Dr G. F. Cross	Characterisation of the biophysical and biochemical properties of Boolara virus	5,500
Dr R. A. Skurray	Molecular and genetic analysis of the conjugative plasmid F	12,800
<b>Pharmacology</b>		
Professor A. L. A. Boura, Dr L.J. Rogers	Learning retardation produced by the action of antibiotics and amino acid neurotransmitters on the developing brain	11,440
<b>Physiology</b>		
Dr A. R. Luff	Mechanical properties of mammalian skeletal muscle fibres	3,500
Dr I. R. McDonald	Endocrine functions in Australian monotremes and marsupials	24,824
Dr E. McLachlan	Synaptic mechanisms at peripheral synapses	7,050
Dr U. Proske	The stiffness of slow and fast muscle	2,200



Investigator	Project Title	Grant \$
Dr R. A. Westerman	Development and pathological interactions between nerve and muscle	12,782
SCIENCE		
Botany		
Professor M. J. Canny	Phloem loading and translocation	16,000
Dr M. N. Clayton	Studies on the reproductive biology of some brown algae, together with related taxonomic investigations	11,676
Dr D. F. Gaff	Desiccation tolerant plants, particularly grasses	9,000
Dr N. D. Hallam	The fine structure of plants adapted to desiccation	17,500
Dr T. P. O'Brien	Plant armour plate. Polysaccharide-phenol complexes and the resistance of cell walls to fungal attack	11,500
Chemistry		
Dr D. StC. Black	Synthetic utility of nitrones and oxaziridines	1,000
Dr D. StC. Black	New ligand systems containing indole rings	19,700
Professor R. D. Brown,	Molecules in space — phase 2	97,072
Dr P. D. Godrey		
Dr R. F. C. Brown,	High temperature pyrolysis of organic compounds: generation of cumulenones	22,340
Dr F. W. Eastwood	Studies of the chemistry of enolic ortho esters	18,400
Dr D. J. Collins	Elimination reactions in organometallic synthesis	1,000
Dr G. B. Deacon	Lanthanoid and actinoid chemistry	23,348
Dr G. B. Deacon	The activation of metal carbonyl and related complexes	22,050
Associate Professor R. Dickson	Crystal chemistry of the solid state	28,250
Dr B. M. Gatehouse	Transition metal complexes with chiral ligands as catalysts for asymmetric synthesis	11,650
Professor W. R. Jackson	Photoelectron studies of adsorbates on catalyst surfaces	9,500
Dr F. P. Larkins	Single crystal magnetic studies of inorganic and bio-inorganic compounds	13,500
Dr K. S. Murray	State to state chemistry energy transfer mechanisms in small polyatomic molecules	19,710
Dr M. F. O'Dwyer	A rational search for nuclear overhauser effects on the hydrogens of methyl groups	6,000
Associate Professor I. D. Rae	Sulfur co-ordination to metals. Influence on metal spin states and reactivity	30,110
Professor B. O. West	Electron transfer in heme and copper proteins	2,000
Dr J. K. Yandell		
Computer Science		
Dr M. P. Georgeff	Procedural control specification in programming systems	17,000

Investigator	Project Title	Grant \$
Dr J. L. Keedy, Dr J. Rosenberg	Monads: software methods for complex systems	19,799
Dr J. L. Keedy, Dr J. Rosenberg, Mr D. M. Rowe	Monads Series III central processor	13,668
Earth Sciences		
Dr M. S. Bloom, Mr V. J. Wall	Experimental investigations on the hydrothermal mobilisation, transport and deposition of tin	9,690
Dr M. S. Bloom	Experimental study of mineral-solution equilibria: Molybdenum complexing in hydrothermal solutions	11,055
Dr R. A. Cas	The stratigraphy, sedimentology, palaeogeography and tectonic significance of the Ordovician rock sequence in the Victorian segment of the Lachlan fold belt	9,900
Professor B. E. Hobbs, Dr M. A. Etheridge	The defect chemistry of minerals and its influence on deformation	14,270
Dr I. A. Nicholls	Geochemistry and petrology of Silurian-Devonian volcanic rocks in the south-eastern Lachlan mobile belt	7,500
Dr P. V. Rich, Dr M. Archer, Dr T. H. Rich	Search for Australian Cretaceous tetrapods	500
Dr P. V. Rich, Dr M. Archer, Dr T. H. Rich	Australian tertiary mammals and birds	15,000
Mr V. J. Wall	Biotite phase equilibria and thermodynamics	14,450
Genetics		
Professor B. W. Holloway, Dr A. F. Morgan, Associate Professor V. Krishnapillai	Genetic analysis of <i>Pseudomonas</i> and its application in the genetic exploration of selected gram negative bacteria	46,960
Associate Professor V. Krishnapillai	Genetics of transfer of <i>Pseudomonas aeruginosa</i> R plasmids	10,000
Dr D. R. Smyth	DNA organisation in chromosomes of <i>Lilium</i>	8,700
Mathematics		
Professor J. N. Crossley	Recursive content of algebra and analysis	8,400
Professor B. R. Morton, Dr R. K. Smith	Dynamics of tropical cyclones	10,000
Physics		
Dr J. D. Cashion, Dr P. E. Clark	A study of the structure and magnetic properties of solids using the Mossbauer effect	6,950

Investigator	Project Title	Grant \$
Dr T. J. Hicks, Dr P. Wells	Polarisation analysis of diffuse neutron scattering	15,016
Dr J. R. Pilbrow	Electron spin resonance of transition ions in biological and model systems	11,818
Associate Professor J. H. Smith, Dr T. J. Hicks	Magnetism in automatically random systems	16,192
Associate Professor J. H. Smith	The relationship between atomic and magnetic short range order in mictomagnetic and super- paramagnetic alloys	3,000
Psychology Dr J. L. Bradshaw, Mr N. C. Nettleton	Human cerebral asymmetry: investigations with a display controlled by eye movements	18,650
Dr S. A. Crossley	Behaviour genetic studies of naturally occurring populations of <i>Drosophila Melanogaster</i>	15,665
Professor R. H. Day	The components of geometrical visual illusions	16,400
Dr K. I. Forster	Visual processing of sentences	18,700
Dr D. R. F. Irvine	Organisation of acoustic input to association cortex	11,160
Zoology Professor J. Cullen	Food biology of penguins and other seabirds in the Bass Strait	11,000

### 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 Dr F. H. Guldner Dr B. W. Oakes	Plasticity of synapses in the central nervous system Matrix protein synthesis and regulation by cyclically stretched vascular smooth muscle cells in culture	17,425  27,165
Biochemistry Dr L. Austin	Membrane function in muscle fibres isolated from dystrophic muscle	18,514



Investigator	Project Title	Grant \$
Professor J. Bornstein, Dr J. McD. Armstrong	Regulation of insulin receptor activity by ligands Post-pituitary modification of growth hormone at the target organ	20,399 28,976
Professor J. Bornstein Dr M. K. Gould, Dr J. H. Aylward	Regulation of the insulin receptor by a phospho/dephospho mechanism	17,673
Dr P. L. Jeffrey, Dr J. A. Rostas	Specific cell surface markers for neurons and muscle	29,910
Professor D. A. Lowther	Biochemistry of the inflammatory response in arthritis	21,186
Professor D. A. Lowther, Dr C. J. Handley	Recovery of cartilage biosynthetic activity following proteolysis	27,482
Dr F. M. Ng	Insulin-potentiating action of human growth hormone fragments	18,594
Medicine		
Professor C. I. Johnston	Vasopressin in blood pressure homeostatis and hypertension	28,542
Medicine — Alfred Hospital		
Dr M. A. Howard, Professor B. G. Firkin	Role of Factor VIII and Von Willenbrand Antigen II in haemostasis	50,287
Dr S. L. Pfeuller, Dr I. Sloan, Dr M. A. Howard, Professor B. G. Firkin	Mechanism of drug-induced autoimmune thrombocytopenic purpura	35,765
Dr S. L. Pfeuller, Professor B. G. Firkin	Platelet membrane reaction with specific antibodies and immune complexes	41,209
Associate Professor M. Van der Weyden, Professor B. G. Firkin	Folate metabolism in erythropoiesis	23,126
Associate Professor M. Van der Weyden, Dr G. J. Young	Role of adenosine deaminase in immune function	39,283
Medicine — Prince Henry's Hospital		
Dr S. Holdsworth	Detection and regulation of anti-glomerular basement membrane antibodies	21,489
Dr S. Holdsworth	Experimental glomerulonephritis in the isolated perfused kidney	18,739
Dr B. G. Jackson, Professor C. I. Johnston	Angiotensin converting enzyme: regulation in health and disease	53,713
Dr B. P. McGrath	Localisation and function of dopamine in the kidney	17,000
Dr P. G. Matthews	The Kallikrein Kinin system in cardiovascular regulation	28,119

Investigator	Project Title	Grant \$
Microbiology	Pathogenesis and immunity in leptospirosis	
Professor S. Faine		69,715
Professor S. Faine	Human syphilis: growth in vitro and immunity to	
Dr S. Graves	treponema pallidum	44,332
Dr R. A. Skurray,	Analysis of plasmids from multiple anti-biotic-	
Dr J. W. May	resistant staphylococci	17,544
Dr E. G. Westaway,	Replication and immunochemistry of togaviruses	40,874
Dr P. J. Wright		
Dr E. G. Westaway,	Translation of arbovirus proteins	31,932
Dr P. J. Wright		
Obstetrics and Gynaecology		
Dr A. O. Trounson,	Cellular aspects of cryopreservation of mammalian	
Ms L. R. Mohr	embryos	26,816
Dr A. O. Trounson,	A study of male infertility by in vitro fertilisation	19,026
Associate Professor		
J. F. Leeton		
Paediatrics		
Dr T. M. Adamson,	The maturation of cardio-respiratory patterns in	
Dr V. Y. Yu	the human infant	23,127
Dr A. A. Orgill,	Very high frequency ventilation in fetal lambs	23,839
Dr J. E. Maloney		
Dr E. S. Wertheim	Study of the initial stages of social bond formation	
	in humans	36,215
Pathology and Immunology		
Dr J. S. Pedersen,	Quantification of auto-antibodies to the	
Dr B. D. Toh	cytoskeleton by elisa	6,835
Pharmacology		
Associate Professor	The role of cerebral x-adrenoceptors in blood	
G. Bentley	pressure control	17,919
Professor A. L. A. Boura	Studies on the closure of the human umbilical vein	17,933
Dr J. N. O'Neill	The effect of altered thyroid state on adreno- and	
	cholinoceptors	15,300
Dr J. N. O'Neill	Steroid modulation of adrenoceptors in uterine	
	smooth muscle	15,300
Philosophy		
Professor P. Singer,	Ethical and legal problems of in vitro fertilisation	16,869
Mr A. Rassaby,		
Ms H. Kuhse		

Investigator	Project Title	Grant \$
Physics		
Dr P. P. Phakey, Professor W. A. Rachiner, Dr H.J. Orams	Ultrastructure of ion-beam thinned carious enamel	18,715
Physiology		
Dr C. L. Gibbs	Energy studies in daunomycin induced cardiac myopathy	29,959
Professor M. E. Holman	Innervation of smooth muscle	43,769
Professor M. E. Holman, Dr T. O. Neild	Electrophysiology of arterioles in living mammals	47,747
Dr E. M. McLachlan	The effects of tenotomy on skeletal neuromuscular functions	3,000
Dr U. Proske, Dr J. E. Gregory	Motor units initiating activity in tendon organs	14,019
Dr G. S. Taylor, Dr R. A. R. Bywater	An electrophysiological investigation of colonic motility	6,330
Psychology		
Dr W. R. Webster	Functional neuroanatomical mapping of the auditory pathway using the 2-( <sup>12</sup> C) deoxyglucose method	15,407
Psychological Medicine		
Professor G. C. Smith	Amines and peptides in psychoneuroendocrine responses	49,640
Research Centre for Early Human Development	A study of respiratory system development 'in utero'	47,332
Dr J. E. Maloney		
Dr J. E. Maloney, Dr A. M. Walker	The influence of intrauterine hypoxia on the morphological and functional development of the respiratory system in the fetus and newborn	46,629
Dr A. M. Walker, Dr J. E. Maloney	Perinatal cardiovascular control in normal and growth retarded lambs	57,926
Surgery — Prince Henry's Hospital		
Professor V. C. Marshall, Dr P. Jablonski, Associate Professor D. Scott	Pharmacological protection of renal function from ischaemic damage	13,884
		<u>1,402,529</u>



### Gifts in kind

The Lemuel J. Callaway Estate  
two holdings of shares valued at \$2,524

Dr Joseph Brown

Sydney Nolan's oil on glass 1949, *Faun and Gateway*, to the Monash Art Collection

Late Emeritus Professor Donald Cochrane, former Dean of the Faculty of Economics and Politics

his collection of over 1200 monographs to the Faculty of Economics and Politics, to be housed in the Faculty library renamed the Donald Cochrane Library

### Sources of Grants and Donations

	\$000	%
Private donations and indirect Government research grants	3,911	51.8
Australian Research Grants Committee	1,567	20.7
National Health and Medical Research Council	2,078	27.5
	<u>7,556</u>	<u>100.0</u>

In addition to the gifts and grants listed above 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 to departmental museums.

The following sums were contributed to University appeal funds during the year: Centre for Human Bioethics \$6,464; The John J. McNeill Memorial Prize Fund \$50; Muscular Dystrophy Research Fund \$10,979; Louis Matheson Organ Appeal Fund \$20; Krongold Centre Fund \$10,354; Development Fund, \$474; Arthur Brown Memorial Fund \$796; The Library Fund Appeal reached a total of \$438,946; Embryo and Egg Transfer Fund \$37,252; Elizabeth Eggleston Memorial Fund \$525.

# FINANCE

The following salient points from the audited accounts of the University for the year 1982 are set out for ready reference.

## Funds Available

**Recurrent** Commonwealth Government funds available for expenditure on recurrent items during the year ended 31 December 1982 were as follows:

			\$000
University — 1982 Grant	74,356		
Less Balance brought forward from 1981	179	74,177	
Teaching Hospitals			280
Halls of Residence			267

Expenditure for recurrent purposes during the year 1982 was:

	University		Teaching Hospitals		Halls of Residence	
	\$000	%	\$000	%	\$000	%
Academic activities	52,753	70.7	280	100.0		
Academic services	6,871	9.2				
Student services	1,373	1.8				
General services	13,485	18.1				
Public services	98	0.1				
Other	83	0.1			267	100.0
	<u>74,663</u>	<u>100.0</u>	<u>280</u>	<u>100.0</u>	<u>267</u>	<u>100.0</u>

**Capital** Commonwealth Government funds received in 1982 for expenditure on capital projects (buildings and furniture) on the University site totalled \$320,000.

**Research** Commonwealth Government funds available for expenditure on special research projects in 1982 totalled \$915,000.

**Equipment** Commonwealth Government funds received in 1982 for expenditure on equipment totalled \$2,750,000.

## Union Fees

Union fees payable by students enrolled for the year 1982 were as follows:

Students studying on campus — full time \$178; part time \$112 or \$78.

Students studying off campus in Victoria — full time \$44; part time \$30.

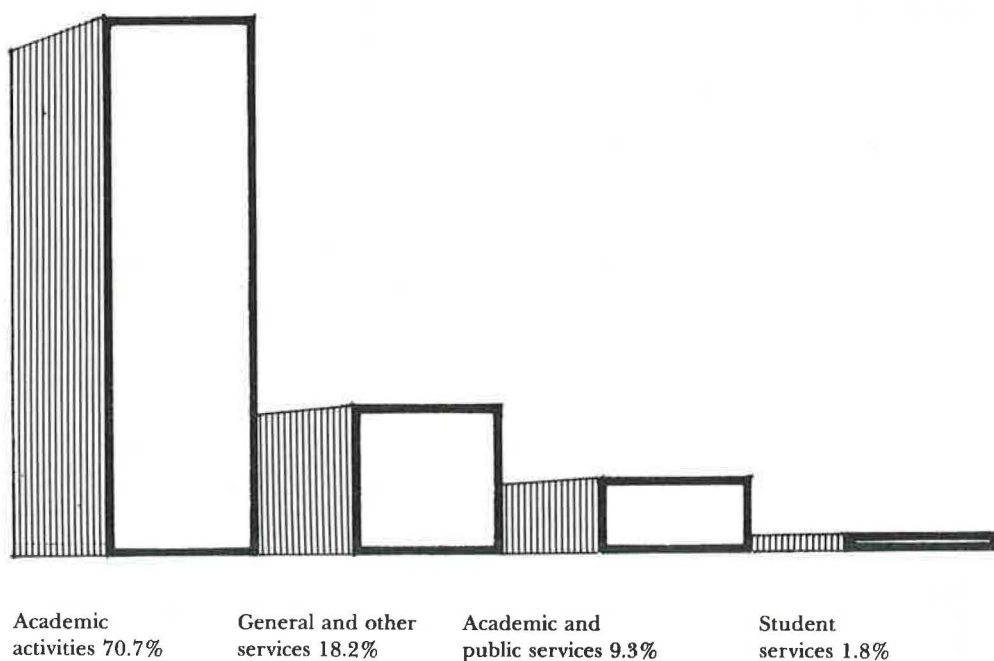
## Accounts

The audited accounts of the University for the year 1982 are appended to this Report, and provide further details of the year's activities.

## General

In the Report of Council for 1981 it was reported that the operating grants announced for this University for the new triennium commencing 1 January 1982 were reduced, in real terms, from the level of the grants received in the 1979-81 triennium. The grant for general purposes in 1982 was 2.26% less than the grant for 1981 and the cumulative effect of the small but continuous reductions in the level of funding to the University for general purposes is placing strains on the maintenance of academic standards.

## Expenditure of Recurrent Grant — year ended 31 December 1982



The commencement of the new triennium saw the introduction of a new basis of funding universities. Grants were advised at 'out-turn cost levels', i.e., they included a prospective allowance equal to the estimated cost of salary increases to be incurred both before and during the year of the grant. Despite the fact that these estimates were made some eighteen months in advance, and were therefore somewhat speculative, universities were informed that there would be no further adjustment if the cost of salary increases exceeded the predetermined allowance. When the 1982 budget was being pre-

pared in August 1981, some 14% of the grant was set aside to meet the estimated increase in salary costs. This reserve was exhausted by mid-1982. Universities cannot change a year's program half way through an academic year and the University therefore faced a deficit of approximately \$2M. by the end of the year. Many other universities were in a similar position but it was not until November 1982 that the government decided to grant supplementation for the unexpected level of salary increases which occurred in the latter half of the year. Decision making during the second half of the year and plan-



ning for 1983 were extremely difficult in the uncertain financial climate existing at that time.

The incidence of cost increases in non-staffing items is of increasing concern to the University. Increases in State charges for electricity, gas, water and payroll tax made significant inroads into the University's budget for 1982. Supplementation for increases in non-staffing costs in the year in which they occur was discontinued in 1978. In view of these cost increases and the cuts in the grants, the University, in an effort to maintain academic standards, supplemented the grant for general purposes in 1982 with funds generated from its own activities.

It is hoped that grants for general purposes to universities in future years will be at a level which will be sufficient at least to support the present level of academic standards. The Commonwealth Tertiary Education Com-

mission has, in its Report for the 1982-84 Triennium, requested the Government to recognise the need for increases in both operating and capital funding if the general quality of university activities is to be maintained.

The University will continue to press its case for additional funding for superannuation costs over 10 per cent of salaries. When the University's 'M' Superannuation Scheme was introduced (with costs lower than the proposed national scheme) it was acknowledged generally that positive action by the Government in relation to superannuation in universities was well overdue and imminent, but the discriminatory policy announced subsequently under which only institutions participating in the national scheme will receive extra funding could not have been foreseen.

# ACCOUNTS FOR THE YEAR 1982

## **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 1982.

**R. L. Martin**  
Vice-Chancellor

**L. W. Candy**  
Comptroller

10 November 1983

## **AUDITOR-GENERAL'S REPORT**

The books and accounts of Monash University for the year ended 31 December 1982 have been audited as required by sub-section (2) of Section 36 of the Monash University Act 1958.

As stated in note 7 to the accounts, certain investments of the Superannuation and Pension Schemes are held in the name of fund managers. These investments totalling \$54,820,150 have been included in the accounts on the basis of statements furnished by the fund managers and have not been independently verified by audit.

Subject to the above, in my opinion, the attached statements of account, numbered 1 to 19 correctly summarise the financial transactions of Monash University for the year.

**B. J. Waldron**  
Auditor-General

12 December 1983

## Notes to and Forming Part of the Accounts — 1982

1. The accounts are maintained on an accrual and historical cost basis.
2. Funds are received from Governmental and other sources for a variety of purposes. Each column in the Summary Statement, for which a supporting statement is attached, records income and expenditure in respect of each purpose. This identification of funds is maintained throughout the accounting system, thus providing the control necessary to ensure that each type of fund is used only for the purpose for which it is received. This presentation also facilitates the production of separate financial statements for the Government and other external bodies.
3. The University does not operate for the purpose of making a profit which can be expressed in monetary terms. For this reason, and in common with some Governmental forms of accounting, the conventional distinction between capital and recurrent expenditure is not maintained in the accounting system. Funds used for the purchase of consumable stores, equipment and the construction of buildings during each accounting period are recorded as expenditure in that year's accounts, the only assets shown in the Statement of Balances being those which are in the form of, or which will or may be converted into, cash or its equivalent, viz. investments, debtors and stocks on hand.
4. Separate commercial accounts are maintained for management purposes for income-producing activities within the University, e.g. Halls of Residence, Union Catering, Bookshop.
5. The classifications of income and expenditure used throughout the accounting system conform to the instructions issued by the Tertiary Education Commission in relation to the annual collection of financial statistics.
6. The University's liability in respect of long service leave and accumulated recreation leave is not included in the financial statements on the basis that the expenditure is charged in the accounts in the year in which the leave is taken or the staff member retires or resigns.
7. Superannuation and Pension Schemes — Statement (19)

During 1981, a new benefit promise superannuation scheme was introduced, a large part of the initial contribution coming from the surrender and transfer of endowment policies formerly held in the 'A' Superannuation Scheme.

Fund investments are managed by fund managers and are included in the accounts on the basis of statements from the fund managers. Investments held in the names of the fund managers at 31 December 1982 are recorded in the accounts at fund allocation prices reflecting the underlying market values of the investments. Other investments of the scheme are valued at cost.



(1) **Summary Statement showing Income and Expenditure for all general purposes for the year ended 31 December 1982**

	Recurrent Grant	Building Projects Grant	Equipment Grant	Teaching Recurrent Grant	Hospitals Building Projects Grant
	\$	\$	\$	\$	\$
<b>Income</b>					
Commonwealth Government Grants	74,356,000	320,000	2,750,000	280,000	
Other					
<b>Total Income</b>	74,356,000	320,000	2,750,000	280,000	—
<i>Less</i>					
<b>Expenditure</b>					
Academic Activities	52,752,885		1,881,770	280,000	
Academic Services	6,869,685		756,796		
Student Services	1,373,031		2,116		
General Services	13,485,669	340,890	140,120		
Public Services	97,943		4,998		
Other	83,311				
<b>Total Expenditure</b>	74,662,524	340,890	2,785,800	280,000	—
Surplus (Deficit) for the year	(306,524)	(20,890)	(35,800)	—	—
Surplus (Deficit) at 1 January 1982	(179,123)	5,140	239,181	—	—
<b>Accumulated Surplus (Deficit) at 31 December 1982</b>	<b>(485,647)</b>	<b>(15,750)</b>	<b>203,381</b>	<b>—</b>	<b>—</b>

Special Research Grant	Private and Indirect Gov't Research Grants	General Donations	Union Activities	Student Assist. Fund	Union Develop't Fund	General Auxiliary Activities	Fire Ins'ce Fund	Total	1981 Total
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
915,000	1,566,985 5,317,143	830,954	1,836,208	1,180	824,484	266,631 8,694,439	22,242	80,454,616 17,526,650	75,037,813 13,118,474
915,000	6,884,128	830,954	1,836,208	1,180	824,484	8,961,070	22,242	97,981,266	88,156,287
910,473	6,203,918 345	517,288 47,996						62,546,334 7,674,822	57,724,569 6,828,240
	292,348	48,893						1,716,388	1,669,696
4,527	47,324	27,932			921,620	483,004		15,451,086	13,403,314
		106						103,047	90,871
		92,738	1,773,126		266,168	3,888,985		6,104,328	4,115,471
915,000	6,543,935	734,953	1,773,126	—	1,187,788	4,371,989	—	93,596,005	83,832,161
—	340,193	96,001	63,082	1,180	(363,304)	4,589,081	22,242	4,385,261	4,324,126
—	788,864	1,251,128	190,748	9,728	(473,552)	11,612,513	174,712	13,619,339	9,295,213
—	1,129,057	1,347,129	253,830	10,908	(836,856)	16,201,594	196,954	18,004,600	13,619,339

(2) Recurrent Grant  
Statement of Income and Expenditure for the year ended 31 December 1982

1981 \$		1982 \$
69,758,000	<b>Income</b>	
—	Commonwealth Government Grant	74,350,000
	Commonwealth Government Grant — Community Language	6,000
<u>69,758,000</u>	<b>Total Income</b>	<u>74,356,000</u>
	<i>Less</i>	
	<b>Expenditure</b>	
	<i>Academic Activities</i>	
44,669,631	Teaching and Research —	47,609,440
2,650,186	Salaries and Related Items	2,824,091
1,100,945	Maintenance	941,615
603,461	Computing Services	370,960
152,387	Equipment	167,717
55,714	Outside Studies Program	82,582
755,575	New Appointments	756,480
	Other Items	
<u>49,987,899</u>		<u>52,752,885</u>
	<i>Academic Services</i>	
	Libraries —	
3,293,020	Salaries and Related Items	3,672,365
1,443,301	Books and Journals	1,705,401
274,291	Maintenance	234,445
117,299	Computing Services	68,038
7,720	Equipment	25,136
2,635	Other Items	3,241
<u>5,138,266</u>		<u>5,708,626</u>
	Computing —	
1,184,946	Salaries and Related Items	1,150,530
178,787	Maintenance	137,989
485Cr.	Equipment	8,983
1,340,456Cr.	Recoveries	1,129,141Cr.
6,299	Other Items	1,214
<u>29,091</u>		<u>169,575</u>
	Other Academic Services —	
1,013,387	Salaries and Related Items	953,039
11,928Cr.	Other Items	38,445
<u>1,001,459</u>		<u>991,484</u>
<u>56,156,715</u>	<i>Sub-Total carried forward</i>	<u>59,622,570</u>



(2) Recurrent Grant

Statement of Income and Expenditure for the year ended 31 December 1982 (continued)

1981		1982
\$		\$
56,156,715	<i>Sub-Total brought forward</i>	59,622,570
	<i>Student Services</i>	
608,020	Salaries and Related Items	648,343
728,310	Scholarships	706,939
19,005	Other Items	17,749
1,355,335		1,373,031
	<i>General Services</i>	
	Administration —	
4,637,142	Salaries and Related Items	5,176,726
147,984	Computing Services	122,126
81,746	Other Items	92,627
4,866,872		5,391,479
	<i>Overheads —</i>	
661,758	Postage, Telephone and Advertising	704,671
56,745	Furniture and Furnishings	77,544
920,700	Power, Lighting and Heating	1,137,807
644,435	Other Items	729,015
2,283,638		2,649,037
	<i>Buildings and Grounds —</i>	
3,315,723	Salaries and Related Items	3,891,665
1,301,537	Maintenance	1,346,984
318,687	Other Items	206,504
4,935,947		5,445,153
	<i>Public Services</i>	
	Continuing Education —	
91,047	Salaries and Related Items	96,702
176Cr.	Other Items	1,241
90,871		97,943
84,088	<i>Union Administration</i>	83,311
69,773,466	<b>Total Expenditure</b>	74,662,524
15,466	Deficit for the year	306,524
163,657	Deficit at 1 January 1982	179,123
179,123	<b>Accumulated Deficit at 31 December 1982</b>	485,647

(3) **Building Projects Grant**

**Statement of Income and Expenditure for the year ended 31 December 1982**

1981 \$		1982 \$
285,000	<b>Income</b>	320,000
285,000	Commonwealth Government Grant	320,000
	<b>Total Income</b>	320,000
	<i>Less</i>	
380,144	<b>Expenditure</b>	335,749
3,823	New Buildings	—
459	Furniture and Furnishings	5,141
384,426	Site Development	340,890
	<b>Total Expenditure</b>	340,890
99,426	Deficit for the year	20,890
104,566	Surplus at 1 January 1982	5,140
5,140(S)	<b>Accumulated Deficit at 31 December 1982</b>	15,750

(4) Equipment Grant

Statement of Income and Expenditure for the year ended 31 December 1982

1981 \$		1982 \$
2,096,000	<b>Income</b>	
2,096,000	Commonwealth Government Grant	2,750,000
	<b>Total Income</b>	2,750,000
	<i>Less</i>	
	<b>Expenditure</b>	
	<i>Academic Activities</i>	
1,421,778	Teaching and Research — Equipment	1,881,770
	<i>Academic Services</i>	
53,962	Libraries —	
45,098	Books and Journals	10,643
99,060	Equipment	13,924
448,919		24,567
44,767	Computing	681,501
—	Other Academic Services	50,728
	<i>Student Services</i>	2,116
	<i>General Services</i>	
29,009	Administration	135,581
6,586	Buildings and Grounds	4,539
35,595		140,120
—	<i>Public Services</i>	4,998
2,050,119	<b>Total Expenditure</b>	2,785,800
45,881(S)	Deficit for the year	35,800
193,300	Surplus at 1 January 1982	239,181
239,181	<b>Accumulated Surplus at 31 December 1982</b>	203,381

(5) **Teaching Hospitals: Recurrent Grant**  
**Statement of Income and Expenditure for the year ended 31 December 1982**

1981 \$		1982 \$
278,000	<b>Income</b>	
278,000	Commonwealth Government Grant	280,000
	<b>Total Income</b>	280,000
	<i>Less</i>	
	<b>Expenditure</b>	
	Academic Activities	
278,000	Teaching and Research —	280,000
278,000	Maintenance	280,000
	<b>Total Expenditure</b>	
—	<b>Surplus for the year</b>	—

(6) **Teaching Hospitals: Building Projects Grant**  
**Statement of Income and Expenditure for the year ended 31 December 1982**

1981 \$		1982 \$
20,639Dr.	<b>Income</b>	
20,639Dr.	Commonwealth Government Grant	—
	<b>Total Income</b>	—
	<i>Less</i>	
	<b>Expenditure</b>	
20,639	Deficit for the year	—
20,639	Surplus at 1 January 1982	—
—	<b>Accumulated Surplus at 31 December 1982</b>	—



(7) **Special Research Grant**

**Statement of Income and Expenditure for the year ended 31 December 1982**

1981 \$		1982 \$
833,000	<b>Income</b>	
	Commonwealth Government Grant	915,000
833,000	<b>Total Income</b>	915,000
	<i>Less</i>	
	<b>Expenditure</b>	
	<i>Academic Activities</i>	
	Teaching and Research —	
638,710	Salaries and Related Items	680,088
157,104	Maintenance	198,859
97	Computing Services	—
18,475	Other Items	31,526
814,386		910,473
	<i>Academic Services</i>	
	Other Academic Services —	
14,526	Salaries and Related Items	—
	<i>General Services</i>	
4,088	Postage, Telephone and Advertising	4,527
833,000	<b>Total Expenditure</b>	915,000
—	<b>Surplus for the year</b>	—

(8) **Private and Indirect Government Research Grants**  
**Statement of Income and Expenditure for the year ended 31 December 1982**

1981 \$		1982 \$
1,580,793	<b>Income</b>	
	Commonwealth Government Grant	1,566,985
2,158,627	Grants and Donations	3,410,249
1,579,474	Government-financed Bodies	1,906,894
3,738,101	Other	5,317,143
5,318,894	<b>Total Income</b>	6,884,128
	<i>Less</i>	
	<b>Expenditure</b>	
	<i>Academic Activities</i>	
3,426,642	Teaching and Research —	4,449,880
933,575	Salaries and Related Items	999,768
—	Maintenance	3,437
444,947	Computing Services	502,929
127,639	Equipment	247,904
4,932,803	Other Items	6,203,918
	<i>Academic Services</i>	
18,793	Other Academic Services —	111Cr.
6,959	Salaries and Related Items	
25,752	Other Items	456
		345
277,876	<i>Student Services</i>	
300Cr.	Scholarships	292,348
277,576	Other Items	—
		292,348
5,124	<i>General Services</i>	
591	Postage, Telephone and Advertising	8,151
—	Furniture and Furnishings	—
—	New Buildings	1,911
5,715	Buildings Maintenance	37,262
5,241,846		47,324
	<b>Total Expenditure</b>	6,543,935
77,048	Surplus for the year	340,193
711,816	Surplus at 1 January 1982	788,864
788,864	<b>Accumulated Surplus at 31 December 1982</b>	1,129,057

(9) General Donations

Statement of Income and Expenditure for the year ended 31 December 1982

1981 \$		1982 \$
	<b>Income</b>	
	Donations	
31,057	Government-financed Bodies	106,634
402,893	Other	564,684
433,950		671,318
	Appeals	
4,599	Robert Blackwood Hall — Organ	20
42,994	Library Books	41,099
6,466	Other	11,353
54,059		52,472
105,347	Other Income	107,164
593,356	<b>Total Income</b>	830,954
	<i>Less</i>	
	<b>Expenditure</b>	
	<i>Academic Activities</i>	
156,494	Teaching and Research —	
35,855	Salaries and Related Items	264,766
28,844	Maintenance	79,273
68,510	Equipment	41,487
289,703	Other Items	131,762
		517,288
	<i>Academic Services</i>	
	Libraries —	
13,008	Salaries and Related Items	5,657
7,991	Books and Journals	14,095
1,874	Other Items	513
22,873		20,265
	Other Academic Services —	
710	Salaries and Related Items	11,108
2,817	Other Items	16,623
3,527		27,731
316,103	<i>Sub-Total carried forward</i>	565,284

(9) General Donations

Statement of Income and Expenditure for the year ended 31 December 1982 (continued)

1981		1982
\$		\$
316,103	<i>Sub-Total brought forward</i>	565,284
	<i>Student Services</i>	
28,887	Scholarships	34,181
7,898	Other Items	14,712
36,785		48,893
	<i>General Services</i>	
	Overheads —	
327	Furniture and Furnishings	291
212	Postage, Telephone and Advertising	2,650
539		2,941
	<i>Buildings and Grounds —</i>	
11,838Cr.	New Buildings	15,771
524	Maintenance	9,220
11,314Cr.		24,991
—	<i>Public Services</i>	106
	<i>Other Items</i>	
2,428	Union Activities	800
	<i>Appeals</i>	
23,207Cr.	Robert Blackwood Hall — Organ	—
—	Library Books	100,275
26,698	Other Items	8,337Cr.
3,491		91,938
348,032	<b>Total Expenditure</b>	734,953
245,324	Surplus for the year	96,001
1,005,804	Surplus at 1 January 1982	1,251,128
1,251,128	<b>Accumulated Surplus at 31 December 1982</b>	1,347,129

Note: Gifts in kind are detailed on page 96 of this Report.



(10) Union Activities

Statement of Income and Expenditure for the year ended 31 December 1982

1981 \$		1982 \$
1,443,694	<b>Income</b>	
199,493	Union Fees	1,632,499
	Other	203,709
<u>1,643,187</u>	<b>Total Income</b>	<u>1,836,208</u>
	<i>Less</i>	
322,985	<b>Expenditure</b>	
255,802	Sports and Recreation Association	388,041
138,161	Monash Association of Students	303,446
224,115	Clubs and Societies Council	169,981
121,038	Union Tuition and Courses	222,048
503,342	Union Building Management	164,371
	Union Administration and Special Projects	562,359
	Business Activities —	
32,997(D)	Catering — Operating Deficit (D) 27,183	
19,403(S)	Other — Operating Surplus (S) 20,623	6,560
<u>1,579,037</u>		<u>1,816,806</u>
	<i>Less</i>	
40,203	Contribution by University for use of facilities by staff	43,680
<u>1,538,834</u>	<b>Total Expenditure</b>	<u>1,773,126</u>
104,353	Surplus for the year	63,082
86,395	Surplus at 1 January 1982	190,748
<u>190,748</u>	<b>Accumulated Surplus at 31 December 1982</b>	<u>253,830</u>

(11) Student Assistance Fund

Statement of Income and Expenditure for the year ended 31 December 1982

1981 \$		1982 \$
801	<b>Income</b>	1,180
	<i>Less</i>	
205	<b>Expenditure</b>	—
596	Surplus for the year	1,180
9,132	Surplus at 1 January 1982	9,728
<u>9,728</u>	<b>Accumulated Surplus at 31 December 1982</b>	<u>10,908</u>

(12) **Union Development Fund**  
**Statement of Income and Expenditure for the year ended 31 December 1982**

1981 \$		1982 \$
	<b>Income</b>	
476,455	Union Development Fees	538,008
785,080	Rentals and Other	286,476
<u>1,261,535</u>	<b>Total Income</b>	<u>824,484</u>
	<i>Less</i>	
	<b>Expenditure</b>	
	<i>General Services</i>	
—	Site Development	80,243
747,667	New Buildings	731,407
102,132	Maintenance — Buildings	98,150
7,248	Furniture and Furnishings	11,820
<u>857,047</u>		<u>921,620</u>
	<i>Other Items</i>	
65,639	Equipment	53,164
89,827	Occupancy Expense	90,640
82,852	Other Items	122,364
<u>238,318</u>		<u>266,168</u>
<u>1,095,365</u>	<b>Total Expenditure</b>	<u>1,187,788</u>
166,170(S)	Deficit for the year	363,304
639,722	Deficit at 1 January 1982	473,552
<u>473,552</u>	<b>Accumulated Deficit at 31 December 1982</b>	<u>836,856</u>

(13) General Auxiliary Activities

Statement of Income and Expenditure for the year ended 31 December 1982

1981 \$		1982 \$
	<b>Income</b>	
227,659	Commonwealth Government Grant:	
2,811,278	Halls of Residence	266,631
3,047,316	Outside Earnings	3,497,449
	Other Income	5,196,990
<u>6,086,253</u>	<b>Total Income</b>	<u>8,961,070</u>
	<i>Less</i>	
	<b>Expenditure</b>	
	<i>General Services</i>	
3,523	Overheads —	
	Furniture and Furnishings	13,261
	Buildings and Grounds —	
15,630	New Buildings	326,267
6,423	Site Development	23,678
15,185	Maintenance	119,798
<u>40,761</u>		<u>483,004</u>
	<i>Other Items</i>	
11,275	University Bookshop	11,685
189,522	Halls of Residence	153,559
32,600Cr.	South East Flats	34,774Cr.
4,755Cr.	Owned Houses and Transit Flats	1,171
2,121,463	Outside Earnings	3,755,263
36,798Cr.	Other	2,081
<u>2,248,107</u>		<u>3,888,985</u>
<u>2,288,868</u>	<b>Total Expenditure</b>	<u>4,371,989</u>
3,797,385	Surplus for the year	4,589,081
7,815,128	Surplus at 1 January 1982	11,612,513
<u>11,612,513</u>	<b>Accumulated Surplus at 31 December 1982</b>	<u>16,201,594</u>

(14) Fire Insurance Fund

Statement of Income and Expenditure for the year ended 31 December 1982

1981 \$		1982 \$
	<b>Income</b>	
22,900	Income from Investments	22,242
	<i>Less</i>	
	<b>Expenditure</b>	
<u>22,900</u>	Surplus for the year	<u>22,242</u>
151,812	Surplus at 1 January 1982	174,712
<u>174,712</u>	<b>Accumulated Surplus at 31 December 1982</b>	<u>196,954</u>

## (15) Statement of Balances for all General Purposes at 31 December 1982

	1981		1982
\$	\$	\$	\$
179,123Dr.		<b>Accumulated Funds</b>	
5,140		Recurrent Grant	485,647Dr.
239,181		Building Projects Grant	15,750Dr.
—		Equipment Grant	203,381
—		Teaching Hospitals — Recurrent Grant	—
—		Teaching Hospitals — Building	—
—		Projects Grant	—
788,864		Special Research Grant	—
1,251,128		Private and Indirect Government	
190,748		Research Grants	1,129,057
9,728		General Donations	1,347,129
473,552Dr.		Union Activities	253,830
11,612,513		Student Assistance Fund	10,908
174,712		Union Development Fund	836,856Dr.
		General Auxiliary Activities	16,201,594
		Fire Insurance Fund	196,954
	<u>13,619,339</u>	<b>Total Accumulated Funds</b>	<u>18,004,600</u>
		<i>Represented by:</i>	
		<b>Investments</b>	
412,665		Fixed-interest Securities, at lower	
429,467		of cost or par	—
		Ordinary Shares, at cost	—
		(Market Value \$621,194)	
269,235		Property Investment Trust Units,	
		at cost	—
		(Market Value \$293,160)	
		Investments in Managed Fund —	
		Westpac Investment Management	
		Pty Limited	1,318,534
		(Market Value \$1,408,402)	
	<u>1,111,367</u>		<u>1,318,534</u>
		<b>Current Assets</b>	
120,235		Cash at Bank and on Hand	15,939
4,400,000		Cash on Secured Deposits	24,900,000
31,000,000		Cash on Term Deposits	17,700,000
100,000		Australian Savings Bonds	100,000
		Debtors —	
2,874,825		Accrued Government Grants	—
2,031,986		Other	1,338,846
		Stocks on Hand, at cost less	
1,029,560		obsolescence	1,098,125
16,193		Payments in Advance	36,880
	<u>41,572,799</u>		<u>45,189,790</u>
	<u>42,684,166</u>		<u>46,508,324</u>
		<i>Less</i>	
		<b>Current Liabilities</b>	
607,927		Bank Overdraft	687,609
7,960,709		Sundry Creditors and Accrued Expenses	5,903,306
952,190		Students' Fees Received in Advance	1,010,432
17,615,000		Government Grants Received in	
		Advance	19,055,000
			<u>26,656,347</u>
27,135,826		<b>Long-Term Liabilities</b>	
		Loans on Mortgage	1,847,377
1,929,001			
	<u>29,064,827</u>		<u>28,503,724</u>
	<u>13,619,339</u>	<b>Net Assets</b>	<u>18,004,600</u>



(16) **Donor-Nominated Trust Funds**  
**Statement of Income and Expenditure for the year ended 31 December 1982**

1981 \$		1982 \$
	<b>Income</b>	
7,875	Income from Investments	8,036
7,875	<b>Total Income</b>	8,036
	<i>Less</i>	
	<b>Expenditure</b>	
675	Max Buxton Scholarship	—
3,549	Graham John Beard Memorial Fund	1,288
1,050	J.W. Dodds Memorial Scholarship	500
700	Vallejo Gantner Memorial Travel Fund	750
—	Oscar Mendelsohn Lecture	1,525
109	Monash University Rowing Club	111
250	W.P. and H.E. O'Shea Fund	280
50	The David B. Rosenthal Memorial Trust	50
—	Hume Turnbull Scholarship	2,000
2,100	William and Katherine Winter Foundation	2,260
8,483	<b>Total Expenditure</b>	8,764
608	<b>Deficit for the year</b>	728

**Balance Sheet at 31 December 1982**

1981 \$		1982 \$
	<b>Accumulated Funds</b>	
107,445	Funds at 1 January 1982	106,837
608	Deficit for the year	728
106,837	<b>Total Accumulated Funds</b>	106,109
	<i>Represented by:</i>	
	<b>Investments</b>	
1,000	Government Securities, at cost	1,000
63,500	Semi-government Securities, at cost	63,500
27,960	Fixed-interest Securities, at cost	27,960
3,785	Ordinary Shares, at cost	3,785
	(Market Value:	
	31 December 1982 — \$3,213	
	31 December 1981 — \$5,355)	
96,245		96,245
	<b>Current Assets</b>	
10,500	Fixed Deposit Stock	9,700
92	Cash at Bank	164
10,592		9,864
106,837	<b>Total Assets</b>	106,109

(17) Students' Loan Fund

Statement of Income and Expenditure for the year ended 31 December 1982

1981		1982
\$		\$
2,921	<b>Income</b>	
—	Interest on Loans	2,817
798	Interest on Investment	1,703
5	Bank Interest	1,068
	Donations	55
<u>3,724</u>	<b>Total Income</b>	<u>5,643</u>
	<i>Less</i>	
40	<b>Expenditure</b>	
	Loans written off	—
<u>40</u>	<b>Total Expenditure</b>	<u>—</u>
<u>3,684</u>	<b>Surplus for the year</b>	<u>5,643</u>

Balance Sheet at 31 December 1982

1981		1982
\$		\$
146,562	<b>Accumulated Fund</b>	
3,684	Fund at 1 January 1982	150,246
	Surplus for the year	5,643
<u>150,246</u>	<b>Total Accumulated Fund</b>	<u>155,889</u>
	<i>Represented by:</i>	
—	<b>Deposit held by University</b>	
—	Principal	20,000
—	Accrued Interest	1,703
		<u>21,703</u>
107,462	<b>Loans to Students</b>	
3,790	Principal	116,518
	Accrued Interest	4,552
<u>111,252</u>		<u>121,070</u>
38,994	<b>Cash at Bank</b>	13,116
<u>150,246</u>	<b>Total Assets</b>	<u>155,889</u>

(18) Assistance to Students in Need Fund

Statement of Income and Expenditure for the year ended 31 December 1982

1981 \$		1982 \$
	<b>Income</b>	
13,356	Interest on Investments	13,082
1,391	Interest on Loans	1,572
811	Bank Interest	662
—	Sundry Income	10
<u>15,558</u>	<b>Total Income</b>	<u>15,326</u>
	<i>Less</i>	
	<b>Expenditure</b>	
2,535	Grants to Students	750
41	Other	106
<u>2,576</u>	<b>Total Expenditure</b>	<u>856</u>
<u>12,982</u>	<b>Surplus for the year</b>	<u>14,470</u>

Balance Sheet at 31 December 1982

1981 \$		1982 \$
	<b>Accumulated Fund</b>	
197,828	Fund at 1 January 1982	210,810
12,982	<i>Add</i>	
	Surplus for the year	14,470
<u>210,810</u>	<b>Total Accumulated Fund</b>	<u>225,280</u>
	<i>Represented by:</i>	
	<b>Term Deposits</b>	
15,000	Principal	—
1,183	Accrued Interest	—
<u>16,183</u>		<u>—</u>
	<b>Deposit held by University</b>	
70,000	Principal	70,000
10,290	Accrued Interest	11,795
<u>80,290</u>		<u>81,795</u>
	<b>Loans to Students</b>	
89,705	Principal	128,999
2,836	Accrued Interest	2,289
<u>92,541</u>		<u>131,288</u>
21,796	<b>Cash at Bank</b>	12,197
<u>210,810</u>	<b>Total Assets</b>	<u>225,280</u>

**(19) Superannuation and Pension Schemes**  
**Statement of Income and Expenditure for the year ended 31 December 1982**

1981 \$		1982 \$
	<b>Income</b>	
2,221,944	Members' Contributions	2,397,715
4,400,659	University's Contributions	4,735,628
1,930,302	Appreciation of Managed Funds	6,781,656
1,831,092	Income from other Investments	199,167
70,903	Maturity of Endowment Policies	—
<u>10,454,900</u>	<b>Total Income</b>	<u>14,114,166</u>
	<i>Less</i>	
	<b>Expenditure</b>	
835,705	Benefit Payments to Members	1,975,649
196,324	Payments on Withdrawal	331,297
57,318	Other Payments	137,084
<u>1,089,347</u>	<b>Total Expenditure</b>	<u>2,444,030</u>
9,365,553	Surplus for the year	11,670,136
	Extraordinary Income —	
6,988,663	Surrender of Endowment Policies	221,119
	Value of Endowment Policies transferred to 'M' Scheme	—
14,310,721	Surplus at 1 January 1982	45,939,074
15,274,137		
<u>45,939,074</u>	<b>Accumulated Surplus at 31 December 1982</b>	<u>57,830,329</u>



(19) Superannuation and Pension Schemes

**Balance Sheet at 31 December 1982**

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

1981 \$		1982 \$
<u>45,939,074</u>	<b>Accumulated Funds</b>	
	Accumulated Surplus	<u>57,830,329</u>
	<i>Represented by:</i>	
	<b>Investments</b>	
	Term Deposits	2,345,000
8,079,473	Fixed-interest Securities, at cost	69,100
2,283,693	Ordinary Shares, at cost	—
	(Market Value \$2,642,721)	
2,602,059	Property Investment Trust Units	
	at cost	—
	(Market Value \$2,967,200)	
	Investments in Managed Funds—	
15,914,344	Australian Mutual Provident	
	Society	19,474,715
	National Mutual Life	
	Association of	
14,081,440	Australasia Limited	19,054,174
2,000,000	Westpac Investment	
	Management Pty Limited	<u>16,291,261</u>
		54,820,150
<u>44,961,009</u>		<u>57,234,250</u>
	<b>Current Assets</b>	
156,902	Cash in Transit	—
847,813	University Current Account	605,791
<u>1,004,715</u>		<u>605,791</u>
	<i>Less</i>	
	<b>Current Liabilities</b>	
	Members' Contributions on hand	
	at 31 December (awaiting	
	disbursement)	116
23,140	Accrued Charges	<u>9,596</u>
3,510		9,712
<u>26,650</u>		<u>596,079</u>
<u>978,065</u>		<u>57,830,329</u>
<u>45,939,074</u>	<b>Total Assets</b>	

## Changes in Membership of Council during 1982

### Members who retired or resigned from office during 1982

Mr D.G. Bloom (Undergraduate and Diploma Students) 1980-1982; The Honourable I.R. Cathie, M.P. (Governor in Council — Parliament) 1977-1982; Professor R.H. Day (Professors) 1978-1982; Mr E. Forbes (Governor in Council — Trades Hall Council) 1980-1982; Mr B.J. Joy (Minister for Education) 1980-1982; the late Mr S.S. Nevile (Governor in Council) 1975-1982; Dr A.D. Spaul (Non-Professorial Teaching Staff) 1982; Professor G.C. Schofield (Co-opted Dean) 1981-1982; Mr T.C. Trewin, M.P. (Governor in Council — Parliament) 1982; Mr B.W. Watson (Postgraduate Students) 1982.

### Members re-elected or re-appointed for a further term of office during 1982

Dr I. McCance (Non-Teaching Staff) 1982-1986; Mr M.W. Oldmeadow (Faculty of Education) 1982-1986; Dr K.C.L. Patterson (Graduates) 1982-1986; The Honourable Mr Justice R.C. Tadgell (Faculty of Law) 1982-

1986; Mr G.S. Wilson (Non-Professorial Teaching Staff) 1982-1986.

### Members elected or appointed to Council during 1982

The Honourable W.R. Baxter, M.L.C. (Governor in Council — Parliament) 1982-1983; Mr R.J.A. Elliott (Undergraduate and Diploma Students) 1982-1984; Professor J.D. Legge (Co-opted Dean) 1982-1983; Mr R.G. Ritchie (Minister for Education) 1982-1985; Dr A.D. Spaul (Non-Professorial Teaching Staff) 1982; Ms C.C. Strahan (Postgraduate Students) 1982-1983; Dr M.G. Sullivan (Non-Professorial Teaching Staff) 1982-1986; Mr G.B. Sword (Governor in Council — Trades Hall Council) 1982-1983; Dr G.M. Vaughan, M.P. (Governor in Council — Parliament) 1982-1983; Professor B.O. West (Professors) 1982-1986.

### Vacancies in the membership of Council as at 31 December 1982

Two Governor in Council appointees representing the interests of agriculture, the professions, industry and commerce.

