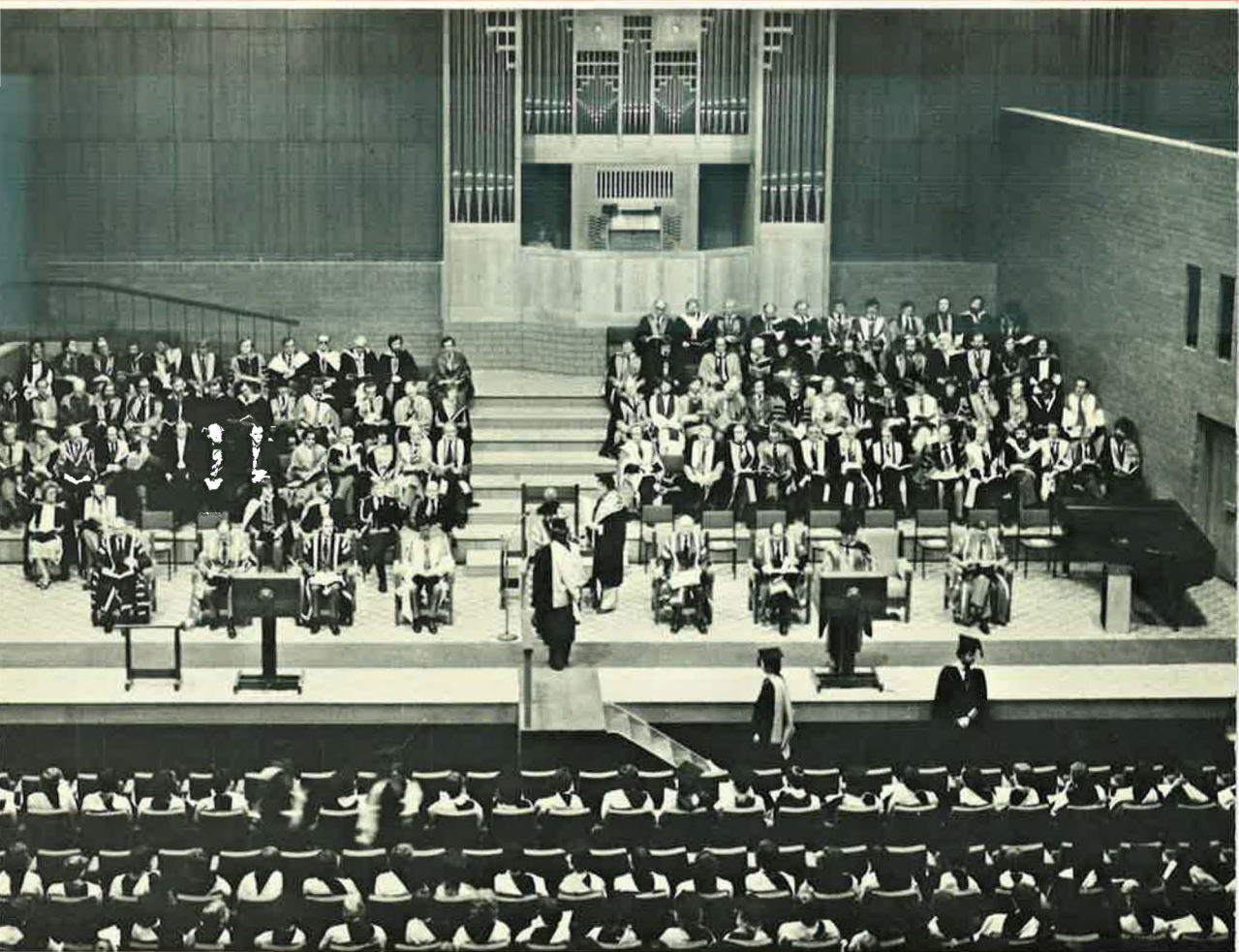


Report of the Council 1981



Monash University

Report of the Council of Monash University 1981

Report of the Council for the period
1 January 1981 to 31 December 1981

Report of the Council

1981

Monash University

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Front cover: Graduation ceremony, Robert Blackwood Hall, at which His Royal Highness,
Charles, Prince of Wales, was awarded the honorary degree of Doctor of Laws.

— Photo *Rick Crompton*

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REPORT OF THE COUNCIL FOR 1981

In accordance with Section 41 of the Monash University Act 1958, as amended, I submit the Report of the Council for 1981.

For and on behalf of the Council

R.M. Eggleston
Chancellor

THE COUNCIL

Members of Council as at 31 December 1981*

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

Ian Robert Cathie, B.A., Dip.Ed.(Melb.), M.L.A.

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.

Thomas Campion Trewin, M.L.A.

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

Edward Forbes
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.
Sandford Saul Nevile, O.B.E., B.Com.(Melb.)

Elected by graduates of the University

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

Elected by the Faculties

David Hector Monro, M.A.(N.Z.), F.A.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.) (*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

Ross Henry Day, B.Sc.(W.Aust.), Ph.D.(Brist.), F.B.Ps.S., F.A.Ps.S., F.A.S.S.A.

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.

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.

Jennifer Strauss, B.A.(Melb.)

Appointed by the Minister for Education

Barry John Joy, A.R.M.I.T., A.A.S.A.(Senior), A.C.I.S.

Co-opted

Keith Thomas Henry Farrer, O.B.E., M.A.(LaT.), D.Sc.(Melb.), 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*

Co-opted from among the Deans of the Faculties

Peter William Musgrave, M.A., Cert.Ed.(Cantab.), Ph.D.(Lond.), 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 non-academic staff

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

Elected by the students of the University

Susan Elizabeth Armstrong

David Graham Bloom

Bruce Malcolm Watson, M.Sc.(Melb.)

*See Appendix 1 for changes in membership during the year.

REPORT OF THE CHANCELLOR

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

I chaired ten meetings of the Council during 1981, in the months of March to December inclusive. 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 Council records its sincere appreciation of the contribution made to its proceedings by all who so willingly gave of their time and interest to the University.

Many important matters were considered by the Council in 1981 concerning both the governance of the University and broader issues affecting tertiary education as a whole. Council selection committees recommended appointments for the Deputy Vice-Chancellorship, the Deanship of the Faculties of Education and Law, and for vacant Chairs in Education, English, History, and Visual Arts as well as a personal chair in Reproductive Biology. A major review of the government of the Faculty of Education was undertaken by the Council's Review Committee and several matters in regard to the management of student amenities and services brought into focus the roles and responsibilities of the Union Board in relation to the Council. Of the broader issues that arose in 1981, Council considered at length the recommendation of the Tertiary Education Commission for the 1982-84 triennium in volumes 1 and 2 of its report, and relevant policy determinations arising out of the Review of Commonwealth Functions. At the State Government level, Council noted with concern further instances of encroachment by government into areas which have been traditionally under the autonomous jurisdiction of universities. The Vice-Chancellor has more to say on some of these matters in his report.

In continuation of the Vice-Chancellor's faculty familiarisation program for members, Council inspected the facilities of the Faculties of Education and Medicine during the year and gained an insight into

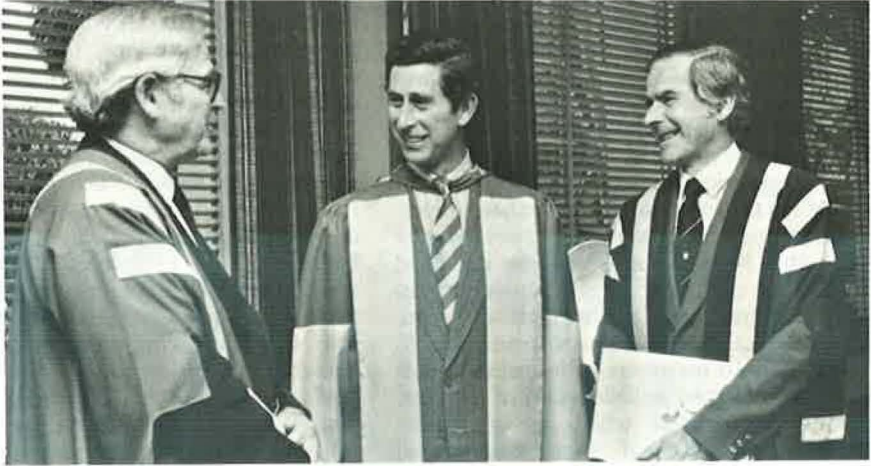
the current teaching and research programs being conducted by these sectors of the University. As part of its inspection of clinical departments attached to the Monash University Medical School and with the kind permission of the Board of Management, Council held its August meeting in the Board Room of the Alfred Hospital in Prahran.

At its March meeting, Council congratulated the Dean of Medicine and serving Council member, Professor G.C. Schofield, on being made an Officer of the British Empire, and the Dean of Engineering, Professor L.A. Endersbee, on being made an Officer of the Order of Australia. Council was also pleased to note that two of its honorary graduates, Emeritus Professor A.D. Hope and Sir Charles McGrath, had been made Companions of the Order of Australia. In June, Council noted with pleasure the conferral upon Sir James McNeill of the Honorary Degree of Doctor of Science by the University of Newcastle. Two former Monash Professors of Education, Emeritus Professor R. Selby Smith and Mr S.S. Dunn became Officers of the British Empire and the Order of Australia respectively in the Queen's Birthday honours.

At its December meeting, Council commissioned a portrait of its retiring Deputy Vice-Chancellor, Professor W.A.G. Scott. The Vice-Chancellor in his own report pays a tribute, which I fully endorse, to the long and devoted service of Professor Scott to the University in the several roles of foundation Professor of English and Dean of the Faculty of Arts, Pro-Vice-Chancellor, Vice-Chancellor, and Deputy Vice-Chancellor.

Of the many important visitors to Monash in 1981, most notable were Mr Robert Mugabe, Prime Minister of Zimbabwe, who spoke to an overflow audience in the Robert Blackwood Hall on 29 September, British Prime Minister, Mrs Margaret Thatcher, who delivered the 1981 Sir Robert Menzies Lecture on 6 October, and His Royal Highness the Prince of Wales, upon whom it was

His Royal Highness, Charles, Prince of Wales, was awarded the honorary degree of Doctor of Laws at a graduation ceremony on 16 April. After the ceremony Prince Charles spoke with the Chancellor, Sir Richard Eggleston (*left*) and the Vice-Chancellor, Professor Ray Martin.



my privilege to confer the Honorary Degree of Doctor of Laws at a graduation ceremony on 16 April. Unfortunately, accounts in the media of this very happy occasion suffered from gross exaggeration and distortion, giving the impression that the safety of His Royal Highness had been endangered by a large and hostile crowd, which was very far from the truth. Such irresponsible media coverage is very damaging to the University, particularly when inaccurate details of the incident are widely reported overseas where Monash enjoys an enviable reputation for its scholarship and research.

At graduation ceremonies during the year honorary degrees were also conferred upon the following: Doctor of Laws — Joseph Brown; Doctor of Science — Charles Henry Brian Priestley; Master of Science — Celia Rosser; Doctor of Laws — William Alexander Gowdie Scott; Doctor of Laws — Sir Colin York Syme. In all, 2,505 degrees were conferred upon students of the University in 1981 — its twenty-first year of teaching.

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.

On 11 March 1981 the University completed its first twenty years of teaching and research. When teaching commenced in 1961, there were ten professors, and an enrolment of 363 undergraduates and graduates. Just two decades later, more than 100 professors provide leadership for some 900 academic staff and 14,000 students. It is no exaggeration to state that Monash is already in the forefront of Australian universities, largely fulfilling the hopes of our founders. Monash now enters its third decade as the fifth largest university in Australia and with a distinguished reputation for its scholarship and research. No fewer than 40 members of its present staff have been elected to fellowship of the four learned Academies which is one independent measure of their exceptional achievements.

In each of my four previous reports I have paid tribute to the valuable support of Professor W.A.G. Scott as Deputy Vice-Chancellor and Professor B.O. West as part-time Pro-Vice-Chancellor. This is again my task for 1981 although, regrettably, it will be for the last time. Professor Scott retired from the University at the end of the year and Professor West will return to full-time scholarly activities in the Department of Chemistry in 1982. The Council paid tribute to Professor Scott's dedicated service by conferring upon him the title of Emeritus Professor and the honorary degree of Doctor of Laws at a graduation ceremony in December. In succession to Professor Scott, the Council appointed Professor K.C. Westfold, who was appointed to the foundation chair in applied mathematics early in 1961, was for ten years Dean of the Faculty of Science, and Pro-Vice-Chancellor in 1976 prior to his return to full-time scholarly activities as Professor of Astronomy. He has acted as Vice-Chancellor on several occasions and will bring a wealth of experience and wisdom to his new appointment. I hope the University will be equally fortunate in attracting a distinguished successor to

Professor West as Pro-Vice-Chancellor. For the past six years, Professor West has given firm leadership, far beyond the limits of his part-time appointment, in the Ph.D. and research field and in other important areas of the University's endeavours.

Monash lost two further links with its early foundation when two of its foremost scholars, Professor D. Cochrane and Professor A.G.L. Shaw, retired at the end of the year. As founding Dean of the Faculty of Economics and Politics following his appointment to the chair of economics in 1961, Professor Cochrane played a major role in establishing and maintaining an enviable reputation for his faculty in both teaching and research. It is sad that ill-health forced him to retire one year early. At the time of his retirement, he had just completed an inquiry on electricity pricing for the aluminium industry for the Victorian Government, was Chairman of Commissioners of the State Bank of Victoria, and was Chairman of the Trade Union Training Authority — three examples of the many contributions he made over two decades to the world of commerce and to the community as a whole. Professor A.G.L. Shaw retired after 17 years as a Professor of History at Monash. During that time he came to be regarded as one of the nation's foremost scholars in the field of Australian History. From the beginning of 1979, Professor Shaw transferred to a half-time appointment following his election to the prestigious position of President of the Academy of Social Sciences in Australia. He will be much missed at Monash. During the year Professor Shaw was elected a Fellow of Trinity College, Melbourne, which should ensure that his wisdom and experience will not be lost to the academic community in Victoria.

Also during 1981 a further six members of the University staff were recognised for distinction in their field of scholarship by being elected to fellowship of their respective learned academy. In addition, the

Chancellor, Sir Richard Eggleston, was elected to fellowship of the Academy of Social Sciences in Australia largely on the basis of his writings on the law of evidence which he has undertaken in recent years during his period of appointment as a consultant to the Monash University Law School. Many members of staff continue to play a wide and influential role in the community and details are given in the relevant sections of this Report. Professor E.M. Campbell of the Faculty of Law was invited to join the Universities Council. The University's pioneering Masters program in environmental science was honoured in September when its Director, Dr E.H.M. Ealey, became a joint winner of the 1981 Robin Boyd Environmental Award by the Victorian Chapter of the Royal Australian Institute of Architects for his 'pioneering educational concepts in environmental sciences'. Other awards to members of staff included the J.A. Brady Medal for 1981 of the College of Chemical Engineers which was won by Associate Professor J. Agnew and Mrs V. Tirtaatmadja and the Inorganic Chemistry Medal of the Royal Australian Chemical Institute which was presented to Professor B.O. West.

The maintenance of a program of academic development and the fostering of innovation are perhaps the most challenging aspects in preserving strength and vitality in a university. These objectives are difficult to achieve in times of restricted funding and reduced staff mobility. Nonetheless, two new centres were established by Council in 1981 on the recommendation of the Professorial Board to facilitate research and graduate study on an interdisciplinary basis. These are the Centre of Laser Studies, which will co-ordinate and extend the broad spectrum of work currently being undertaken within the Faculties of Engineering, Medicine, and Science, and the Centre for Bibliographical and Textual Studies, which will provide a focal point for the various interrelated fields of expertise in several

departments within the Faculty of Arts as well as the Graduate School of Librarianship. In another attempt to stimulate worthwhile academic developments, Council, again on the recommendation of the Professorial Board, agreed in July to establish an Academic Development Loans Scheme to provide initial working capital for academically sound and potentially profitable new developments within the University. This scheme should create an impetus for some of the many skills and collective expertise of the University to be put to the practical use of industry, government, and the community. Monash also strengthened its link with the important field of marine science during the year by entering into a formal affiliation agreement with the Victorian Institute of Marine Sciences.

In my last report I mentioned the success, excitement, and community debate surrounding the *in vitro* fertilisation and egg transfer program being undertaken by Professor E.C. Wood's team in the Monash Department of Obstetrics and Gynaecology at the Queen Victoria Medical Centre. By the end of the year the number of babies born as a result of this program had risen to 11 including the world's first set of twins. The acknowledged world dominance of Monash in this area of research was strengthened even further during the year with the appointment of Professor R.V. Short to a personal chair of reproductive biology within the Departments of Anatomy and Physiology. At the time of his appointment Professor Short, a Fellow of the Royal Society, was Director of the British Medical Research Council Reproductive Biology Unit. I think it is a tribute to the international standing of the University that we are able to attract distinguished scholars of Professor Short's calibre. While the newspaper headlines understandably diminished in size with each succeeding birth, questions surrounding the ethical, legal, and theological aspects of this area of human

biology gained prominence. In the main the debate on these issues conducted in the public domain has been constructive and responsible. For its part, the University, through its Centre for Human Bioethics is providing a focal point for sustained academic dialogue on these complex matters.

In terms of physical development, there was little activity on campus during 1981. As I commented in my last report, our long-awaited new microbiology building was completed and occupied at the end of 1980. It was officially opened on 26 February by Sir Macfarlane Burnett. This was most fitting as it was Sir Macfarlane who, 18 years earlier, had opened the Monash Medical School. No progress was made during the year in plans to relocate the Queen Victoria Medical Centre to its new Clayton site. Construction commenced early in the year on the Union-funded swimming pool and leisure complex referred to in my previous report. This project will be completed in 1982 and will offer excellent facilities for students, staff, and the surrounding community.

The Chancellor has already referred to the occasion on 16 April when an honorary degree of Doctor of Laws was conferred upon His Royal Highness the Prince of Wales. This was a notable event for Monash and we are pleased to number His Royal Highness among our graduates. Unfortunately, as the Chancellor has said, some sections of the media went out of their way to emphasise the activities of a small group of demonstrators. In contrast, media coverage of the peaceful and more orderly proceedings which surrounded the lectures given at the University later in the year by the British Prime Minister, Mrs Margaret Thatcher, and the Prime Minister of Zimbabwe, Mr Robert Mugabe, were relatively low-key. Other events of interest during the year included the 1981 A.A. Calwell Memorial Lecture given by New South Wales Premier, Mr Neville Wran, on

17 July; a symposium entitled, 'Access, Attitudes and Awareness: Full Participation and Equality of Disabled People at Monash University', on 22 May as part of the activities to commemorate the International Year of the Disabled; two recitals on the Louis Matheson Pipe Organ by internationally renowned organist Professor Luigi Tagliavini — the first of which, on 11 March, marked the twentieth anniversary of the opening of Monash University; and successful art exchange exhibitions between Monash and the Geelong Art Gallery. In August, the first volume of *The Banksias* was launched in conjunction with the XIII International Botanical Congress in Sydney. This superbly printed volume has a text by the botanist Alexander George and contains illustrations of the first 24 of the known 72 species in the genus *Banksia* painted by the University's artist, Mrs Celia Rosser. I am pleased that this monumental work received the international critical acclaim it deserved. It was most fitting that Mrs Rosser had the honorary degree of Master of Science conferred upon her at the graduation ceremony held in December.

In my last report, I mentioned the establishment by Council's Planning Committee of an expert working party to investigate Monash's perennial transport problems and recommend measures aimed at improving access to the University for staff and students. The Transport Working Party, as it is known, commenced its formal proceedings in May under the Chairmanship of Mr V.E. Jennings, Executive Director — Research, of Jennings Industries Limited. A full-time Research Assistant was appointed in July with funds provided jointly by the Victorian Minister for Transport and the University. I am most grateful for the support and encouragement given by the Minister and his Department and the Working Party hopes to submit an interim report early in 1982 and present its final recommendations by the middle of the year.

In June 1980, I established the Vice-Chancellor's Advisory Committee on Community Liaison to examine ways in which the University might broaden and strengthen its links with the community. One of the first tasks of this Committee, under the Chairmanship of the Director of the Centre of Continuing Education, Dr J.A. McDonell, was to initiate a survey of staff interests and community-oriented research. This survey has yielded a surprisingly rich harvest of skills and interests within the University which, hopefully, can be used, from time to time, to assist the community at large. In another aspect of community involvement, the University is to play a role in the celebrations in 1984-85 to commemorate the 150th anniversary of white settlement in Victoria. Monash has been selected to host the 1985 ANZAAS Congress — the premier annual gathering in Australasia for scientists and social scientists to discuss the latest developments in their several disciplines. Also, individual members of staff are involved in a number of specific projects linked with the Victorian sesquicentenary.

During the year I made two overseas trips. In March I attended the Association of Commonwealth Universities Conference of Executive Heads in Hong Kong. This conference served as a reminder that there are always those in a worse position than oneself. I have rarely met a more dejected group of people than the contingent of British Vice-Chancellors who had just been informed of massive cuts by the University Grants Committee. Afterwards, in company with other Australian colleagues, I was pleased to accept an invitation from the Chinese Government to visit the People's Republic of China for two weeks as a guest of their Ministry of Education. This visit proved to be most instructive and gave a fascinating insight into the ways in which the Chinese are developing a tertiary education system to suit their needs and aspirations. I also visited Japan for a brief period in

connection with a number of joint projects between Monash and Japanese institutions. On the way home, I represented the University at the inauguration of the new University of East Asia at Macau and in all, was absent for five weeks. Between mid-August and early September I spent a further period overseas, principally to attend the 31st General Assembly of the International Union of Pure and Applied Chemistry in Leuven, Belgium. I also visited London to finalise arrangements with Academic Press for the publication and launching of the first volume of *The Banksias*.

Let me now turn to the more sombre matters of funding and government attitudes with which, of necessity, universities have become preoccupied in recent years. Monash started the year with a reduced recurrent grant in real terms of \$218,000 in comparison with its 1980 allocation. This has had serious implications for the University which, of course, faces an increase in its real costs each year. Staffing levels have been reduced, particularly in the casual teaching area, and teaching and research programs have had to be pruned to accommodate the more austere funding levels. I am pleased to report that, despite these difficulties, morale remains high and I am confident that the staff will continue to do all they can to preserve the quality of the University's scholarship.

In its advice to the government for the 1982-84 triennium, the Commonwealth Tertiary Education Commission stressed that there had been '*insufficient financial provisions for universities in the last five years*' and recommended funding levels to restore their capacity to fulfil their '*special institutional commitment to scholarship and research and to training scholars and research workers*'. Unfortunately, however, Monash's 1981 general recurrent grant of \$73.677M will be reduced in each successive year of the triennium by \$1,137,000 in 1982, \$210,000 in 1983, and \$20,000 in 1984 in real terms.

In presenting this report, the C.T.E.C. warned that the reduced level of funding imposed upon the university and college sectors for 1982-84 would mean that *'a decline in the operating standards of some universities and C.A.E.s is now unavoidable in the short term'*. This is a depressing situation for this University. My main concern is that the continued reduction in funding will have an adverse effect on the age distribution of teaching staff in the University with job opportunities being severely restricted for young academics in the junior grades which could result in the loss of a substantial part of the next generation of university teachers. Another complicating factor is the government's intended switch from retrospective to prospective supplementation of recurrent funds. In times of increasing inflation and a renewed wages push, this procedure will introduce a new level of uncertainty into the University's financial management. The decision of the Academic Salaries Tribunal late in the year to grant a further 6 per cent salary increase to academic staff in addition to the interim 4 per cent grant in November 1980 highlighted the difficulty of trying to budget in advance for future cost increases.

Modest increases in Monash's 1982 equipment and special research grants were welcomed. I would be even happier, however, if I thought that this signalled the government's intention to restore its support of university research to a level so clearly necessary for the national interest. In this respect, the honouring of the election pledge to expend \$16M over the 1982-84 triennium on research centres of excellence is a step in the right direction. It was encouraging to learn late in the year that three proposals from Monash had been included in the final short-list of 35 research programs selected from a total of some 250 applications received for grants under this program. This gives an independent measure of the depth and quality of scholar-

ship that we are striving to preserve against ever-increasing pressures.

Another idea in the federal sphere which came in for much criticism was the report of the Review of Commonwealth Functions, the so-called 'Razor Gang'. The main educational proposals in this report involved the forced merger of certain tertiary institutions, the abolition of the Education Research and Development Committee (E.R.D.C.), and the imposition of fees for second and higher degrees. Council was highly critical of the report and passed the following resolution at its May meeting:

Council expressed its concern at the educational proposals contained in the report of the Committee of Review of Commonwealth Functions (the so-called Razor Gang Report) since they appear to reflect an arbitrary and haphazard way of formulating educational policy. With regard to the particular proposal to reintroduce fees for second degrees and higher degrees, Council believes that this will result in a decline in postgraduate enrolments and to that extent will affect adversely the research function of the University and all those contributions to the well-being of the community which flow from that function. In any event the difficulty of assessing the effect of adopting the proposal suggests the undesirability of proceeding to such changes without careful inquiry, consultation and deliberation.

Council asks the Vice-Chancellor to urge the A.V.C.C. to make vigorous representations to the Government about the need to adhere to a coherent method of formulating educational policy through the C.T.E.C. and its subordinate councils rather than by ad hoc political decision.

In October it was announced that the Senate Standing Committee on Education and the Arts would conduct an enquiry into 'The tenure of employment of academic staff in Australian Universities and Colleges of

Advanced Education'. The enquiry has been concluded but the report is not yet available.

By comparison with events in Canberra, relations with the state government gave no major cause for anxiety. The government and its Post-Secondary Education Commission were, with the exception of the Deakin University Engineering School, much preoccupied with the college sector during the year. One matter which did cause some concern to universities, however, was certain provisions of the Post-Secondary Education (Amendment) Bill which sought to limit the purposes for which compulsory student union fees may be used. Council noted that these provisions appeared to impinge upon its role in the oversight and control over the expenditure of student funds — a role which it had always taken

seriously and, it believed, responsibly. Despite a submission to the Minister and a call for a deferment of the legislation so that this matter could be aired more fully by all parties concerned, the Bill passed all stages and was assented to early in the new year, but has not been proclaimed.

At its December meeting, Council approved a number of proposed amendments to the Monash University Act. Most of these involved minor changes to bring the Act up to date. One significant amendment, however, will permit the University to set up companies to promote certain of its educational facilities and exploit the results of its research endeavours. This should provide Monash with more independence and flexibility of co-operation which could prove valuable in the testing times ahead.

DEVELOPMENT AND ADMINISTRATION

Site and Buildings

Construction commenced on the swimming pool in 1981. Its completion, together with the extension to Engineering Building 6, is anticipated in 1982. The air-conditioning of the Alexander Theatre was completed in 1981.

Funds for minor building works and site works in 1981 were applied to the provision of a bus pull-in bay at Robert Blackwood Hall, services to new buildings, the completion of air-conditioning of the Microbiology Building, the consequential alterations for Medical 'C' Block, the connection of five additional buildings to the Central Control Monitoring System, general paving and re-surfacing of the south-east and south-west car parks.

Legislation

Five amending Statutes and thirty-three new or amending Regulations were made in 1981. Major legislative changes included a complete revision of the Regulations governing the Degree of Bachelor of Arts and completion of the revision of the Discipline Statute. Also new Regulations governing Matriculation were passed and Regulations governing the combined Degrees of Bachelor of Science and Bachelor of Engineering were introduced.

University Publishing

Early in the year the Publications Officer toured six Australian universities; A.N.U., the Universities of Adelaide, Melbourne, N.S.W. and Sydney and Macquarie University. The purpose of these visits was to examine the structure and work flow of other publication sections in universities. As a result of these examinations it became apparent that the Monash Publications Section was too limited in its capabilities and was restricted in its functions by the lack of typesetting facilities and the specialised

nature of publications which come within its ambit. Proposals to remedy this situation have been made and are at present under consideration.

The Publications Committee conducted a successful publicity campaign at the beginning of the year and received a considerable number of requests for assistance. Assistance was provided both in the form of subsidies and in the form of publishing advice and legal guidance on publishing contracts.

The publication of the first volume of *The Banksias* by Celia Rosser and Alex George (Academic Press in association with Monash University) marked the end of the first stage of a particularly satisfying editorial task. The intricacies of editorial liaison on a project of this magnitude — page size is 770 mm × 550 mm and the 24 plates are printed in up to nine colours — are hard to foresee. The challenges imposed by the production of volume I were stimulating and the continued involvement in work on volume II will reinforce the experience gained.

Safety

A new University Safety Officer was appointed in July following the retirement of Mr W. Barker. Codes of safe practice for external activities such as diving and boating are in the course of preparation, as is training for staff and students in general safety, fire protection and resuscitation. Evacuation exercises were carried out in the Halls of Residence and the Union Building. A system for advising users on the means of disposing of waste chemicals has been implemented. The emergency vehicle turned out on 41 occasions. Affiliation was continued with the National Safety Council, Australian Fire Protection Association, Dandenong and District Safety Group. Safety officers from Monash and other institutions have formed an informal group for the exchange of information. The University was host to the

annual Apprentice Safety Seminar at which 116 local apprentices attended.

Eight radiation incidents were reported in 1981, of which 3 were high thyroid uptakes of radioactive iodine in the medical departments. In none of these was the dose limit exceeded but in accordance with the principle that doses be kept as low as readily achievable, the lessons learnt were promptly put into practice. Lectures to post-graduate students and staff on the safe use of ionising

radiations have continued. The Radiation Protection Officer took up accommodation in the Faculty of Medicine and this greatly facilitated consultation with users and the thyroid and area radiation monitoring programs. He also attended the 7th A.I.N.S.E. Radiation Biology Conference and the 6th Australian Radiation Protection Society Conference, in which he was co-chairman of a session on Campus Radiation Protection.

STAFF

The recruitment of academic staff in 1981 remains 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 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 equivalent, as reported to the Tertiary Education Commission in the annual statistical return of April 1981 was:

	Professor	Assoc. Professor, Reader	Senior Lecturer	Lecturer, Teaching Registrar	Principal Tutor	Senior Tutor	Tutor	Total
Arts	22	17	80	41	4	12	38	214
Economics & Politics	15	10	32	35	2	3	30	127
Education	5	4	27	15	2	5	3	61
Engineering	9	15	41	10	—	7	2	84
Law	6	6	24	11	—	14	3	64
Medicine	20	16	60	22	1	22	3	144
Science	22	29	76	20	1	6	17	171
Other	—	2	—	2	—	2	—	6
Totals	99	99	340	156	10	71	96	871

A comparison of the total teaching staff numbers in 1981 with those of the previous two years is:

1979	1980	1981
876	884	871

The pattern of teaching staff recruitment in 1981 was:

	Continuing Appointment	Fixed Term	Short Term or Temporary
Professors	2	—	—
Senior Lecturers	1	—	8
Lecturers	10	12	19

Thirty-five Senior Tutors and 63 Tutors many of the last being employed on a fractional basis, took up their appointments in 1981. Those leaving the University in the year due to resignation, retirement or expiry of fixed or short term appointments were:

	Continuing Appointment	Fixed Term	Short Term or Temporary
Professors	6	—	—
Readers	2	—	—
Associate Professors	2	—	—
Senior Lecturers	9	—	—
Lecturers	4	2	2

Twenty-six Senior Tutors and 41 Tutors also left during the year.

Those who resigned during 1981 included Professor W.C. Clarke (Geography) and Professor A.P. McCaughey (Visual Arts).

Professor R. Baxt was appointed Dean of the Faculty of Law during 1981 for a term of five years and Professor L.A. Endersbee was reappointed Dean of the Faculty of Engineering for a second term of five years. Professor G.D. Thorburn (Physiology) and Professor R.T. White (Education) took up their appointments during 1981.

Academic staff employed solely for research projects comprised: 35 Research Fellows and Officers, and 123 Research Assistants many of the last being employed on a fractional basis.

Full time equivalent staffing 1981

The overall full time equivalent staffing of the University has stabilised to a minor upward trend as shown by the following figures:

<u>1979</u>	<u>1980</u>	<u>1981</u>
2,915	2,994	3,021

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

Teaching and Research:		
Teaching staff	998	
Support staff	749	1,747
Research:		
Academic staff	179	
Support staff	50	229
Library		190
Computing		55
Other Academic Services		53
Student Services		23
Central Administration		213
Buildings, Grounds, Cleaning and Central Services		240
Continuing Education		9

Independent Operations

Student Union,
Bookshop etc. 262

The University records with regret the death during 1981 of Associate Professor D.F. Dorward.

At the end of 1981, Professors D. Cochrane, W.A.G. Scott and A.G.L. Shaw were granted the status of Emeritus Professor and Professor R. Taft was granted that status during the year. Professor P.W. Musgrave, at the end of 1981, retired from the Deanship of the Faculty of Education to return to a Chair in the Faculty.

Outside Studies Program

Participation on Outside Studies Program for the calendar year of 1981 remained within the T.E.C.'s target of 7 per cent. The University expects to meet the T.E.C.'s requirements of 7 per cent in the future. The new rules are not causing hardship but it is felt that the current economic climate is restricting Outside Studies Program plans. The Outside Studies Program rules, first implemented in September 1979 were revised in December 1981. The main revisions included eligibility for fixed term appointees with a five year term, revised scheduling for applications, supervision of extra faculty staff, clarification of financial assistance for dependants and revised calculation for additional earnings.

ACADEMIC DEVELOPMENTS

Degrees and Diplomas conferred

The following degrees and diplomas were conferred by the University at graduation ceremonies in 1981, the final column indicating the total number of degrees and diplomas awarded since the foundation of the University:

	Male	Female	1981 Total	1961-81 Total
Bachelor of Arts	155	323	478	7,734
Bachelor of Arts with Honours	32	50	82	1,294
Bachelor of Social Work	6	9	15	20
Bachelor of Social Work with Honours	3	14	17	147
Master of Arts	12	11	23	276
Master of Librarianship	—	1	1	8
Master of Social Work	1	2	3	4
Bachelor of Economics	279	105	384	4,510
Bachelor of Economics with Honours	15	7	22	474
Master of Administration	31	5	36	322
Master of Economics	8	—	8	136
Bachelor of Education	56	44	100	1,429
Bachelor of Special Education	—	2	2	161
Master of Education	37	21	58	316
Master of Educational Studies	34	16	50	64
Bachelor of Engineering	80	1	81	935
Bachelor of Engineering with Honours	67	1	68	1,114
Master of Engineering Science	35	2	37	200
Bachelor of Jurisprudence	25	17	42	997
Bachelor of Laws	169	65	234	1,835
Bachelor of Laws with Honours	4	1	5	136
Master of Laws	8	3	11	106
Bachelor of Medical Science	1	—	1	12
Bachelor of Medical Science with Honours	2	1	3	125
Bachelor of Medicine, Bachelor of Surgery	68	35	103	1,533
Bachelor of Medicine, Bachelor of Surgery with Honours	27	13	40	452
Master of Psychological Medicine	1	—	1	1
Master of Surgery	2	—	2	2
Bachelor of Science	183	109	292	3,297
Bachelor of Science with Honours	116	57	173	1,954
Master of Environmental Science	5	6	11	97
Master of Science	11	5	16	269
Doctor of Philosophy — Arts	13	6	19	155
— Economics	4	2	6	22
— Education	6	2	8	62
— Engineering	16	—	16	196
— Law	2	—	2	19
— Medicine	3	1	4	19
— Science	25	15	40	631

Doctor of Medicine	2	—	2	25
Doctor of Science	2	—	2	10
Honorary Master of Science	—	1	1	4
Honorary Doctor of Letters	—	—	—	10
Honorary Doctor of Engineering	—	—	—	7
Honorary Doctor of Laws	4	—	4	31
Honorary Doctor of Medicine	—	—	—	5
Honorary Doctor of Science	1	—	1	9
Total Degrees	1,551	953	2,504	31,224

	Male	Female	1981 Total	1961-81 Total
Diploma in Commercial Law	7	—	7	15
Diploma in Computer Science	2	1	3	13
Diploma in Education	112	161	273	5,814
Diploma in Educational Psychology	11	21	32	144
Diploma in Engineering Geology	1	—	1	8
Diploma in English	1	8	9	15
Diploma in Family Law	—	—	—	—
Diploma in Immunology	1	1	2	8
Diploma in International and Company Law	1	—	1	1
Diploma in Japanese Studies	1	1	2	3
Diploma in Librarianship	1	4	5	8
Diploma in Linguistics	—	—	—	3
Diploma in Materials Engineering	—	—	—	1
Diploma in Microbiology	—	—	—	4
Diploma in Migrant Studies	—	1	1	21
Diploma in Operations Research	6	1	7	11
Diploma in Russian	—	—	—	1
Diploma in Taxation Law	—	—	—	1
Total Diplomas	144	199	343	6,071

1981 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.

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Group (a)										
Arts	83	85	87	88	83	87	86	87	84	84
Economics & Politics	81	87	85	80	75	83	85	82	83	80
Law	79	88	92	94	91	90	93	97	92	95
Science	89	87	84	87	85	80	83	86	87	88
Group (b)										
Diploma in Education*	96	97	95	95	95	95	98	87	93	95
Engineering	83	76	64	64	67	71	73	74	75	83
Medicine	98	98	95	90	99	95	95	88	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.

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

STUDENT ENROLMENT

The net total undergraduate population increased from 10,298 in the previous year to 10,459, an increase of 1.6 per cent. Graduate enrolments increased from 2,267 to 2,375 and total enrolments of all students from 14,096 to 14,161. Full details of enrolments are given in the table below:

Of the total of 14,161 students, 1,671 (11.8 per cent of the total) were from overseas, as follows: *Oceania* — Papua New Guinea 6, Fiji 7, New Zealand 11, Tonga 1; *Africa* — Ghana 1, Kenya 1, Mauritius 4, Nigeria 2, South Africa 2, Zimbabwe 3, Tanzania 4, Uganda 4,

Zambia 1, Other Africa 1; *America* — Canada 5, USA 12, South America 1; *Asia* — Brunei 1, Cyprus 1, Hong Kong 61, India 17, Malaysia 1,291, Singapore 50, Sri Lanka 27, Other Commonwealth Asia 2, Bangladesh 7, Burma 1, Cambodia 1, China 3, Indonesia 30, Japan 25, Korea 4, Pakistan 3, Philippines 1, Taiwan 2, Thailand 27, Vietnam 7, Other Asia 1; *Europe* — U.K. and Ireland 13, Germany 12, Malta 2, Netherlands 2, U.S.S.R. 1, Nordic Lands 1, Other Europe 6; *Middle East* — Israel 2, Other Middle East 4. A total of 971 males and 700 females.

Net Enrolments by Degree/Faculty 1981 (as at 30 April)

Faculty and year	Full Time			Part Time			Total		
	M	F	T	M	F	T	M	F	T
Higher degree									
Higher Doctorate	4	—	4	11	—	11	15	—	15
Ph.D.	291	110	401	116	44	160	407	154	561
Master	200	140	340	989	470	1459	1189	610	1799
TOTAL	495	250	745	1116	514	1630	1611	764	2375
Master preliminary	25	18	43	41	51	92	66	69	135
Postgraduate diplomas									
Arts:									
Dip.Engl.	1	1	2	1	9	10	2	10	12
Dip.Jap.Stud.	1	—	1	1	3	4	2	3	5
Dip.Libr.	—	—	—	4	5	9	4	5	9
Dip.Ling.	1	—	1	—	—	—	1	—	1
Dip.Mig.Stud.	—	—	—	—	—	—	—	—	—
Economics & Politics:									
Dip.Ops.Res.	12	6	18	5	1	6	17	7	24
Education:									
Dip.Ed.	89	134	223	35	33	68	125	167	291
Dip.Ed.Psych.	3	9	12	12	46	58	15	55	70
Engineering:									
Dip.Mat.Eng.	—	—	—	—	—	—	—	—	—
Law:									
Dip.Com.Law	4	—	4	16	3	19	19	3	23
Dip.Int.&Comp.Law	—	—	—	3	—	3	3	—	3
Dip.Tax.Law	2	1	3	39	1	40	41	2	43
Dip.Fam.Law	—	—	—	8	7	15	8	7	15

Net Enrolments by Degree/Faculty 1981 (as at 30 April) (continued)

Faculty and year	Full Time			Part Time			Total		
	M	F	T	M	F	T	M	F	T
Medicine:									
Dip.Imm.	1	—	1	1	1	2	2	1	3
Dip.Micro.	—	1	1	—	—	—	—	1	1
Science:									
Dip.Comp.Sc.	—	—	—	14	3	17	14	3	17
Dip.Eng.Geol.	—	—	—	—	—	—	—	—	—
TOTAL	114	152	266	139	112	251	253	264	517
Postgraduate									
Bachelor degree									
Education:									
B.Ed.	2	3	5	106	119	225	108	122	230
B.Sp.Ed.	—	2	2	20	85	105	20	87	107
TOTAL	2	5	7	126	204	330	128	209	337
Bachelor degree									
Arts: B.A.									
I	306	536	842	95	349	444	401	885	1286
II	173	430	603	72	196	268	245	626	871
III	169	403	572	84	263	347	253	666	919
IV	38	40	78	3	22	25	41	62	103
Sub-Total	686	1409	2095	254	830	1084	940	2239	3179
Arts: B.Soc.Wk.									
III	9	35	44	—	—	—	9	35	44
IV	10	33	43	—	—	—	10	33	43
Sub-Total	19	68	87	—	—	—	19	68	87
Economics & Politics:									
I	227	165	392	49	18	67	276	183	459
II	273	179	452	70	26	96	343	205	548
III	265	162	427	175	56	231	440	218	658
IV	17	2	19	—	—	—	17	2	19
Sub-Total	782	508	1290	294	100	394	1076	608	1684
Engineering:									
I	248	21	269	—	—	—	248	21	269
II	215	14	229	3	—	3	218	14	232
III	165	14	179	5	—	5	170	14	184
IV	138	7	145	1	—	1	139	7	146
Sub-Total	766	56	822	9	—	9	775	56	831

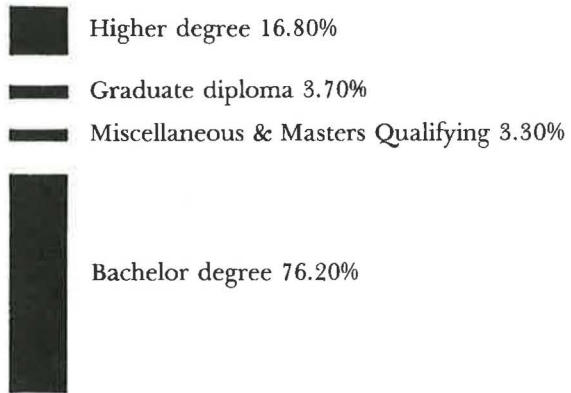
Net Enrolments by Degree/Faculty 1981 (as at 30 April) (continued)

Faculty and year	Full Time			Part Time			Total			
	M	F	T	M	F	T	M	F	T	
Law: LL.B.	I	—	—	—	6	8	14	6	8	14
	II	1	—	1	9	13	22	10	13	23
	III	17	10	27	16	13	29	33	23	56
	IV/V	48	17	65	33	14	47	81	31	112
	Sub-Total	66	27	93	64	48	112	130	75	205
Law: B.Juris/LL.B.	I	7	9	16	3	3	6	10	12	22
	II	15	6	21	12	2	14	27	8	35
	III	17	6	23	8	4	12	25	10	35
	IV/V	45	24	69	16	5	21	61	29	90
	Sub-Total	84	45	129	39	14	53	123	59	182
Law/Arts:	I	28	37	65	—	2	2	28	39	67
	II	41	60	101	4	4	8	45	64	109
	III	71	73	144	5	3	8	76	76	152
	IV/V	69	78	147	11	12	23	80	90	170
	Sub-Total	209	248	457	20	21	41	229	269	498
Law/Economics and Politics:	I	58	17	75	3	1	4	61	18	79
	II	81	26	107	2	1	3	83	27	110
	III	99	29	128	7	3	10	106	32	138
	IV/V	129	22	151	23	3	26	152	25	177
	Sub-Total	367	94	461	35	8	43	402	102	504
Law/Science:	I	13	12	25	—	1	1	13	13	26
	II	12	8	20	—	2	2	12	10	22
	III	20	7	27	—	—	—	20	7	27
	IV/V	28	4	32	3	3	6	31	7	38
	Sub-Total	73	31	104	3	6	9	76	37	113
Law/B.Juris.	I	—	—	—	—	—	—	—	—	—
	II	—	—	—	—	—	—	—	—	—
	III	1	1	2	1	2	3	2	3	5
	Sub-Total	1	1	2	1	2	3	2	3	5

Net Enrolments by Degree/Faculty 1981 (as at 30 April) (continued)

Faculty and year	Full Time			Part Time			Total		
	M	F	T	M	F	T	M	F	T
Medicine:									
I	99	65	164	—	—	—	99	65	164
II	101	68	169	—	—	—	101	68	169
III	88	72	160	—	—	—	88	72	160
IV	101	61	162	—	—	—	101	61	162
V	99	46	145	—	—	—	99	46	145
VI	101	51	152	—	—	—	101	51	152
Sub-Total	589	363	952	—	—	—	589	363	952
B.Med.Sc.	4	4	8	—	—	—	4	4	8
Science:									
I	451	307	758	8	12	20	459	319	778
II	323	253	576	51	33	84	374	286	600
III	281	186	467	58	42	100	339	228	567
IV	131	74	205	1	—	1	132	74	206
Sub-Total	1186	820	2006	118	87	205	1304	907	2211
Total Bachelor enrolments	4834	3679	8513	963	1320	2283	5797	4999	10796

Total Net Enrolments at 30 April 1981: 14,161



Faculty of Arts

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

The Faculty of Arts, in common with other parts of the University, had to make further adjustments in 1981 in order to deal with the continued reduction in the funds available to the University. The sum allocated to the faculty this year was 1 per cent less in real terms (\$73,800 in 1980 cost levels) than that provided in 1980. In a faculty where 97 per cent of the budget is devoted to salaries there is very little room for manoeuvre and, in addition to other economies, the faculty was forced to reduce its academic staff. Over the last few years the number of equivalent academic staff in the faculty has been reduced by 9.5. Next year there will be a further drop, as well as a reduction in research assistance and non-academic staff. So far we believe that we have managed to make these economies, albeit at considerable cost in staff effort and stress, without seriously lowering the quality of our teaching and research. Nevertheless we face the future with anxiety. We have reached the point where even quite a small reduction in funding can have a disproportionate effect on the tutorial system which is central to the teaching methods of the faculty. Further staff losses will involve either an increase in tutorial size or a reduction in the frequency of tutorials, or both. Either change would destroy the character of the system which depends on continuity of discussion, week by week with intimate groups of students.

Student Enrolments

The faculty's student load target for 1981 was set at 3,060 equivalent full-time students (E.F.T.S.). In the event total enrolments exceeded that figure by 45 E.F.T.S. The cut-off point for normal Higher School Certificate entrance, having risen in the previous year from 229 to 235, dropped

again to 229. Over the next three years it is planned to reduce the faculty's load progressively to 3,000 E.F.T.S. by 1984, and this may be expected to increase the cut-off point for those applicants who have completed a normal full-time Higher School Certificate.

Staff

At the end of the year the faculty lost, through retirement, Professor A.G.L. Shaw and Mrs G. Milston (History), Dr D.C. Muecke (English), and Mr V.I. Stepanenkoff (Russian). In addition, Professor Patrick McCaughey, Foundation Professor of Visual Arts, resigned to take up the Directorship of the National Gallery of Victoria. Three new professorial appointments have been made. Professor Clive Probyn, Professor of English at the University of Lancaster, was appointed after a period as Visiting Professor to the Chair of English made vacant in 1980 by the death of Professor Arthur Brown. Dr Graeme Davison, Senior Lecturer in History at the University of Melbourne, has been appointed to a Chair in History and Ms Margaret Plant, Senior Lecturer in Fine Arts at the University of Melbourne to the Chair of Visual Arts.

Dr F.W. Kent, Reader in History, was elected Socio Straniero by the Committee of History for the region of Tuscany and was appointed Visiting Scholar for 1981-82 at the Harvard University Center of Italian Renaissance Studies (Villa I Tatti) in Florence. Dr T. Karmo, Senior Tutor in Philosophy, was appointed to a Monash Post-doctoral Fellowship and Dr Stephen Jeffries, a Ph.D. candidate, was awarded a Post-doctoral Fellowship in German. Professor J.P. Whyte, Professor of Librarianship, was appointed to the Council of the State Library of Victoria and the Council of

the National Library of Australia. Dr David Roberts of the Department of German held an Alexander-von-Humboldt research scholarship at Siegen University.

The following lecturers in the faculty were promoted to senior lectureships: Dr G. Bouma (Anthropology and Sociology), Dr J. Burston (French), Dr K.B. O'Connor (Geography), Dr A.E. Backhouse and Dr J.P. Hu (Japanese) and Mr I.L. Humberstone (Philosophy).

Undergraduate Studies

During the year the University, on the recommendation of the faculty, submitted to the Commonwealth Tertiary Education Commission (C.T.E.C.) a proposal for the introduction of Modern Greek at Monash on the basis of funds provided by the Federal Government for the extension of the teaching of community languages in Australian universities and colleges. As similar submissions were made by the University of Melbourne and La Trobe University, the three universities were asked by the C.T.E.C. to prepare a joint proposal for the teaching of Modern Greek to honours level in the City of Melbourne. Discussions between representatives of the three universities resulted, at the end of the year, in a joint plan by which the funds made available by the Federal Government were to be administered by the University of Melbourne and some on-campus teaching was to be provided at Monash and La Trobe. The viability of the plan will depend on further discussions between the three universities after the scale of funds to be provided has been made known. The faculty welcomes the opportunity provided by the plan for the introduction of Modern Greek teaching at Monash but some concern has been expressed that joint arrangements of this kind might be seen as a model for the further rationalisation of language teaching, especially where enrolments in a particular

language are low. It is the view of the faculty that the viability of a language should be judged not only in terms of student numbers but in terms also of the contribution of a particular language to other aspects of the work of the faculty.

During the course of the year the faculty decided to conduct a review of the structure of the bachelor's degree. The initial steps have been taken but the conduct of the review will extend into 1982.

Monash has joined an established scheme organised by the *Ecole Normale Supérieure* (other participating universities include Oxford and Harvard) by which *Ecole* graduates are seconded for a one-year teaching period immediately after graduation. Salary and fares are paid by the French Government. This year under the scheme we enjoyed the services of Mr Gerard Celli.

In 1981 three 4th year students in German were awarded semester scholarships by the German Academic Exchange Service (D.A.A.D.) to enable them to take part of their honours work in a German university.

Research and Graduate Studies

During the year 29 students completed the requirements for the degree of M.A. and 15 students, enrolled in arts departments, completed the requirements for the degree of Ph.D. Sixteen qualified for the award of a Diploma in Arts.

Existing Centres continued to promote inter-disciplinary discussion and research. The Centre for Migrant Studies launched the *Journal of Inter-cultural Studies* as a successor to the earlier *Ethnic Studies*, and attracted international support for it. During the year a research team from the Centre, in conjunction with the Commonwealth Department of Immigration and Ethnic Affairs, completed an inquiry into the learning needs of ethnic communities living in

A Javanese gamelan orchestra, constructed from materials available during the 1920s in a West Irian jungle detention camp, is now in the care of the Department of Music. Mr Poedijono, senior tutor in the department, is shown here with one of the prison camp instruments, whilst Dr Margaret Kartomi, reader in the department, is pictured with its 'professional' equivalent.

— Photo *Tony Miller*



Melbourne's Western suburbs. A regular seminar program provided a forum for visiting scholars, members of Government departments, representatives of community organisations as well as for staff members and graduate students. During the year the Centre mounted two conferences of major interest. In February a group of authors, academics, historians and politicians met for a lively one-day seminar on the Australian ethos. In November a three-day conference on 'Prejudice in Print: the Treatment of Ethnic Minorities in Published Works' aroused considerable interest outside the University.

The Centre for Southeast Asian Studies also continued its regular seminar program, holding 36 seminars during the year, evenly divided between those given by students and staff on the one hand and visitors to the Centre on the other. The Centre added four new papers to its 'Working Papers' series and joined, as usual, with the Australia-Indonesia Association in the presentation of the annual lecture series. A one-day seminar was held in October dealing with 'The Iban and Social Change', organised by a Ph.D. candidate in Economics. In December the Centre acted as host for a seminar sponsored by the Social Science Research

Council in New York, which attracted 20 experts from Australia and overseas for a three-day discussion on Southern Sulawesi. For the first time in its history graduate students attached to the Centre were engaged in studies dealing with every country of the region with the single exception of Brunei.

The Centre for General and Comparative Literature also maintained an active seminar program. For part of the year this was conducted in conjunction with the Melbourne University's Department of English where theoretical and comparative interests similar to our own have developed.

In addition to the established Centres, two new centres began to make their presence felt. The Centre for Human Bioethics, established in 1980 and involving members of the Department of Philosophy, became more visible, partly as a result of the wide publicity given to the test-tube baby program. Professor Singer, Mr Alan Rassaby and Ms Helga Kuhse secured an NH&MRC grant for the study of ethical problems involved in that program. Members of the Centre participated in a conference held at Mannix on 'Ethical Issues in the Termination of Life'.

Finally, in June 1981 a Japanese Studies Centre was established. Although the Centre is composed of members drawn from all tertiary institutions in Victoria teaching courses or conducting research on Japan, Monash, with its Department of Japanese, the strong interest in Japan in the Law School and in the Departments of History and of Music, has been the basic moving force in the Centre.

Public Lectures, Exhibitions, the Creative and Performing Arts

During first term the Departments of Classical Studies and Philosophy combined to offer a series of public lectures on Classical Greek Thought and Culture. As an experi-

ment, a course of lectures on post-modern architecture, given by Dr Conrad Hamann to undergraduate students of Visual Arts, was made available to the general public. It attracted large crowds.

The English Department engaged in an active program of play readings and poetry readings. Eight readings of Shakespeare each drew audiences of over 100. Readings supported by the Vera Moore Fund were also given by professional actors from the Playbox Theatre. Poetry readings were presented in the Exhibition Gallery in conjunction with the Department of Visual Arts and included readings by Jennifer Strauss and Philip Martin of their own poems.

An avant-garde performance of baffling ingenuity by Tsk, Tsk, Tsk was presented by the Department of Visual Arts in conjunction with the Departments of Music, English, Linguistics and the Vera Moore Fund. The Department of Visual Arts mounted seven exhibitions: Major Works of Australian Art from the Geelong Art Gallery and the Monash Collection; works by Ludwig Hirschfeld Mack from the collections of the University of Melbourne and Monash University; a retrospective exhibition of John Brack's drawings, 1945-79; an exhibition of recent acquisitions by the Monash University art collection; an exhibition of recent acquisitions by the Monash University art collection; an exhibition of Celia Rosser's banksia paintings; and a photographic exhibition of contemporary Melbourne architecture.

This year's Writer-in-Residence, Bruce Grant, gave four lectures on 'Aspects of Australian Civilization' and contributed to the poetry readings program by reading from his own works. As in previous years, the Department of Music produced an annual concert-production of Japanese music, drama and dance directed by Mr Poedijono.

In April, the Department of German, in conjunction with the Monash Library,

organised an exhibition of German Australiana on the occasion of German Book Week in Melbourne. In September the Department celebrated the centenary of Robert Musil by an exhibition and a lecture/seminar series.

Visitors

Visitors to the faculty included: Professor Yokomichi of the Tokyo University of the Arts who came as Visiting Professor of Music under the auspices of the Australia-Japan Foundation; Mr Liu Wenjing, Director of the Central Traditional Orchestra of China; Professor Werner Besch of the University of Bonn; Professor Johannes Voigt of Stuttgart University; Professor Vivienne Mylne, specialist in 18th century French literature; Professor Caim-Caudle of the University of Durham; Professor Katherine Worth of Royal Holloway College, London; Professor Michel Fabre (Paris XII); Professor Keith Harrison, University of Minnesota; Dr Rupert Bruce-Mitford of the British Museum.

Faculty of Economics and Politics

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

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

Retirement of Professor Cochrane

At the end of 1981, ill health forced the premature retirement of Professor Cochrane, who had been Dean of the Faculty since Monash opened in 1961. His various contributions to the faculty and the University as a whole have been invaluable — the structure and quality of both bear his stamp and will continue to do so.

Student Enrolment

Total E.F.T.S. for the faculty for 1981 rose from 2,379 in 1980 to 2,472, with higher degree E.F.T.S. increasing from 362 to 406 and other-than-higher-degree from 2,017 to 2,067. The increase in other-than-higher-degree E.F.T.S. occurred despite a reduction of almost 100 in the number of first year Bachelor of Economics students and a small decrease in the total number of Bachelor of

Economics students enrolled over the three years of the course. The smaller first year intake in 1981 and a further reduction in 1982 should lead to a total reduction in E.F.T.S. for the faculty as a whole and a closer approximation to the reduced target for the faculty of 2,300 E.F.T.S.

Enrolments in the Master of Administration degree continued to increase in 1981, reaching a total of 253, while the Diploma in Operations Research, which was introduced by the faculty three years ago, had 24 enrolments compared with 16 in 1980.

Overseas Students

The proportion of overseas students enrolled in the faculty has been increasing in recent years. This proportion may decline in the future as Taylor's College in Kuala Lumpur will not be preparing students for

the Victorian Higher School Certificate after 1982, due to a decision by the Victorian Institute of Secondary Education. It is understood that Taylor's have reached an agreement with the South Australian Department of Education to prepare students for that State's Higher School Certificate. This, in due course, is likely to lead to more Malaysian students going to South Australia and fewer to Victoria although the long association of Malaysian students with Monash University might result in a delay of several years before this change has any effect.

Graduates

In the year ended 30 June 1981, 428 students completed the pass degree of Bachelor of Economics compared with 387 in 1980, although honours graduates decreased from 32 to 21. The decrease in the number of honours students may be a result of the increasing proportion of students taking a three-year sequence in Accounting. Many of these students prefer to complete professional requirements for accreditation with one of the Accounting bodies rather than complete a fourth-year honours course. There is also a tendency for many of the brighter students to complete the degree of Bachelor of Laws rather than fourth-year honours.

Prizes in Accounting

During the year the faculty was pleased to accept offers from Arthur Andersen and Co. and Schroder, Darling and Company for prizes in Accounting. Arthur Andersen donated two prizes, each to the value of \$150, for the best students in the subjects AF316 Electronic Data Processing and AF314 Business Finance. Schroder, Darling and Co. donated two prizes, each of \$200, to be awarded annually to the best students in AF214 Business Finance and MA519 Corporate Finance.

The prizes offered by the Australian Society of Accountants were amended during the year to the following:

First Year — best student in Accounting, a prize of \$50 and a medallion.

Second Year — best student in Accounting, a prize of \$50 and a medallion.

Third Year — best student in Accounting, two years free membership of the Society and a framed certificate.

Faculty Library and Technical Facilities

The aim of the library is to support the teaching and research of the staff of the faculty by having a wide collection of statistical material readily available, together with a range of journals covering the main areas of interest to staff. While it has not been possible to extend the journal holdings, those taken are reviewed on an annual basis by the Faculty Library Advisory Committee in an endeavour to ensure that the collection remains relevant to the overall interests of the faculty. A 'Current Contents' service is prepared weekly during the academic year, this is supplemented by the production of a *Library Newsletter*.

Seminars on the use of indexing and abstracting services were again held for the Honours students to assist them to retrieve information for research. During the year the Faculty Library's holdings of listed public company reports, both Australian and New Zealand, reached approximately 7,000. These are listed in the 3rd annual edition of *Public Company Reports* produced by the library.

With the retirement of Professor Cochrane, the Faculty Library is now named the Donald Cochrane Library.

In the Department of Econometrics and Operations Research, the VAX computer which is housed in the faculty, was augmented by ½ megabyte of memory, an additional disk-drive and 267 megabyte disk, and 16 further ports and terminals.

Mr Peter Bowden, senior lecturer, Department of Administrative Studies has a long-standing interest in development programs in the Third World. During the year he completed a two volume report which discusses the significant contribution now being made by centralised monitoring and evaluation systems in identifying and

resolving difficulties experienced in Third World development programs. A World Bank research grant enabled Mr Bowden to study 13 centralised monitoring and evaluation units in Bangladesh, Guatemala, Honduras, India, Indonesia, Jamaica, Jordan, Kenya, Korea, Malaysia, Peru, Sri Lanka and Tanzania.
— Photo Rick Crompton



Staff

Members of staff from all departments continued to serve on a wide variety of professional committees and take an active part in many professional associations. During the year Professor C.G. Peirson served as a member of the National Task Force of the Australian Society of Accountants on Education Requirements for Admission to the Society; Dr M.C. Knowles was appointed President of the Australian Psychological Association; Dr A.E. Dingle was appointed co-writer of the Sesqui-centenary History of Victoria; Professor R. Snape served on the steering committee of ASEAN — Australian Economic Research Project. Professor D.A. Kemp left the Department of Politics at the start of the year to head up the Prime Minister's private office. Dr D.M. White also joined the office and succeeded Professor Kemp when the

latter resigned for personal reasons and returned to Monash.

Conferences and Seminars

Many staff members took part in conferences and seminars held both in Australia and overseas. The Department of Econometrics and Operations Research conducted two short courses on Project Management and Computers and Production and Materials Planning for Seasonal Demand. Other departments organised wide ranging seminar programs. A large number of visiting academics contributed to the work of the faculty. Amongst the visitors who contributed to the seminars or gave lectures were: Professor G.R. Fisher (Queen's University), Professor V.K. Srivastava (Lucknow University), Professor J. Ronen (New York University), Professor K. Rothschild (University of Linz), Professor J.

Markusen (University of Western Ontario), and Professor C.E. Lindblom (Policy Studies Institute, Yale University).

Centre of Policy Studies

The Centre of Policy Studies, an independent research body within the University, was formed within the Faculty of Economics and Politics in October 1979, to generate research on social and economic policy. Central to the research program is analysis of the roles of government and markets in achieving social, economic and political objectives.

The research program of the Centre crosses the borders of economics, politics and other disciplines. The Centre attracts visiting research scholars from universities and also from the private and government sectors. The Centre attempts to establish close relationships with decision-makers in government and business to facilitate a beneficial exchange of information and ideas. These visitors supplement the nucleus of research fellows, assistants and secretarial staff maintained by the Centre.

The establishment of the Centre was underwritten by the Faculty of Economics and Politics at Monash University and the Centre has received no general (or recurrent) funding from the University or the Government. Funds are typically raised on a project basis, from various sources, to generate policy oriented research and to facilitate workshops, seminars and conferences in areas central to the policy debate in Australia. A condition for undertaking

research is that the Centre retains full editorial rights on work issued in the Centre's name, with the sole exception relating to aspects of research projects on which information was obtained on a confidential basis.

The broad research program includes: continued work in the area of resources, energy and trade, capital markets; new theoretical and applied work on 'the economics of information', with particular reference to the economics of communication and education; alternative models of Federal/State/Local Government; economics of labour markets, centralised versus decentralised decision making; economics of health.

During the year the Director of the Centre, Professor Michael Porter, was appointed to the Australian Science and Technology Council (ASTEC), and to the National Energy Advisory Committee (NEAC). Professor Porter presented the Giblin Lecture at the 51st ANZAAS Congress in Brisbane and attended many other Australian conferences.

Visiting research scholars contributed to the work of the Centre. Amongst them were Professor Milton Friedman (Hoover Institution, Stanford University) who led a seminar on issues related to exchange controls; Professor Peter Hartley (Princeton University) who studied the effectiveness of stabilisation policy and energy pricing issues in Victoria; Professor Anne Krueger (University of Minnesota) whose work focused on exchange rates and the mineral sector and tariff policies.

Faculty of Education

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

Students

During my five years as Dean, the numbers in this faculty have risen from 1,168 E.F.T.S. in 1977 to 1,237 E.F.T.S. in 1980 and declined to 1,140 in 1981. These overall figures hide a major change in the direction of the teaching done in the faculty. In 1977 65.6 per cent of students were in courses not for higher degrees whereas in 1981 this percentage had fallen to 37.0. Two specific changes stand out: over the same five years the percentage of students undertaking the Diploma in Education has fallen from 38.4 to 22.1, whilst that for students involved in Masters degrees by coursework has risen from 17.1 to 39.1.

The details given below indicate the main direction of the teaching undertaken in 1981:

	Number of Students	E.F.T.S.
Diploma in Education	291	252
Bachelor of Special Education	107	49
Diploma in Educational Psychology	70	36
Bachelor of Education	230	85
Master of Educational Studies	476	446
Master of Education	176	191
Doctor of Philosophy	58	72
Other (M.Ed.Prelim., M.Env.Sc., and Not for Degree)	11	8

Staff

Early in 1981 Professor Taft retired, and Associate Professor R.T. White of the faculty was appointed to the Chair of Education in

the field of Psychology. Except in one case, the other appointments made during the year were all for fixed terms. This works to our disadvantage because in a faculty which is as deeply involved in research as is this faculty, three year appointments cause difficulties for students undertaking research theses on a part-time basis over a period which is usually greater than three years. Such administrative problems as inducting staff to the faculty are small compared with this.

The system of visiting lecturers spending one term in the faculty ceased in 1981, it is to be hoped only temporarily, but the following distinguished visitors spent about five weeks in the faculty: Professor G. Clifford (University of California, Berkeley); Professor J. Eggleston (University of Nottingham); Professor T.B. Greenfield (Ontario Institute for Studies in Education); Professor E.A. Holdaway (University of Alberta); Professors R.E. and S.M. Shafer (University of Arizona). The network of connections built up around the world through such visitors over the last few years is of much benefit in keeping in touch with academic developments overseas, recruiting staff and planning Outside Studies Programs.

Research and Professional Service

Although a large number of research activities of varied nature and scope continue, decisions made this year by the Commonwealth Government have very grave implications for the future of research and development in Education. The main government source for funds for a decade has been the Education Research Development Committee (ERDC). This Committee has been abolished and, in addition, the future of the Curriculum Development

Professor Marie Neale, director of the University's Krongold Centre for Exceptional Children, was director of a workshop in special education sponsored by the Australian Development Assistance Bureau. A report on the workshop proceedings was published in the middle of the year.



Centre (CDC) is doubtful. The faculty has been fortunate to continue to receive funds from a number of private sources, including the Buckland Foundation and from Channel 7. In addition, a number of schools have continued to finance evaluation studies by members of the faculty.

Centres

The faculty has continued in co-operation with the Faculty of Arts to support the Centre for Migrant Studies and its students and staff have taken part in the regular series of seminars and also in a three-day conference on Prejudice in Print.

Within the Faculty of Education there are two centres. The Krongold Centre, which has an international reputation, has had a successful year under the Director, Professor M.D. Neale, operating eleven programs for various types of exceptional children, although, despite assistance in staffing from the Victorian Education Department, funding has been exceedingly difficult. The Elwyn Morey Child Study Centre continues to provide pre-school education for some 48 children. It is being used somewhat more than formerly for research and negotiations

have begun to mount a language program within it. There are two other comparable activities that must be mentioned. Firstly, there is a group of staff, constituting a potential Centre for Evaluative Studies, which has continued to assist a number of schools and other institutions with evaluations of their programs. Secondly, the Education Development Centre at Monash is a teachers' centre located in the faculty in which some faculty staff take a part; by November 2,666 teachers had been involved in its activities, an increase of 5 per cent on 1980.

Governance

In many ways, and despite a successful academic year, the most important event of 1981 has been the instruction by Council to bring the faculty's form of governance into line with the University Statutes relating to departments. This faculty is not departmentalised and is split into academic sectors, till now known as Areas. Since 1977 the heads of these Areas have been elected. Council decided that this experiment in university governance should not continue — to the great sorrow of myself and the majority of my colleagues.

Faculty of Engineering

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

Student Entrance and HSC

After virtually a decade of steady decline, there is now a gratifying recovery of interest in engineering training in Australia. The faculty takes the view that engineering education is of critical national importance; we see the technological competence of nations as a key factor in relative economic development. We also think of engineering as an international profession, and believe it is our task to train our students to play an effective professional role in a highly-competitive technological world.

The preferred entry subjects for the Faculty of Engineering are English, Physics, Chemistry, and Pure and Applied Mathematics. Over the past decade the moves to 'liberalise' high school curricula have tended to reduce opportunities for high school students to take such a combination of subjects. Fortunately there is now a move to strengthen mathematics and science teaching in the schools. However the proportion of Asian students in the faculty remains high. Most come to the faculty after completing Victorian H.S.C. examinations. The faculty may have to introduce a quota system for overseas students in order to maintain adequate opportunities for Australian students.

The faculty is also admitting more new students into second and third year. These include a number of science graduates.

Undergraduate Studies

The continued advance of engineering and scientific knowledge, and the increasing sophistication of modern engineering practice required the continual review of our undergraduate syllabi so that our courses are appropriate and effective whilst not

being overloaded. Nevertheless the faculty is often criticised for presenting courses that make far too great a demand on the students. During the year all departments reviewed the courses, giving special attention to the requirements in first year. The faculty agreed to changes in content in the first year subjects Engineering 161, Chemistry 171 and Physics 181, and these changes will be implemented in 1982. The new course in Electrical and Computer Systems reached third year level in 1981. This course has attracted wide attention, and the quota of ninety second-year places was filled in 1981.

In some areas of technological specialisation it is desirable for engineers to have greater depth in related sciences than can be provided by the normal four year engineering program; the faculty, in collaboration with the Faculty of Science, has accordingly developed five-year combined degrees B.E./B.Sc. programs for Chemical Engineering, Materials Engineering and Electrical and Computer Systems Engineering. In 1981, the first group of students was enrolled in first year for such combined degrees. These five-year courses have been approved for T.E.A.S. allowance.

Graduate Studies

The Master's coursework program is now well established, with many of the first group of candidates completing their degrees in the year. Several new units were offered in 1981; in Civil Engineering, the Structures, Water Resources and Transport groups are planning to offer full-time candidature from 1982.

Whereas the Master's coursework students are almost entirely Australian nationals, the faculty is seriously concerned

Mr John Macleod, senior technical officer with the Department of Electrical Engineering, has invented and patented a new type of valve which operates under light touch pressure. The invention resulted from difficulties with a two-port gas mixing valve for a computer-controlled anaesthetic machine used for research within the department.

— Photo Peter Herforth



about the declining numbers of Australian engineering graduates in our research school — virtually all new Ph.D. candidates enrolled in 1981 are students from overseas. The present scholarship stipends are much too low to attract able Australian engineering graduates; the Commonwealth Post-graduate Research Awards and Monash Graduate Scholarships stipends are only about 25-30 per cent of the starting salary for a graduate engineer.

Professional Societies and Advisory and Consulting Activities

The staff of the faculty are most active in

national and international learned and professional societies. As a measure of such interest, members of the faculty participate in well over 100 learned society committees and editorial boards of international journals.

There also continues to be a call on members of the faculty to advise and assist governments, industry and other universities.

Staff Movements, Honours and Awards

The faculty continues to lose staff and is having difficulty in finding replacements, a major difficulty being disparate salary levels

between industry and universities, especially at senior tutor-lecturer levels. Dr David Boger, in Chemical Engineering, has accepted the Chair of Chemical Engineering at the University of Melbourne. Dr Colin Fryer, Senior Lecturer also in Chemical Engineering, has taken up a senior position with Fluor Ltd. Dr S.J. Redman, Reader in Electrical Engineering, has accepted a Senior Research Fellowship at the John Curtin School of Medicine at the Australian National University. Their contributions to the faculty will be greatly missed.

The following honours and awards were received during the year: the Dean was made an Officer of the Order of Australia; Professor Crisp was elected a Fellow of the Australian Academy of Technological Sciences; Professor Melbourne was the Lawrence Hargrave Lecturer and Medallist of the Royal Aeronautical Society for 1981.

Publications and Research

Publications from the faculty continued at a

high level, about 180 papers and 2 books being published during the year. This is quite an achievement for 79 full-time academic staff all of whom have major teaching commitments for undergraduate and graduate courses.

Despite considerable teaching pressures on staff primarily arising from a cut in academic staff numbers of 17 per cent over the past five years, research activity continues at a high level. Many members of the faculty attracted research grants and research support from government and private industry, and to this is added a high demand for services of the faculty on a consulting basis. Research grants and consulting activity of the faculty, in dollar terms, have increased about five-fold in the past six years. Indeed the maintenance of almost all research activity is now dependent on outside funds. But the time and effort spent by staff in raising outside funds is considerable, and detracts from the time available for the proper tasks of teaching and research.

Faculty of Law

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

The Year as a Whole

Although 1981 promised to be a difficult year due to budgetary constraints and further financial cutbacks, the faculty managed to complete a satisfactory year in relation to most aspects of its activities. However, as a result of the reduced federal funding and the reduced allocation of funds to the faculty, the extensive tutorial program in optional LL.B. subjects will be discontinued. The continued operation of the clinical program (Professional Practice) was also threatened by the faculty's worsening budget position, although support from the Law Foundation ensured the program

was maintained during this year. The faculty library also benefited from the Law Foundation's support. Regrettably, the difficulties facing the curriculum, referred to in the 1980 Report, remain unresolved.

An outstanding feature of 1981 has been the faculty's success in obtaining grants and support from all sections of the community for its research activities. Four members of faculty have been awarded A.R.G.C. grants for 1982 — something of a record. We have also received grants from a number of other sources. The faculty has been awarded 6 Monash and Commonwealth scholarships for 1982 which is another record! The

research output of the faculty continues at a very satisfactory rate and content.

The faculty has been honoured by the appointment of a number of its members of staff to important positions. An outstanding appointment has been that of Professor P.L. Waller to Law Reform Commissioner for the State of Victoria for two years, commencing February 1982. Whilst his absence from the faculty will create problems at certain levels, the honour bestowed on the faculty and the University is one that outweighs those difficulties.

Professor R. Baxt was appointed Dean of the Faculty of Law for 5 years following his appointment as interim Dean which ended on 29 July 1981.

Students

As at 30 April 1981, there were 1,791 students enrolled in the faculty giving a faculty E.F.T.S. figure of 1,241. The breakdown of actual enrolments as at 30 April 1981 may be seen under the Student Enrolment section in this Report but a brief summary is as follows:

	Full Time	Staff	Part Time	TOTAL
Ph.D.	5	3	1	9
Master's				
Research	20	11	97	128
Total Higher Degree	25	14	98	137
Master's Preliminary	—	—	3	3
Diploma	7	—	77	84
Bachelor				
Honours	17	—	1	18
Bachelor Pass	1,229	2	258	1,489
Not for Degree	11	—	49	60
	<u>1,264</u>	<u>2</u>	<u>388</u>	<u>1,654</u>
Faculty Total	<u>1,289</u>	<u>16</u>	<u>486</u>	<u>1,791</u>

Staff

The notional equivalent academic staff (E.A.S.) of the Law School in 1981 was 77.61 (including casual staff). Actual appointments, other than casual staff, as at 31 December 1981, totalled 63.5.

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 who spent a period of at least three weeks in the faculty included: Professor David Ratner (Cornell University), Professor Joseph Little (University of Florida), Professor Robert Meagher (Fletcher School of Law and Diplomacy, Tufts University), Professor S.F.C. Milsom (Professor of Law, Cambridge University and Fellow of St John's College, Cambridge), Professor Dr Dieter Giesen (Free University of Berlin), Mr Ian Dunn (a partner in the Melbourne law firm of Wisewoulds, a visiting fellow in the faculty and a participant in the Professional Practice Program), Mr A. Goldberg Q.C. and Mr J.I. Fajgenbaum (members of the Victorian Bar), and Professor Don Peters (University of Florida).

Clinical Legal Education

Whilst the Legal Aid Commission was established with a mandate to provide funding to assist legal education (inter alia) no funds have apparently been made available to it for that particular purpose. A grant of \$200,000 to the Commission was earmarked for assistance to legal aid clinics. The Monash Legal Aid Service received a small grant from the Legal Aid Commission but this is in relation to its legal aid activities. This grant will indirectly assist the faculty. Assistance has been provided by the Victorian Law Foundation and by the Uni-

Four legal academics from Monash University visited Japan in 1981 to conduct seminars for businessmen, academics and lawyers on various aspects of Australian Law. Professor R. Baxt, Mr A. Freiberg, Mr R. McCallum and Dr M. Smith visited Osaka, Nagoya and Tokyo on the tour which was sponsored by a number of Japanese institutions and organisations. Professor Hisao Ishikawa helped organise the visit. The four academics were able to pursue their individual research interests in criminal law, industrial law, and securities, as well as attending a number of conferences and delivering papers at workshops.

— Photo *Rich Crompton*



versity. With this assistance the clinical program will be maintained at the same level in 1982 as for 1981. The faculty acknowledges in this regard the continued support it received from the Monash Legal Aid Service and also from the Springvale Legal Service Co-operative Limited.

Summer Teaching

Summer teaching was maintained at a reduced level for 1980-81. The total number of students enrolled in the summer program 1980-81 was a total of 637 undergraduate students with a further 52 LL.M. students.

Graduate Studies

Satisfactory progress was made in the Graduate Studies Program. All Diplomas were run as full time Diplomas for the year. Enrolments reached 171.10 E.F.T.S. as at 30 April 1981. During the year 33 candidates graduated from the program. Dr Hoong Phun Lee of the faculty obtained a Ph.D. degree. The faculty now has a higher number of Ph.D. students enrolled than most other Law Faculties in Australia.

Student Activities

The Godfather Scheme which has been described in previous years has continued. The Law Students' Society which had been in financial difficulties in the beginning of 1981 was revived and under the able leadership of Mr Mark Fisher, finished the year on a very successful note. The Society presented the faculty with \$600 worth of books as an appreciation of the faculty's support of the Society.

Monash University Law Alumni

On 18 November 1981, the Monash University Law Alumni was formally launched. At a meeting addressed by the Honourable Mr Justice Brennan of the High Court of Australia, over 200 persons (including 150 members of the Alumni) attended a reception at the Law Institute. It is hoped that the Alumni will make major contributions to the life of the faculty in the years ahead. The faculty would like to thank Marilyn Pittard, Jack Hammond and Tom May for their initiatives in this venture.

Law Library

The library's book budget from recurrent funds failed to keep pace with inflation and severe restrictions on the placing of subscriptions to new serial titles had to remain in force. The effect of these restrictions has been partly alleviated by the

decision of the Law Faculty to meet the cost of nominated titles for a period of five years. Further assistance was given by the faculty with a substantial contribution towards the cost of repairing and re-binding some 400 volumes of law reports and journals, and late in the year, the Victoria Law Foundation approved a grant to the library of \$18,000.

During the summer term, the library carried out its first stocktake using machine readable book badges. The actual stocktake was much faster than was possible using the former manual system, but because of the faculty's summer teaching program, it was not possible to release sufficient staff to complete the necessary follow-up work, and the final result of the exercise is still not known.

A survey of Australian collections of legal materials, co-sponsored by the Commonwealth Attorney-General's Department, and the Law Foundations of Victoria and New South Wales, is being supervised by the library staff. At the time of writing, a detailed questionnaire had been compiled and mailed to some 150 libraries.

Three members of the library staff participated in the very successful 8th Workshop of the International Association of Law Libraries, held in Sydney and Canberra.

Continuing Legal Education

Co-ordination of Continuing Legal Education activities with other bodies such as Leo Cussen Institute, Law Institute of Victoria, Institute of Chartered Accountants, Australian Society of Accountants and the Taxation Institute, in the areas of law, and particularly taxation, facilitated a particularly successful conference on the 'New Anti-Avoidance Tax Legislation'. As an individual venture Monash followed this with a program to discuss the practical impact of Part IV A which was also well received.

Attendance and demand for the published papers indicates a continued enthusiasm in the professions for the wide variety of programs provided by the Law Faculty. Topics such as 'New Sexual Offences', 'Project Financing in the Manufacturing Sector', 'New Consumer Credit Bills', 'Recent Developments in Family Law', 'Sales Tax after the 1981 Budget', 'Mortgage Banking', 'Plant Varietal Rights', 'Legal Regulation of Media Control' were examined and a number of lecture series on Taxation conducted. Speakers were drawn from members of staff, from the profession, and from government bodies. Overall eighteen seminars, lecture series and conferences were conducted. Papers from previous years and recent programs have been sold steadily throughout the year. Although this year most of our success has been enjoyed in the city efforts are being made, in conjunction with other institutions, to hold programs in some country centres during 1982.

Research and Professional Activities

Research in the faculty has been maintained at a very satisfactory level. A number of research grants have been received from within the University, from the A.R.G.C. and from other bodies. During the year, members of the faculty published, either alone, or in collaboration with others, a total of 13 books. In addition, members of the faculty are directly responsible for editing a number of journals and surveys.

The faculty continues to be strongly represented on professional bodies at both national and state level. The faculty has continued to play an important role in the work of the Leo Cussen Institute for Continuing Education.

Despite rising printing costs, the *Monash Law Review* has been maintained by the faculty as an important contribution to its life. It is now edited and managed by students with Dr Michael Pryles, Senior Lecturer in Law, as the faculty adviser. He replaced Mr Arie Freiberg who went on an Outside Studies leave in the first half of 1981.

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 and Staff

The total number of E.F.T.S. in the faculty in 1981 was 1,682. There were 961 medical undergraduates distributed as follows: year I: 164; year II: 169; year III: 160; year IV: 163; year V: 145; year VI: 152; B.Med.Sc.: 8. Female entrants comprised 40 per cent as against 41 per cent in 1980.

Academic staff comprised 125 full-time and 56 part-time members. Clinical teachers included some 250 visiting medical staff and

60 full-time hospital medical staff in affiliated hospitals and approximately 250 general practitioners.

Honours and Distinctions

Associate Professor G.A. Bentley was awarded the degree of Doctor of Science by the University of Melbourne. Professor A.L.A. Boura was appointed corresponding editor to the *British Journal of Pharmacology* for a period of seven years. Dr S.R. Graves was

selected as one of three Menzies Scholars for 1981-82 by the Australia-British Society. Dr J. Hansky was elected President of the Gastroenterological Society of Australia for two years from May 1981. Dr. B. Hudson was elected President of the Royal Australasian College of Physicians. Associate Professor H.K. Muller was elected President of the Australian Society of Experimental Pathology for the period 1981-83. Professor R.C. Nairn was re-appointed Consultant to the Office of the President (Cancer Research) at the University of Texas System Cancer Centre, M.D. Anderson Hospital and Tumor Institute, Houston, Texas, U.S.A. Professor G.C. Schofield was appointed an Officer of the Order of the British Empire (O.B.E.) for service to medicine. 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.

Appointments and Resignations

During 1981 the faculty was strengthened by the appointment of two distinguished professors: Professor Geoffrey D. Thorburn, B.Sc.(Melb.), M.D., B.S.(Syd.), F.R.A.C.P., formerly Professor of Physiology at the University of Queensland, took up his appointment as Chairman of the Department of Physiology in January 1981. Professor Roger V. Short, B.V.Sc.(Brist.), M.Sc.(Wis.), Ph.D., D.Sc.(Cantab.), M.R.C.V.S., F.R.S., F.R.S.E., was appointed to the newly established personal Chair in Reproductive Biology in the Departments of Anatomy and Physiology. Professor Short is at present Director of the British Medical Research Council's Unit of Reproductive Biology. He is expected to take up his appointment in May 1982.

Visitors

The 25th Victorian Conference on Gerontology and Extended Care which was

arranged by the Health Commission of Victoria with the Monash Faculty of Medicine and Caulfield Hospital, was held at the Wentworth Hotel from 30 November to 2 December 1981. Funds provided to Monash University by the trustees of the George Adams Estate enabled the 'Tattersalls Visiting Lecturers' to attend and participate in the conference, to visit departments and teaching hospitals and also to visit other Australian centres. The visiting lecturers were: Dr J. Ronald D. Bayne, (Professor of Geriatric Medicine, McMaster University, Hamilton, Ontario, and Medical Director, St Peter's Centre, Hamilton, Ontario, Canada); Professor H. Malcolm Hodgkinson, (Professor of Medicine, Royal Post Graduate School of Medicine, Hammersmith, London, England); Professor James J. Strain, (Associate Professor of Psychiatry, Albert Einstein College of Medicine, New York and Director of Liaison Services, Montefiore Hospital and Medicine Centre, New York, U.S.A.).

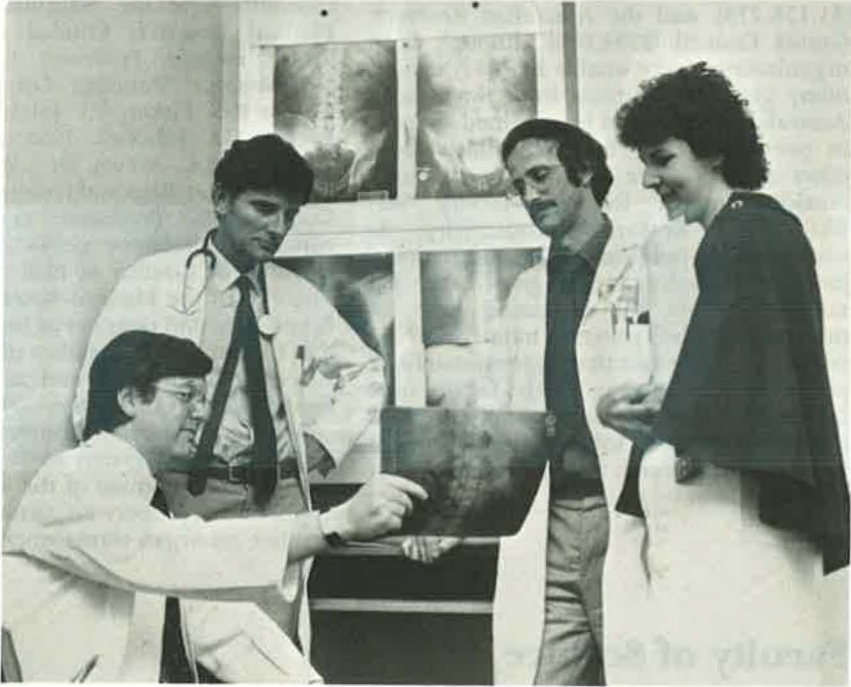
Other visitors who spent longer periods at the University during the year included Professor M. Brennan (Section of Community Practice, Victoria Family Medical Centre, London, Ontario); Emeritus Professor F.N. Fastier (Pharmacology, University of Otago, Dunedin); Professor F.E. Hytten (Obstetrics and Gynaecology, Northwick Park Hospital, Harrow, Middlesex); Professor S. Ito (Anatomy, Harvard Medical School, Boston); Mr P.F. Jones (Surgery, Surgeon to Her Majesty The Queen in Scotland); and Professor N. Wright (Anatomy, University of London).

Professor G.T. Stevenson of the Tenovus Research Laboratory, Southampton, England, delivered the 1981 Faculty Lecture entitled 'Immunological Approaches to Lymphoma' at the Monash Medical School, Alfred Hospital.

Curriculum

For the past several years, the faculty has

Researchers in the Monash Department of Medicine (Prince Henry's Hospital) are testing a promising new drug for the treatment of high blood pressure. Four members of the Monash anti-hypertensive team (*left to right*) Dr Bruce Jackson, Dr Geoff Matthews, Dr Barry McGrath, and Sister Sandra Bridge, discuss the clinical tests.
— Photo *Rich Crompton*



carried out a detailed and continuing assessment of the present medical undergraduate curriculum. At its meeting on 18 March 1981 the Board of the Faculty of Medicine formally recognised the need for changes in the medical course and agreed that implementation of a revised curriculum should commence in 1983. Two ad hoc committees, one for the preclinical years and one for the clinical years, were appointed to plan revision of the course.

The work of the Preclinical Curriculum Committee is progressing well, with the content of first and third years being currently under review; fourteen working groups have been appointed for this purpose. The committee has agreed to defer consideration of teaching in second year

until agreement has been reached on the integrated topics to be covered in the third year. The work of the Clinical and Paraclinical Curriculum Committee will inevitably be influenced by the design and content of the preclinical curriculum and the activities of this committee are likely to be spread over a longer period of time. Following preliminary discussions of alternative proposals for the restructuring of the clinical and paraclinical curriculum, three working groups have been appointed to review teaching in each of the three clinical years of the course.

Outside Research Funding

The faculty continues to attract a significant

proportion of funds allocated in 1981 for new and continuing projects by the National Health and Medical Research Council (\$1,178,773), and the Australian Research Grants Council (\$394,639) although both organisations were unable in 1981 to fund many grant applications from throughout Australia which would have gained support in previous years. Research funds from other sources were \$1,461,636 and total outside support for the faculty was \$3,035,048. Research productivity as evidenced by publications in international journals of high standing gives cause for satisfaction, but the increasing costs of maintaining the present momentum in research and the fact that approximately 22 per cent of the income for the faculty now comes from outside sources emphasises the need for the faculty to maintain the highest standards of research activity if this support is to continue.

N.H. & M.R.C. Activities

Members of the faculty served on various committees of the National Health and Medical Research Council during 1981. These include Professor C.I. Johnston (Scholarships Standing Committee), Professors B.G. Firkin, C.I. Johnston, D.M. de Kretser, G.C. Schofield, Honorary Associate Professor R.C. Atkins, Dr J.W. Friedin, Dr P.J.M. Tutton (Regional Grants Interviewing Committees). Professor G.C. Schofield completed statutory periods of office as member of Council of N.H. & M.R.C., as member of the Medical Research Advisory Committee and member of the Executive of that Committee, as member of the Medicine Advisory Committee, and as chairman of the Grants Committee. He also was convener of the working party established to review matters related to N.H. & M.R.C. awards and chairman of the working party appointed to prepare an Australian Code of Practice on organ transplantation.

Faculty of Science

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

Student Numbers and Trends

At the undergraduate level the faculty has seen a steady increase in B.Sc. enrolments since 1978 and the 1981 enrolment just exceeded 2,000 for the first time. Enrolments for B.Sc.(Hons.) also increased in 1981, at least partly in response to the trend of some professional bodies and employers to require four years undergraduate training for full professional standing (see below). Overall, in student load terms, the faculty almost exactly reached its enrolment target (+0.1), despite some problems in managing enrolment numbers in the faculty. The faculty's policy regarding supplementary examinations means that each year's new

students have to be selected and enrolled before the final numbers of continuing students are known.

It was pleasing to note continuation of the trend which has emerged recently towards greater student interest in science and engineering courses. This trend was accompanied by an increase in student quality as measured by the minimum H.S.C. results required for entry to the faculty, despite the fact that a larger number of first-year students was selected than in previous years. The swing back to science, especially the physical, chemical, geological and mathematical sciences, and to engineering, is likely to increase in momentum. The development of Australia's natural re-

A joint research project of the Departments of Chemistry and Chemical Engineering is concerned with the first stage of the hydrogenation process in producing synthetic crude from brown coal. The syncrude can later be upgraded into petrol or diesel oil. The research is being funded by a National Energy Research Grant, the Victorian Brown Coal Council, and the University. Professor Roy Jackson (*left*) and Dr Frank Larkins are leading the chemistry side of the research.

— Photo *Rich Crompton*



sources will certainly require an expansion in the supply of professional scientists and engineers. The Commonwealth Tertiary Education Commission in its report for the 1982-84 triennium, released during 1981, commented on the national need for scientists and engineers and called for

tertiary institutions to make appropriate adjustments in their student mix to meet this demand.

Enrolments in the Master of Science program (by research) and in Ph.D. programs have declined only slightly in the last four years. The faculty had a total of 193 full-

time and 69 part-time students enrolled in higher degree programs in 1978 compared with 190 full-time and 51 part-time students in 1981. At 30 April 1981 there were 158 students enrolled for Ph.D. and 83 for M.Sc. degrees within nine departments of the faculty. In the Department of Chemistry the total enrolment increased from 48 students (full-time and part-time) in 1978 to 54 in 1981, while there has been a substantial decrease in numbers in the Department of Earth Sciences, due to the current very strong demand for field geologists in the mining and oil and gas industries. Against this background there has been a substantial decline in the number of research students on scholarships (Commonwealth Post-graduate Research Awards and Monash Graduate Scholarships), the total numbers of such students declining from 140 in 1978 to 117 in 1981. The faculty is concerned that the level of scholarship support is far below the salary levels available in industry and government.

There has been a continued interest in part-time higher degree study but the number of students completing courses (both full- and part-time) has been fairly constant over the last four years. Overseas students account for approximately 11 per cent of the total higher degree enrolment in the faculty, and 13 per cent of the undergraduate enrolment.

The B.Sc.(Honours) Program

The growing demand from professional bodies to require four years undergraduate training for full professional standing may well lead eventually to the establishment of four-year degree programs in some science-oriented disciplines. There was also evidence of some pressure for students to be admitted to the Honours program who had not achieved the standard traditionally expected over the three-year pass degree course. The Honours regulations require that a student should normally have

obtained a third-year credit result in the subject area in which he or she wishes to pursue Honours studies. The faculty is anxious to retain its current high standards of admission to Honours, with emphasis on research training during the Honours year, and would argue that a vocationally-motivated training need might best be met by the provision of an appropriate four-year pass degree course, or a specialist diploma course following the three-year pass degree.

B.Sc./B.E. Combined Course

1981 saw the establishment on a formal basis of a five-year combined Bachelor of Science/Bachelor of Engineering course, continuing and expanding the opportunity for intending chemical, electrical, and materials engineers to receive a thorough grounding in a number of relevant science disciplines, underpinning their engineering studies. Students entering the new course will complete their B.Sc. after three years of study, or the B.Sc.(Hons.) qualification after four years, before proceeding into the Faculty of Engineering for a further two years to qualify as chemical, electrical, or materials engineers. Considerable progress was made in 1981 in approving designated study programs suitable for both faculties. It would appear advantageous to further expand the offerings to include programs suitable to intending civil and mechanical engineers.

The Faculty Scholar Scheme

Since its inception four years ago the faculty scholar scheme has undergone continual refinement. Each year a small number of students in the intake (1.5 per cent — 2 per cent) with outstanding H.S.C. results have been invited to join the faculty scholar scheme. They have been given the opportunity of pursuing individually tailored programs commensurate with their

interests and proven ability, in compliance with special, flexible, degree regulations. To date the pattern adopted by most scholars has been to take a considerably overweight program in each year of study, in one or two cases leading to the B.Sc.(Hons.) qualification in three years rather than four. It has been agreed that faculty scholars need not necessarily take additional courses, but may study at greater depth in one or more of their normal subjects. The administrative procedures for operation of the scheme have been further improved, but experience has pointed to the need for the individual programs to be documented and recorded in greater detail in future to avoid any possible confusion on the part of the scholars themselves or the staff involved in the teaching with regard to the particular course elements to be completed by the individual scholars.

Cell Biology

This year saw the introduction of a new third-year subject, Cell Biology, taught mainly by staff of the Department of Anatomy within the Faculty of Medicine but with support from the Departments of Zoology, Botany, and Genetics within the Faculty of Science. Approval was also given for the introduction of an Honours program (Anatomy 400) in 1982 for students wishing to do a fourth-year extension of the Cell Biology course.

Centre for Laser Studies

A research Centre for Laser Studies was approved, being an informal grouping of research staff from the Departments of Chemistry and Physics, and the Faculty of Engineering, with common interests in various applications of lasers.

Staff

Professor B.O. West continued his joint

appointment as Professor of Inorganic Chemistry and Pro-Vice-Chancellor. Professor Swan was invited by the Prime Minister to be chairman of the Australian Marine Science and Technology Advisory Committee; in accepting this position he resigned from the V.I.M.S. Council and from the Australian Research Grants Committee. The details of many other staff involvements in both university and professional activities are given in the departmental reports. Special mention might be made of the appointment of Professor B.W. Holloway to the Council of the Australian Academy of Science, the award of the Edgeworth David Medal of the Royal Society of New South Wales to Dr M.A. Etheridge of the Department of Earth Sciences, and the election of Professor W.J. Ewens to the Australian Academy of Science.

We note with particular regret the sudden and untimely death of Associate Professor Douglas F. Dorward of the Department of Zoology.

Research Grants

Research grants for 1981 were received from the Australian Research Grants Committee, National Health and Medical Research Council, and the Monash Special Research Fund, plus additional income for research came from C.S.I.R.O., A.M.S.T.A.C., N.E.R.D.D.C., C.R.A., Rural Credits Development Fund, Wheat Industry Research Committee, Victorian Brown Coal Research & Development Committee, Australian Wool Corporation, Comalco, and various other granting bodies. The faculty was very successful in obtaining research support from a wide range of funding bodies, and research work and research publications continued at a high level.

Degrees Conferred

The number of degrees conferred by the University on students from the faculty

increased in 1981 as compared to previous years.

Two candidates were awarded the D.Sc. degree and an M.Sc. degree *honoris causa* was awarded to Mrs Celia Rosser, in recognition of her monumental work of paintings of species of Banksia contained in a first volume published by Academic Press in London. Mrs Rosser is now engaged as University Artist on a further series of Banksia paintings for a second volume.

Financial Situation

The continued squeeze on funding of tertiary education has had a detrimental effect on the faculty, not only in curtailing useful activities but also increasingly in terms of lowered staff morale. By virtue of their traditional academic staff employment conditions and, to some extent, their management structures, universities are

unable to adjust quickly to reductions in funding. Whilst it may be argued that universities can only blame themselves for this lack of flexibility, governments would be well advised to contemplate the long-term effects of severe budget reductions on the nation's investment in highly trained specialists. University graduates are a major resource, and the best are always in short supply. They cannot be obtained 'on the cheap'.

The faculty has become very cost-conscious; the deteriorating financial situation means that we are all working under greater pressure with fewer support staff and shrinking resources of all kinds. Our output in terms of numbers of graduates has not yet fallen, and we hope that their quality is being maintained, but further cuts in staff and maintenance budgets can only be deleterious in the longer term.

Library

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

The year began with promises of almost unrelieved gloom, but as the months passed, the skies seemed to lighten. The cheering factor was the rate of overseas exchange which, on the Library's own basket of currencies, improved its buying power by just on 11 per cent as measured against 1980. This almost exactly matched the rate of inflation of American publications and reduced the impact of the British rate to something manageable. Partly as a result, the book intake unexpectedly increased by 6.7 per cent over the previous year.

The Library also received an unusually high number of gifts, including the library of the late Professor Arthur Brown, ex-Chairman of the General Library Committee. The library reflected his extremely wide interests and filled many curious corners for the University. Books not required by the Library are being sold on the instructions of his executor, Dr Diane Speed, with the proceeds to be a further donation to the Library. The gesture is warmly appreciated, as are the gifts of individual donors and the continuing support of the Friends of the Library, and of the Parents' Group, whose major gifts are directed each year to the Library.

Cataloguing

Additions to the catalogued stock were 37,377, a figure comparable to that of 1980. In that year cataloguing failed to keep up with the intake, and it was hoped that there would be an improvement in 1981. Several factors prevented this: accepted network standards were found to be unrealistically high and time-consuming to maintain; the slow turn-around of batch processing created its own delays and inefficiencies; great numbers of changes in practice

resulted from the adoption of much changed Anglo-American Cataloguing Rules (AACR2) and these lowered production, as did the differences in application emerging from the different agencies who supply our cataloguing data.

Applying the new Rules to our existing card catalogues was a job too enormous to contemplate, but the machine files on which the Library's developing catalogue and that of the other members of CAVAL (Co-operative Action by Victorian Academic Libraries) is maintained, could be updated and would have to be, to accept records bought from national agencies in the future. This was done as a co-operative project organised by CAVAL. It has taken some 2½ man-years; the Monash share was six man-months, and the project was virtually completed by the year's end.

Another special project, but one limited to Monash, was started during the year. The new edition of Dewey Decimal Classification turned out to be no more satisfactory than its predecessors in the area of Mathematics, and after long agonising it was decided to reclassify the section to a new classification based on that used by the American Mathematical Association. At the same time it was sensible to convert the cataloguing to machine-readable form, which would unify the catalogues, make the collection more accessible to other researchers and allow, in time, special listings in the area. The project is largely funded by the Department of Mathematics, which is also assisting in the re-classification.

Apart from the conversion of AACR2, the CAVAL agency is working towards an on-line cataloguing system, investigating joint storage facilities, and negotiating with the National Library of Australia on the use of the Australian Bibliographical Network, in addition to providing routine support for

the cataloguing of its member institutions. This includes provision of a union catalogue on microfiche, of books added to the libraries of most of its members, and fiche catalogues of the individual libraries. User acceptance of the new form of catalogue has been high, with gratifyingly few problems; the easy availability of the union catalogue is seen as a most useful bonus.

Growth in Loans

A fact that politicians seem loth to accept is that although universities may cease to grow, their libraries inexorably continue to do so. Oddly this can happen to usage as well as to book stock. With student numbers of 14,161 Monash had virtually grown not at all over the previous year, but loans to students rose from 459,341 in 1980 to 483,778, an increase of 5.3 per cent. Staff loans rose 9.7 per cent to 165,980. These increases were noted at all points in the system. Inter-library loans, on the other hand, fell from 29,723 to 27,794, the first effective fall since 1965. This leaves Monash second only to the University of Adelaide in its support of other libraries. Borrowings by Monash libraries also fell slightly from 6,672 to 6,585. Pressure from some other large university libraries continued to grow, for acceptance of the charge-out principle on loans to other libraries. The Commonwealth Tertiary Education Commission has commissioned a study of inter-library lending in Australia, and until its findings are known, Monash has opposed the charge-out principle. It must be admitted that, as one of the largest nett lenders, Monash would have much to gain.

Almost exactly half of these loans were from the Biomedical Library and its sub-branches. Of these, a large number drew on the excellent collection in the field of hospital administration built up with funds donated by the Kellogg Foundation. These funds have also provided staff, to enable the

Biomedical Library to give reference service to hospital administrators, members of the Australian Hospital Association. One interesting aspect of this service was the growth in use of the MEDLINE computer-mounted data base, followed by declining demand as more and more hospitals acquired terminals and the expertise in their use. The need for references was replaced by a need for the documents themselves, hence the high inter-lending rate.

Use of MEDLINE for other readers has continued to expand, as has the direct contact with other data bases in America. As expertise and economy in use grows, it is becoming clear that many complex reference questions can best be answered by this technique. Meanwhile, the range of possibilities is expanding daily. Sadly, this is not the case within Australia. Before the American bases could be economically accessed the AUSINET set of bases provided experience in a real searching environment. The AUSINET concept proved viable, but for customers other than libraries, and most of the bibliographic bases were withdrawn towards the end of the year.

Copyright Legislation

The long-awaited amendments to the Copyright Act, following the Franki Committee report on the copyright implications of reprographic reproduction, came into force during the year. Since we were already conforming substantially with the Franki Committee recommendations, the effect on library services has been minimal, although the record keeping now required by the Act has added considerably to the work involved. Some problems remain. No decision has been made regarding the level of multiple copying royalty, so that we are in the position of incurring an expense with little idea of its actual amount. Also, the provisions are complex and obscure enough in some places to produce doubts as to the correctness of our procedures.

The Library has continued to present exhibitions related to library holdings and the work of the University. Miss Brenda Niall (*right*), senior lecturer in English, is author of the book *Seven Little Billabongs*. The book prompted a library exhibition of books by the two early Australian children's authors, Ethel Turner and Mary Grant Bruce. Mr Lindsay Shaw, a Friend of the Library, and Mrs Susan Radvansky, rare books librarian, joined Miss Niall in previewing the books in the exhibition.



Library Activities

Reader education programs continued in much the same format as in previous years. After a well-publicised opening, the year settled down to a very heavy commitment to tutorials for beginning students (given by both library and academic staff, but using education packages prepared by the Library), tape-slide programs on aspects of information-finding, and on new procedures, e.g. the microfiche catalogues, and demonstrations of computer searching to those beginning their research life.

For the first time, a joint conference was held between the Library Association of Australia and the New Zealand Library Association, though visits have been exchanged for many years. Several members of the staff attended the conference in Christchurch, New Zealand and met librarians from U.S.A. and the Pacific Islands, as well as New Zealand. Miss Woranuch Tiatrukul, Medical Librarian of the Prince of Songkla University in Thailand, worked for six months in the Biomedical Library. The Law Librarian, Mr Ted Glasson, is supervising a survey of law

collections in Australia under the auspices of the Law Foundation of N.S.W., the Victoria Law Foundation and the Commonwealth Attorney-General. The Victorian Institute of Marine Sciences' Bass Strait Bibliography was readied for publication, both as a book and a machine-readable data base (on CSIRONET), with heavy involvement of Marta Chiba and the Hargrave Library staff. The Monash Supplement to Ferguson's *Bibliography of Australia* (the original Bibliography published before Monash existed) was released early in the year, and contained 664 entries — 94 of these had not been quoted in Ferguson.

All in all a heavy year, with drastic change at the centre of all technical processes. There were signs that order was emerging from the frustration and confusion by the end of the year. A tribute must be paid to the staff who lived through it, and while living grimly through the present, could see and reach for the future. For the more public side of the Library, increased work-loads and a noticeably tenser clientele could have easily resulted in lowered morale. This was not the case. Service was cheerfully given, and there was still excitement at new developments.

UNIVERSITY FACILITIES

Alexander Theatre

1981 was a year in which the University could be well satisfied with the performance of the Alexander Theatre. Theatrical enterprises in the community generally were continuing to suffer from the unfavourable economic conditions, and in these circumstances the Alexander did well to finish the year in a sound financial position. Careful management helped the theatre to mount some excellent productions on its own initiative while continuing to serve the needs of its traditional users, university-based dramatic societies and off-campus amateur musical theatre companies.

Activities directly promoted by the theatre included one outstanding commercial success, *Same Time Next Year*, and two memorable artistic successes, Harold Pinter's *The Birthday Party* and Athol Fugard's *A Lesson From Aloes. The Birthday Party*, sensitively produced by Murray Copland, was staged partly because of the Alexander Theatre's traditional policy of mounting H.S.C. syllabus plays. The production received a grant from the Ministry of Arts, but even so suffered a considerable loss. Neither the general public nor the schools supported what was really excellent theatre, and this failure made it seem extremely doubtful that the H.S.C. audience would be worth cultivating in future, except on purely educational grounds.

It is worth noting at this point that the ministry grant for this production might well have been the last that we shall receive. The theatre recognises with gratitude the part the ministry has played in promoting drama at Monash, and now feels itself in a position to regard the future confidently.

The new Fugard piece played to steadily improving houses. Nicely constructed and convincingly performed, the play suffered only from being limited to a two-week run. A third week would have brought it into profit.

At all events, the Alexander Theatre's reputation was certainly enhanced by these professional productions. In every other of its own productions the Alexander showed surpluses. Children's shows, as ever, were particularly rewarding, while conceivably building up audiences for the future.

The Alexander consolidated its position as the major host of light opera and musicals in Melbourne's eastern suburbs, no less than seven productions taking place here in 1981. Two groups specialised in Gilbert and Sullivan, the M.M.T.C. offering *The Pirates of Penzance* and *H.M.S. Pinafore* and Babirra Players producing *The Mikado* and *Ruddygore* (sic), Cheltenham Light Opera also offered two shows *How to Succeed in Business Without Really Trying* and *Hello Dolly*, and Heritage put on *Balalaika*.

Whilst the Alexander Theatre is in no way responsible for the artistic achievements of such shows, it necessarily benefits from high quality performances in terms of reputation. In this respect it was gratifying that these groups generally reached very high standards, and managed also to bring large numbers of non-university people into the theatre. The appearance of Dennis Olsen with the M.M.T.C. was an especial draw-card, and the theatre is pleased to hear that he will be appearing at Monash again in 1982.

Student users included M.U.M.C.O. with a successful *Can-Can* and Monash Players with a lively *Tavern*.

At the end of the year plans were afoot for a Monash festival of drama in 1982, a scheme which may go some way towards supplying a new 'core' to the year, following the cessation of ministry grants and the influence that those had on artistic plans. The new emphasis on University-based drama is to be welcomed, and certainly looks promising. Mr A'vard and his staff are to be congratulated on maintaining the Alexander's standards at the same high level during 1981.

Robert Blackwood Hall

On 19 June 1981 Robert Blackwood Hall completed ten years of operation. During that period well over one million people have attended functions in the Hall. The year was again a very busy one for the Hall. It was in operation on 306 days involving 528 activities, and 150,000 people attended the various functions. Among these were 26 performances attended by 30,000 school children.

The Louis Matheson pipe organ was used on 233 occasions for practice and featured in several major concerts. The most notable of these were performed in March 1981 by Professor Luigi Tagliavini, a world renowned musician from Bologna, Italy.

The Australian Broadcasting Commission continued its close association with the Hall for recordings and concerts. The previous 'Gold Series' concerts were re-organised and renamed the 'Monash Series' and attracted 1,100 subscribers.

Other notable events in the Hall were the conferring of an honorary degree on H.R.H. The Prince of Wales, the Robert Menzies Oration, delivered by Mrs Margaret Thatcher, Prime Minister of Great Britain, the Arthur Calwell Memorial Lecture delivered by Mr N. Wran, Premier of N.S.W., and a sponsored lecture by Mr R. Mugabe, Prime Minister of Zimbabwe.

Robert Blackwood Hall is now an integral part of a large community, extending far beyond the perimeter of Monash University.

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 during 1981 and they were reflected in a trading loss of \$12,639, the worst result for many years. Gross sales of \$1,603,189 were up slightly compared with the 1980 level of \$1,524,720.

Had it not been for the excellent efforts made by the manager and his staff however, the deficit would have been 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.

Faced with the prospect of an even more difficult trading situation in 1982 the Bookshop Board was forced to change its policy on book pricing, by eliminating the general 10 per cent discount and striking a 'campus price' for all books. This price will never be more than the recommended retail price and in most cases will be about 5 per cent below this figure. The new pricing system will be implemented as from January 1982.

The continued existence on campus of other book outlets compounds the difficulties with which the Bookshop is faced, as the resultant lower sales lead to higher overhead costs per unit, and these must then be passed on to the purchaser in the form of higher prices.

Whilst on an outside studies program during the year the Chairman of the Bookshop Board spent some time investigating academic bookselling in England and North America. He also looked at the use of mini computers in a book-selling operation. It is hoped that it will be possible at some future time to install such equipment in the Monash Bookshop, in particular for stock control.

Religious Centre

The commencement of the academic year was celebrated for the first time at Monash with a University service, held in the Religious Centre and conducted by the University chaplains, with the address given by Professor Max Charlesworth, professor of Philosophy at Deakin University. The occasion, which was designed to bring together staff and students of various faiths was well received, and it is hoped to make the service an annual event.

In February, Father Peter Knowles, who had been Roman Catholic Chaplain at the University since 1964, was appointed Master of Mannix College, and was succeeded by Father David Halstead from New Zealand. Several months later however, Fr Halstead returned to New Zealand following his election as Vicar Provincial of the Dominican Order there. Pending the arrival of a new full-time chaplain early in 1982 Fr Knowles again took on the role of Roman Catholic chaplain, in addition to his duties at Mannix College. The other University chaplains during 1981 were Reverend Derek Evans, Protestant chaplain (full-time); Reverend Vernon Kleinig, Lutheran chaplain (part-time); and Rabbi Laibl Wolf, chaplain to Jewish students (part-time).

In addition to the regular services conducted in the Religious Centre by the various faiths, and which included Roman Catholic mass, Islamic prayers, Lutheran and Protestant services, and from third term, Anglican eucharist, the Centre continued to be well used by the various campus religious societies.

The Centre was the venue in May for Early Music Unlimited, a Ministry of the Arts project, which brought on to the campus a wide array of people associated with early music. Both the National Evangelical Anglican Conference and the National Tertiary Chaplains' Conference were held at Monash during the year, and each used the Centre each day. Wedding bookings, at 119, were the highest since 1976, and several funeral and memorial services were conducted in the chapels.

A successful series of organ recitals, alternating with performances by the Wednesday Consort, was held during first term. Internationally renowned organists, together with a number of local organists, were featured. The annual Christmas concert, whilst disappointing in terms of attendance, again provided some excellent music and included *The Australian Folk Mass*,

conducted by its composer, George Dreyfus.

During the year the heating in the two chapels was greatly improved, and this should considerably increase the comfort of users during the winter months. Discussions of plans for extensions to the organ loft, to accommodate singers or a group of musicians, continued and it is hoped that the necessary work will be completed early in 1982. Construction of the harpsichord progressed well, and it is now expected that it will be ready for installation late in 1982, rather than 1983 as originally anticipated.

Two brass rubbings which now hang in the Small Chapel were donated during the year in memory of a former secretary of the Religious Centre Advisory Committee.

Careers and Appointments Service

The past year has been characterised by a continuation of a long-established trend, an increased demand for all the services provided. In 1981 this coincided with tough financial restrictions which affected all aspects of the University's activities, which of course included the Careers and Appointments Service. Late in the year, the Careers and Appointments Service was asked to examine how savings might be effected in budget costs. Two possibilities were available: a reduction in the quantity and quality of services provided to clients, or to approach outside sources such as employers for supplementary funding. As the first of these alternatives posed considerable practical difficulties, the second was adopted, with some misgivings, because of the possible implications for not only careers work at Monash and elsewhere, but for future funding of student service as a whole. Indeed, at a national conference of employers and careers advisers held at Lorne in November, both groups expressed strong opposition to the concept of meeting running costs from employer contributions. Despite these objections by the end of the

year a number of financial contributions had been received. Without this generous support from the business community, the work of the Careers and Appointments Service would be greatly hindered.

The activities and conduct of the Service have been continually reviewed to achieve maximum cost-effectiveness. The arrival of a new member of staff meant that for the first time the concept of having one careers counsellor for prospective students, one for undergraduates, and one for final year students and graduates could be put into effect. This arrangement permits greater staff flexibility in meeting staff absences, peak loads or other unexpected situations. Efforts have been made to convey basic information to groups of students, in an attempt to ensure one-to-one counselling time is utilised more usefully. The support received from the business community has been beneficial here as publications covering basic information about interviews, job seeking and job orientation have been available for distribution at no cost to our students. Over 6,000 copies of the three publications concerned are being issued each year. The video cassette produced by the Graduate Careers Council of Australia (also produced with business sponsorship), 'The Employment Interview', has proved invaluable in the many group discussions held during the year. A forthcoming video cassette dealing with 'The Job Application' is to be available early in 1982.

Further business support has been available for a survey of graduate starting salaries and for detailed studies of students completing courses in accounting, education and law. The need for these and additional studies of graduates in other disciplines will be reviewed each year. Because of their objectivity, and the more detailed information obtained through the studies, less well-founded claims for graduate destinations and career prospects can be more easily dealt with.

Requests to visit schools increased by over

20 per cent. The schools program will be assisted in 1982 by support received from three large companies in meeting the costs of printing a booklet titled *Why Study . . . ?*, a collection of articles prepared by academic staff that has appeared in the Service's regular publication, *Careers Weekly*, during the last two years. One copy of the booklet is to be made available to every secondary school in Australia.

The active involvement of the staff in professional development continued. A number of employers sought to use the Service as consultants in reviewing selection, recruiting and training procedures for graduates. Mrs Andrew was able to attend the biennial conference of A.G.C.A.S. at Sheffield, in the United Kingdom, as well as visit Careers Services in a number of British universities while she was on long service leave. The Service was actively involved in an important conference 'Careers Services and Employers' held at Lorne in November. This conference reached a consensus on guidelines covering the dealings of careers services and employers with one another. Such guidelines have been developed in the United Kingdom, Canada, and the United States of America for some time.

The outlook for graduates was encouraging, with the number of graduates registering with the Service reporting success in obtaining employment increasing by 10 per cent. As expected, there was keen competition from employers for graduates in engineering, accounting, and computer science, as well as for graduates with good honours, or higher degrees. In fact, any graduate prepared to adopt a flexible approach, be well prepared, and willing to consider a range of alternatives, has little difficulty in making a sound start to his or her career. The possibility that fees might be introduced for post-graduate diploma courses raised fears for generalist graduates seeking vocational training, graduates wishing to re-train for alternative careers, graduates seeking re-entry to the work-

force, and migrant graduates seeking a start in a new country.

Finally, the Monash Parents Association made a generous grant which enabled the Service to reproduce duplicator stencils from a range of printed materials. This has helped our daily activities significantly.

University Counselling Service

During 1981 there was an increase of over 7 per cent in the numbers of staff and students using the counselling service, and also a 17 per cent increase in the number of hours spent in one-to-one counselling. Group work during the year was restricted mainly to study skills groups, where there was a significant increase in the number of students participating in such groups. Counselling staff were called upon to lecture in the Faculties of Education, Law and Medicine. The increase in demand for the services of the Unit can probably be traced to two major factors. Firstly, more academic staff appear to be aware of the range of services we are providing and are constantly either ringing for advice or referring students to the Unit. Secondly, brochures outlining the services offered by the Unit were designed and distributed to students early in the year and consequently more students are aware of our existence and are utilising the service more widely.

During 1981 we have been working on a program for transferring our statistical data to computer. Although not yet fully operational there are indications that more detailed and, hopefully, more useful statistics will be available early in 1982. Apart from the marked increases noted above, the major change noticeable is, that the number of students seeking help with study skills has risen considerably. In part this is due to staff and students being more aware of the services we offer in this direction, but perhaps reflects also the great difficulty some students experience in the transition from secondary to tertiary

studies. The most common problems are that students find it difficult to organise their time effectively and, in some cases, are unclear as to the standard of work required of them. It is discernable also, that students appear to be approaching their academic work more seriously in that good results will hopefully give them some advantage when applying for jobs on the completion of their courses. There has also been a marked increase in the number of staff and students seeking help with relationship difficulties.

We have had a settled professional staffing situation for the first time in many years and this has enabled the Unit to work together more effectively to the advantage of the student population. However, at the end of the year, we needed to plan for cut-backs in support staff for 1982 and look forward, disappointingly, to an inevitable reduction in the effectiveness of our service in 1982. Our support staff have been invaluable in enabling us to provide an effective service to the University. Some of our projects will have to be reduced and some deleted because of lack of staff to provide the necessary support service for them.

Students' Grants and Loans Committee

Seventy-five applications for assistance were considered of which seventy-one were approved; three of these were in the form of non-repayable grants. The total approvals were seven more than in 1980.

The total amount of assistance given was \$95,605, compared with \$74,498 in the previous year — an increase of 28 per cent, while the number of approvals represents an increase of 11 per cent. These figures highlight a role filled by the two funds administered by the Committee in filling the widening gap between the level of government assistance available to students and students' living costs.

Repayment of principal totalled \$72,204, and \$19,277 was received as interest from

borrowers and from investment of unutilised funds.

Expressions of appreciation of past assistance continue to be received.

Student Housing

The number of requests through the Student Housing Office for assistance of all types for 1981 was 4,080 (not including telephone requests). Of the firm requests for housing, 87.5 per cent were for independent living in flats, houses and rooms. However this group of students are now finding it almost as difficult to get housing as those seeking private home accommodation. Even at the end of the year flats and houses for rent were difficult to find, particularly in the University areas, whereas two or three years ago they were plentiful at this time. Rents have risen considerably and are expected to continue to rise. This situation is reflected in the large number of applications for the South East Flats for 1982 and the higher percentage of existing tenants wanting to remain. The occupancy rate for 1981 was approximately 94 per cent and there should be no difficulty in maintaining this figure for 1982.

Halls of Residence

The Halls of Residence experienced a satisfactory year during 1981 retaining full occupancy throughout the academic year. However, the occupancy rate for the vacations was less than the budget expectations. This was possibly due to the shortage of employment opportunities and restricted finances. Whilst conference bookings were better than the budget estimate the activity was not as buoyant as in past years.

With careful budgeting the price of meals was kept at the 1979 level, without any deterioration of quality of service. The accommodation fee was \$31.71 an increase of 9 per cent over 1980. The residency cost per student (averaged) was \$41.61 per week.

A student taking all meals at the averaged expenditure for meals spent \$55.86 per week. Approximately 14 per cent of students received T.E.A.S. allowance. The maximum value in 1981 was \$49 per week but the extent to which each student benefited is not known.

Associate Professor J.H. Smith was Chairman of the Committee of Wardens. Dr I. Fett was Acting Chairman during Associate Professor Smith's absence on Outside Study Leave. Dr I.R. Young, a new member of the Physiology Department, was appointed Warden of Roberts Hall.

Health Service

In 1981 students and staff made 700 more visits than in 1980. Since there had been a drop in the number of people having immunisations for various reasons — particularly overseas inoculations, the rise in consultations with the doctors approached 1,000 consultations.

1980 showed an increase in psychological problems. In 1981 the number of visits in this area receded to the 1979 level, however the number of individuals seen because of psychological problems remained almost the same as in 1980. The drop in visits is probably explained by two factors — the overseas students did not have to face the abnormal stresses of March and April, 1980, there has been more active co-operation with the Counselling Services in the last one or two years.

Important areas of operation continue to be: genito-urinary conditions (including family planning) 5,474 visits (5,093 in 1980); respiratory conditions 4,121 visits (3,551); skin conditions 2,665 visits (2,457); conditions resulting from trauma 2,278 visits (2,288); central nervous system conditions and those involving special senses (eyes and ears) 1,736 visits (1,592); psychological and emotional problems 1,100 visits (1,259); individuals with psychological problems 726 people (740).

A series of children's books with the theme 'Helping to Save our Earth' has been written by Dr David Crossley, Research Fellow in the Graduate School of Environmental Science and a Sydney freelance writer, Barbara Eite. The three volumes — on water, energy and transport — were published this year, with another three volumes scheduled for release in 1982.



Total number of consultations 22,374 (21,669). Total number of individuals seen 7,412 (7,411).

Aboriginal Research Centre

The Aboriginal Research Centre changed its directorship in 1981 when Mr Colin Bourke left to take up a position as general manager of the Aboriginal Development Commission in Canberra. The new director, Ms Eve Fesl, was appointed in July 1981, and has continued the work of the Centre in stimulating and undertaking research in the various fields affecting Aboriginal people.

The Elizabeth Eggleston Memorial Aboriginal Research Centre has increased its holdings in monographs, periodicals, and pamphlets, as well as adding to its collection of audio and video tapes and slides.

Use of the Centre, particularly by students and researchers from other institutions and universities, has increased to the point when, at times, overcrowding becomes a real problem. Demands on the staff's time in lecturing at other universities and insti-

tutions continues to be so large that 'farming out' has had to be intensified.

Projects in which the Centre was involved during 1981 are as follows:

(i) *Aboriginal Studies Course*. This course still attracts its optimum number of students, and from the responses from students and other members of University staff, plays an important role in the University's educative process.

(ii) *Submissions*. Submissions were made by the Centre to the following committees — House of Representatives Standing Committee on Aboriginal Affairs Inquiry into Aboriginal Education; Review of the Australian Institute of Aboriginal Studies; The Senate Select Committee on the National Language Policy (under preparation).

(iii) *Research*. 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 (Greg Lyons) (to be completed); A survey of Aboriginal housing needs in Victoria (Jenny Bryant); Aboriginal

Community Development in Eastern Australia (Kevin Gilbert) (to be completed); Bala Bala: some literacy and educational perceptions of three Aboriginal communities (E.D. Fesl) (completed, but additional booklet being compiled).

(iv) *Projects*. Projects undertaken were Education Services booklet (completed/updated); Aboriginal studies kit for non-Aboriginal adults, and extension of children's programs (partly underway); History of the Victorian Aborigines Advancement League (underway); Instrument design for Aboriginal health section of the Health Commission (completed); Racial awareness seminar for tourist coach drivers, cooks, and couriers.

(v) *Trainees*. The Centre, in its role as a training institute for Aboriginal persons, has supervised trainees in the following positions during the past 18 months: Library technicians (2); Secretaries (3); Typists/clerks (2); Research Assistants (2); Computer assistant (1).

(vi) *Conferences*. Centre staff attended the following conferences: ALAA/ALS — Canberra; ANZAAS — Brisbane; SFPCAA — France; South Eastern Australia Study Group Conference — Canberra; Adult Literacy — Brisbane; Bicentennial History — Canberra. Lectures and/or papers were presented at these conferences, as well as at many others. In addition, Centre staff were contributors to monographs and other publications during the year.

Computer Centre

The beginning of 1981 saw a major change in the Computer Centre with the move of the Health Computing Service and its large Burroughs computers to a new building in Blackburn Road. While this has meant the loss of a close and valuable working relationship with the Service which developed over the past fifteen years or so, it has provided considerable relief to the overcrowding of people and computer equipment in the

Centre. Staff now enjoy a similar standard of accommodation to that prevailing elsewhere on the campus, old equipment has been re-arranged, additional VAX computers installed and more space has been provided for students and others using the computers.

At the end of 1981 the Centre was operating an eight-year old Burroughs B6700 computer which continues to carry out a significant amount of the University's computing. It accounted for 52 per cent of the expenditure of departments compared to 63 per cent in 1980. Early in the year the University's seventh Digital Equipment VAX computer was installed, making six which are operated to provide computer services for departments and one which is used mainly by the Computer Science Department for research and teaching. Toward the end of the year two more VAX computers were ordered, one for providing general computing services and one for the Electrical Engineering Department. The latter was purchased using the Electrical Engineering equipment grant and a contribution from the Centre's outside earnings fund and was made possible partly through a generous grant by Digital Equipment Australia to support the teaching and research activities in the Department.

Concern about the cost of maintaining the B6700 computer and its decreasing reliability led to a study of the feasibility of adhering to the plan to cease providing Burroughs computing facilities by 1984. It was concluded that doing so would cause a great deal of inconvenience to those relying on established programs for their research at a time when funds were not available to finance a major reprogramming exercise. The Computer Centre Committee therefore agreed to maintain a Burroughs service until the end of 1984 and review the situation again in 1982. In order to do this a used B6700 computer of relatively recent manufacture was ordered for delivery in mid-1982. The old B6700 will be used for

spare parts and its newer peripheral devices moved to the new machine to provide a more powerful and reliable system.

During the year the number of terminals connected to the VAX and Burroughs computers grew from about 430 to some 595. While many of the new terminals were installed in areas accessible to students, there was a marked increase in the number being installed in offices. This trend can be expected to continue as more staff come to depend on computer-based services to support their work. In spite of the increasing number of terminals and VAX computers, there are not sufficient resources to use computer terminals for teaching introductory computing courses in Computer Science and Mathematics. For this, twelve of the locally developed MONECS (Monash Educational Computer System) were used. The Centre and departments concerned with such courses look forward to the time when a more modern substitute for the MONECS systems can be afforded.

In June 1981 the Centre installed a dual processor B6700 on behalf of the Victorian Government Computer Service which will be operated until the middle of 1982 to relieve a temporary shortage of computing power. The machine is operated and maintained by the Centre for a fee and some time on it is available for use by the University. At the end of the contract period it will be purchased from Burroughs as the replacement for the University's B6700, referred to earlier.

All the Burroughs and VAX computers on the campus, the MONECS systems and the

majority of terminals were maintained by the Engineering section in the Centre. Their dedicated efforts have provided maintenance at a fraction of commercial rates and enabled the Centre to keep all computers operating continuously, apart from occasional periods when whole machines have to be taken off-line for repair. This has been a major factor in keeping down the unit cost of computing and giving students and staff access to computers at all hours.

At the beginning of 1981 a total computing budget of \$1,384,521 (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 about 25 per cent lower than those set for 1980, reflecting the increasing use of computer time with an essentially static expenditure budget for the Centre. 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 1981. The total University (FSI) budget for the Centre was \$1,215,932. Of this it is estimated \$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 \$1,015,932 rather than the \$1,336,686 actually recovered. A rebate of 24 per cent was therefore made and the adjusted value figures in the table reflect this.

1981 Computing Budget Allocation and Expenditure

Faculty	Initial Budget	Final Budget	Actual Recovery	Adjusted Recovery
Arts	8,510	8,510	5,613	4,271
Economics	187,000	187,000	128,700	97,817
Education	11,700	11,700	10,094	7,676
Engineering	286,370	316,370	344,029	261,468
Law	1,800	1,800	904	692
Medicine	52,557	52,707	37,150	28,239
Science	587,980	678,980	567,883	431,596
Administration	159,000	159,000	147,985	112,474
Library	84,465	84,465	92,069	69,977
Others	5,139	7,304	2,259	1,722
	1,384,521	1,507,836	1,336,686	1,015,932

(Charge rates, excluding rebate: B6700 \$60-\$105 depending on job priority VAX \$40 per hour.)

The total expenditure of the Centre for the year, including funds from outside sources, amounted to \$2,028,660 made up from:

	\$
Salaries and associated costs	1,190,901
Consumables	254,753
Equipment purchased	<u>587,006</u>
	<u>2,028,660</u>

One concerning aspect of the financial picture is that external income is reducing while at the same time the Centre is relying on it to support a number of staff employed primarily on non-revenue earning work.

A pleasing aspect of the 1981 activities has been the way in which the staff of the Centre have been able to support more equipment and an increased level of computing services without a significant increase in staff numbers.

The teaching activities of the Centre involved service courses for other departments, teaching in collaboration with departments, short courses and seminars and a consulting service for undergraduate and postgraduate students. Undergraduate teaching involved some ten different courses or segments of courses, mainly in Computer Science, Electrical Engineering, Civil

Engineering and Mathematics, and a total of some 1,400 students.

The maximum number of charge codes registered for VAX and B6700 computers in 1981 was approximately 3,270. This gives an indication of the number of people using those computers. The total number of people using the Centre's facilities is approximately 4,000, allowing for some 1,600 students using only MONECS systems.

The bulk of the research and development activities continued to be devoted to the local area communication network MONET which is aimed at providing access to a number of computers from each terminal connected to it as well as communication paths between computers. In May the production prototype network was installed in the Centre to provide access to 6 VAX computers and 2 B6700s. This operated reliably for the remainder of the year while extensions and refinements to the design were made. Manufacturing of circuit boards commenced with the expectation of extending the network to other parts of the campus, starting in March 1982. This involved making the equivalent of 15 small computers, each capable of driving 32 communication lines.

Centre for Continuing Education

The main programs of the Centre were in four fields: 'human services', business training, engineering and languages. The human services program continues to be one of the Centre's most successful ventures. It brings together people from a wide range of professions and every activity is heavily booked. It has also gained the recognition of several other bodies who are pleased to collaborate with the Centre in the planning of activities and in supporting them financially.

The UPDATE business training program was launched in August 1981 with significant assistance from the Melbourne Chamber of Commerce. Considerable effort has gone into surveying the training needs of business, particularly those within a 5 km radius of the University. The pilot program of activities in the latter part of 1981 was well received and there is reason to expect that this will develop into a successful full program in 1982. The Centre's initiative has already been rewarded by a grant from the Small Business Development Corporation to cover 1982 publicity costs.

Engineering special short courses and evening classes for adults in a variety of languages continue to attract satisfactory numbers of participants.

A major development for the Centre followed Council's decision, in the middle of the year, that Normanby House should be fully managed by the Centre, at least until 1985. Normanby House has become a major adjunct to the University's operations, with 121 conferences and seminars run by 59 different organisations being held there during 1981. The total number of participants using the building in the course of the year exceeded 5,000.

Through a wide variety of channels, therefore, the Centre is in direct touch with a very large number of organisations in the surrounding community. In this way it contributes significantly to university-community liaison.

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. 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, on 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 91 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 is to be continued into 1982. Eleven projects were supported, the content of which varied from videotapes of prisoner interviews in Pentridge to a study of retention of basic first-year science knowledge in later years.

1981 was the fourth year in which Monash University has conducted the Thai Universities Lecturers' Scheme. This year fourteen academics came from the Prince of Songkla University in Southern Thailand and spent two days each week for about five months in HEARU for a formal course on teaching and learning in higher education.

One book, fourteen articles, twelve conference papers and nine internal reports were published in 1981, including a paper commissioned by the Australian Government for the OECD Intergovernmental Conference on Policies in Higher Education in the 1980s, in Paris, 12-14 October 1981.

STUDENT ACTIVITIES

Orientation

Bringing forward the start of the academic year by one week seems not to have affected either the preparations for orientation activities or attendance, though more overseas students than usual were unable to arrive before teaching began. Once more, well over half of the new students took part on one or more days. The new arrangements for country students worked particularly well, as did the host scheme, and for the first time special functions were organised for overseas students.

The trimming of funds in all sectors of the University naturally affected orientation also, but in the end it proved possible to recover the small operating deficit of 1980 while maintaining the traditional varied program of information and entertainment. Among new features in 1981 were an organ recital in the Robert Blackwood Hall and a public lecture sponsored by the Joint Orientation Committee.

The continued success of the host scheme led the Committee to recommend a major review of orientation allocations for 1982, with an eye to increasing support for what is for many students the most valuable part of their introduction to University life. In 1981 over 1,200 new students and 105 hosts were involved.

The Union — Administration and General

In 1981 the Union operated on an expenditure budget of \$1,470,920 derived mainly from a Union fee of \$160 for full-time students and \$100 or \$70 for part-time students. As in the past, 25 per cent of the fee income was allocated to the Union Development Fund.

The Union Board has reconfirmed its policy of assessing the fee on the basis of the student's course work and has gained Council approval to the payment of a Union fee by students who are in the full-time employment of the University. This means

that as from 1982 all students will be requested to pay a Union fee.

In the property area, the Board has given its support to a recommendation from the Clinical Students Committee that the Union facilities in 'The Back of Beyond' at the Alfred Hospital be relocated in the Monash Medical School, and is negotiating with the Faculty of Medicine regarding premises in the Medical School. The Board provided funds for renovation of the kitchen for resident medical students in Alfred House and provided several items of recreational equipment for students at the Alfred, Prince Henry's and Geelong Hospitals.

Expenditure on minor works and maintenance on campus included mechanical and electrical adjustments to reduce power consumption, provision of emergency lighting systems, alterations to two offices to meet changing needs, improvements to the overseas students' lounge, replacement of chairs, typewriters and other items of equipment.

In the catering area, the repercussions of a deficit of \$126,000 (12.2 per cent of turnover) in 1980 occupied the Board and Catering Committee throughout 1981. The appointment of a management consultant was deemed to be desirable to bring to light any defects in the managerial structure and to ensure a better financial result in 1981. Tenders for the consultancy were called in April and again in September. In the event, the Board was prepared to accept only one of the tenders received, but this tender was not acceptable to Council because a Board member, who had a pecuniary interest in the consulting firm concerned, had not declared an interest at the appropriate time. Consequently an appointment did not eventuate and it was left to the catering manager to reduce losses by any means available to him. In the event, the 1981 deficit is a moderate \$37,000 (3.2 per cent of turnover), this improvement being achieved by a reduction in managerial staff, the conversion of some casual staff positions to

part-time positions, a reduction in hours of service in some areas and the prompt application of cost price increases to selling prices. The alternative food services, the Pantry and the Wholefoods Restaurant, returned deficits of 3.4 per cent and 0.8 per cent respectively. Both services remain popular and the restaurant clientele appears to be increasing.

As a result of negotiations with Council over the catering management consultancy, the Board has laid down policies regarding Union tendering procedures and the declaration of pecuniary interest by Board and committee members.

With the completion of the first twenty years of Union development and operation, the Board's workload has been considerably lightened and it can now devote some time to the consolidation and refinement of existing facilities and activities. This trend is apparent in the following summary of 'incidental' Union and Board activities: the staffing establishment stabilised, with only one junior and one part-time position being created; finalisation of constitutions for two well-established student bodies (the Community Research Action Centre and Radio 3MU); the Pantry introduced a system of simple forward packaging of sales lines (without compromising its general anti-packaging policy); the Union took out improved insurance cover for students, offered by the A.U.S. Friendly Society, which covers both accident and disability; the diary/directory was again re-edited for presentation to all students enrolling and re-enrolling in 1982; eligibility for Union membership was extended to staff of the Hospitals Computer Centre; investigation into a dental health scheme for Monash students continued; the Board followed with interest the progress of an application for a liquor licence made by La Trobe University Union, and has established a working party to consider a similar application from this Union; the Board continued to support the Monash Student Creche Co-operative Ltd

with a substantial grant in 1981 and a guarantee of a similar grant in 1982. A proposal for major changes to the composition of the Union Board failed to gain sufficient support from the Board. One of the few innovations this year is a research project on the current and future needs of student parents for child care facilities, initiated by the Part-time and Mature Students Association and the Student Parents Association of Monash and funded by the Union (two-thirds) and the Vice-Chancellor (one-third).

This year the Board turned its attention to several matters concerning tertiary students on a national scale. It encouraged Union departments to support the A.U.S. Education Fightback campaign and made representation to the Federal Minister for Education on this matter. It also corresponded with the State Minister of Education on the issue of the institution versus government control of funds derived from compulsory student union fees. At this stage the Board is awaiting the outcome of legislation on this issue which provides for the government to restrict the purposes for which union funds may be used.

Apart from student activities reported below, the Community Research Action Centre (C.R.A.C.) continued to research and report on issues affecting the community and to provide opportunities for students and staff to gain experience in media production. This year C.R.A.C.'s projects and workshops were concerned with the Alps, Native Forests, Aboriginal, Aluminium Industry and Women's issues, Health and Sexuality and the social and environmental effects of the S.E.C.'s long-term plans for the La Trobe Valley — the last-mentioned project being a film production course conducted by C.R.A.C. Student Theatre had a stimulating year, comprising workshops, guest performances, five productions on campus and a participation in the annual Festival of Australian Student Theatre at La Trobe University. This group reports a

The 34th Australian National Archery Championships were held at Monash University in February. Organised by the Archery Society of Victoria the competition drew leading bowmen and women from throughout Australia.



move towards more interaction between local campus groups concerned with the performing arts. Radio 3MU continued to broadcast within the Union building and produced weekly programs which were aired on community radio. 3MU hopes to extend its activities in 1982 on completion and installation of equipment for a second studio.

Monash Association of Students

1981 saw the Monash Association of Students gain new ground as far as student participation was concerned. The main motivating factor behind the increased participation was no doubt the attacks on access to tertiary education and student unionism by state and federal governments. The campaign against these attacks was coordinated with the 'Education Fight Back'

which was highlighted by a rally attended by 10,000 students in the City Square. Eventually, due to both student and wider community support, this campaign was won for the benefit of all students.

The committees of M.A.S. put in variable performances during 1981. The Activities Committee, although being the most conspicuous to students, was far from proper in its behaviour. The Public Affairs Committee, the Student Welfare Action Board and the Publications Committee all provided valuable services in fulfilling student needs in their relevant areas of concern.

The staff employed by M.A.S. put in long hours and achieved excellent results considering the adverse circumstances under which most of them laboured. Further student support and internal changes are looked forward to in 1982.

The Monash Association of Graduate Students

M.A.G.S. in 1981 saw a strengthening of the standing policy that graduate student organisation ought to be membership-oriented and membership based. The numbers of graduate students participating has increased via more regular general meetings, more frequent social occasions, and a more extensive contact network throughout departments and faculties.

The attendance of graduate students at general meetings throughout the year grew steadily reflecting the efforts being made to build up a well organised contact network. The extension of hours for the researcher/organiser position to 33½ per week allows for proper co-ordination of the contact network and has facilitated greater involvement of the Association in various campaigns.

General meetings held regularly offered graduate students an opportunity to meet and discuss issues relevant to their work and living conditions and to work out programs of action. By involving the graduate student membership in the affairs of the Association, it is able to properly represent the needs of its members. Campaigns were organised expressing M.A.G.S. concern about the Australian Salaries Tribunal decision on part-time tertiary and demonstration rates, the Federal government's budget proposal to re-introduce fees for higher and second degrees, and incomes for students on scholarships and awards. The researcher/organiser position was effectively used to back up local and national campaigns with the relevant facts and figures.

M.A.G.S. sent a delegate to the annual conference of the Council of Postgraduate Associations held in November at the University of Queensland. The Association continues to be actively involved in C.A.P.A. regional organisation in Victoria.

Clubs and Societies

Each year representatives of over 130

student cultural clubs and societies elect eight to ten Council Executive members to administer a budget in excess of \$135,000. These funds are part of the Union fees received from students and are used to subsidise functions and activities of all affiliated clubs and societies. Weekly meetings of the Clubs and Societies Council Executive apportion various fund allocations depending upon the projects desired to be undertaken by the various clubs, and give advice on the running of such projects. Further assistance to clubs is given through the employment of an activities officer, general secretary, a part-time club liaison officer with experience in club organisation, and a junior typist.

Reproduction of printed material is available to clubs through the C. and S. office which provides a photocopier, duplicators, an electronic stencil cutter, four typewriters, and screen printing equipment. Clubs holding social events receive assistance through the loan of urns, mugs, games, video equipment etc.

Union Tuition and Summer School

For many years Union Tuition has been offering a variety of programs of short courses in arts and crafts, study skills, and music throughout the year. In addition to seasonal programs, the annual Summer School, which comprises intensive short courses in a wide variety of subjects, is held during January and February.

Following completion of the Arts and Crafts Centre in 1979 facilities available were greatly improved, and the number of courses being offered was increased considerably. 1981 saw further expansion, not only in the number of courses (270 during the year plus 150 in Summer School), but also in the range of subjects covered. A series of free lunchtime demonstrations and several exhibitions were very well attended. The Centre is administered by a committee comprising the Clubs and Societies Council

Executive, the activities officer and the Warden of the Union.

In 1982 even more diversity is being sought with a wider choice of subjects, weekend and holiday workshops, demonstrations and lectures. The Centre aims to provide a range of activities of a very high standard for students, staff and the community; despite keen outside competition from other groups, that aim is being realised, and the steady successful growth is attributable to the excellence of the facilities and the dedication and expertise of the tutors.

Sports and Recreation Association

1981 was another busy year for the Sports and Recreation Association in terms of participation by members, the advent of some new facilities and more detailed planning of the swimming pool. The demand for indoor training areas during evenings is now so great that space has to be rationed out to clubs on a one week in, one week out, system. A similar problem has arisen with the co-recreational games program and teams are able to play in the competition only for two of the three terms.

The demand for the floodlit tennis courts which were completed at the end of 1980 continued to be heavy, even during winter

evenings. Three new glass-backed squash courts became available early in the year, giving a block of six courts separated from the original seven. These are ideal for coaching and competition and were favourably commented upon by the Victorian Squash Racquets Association during their annual coaching camp. Three sets of change rooms were also completed during the year. These are to service the tennis courts, the areas west of the ring road and north-east playing fields. All three have been designed for general social use as well as for changing.

Monash was well represented at inter- varsity contests and achieved first places in Athletics (women), Table Tennis (women), Orienteering (men and women), Lacrosse (men) and Volleyball (men).

The Association looks forward to the opening of the swimming pool, which is expected to be completed by May 1982. Both the indoor and outdoor facilities are made available to the general community either free or on a hire basis. This use is now at a level where great care has to be exercised to ensure that members are not disadvantaged with regard to using the services which their fees provide. Considerable thought is being given to the additional problems which will arise when the swimming pool is ready.

GIFTS AND GRANTS

The following gifts and grants were received by the University:

Aborigines Auxiliary of the Uniting Church in Australia towards visit to Australia of Dr Alexander Shoen, (Aboriginal Research Centre)		250
Abrams, Mrs I.D. to the Monash University Student Assistance Fund		100
Action for Aboriginal Rights towards the visit to Australia of Dr Alexander Shoen, (Aboriginal Research Centre)		200
Adams, The Estate of the late George towards the Tattersall's Visiting Lecturers to Conference on Community Action on problems of the Aged, November 30 to Dec 5, Melbourne (Medicine)		26,000
Alcoa of Australia Limited instalment of 2-year-grant, research student scholarship for the project: The flow characteristics of highly concentrated red mud suspensions, awarded to Mr Quoc Dzuy Nguyen, engineering graduate, under the supervision of Dr D.V. Boger and Dr P.H.T. Uhlherr (Chemical Engineering)	6,075	
to further the work of the Rheology Section under Dr D.V. Boger's leadership (Chemical Engineering)	1,000	
to support Ph.D. research in the area of strategic planning practices of Australian organisations, Professor P.T. FitzRoy (Administrative Studies)	1,000	8,075
Alexander Foundation, The George for colo-rectal research, Sir Edward Hughes (Surgery)		1,000
Alexander, Mrs Ruth second instalment Geoffrey Alexander Postgraduate Research Scholarship in Hydrology, under the supervision of Professor Eric Laurenson (Civil Engineering)	2,000	
fourth payment in respect of artists' rooms, Robert Blackwood Hall	1,000	3,000
Alfred Hospital colorectal carcinoma: <i>in vitro</i> testing of anti-tumour reactivity and immunomorphological staging, Professor R.C. Nairn and Colleagues (Pathology and Immunology)	6,000	
medical research grant, colo-rectal computer study, being conducted by Sir Edward Hughes (Surgery, Alfred Hospital)	10,500	
contribution to the stapling project, Professor Sir Edward S.R. Hughes and Mr A.L. Polglase (Surgery, Alfred Hospital)	2,600	19,100
Alfred Hospital Clinical School towards cost of new laser pointer (Medicine)		150
American Heart Association to be applied toward the training and research activities of Research Fellow Dr Kathleen Keef (Physiology)		500
Anatomy Museum Users Group, Monash University to Department of Anatomy		1,416

Angliss, William, (Victoria) Charitable Fund		
to fund the Angliss Enrichment Program for 1981 (Krongold Centre)	2,000	
to be used solely for the benefit, objects and purposes of research, Faculty of Law, Professor E.P. Ellinger (Law)	6,000	
to be used solely for the benefit, objects and purposes of Orthopaedic and Traumatic surgery research being conducted by Associate Professor J. Clarke McNeur (Surgery)	4,000	12,000
Anti-Cancer Council of Victoria		
research grants for 1981, Departments of Anatomy, Biochemistry, Medicine, Alfred Hospital, Medicine (Prince Henry's Hospital), Pathology and Immunology, Surgery (Alfred Hospital)	144,158	
supplementary grant to cover mandatory salary increases for 1980 awards	3,234	147,392
A.N.Z. Banking Group		
to support Ph.D. research by Mr C. Christodoulou, in the area of strategic planning practices of Australian organisation, Professor P.T. FitzRoy (Administrative Studies)		250
Apex Foundation — Sudden Infant Death Research Trust		
awarded to the project: Hypoxic change in Sudden Infant Death Syndrome, Mr N.G. Wreford and Dr C. Hunger (Anatomy)	10,883	
for the project: Continuous recording of oxygen saturation in the sheep foetus and in term and pre-term newborn lambs, Dr R. Harding (Physiology)	7,500	18,383
A.P.M. Forests Pty Ltd		
towards research on controlling wallaby damage, Associate Professor A.K. Lee (Zoology)		1,000
Artificial Insemination Donor Service Trust		
for <i>in vitro</i> research being conducted by Professor E.C. Wood (Obstetrics and Gynaecology)	1,395	
for studies on the development of early mammalian pre-implantation embryos, being conducted by Professor E.C. Wood (Obstetrics and Gynaecology)	4,620	6,015
Associated Pulp and Paper Mills Limited		
for research into wallaby damage in forests (Zoology)		1,800
Austin Hospital		
for research into the turnover and retention rates of nursing staff at Austin Hospital, Dr J. McArthur (Education)		4,880
Australasian Universities Law Schools' Association		
Australasian Universities Law Schools Association's Monash Postgraduate Scholarship, to enable a scholar to pursue full time higher degree studies (Law)	4,400	
to continue scholarship stipend for three months for Mr R. Namaliu (Law)	1,200	5,600
Australia-Britain Society		
grant to Dr Stephen Graves in support of his research into vaccines against infectious diseases; will be used for running costs of his projects (Microbiology)		1,000

Australia-Japan Foundation, The towards Student Travel to Japan, combined Australian Universities Tokyo Centre (Japanese)		19,500
Australian Associated Brewers, The 1981 grant for the project: Is alcohol a neurotoxin? Dr B.G. Cragg (Physiology)		15,000
Australian Biological Resources Study additional grant for 1981 for the project: Checklist of Australian Liverworts, Dr G.A.M. Scott (Botany)		4,420
Australian Consolidated Industries Limited payment of first year of ACI-ASEAN Scholarship awarded to Mr Adirek Ratirattananont (Economics)		5,820
Australian Engineering and Building Industries Research Association research grant to Dr L.L. Koss, for the project: Research on Noise Control, (Mechanical Engineering)	5,000	
for research into control of impactive noises, being conducted by Dr L.L. Koss (Mechanical Engineering)	26,100	31,100
Australian Institute of Criminology part payment of grant for research project 2/79: Victorian Sentencing Law, Messrs R.G. Fox and A. Freiberg (Law)		4,000
Australian Institute of Management — Victoria 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)		250
Australian Institute of Nuclear Science and Engineering 1981 equipment grant, Dr R.C. Tobin (Physics)	489	
fellowship instalments and National Wage Increase adjustments Dr E.M. Gray (Physics)	19,205	
equipment grant, \$1,000; Studentship instalments, \$5,266, Mr P.I. McKinnon (Chemistry)	6,266	
grant in aid \$770, Studentship instalments \$3,336, Mr M.A. Irving (Physics)	4,106	30,066
Australian Kidney Foundation, The for research projects: Kallikrein-kinin system in renal disease, being conducted by Dr P.G. Matthews (Medicine, Prince Henry's Hospital)	3,300	
Glomerular handling of immune complexes in experimental Glomerulonephritis, being conducted by Dr S.R. Holdsworth (Medicine, Prince Henry's Hospital)	4,000	7,300
Australian Liliium Society, The additional support for research on Liliium chromosomes, Dr D.R. Smyth (Genetics)		250
Australian Meat Research Committee grant-in-aid associated with Mr P. Pavlov's research on feral pigs, Dr J. Nelson (Zoology)		2,000
Australian Museum, The postgraduate grants to: Ms J. Gipps for the project: Diversity and evolution of the masticating system in Australian petaurids,		

(Zoology)	528	
Mr G.J. Morgan for the project: A taxonomic revision of the freshwater crayfish genus <i>Euastacus</i> (Zoology)	300	828
Australian National University, The shared cost towards visit to Australia of Professor J. Garde of the University of Provence (Russian)		300
Australian Newsprint Mills Ltd towards the project: Browsing damage by marsupials in eucalypt regeneration programs and pine plantations, being conducted by Associate Professor A.K. Lee (Zoology)		1,000
Australian Psychological Society, The Australian Psychological Society Prize in Psychology awarded to Miss A.P. Mundie		100
Australian Road Research Board reimbursement of expenditure to 31.12.1980, project No. 355: Long range delineation at night, Dr T.J. Triggs (Psychology)		10,440
Australian Tobacco Research Foundation extension of 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)		10,360
Australian Welding Research Association balance of 1980 grant and further payment to cover the extension for project: Stress corrosion cracking of welded pipelines — effect of coatings, being conducted by Associate Professor B.W. Cherry (Materials Engineering)	7,034	
second instalment plus supplementary grant of \$2,490 for contract No. 69, project: Long term properties of adhesive joints in PVC pipes, (research scholar Mr Yue Chee Yoon) Associate Professor B.W. Cherry (Materials Engineering)	6,355	
continuation of AWRA contract No. 45: Research into the microstructure of welded polyethylene joints, being conducted by Mr S.J. Barton, Ph.D. candidate in the Department of Materials Engineering, under the direction of Associate Professor B.W. Cherry	770	
for research projects: Trace elements and the elevated temperature embrittlement of Low Alloy Steels (No. 80) and Adhesion of thermally sprayed coatings (No. 81), Professor R. McPherson (Materials Engineering)	7,000	21,159
Australian Vice-Chancellor's Committee travel expenses associated with attendance at UNESCO-RIHED (Regional Conference on Environmental Education) held at the Universiti Pertanian Malaysia, in August, Dr E.H.M. Ealey (Board of Studies in Environmental Science)	1,271	
travel assistance, visit to the National University of Singapore as AAUCS (Australian-Asian Universities Cooperation Scheme) Consultant, Professor E.M. Laurenson (Civil Engineering)	2,600	
incentive grants to departments in recognition of their roles as		

consultants under the Australian-Asian Universities Co-operative Scheme: Professor W.A. Rachinger, (Physics)	1,600	
Associate Professor A. Williams (Mechanical Engineering)	1,600	
in recognition of the contribution of Professor E.M. Laursen to the Australian Universities' International Development Program as Consultant for Engineering (Civil Engineering)	1,600	8,671
Baker Medical Research Institute to supplement Ph.D. stipend of Miss A.E. Ward, Professor M.E. Holman (Physiology)		2,644
Baxter Charitable Trust, Percy to fund the Enhancement of Life Physical Therapy Program for 1981 (Krongold Centre)		4,000
Bell Park North Primary School for research into Spina Bifida (Paediatrics)		21
Biddle, Mrs N. to (Psychological Medicine)		70
Bodi, Professor L. donation to Library		60
Boehringer Ingelheim Pty Ltd on behalf of Thomae Laboratories to Paediatrics	5,000	
balance of 1980 research grant for the project: The influence of compound NA872 on the development of the respiratory system, being conducted by Dr J.E. Maloney (Research Centre for Early Human Development)	6,000	
to further research work, Dr J.E. Maloney (Research Centre for Early Human Development)	20,000	
to further the research on Ambroxol, Dr J. Maloney (Research Centre for Early Human Development)	10,000	41,000
Boger Dr D. private consultancy fees donated to (Chemical Engineering)		200
Bongiorno and Co. Pty Ltd for the sole use of the Department of Community Practice — Moorabbin Hospital		621
Brockhoff Foundation, The Jack to fund The Jack Brockhoff Experimental Visual Training Program (Krongold Centre)	5,000	
towards the purchase of a small animal irradiator for cancer research, Dr P.J. Tutton (Anatomy)	5,000	10,000
Broken Hill Proprietary Company Limited, The BHP Prize in Materials Engineering	200	
contribution towards costs of 1980 Secondary-Tertiary Education Planning Data (STEP) project, being conducted by Associate Professor F. Lawson (Chemical Engineering)	662	
to establish a graduate scholarship for Mr I. Cole, for the year 1981, to undertake research into the problem of thermal cracking, Dr J.R. Griffiths (Materials Engineering)	7,350	
towards costs of Mr Barburamani's final year Ph.D. study on the project: Microstructural control of mechanical properties of dual		

phase steels, Dr R.A. Jago (Materials Engineering)	2,310	
for Research Fellowship work, Mr B. Bolton, project concerning the genesis of Groote Eylandt manganese ores, Dr L.A. Frakes (Earth Sciences)	29,653	
towards publication costs of The Science Magazine, Professor J.M. Swan (Science)	500	
to be used to construct special research equipment (\$400) and to supplement an existing scholarship, (\$1,600) for the project: Residual stresses in metal, being conducted by Professor T.F. Smith (Physics)	2,000	42,675
Brown, Dr Jeffrey H.		
towards the costs of the construction of an Art Gallery at Monash; the money may also be used for acquisitions for the Monash Art Collection if the Gallery does not commence within two years		5,000
Brown, Dr Joseph		
towards the costs of the construction of an Art Gallery at Monash; if the Gallery is not commenced within two years, the money may be used for acquisitions for the Monash Art Collection		10,000
Bunge (Australia) Pty Ltd		
to Careers and Appointments Service		200
Burnell, Mr L.E.		
for research (Surgery, Alfred Hospital)		20
Burton, Mr and Mrs Ron		
for Embryo and Egg Transfer project to be conducted by Associate Professor John Leeton (Obstetrics and Gynaecology)		4,000
Byer, Mrs K.		
to the work of the Krongold Centre		400
Cadbury Schweppes Pty Ltd		
to the 'Why Study' project (Careers and Appointments Service)		500
Caterpillar of Australia Ltd		
to Careers and Appointments Service		300
Collier Charitable Fund		
towards the purchase of: teaching equipment: First Year Students' Resource Centre (Chemistry)	3,126	
Equipment (Botany)	738	
Carousel projector, Queen Victoria Medical Centre (Medicine)	600	
microfilm reader (English)	300	
colour television monitor (Sports and Recreation Association)	1,000	
copy of Banksias' Book for Vice-Chancellor's Office	1,736	7,500
Comalco Limited		
1981 research grant to Mr M.J. Couper, for continuing research into fatigue crack propagation in cast aluminium alloys, under the supervision of Dr J.R. Griffiths (Materials Engineering)	6,700	
for Studies into high strength, high conductivity aluminium alloys, under the supervision of Dr P.L. Rossiter (Materials Engineering)	6,700	
towards travel expenses, Professor I.J. Polmear (Materials Engineering)	500	

1981 Research Scholarship for the project: Mossbauer spectroscopy of bauxites, (Physics)	6,700	20,600
Commercial Bank of Australia Limited		
prize for Psychology 101 awarded to Miss J. Lee	40	
first half yearly payment of extended CBA/Monash Post-Doctoral Fellowship project to study plant/insect interaction in arid and semi-arid areas of Australia, Dr T. O'Brien (Botany)	10,000	
to support Ph.D. research in the area of strategic planning practises of Australian organisations, Professor P.T. FitzRoy (Administrative Studies)	1,000	11,040
Commonwealth Government		
Aboriginal Affairs, Department of		
for operational costs of Aboriginal Research Centre, 1980/81	48,600	
first quarterly payment of 1981/82 grant for operational costs of Aboriginal Research Centre	10,000	58,600
Australia Council		
towards cost of 1981 Writer-in-Residence, Mr Bruce Grant (English)		2,000
Australian Housing Research Council, Department of Housing and Construction		
AHRC project, cluster style residential complexes, Dr W. Foddy (Anthropology & Sociology)		7,000
Australian National Parks and Wildlife Service		
for the project: Pre-history of Norfolk Island, Dr P.V. Rich (Earth Sciences)		964
Australian Wool Corporation		
first half-yearly payment of 1981/82 research grant 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, (Electrical Engineering)		10,145
Education, Australian Department of		
1980/81 grant, for the project: Evaluation of Courses for professionals, Dr D.F. Davis (Education)		5,000
Health, Department of		
for Survey to estimate the potential demand for occupational health and safety services in the western region of Melbourne, Pilot Study conducted by Dr G.A. Ryan (Social and Preventive Medicine, Monash Medical School, Alfred Hospital)		6,000
Home Affairs, Department of		
1981 grant for the project: Checklist of Australian Liverworts, being conducted by Dr G.A.M. Scott (Botany)		4,587
Immigration and Ethnic Affairs, Department of		
part payment for project: Adult Migrant Education Program — Intensive study of Western Suburbs, Melbourne, being conducted by Mr J. McKay (Centre for Migrant Studies)	3,000	
travel and general expenses of participants in the Seminar, February, 1981 on The Australian Ethos, Mr J. McKay (Centre for Migrant Studies)	3,741	6,471

National Development and Energy, Department of			
expenses in respect of research project: Processing of fibre re-inforced components, being conducted by Dr D.V. Boger (Chemical Engineering)		5,650	
for the project: The use of rotary regenerative heat exchangers for conservation of energy in buildings and for air conditioning systems utilizing waste or solar heat, Mr C. Ambrose (Mechanical Engineering)		18,500	
for the project: Small rural catchment hydrology — catchment losses on a regional basis, Professor E.M. Laurensen (Civil Engineering)		2,900	
for the project: Ecology of the yabby Cherax Destructor and assessment of its potential as a heavy metal indicator, being conducted by Dr P.S. Lake (Zoology)		11,617	
for the project: Drying-energy conservation, being conducted by Professor O.E. Potter (Chemical Engineering)		7,500	
for the project: Australian policies in the liquid fuels and transportation sectors, being conducted by Professor M.G. Porter (Centre of Policy Studies)		18,528	
expenses for the project: Solar tracker systems, Associate Professor W.J. Bonwick (Electrical Engineering)		2,203	
expenses for the project: Non-technical constraints on energy conservation, Professor L.A. Endersbee, Mr F. Fisher and Dr R. Birrell, (Board of Studies in Environmental Science)		5,065	
expenses for the project: Flow improvers for waxy crudes and middle distillates, Dr G.A. Holder (Chemical Engineering)		2,165	
expenses for the project: Processing of waste lube oil to remove lead, Associate Professor J.B. Agnew (Chemical Engineering)		6,333	
expenses relating to eleven projects undertaken by:			
Board of Studies in Environmental Science	\$4,031		
Centre of Policy Studies	12,541		
Chemistry	37,407		
Chemical Engineering	8,840		
Electrical Engineering	2,963		
Mechanical Engineering	3,494		
Physics	1,916	71,192	151,653
Primary Industry, Department of			
(Australian Wool Corporation) balance of 1980/81 grant (\$6,450), first half-yearly payment 1981/82 research grant (\$15,884) for the project: Studies on fetal growth and skin development (a) effects of heat stress (b) effect of thyroid function and epidermal growth factor (c) effects of infusion of substrates and under-nutrition, Professor G.D. Thorburn (Physiology)		22,334	
first half-yearly instalment of research grant, Wool Research Trust Fund (Textile Research) 1981/82: Treatment of wool with N-Acyl Isatin derivatives, Dr D. St C. Black (Chemistry)		11,838	34,172
Social Security, Department of			
instalments Mental Retardation Project (Education)		36,000	

equipment subsidies (Krongold Centre)	678	36,678
Science and Technology, Department of		
1980/81 grants for the projects: Australian involvement in ocean margins drilling — a workshop, Doctors L.A. Frakes, K.A.W. Crook and P.J. Cook (Earth Sciences)	2,000	
the history of the mangrove swamps on Hinchinbrook Island, North-East Queensland, Dr A.P. Kershaw (Geography)	6,052	
wave prediction in the Southern Ocean and Bass Strait, Associate Professor J.B. Hinwood, Doctors D.R. Blackman and G. Leonard (Mechanical Engineering)	49,324	
study of the kelp <i>Durvillea Potatorum</i> in Bass Strait, Doctors B.M. Allender, M.N. Clayton, N.D. Hallam and G.A.M. Scott (Botany)	17,144	
for feasibility study on the setting up of a national corrosion research centre, Associate Professor B. Cherry (Materials Engineering)	48,000	122,520
Tertiary Education Commission		
instalments 1980/81 (\$24,722) first quarterly payment of 1981/82 (\$12,189) research grant, project: Evaluation of College based nursing courses, conducted by Dr J.T. McArthur (Education)	36,911	
instalments, research grant for the project: The study of alternatives to open-access storage of printed library materials, conducted by Professor Jean Whyte (Graduate School of Librarianship)	19,427	
third quarterly instalment 1980/81 research grant: Basic Nurse Education Evaluation (Project B) conducted by Dr J.T. McArthur (Education)	11,648	67,986
Wheat Industry Research Council		
1981/82 grant for the project: Plant armour plate: Polysaccharide-phenol complexes and their involvement in the resistance of cell walls to fungal attack in the wheat root and wheat grain, Dr T.P. O'Brien (Botany)		19,363
Coopers and Lybrand (C. and L. Accounting Education and Research Fund)		
awarded to Mr Lee Parker and Mr Paul Sutcliffe, for research (Accounting and Finance)	2,500	
research grant for Mr G.D. Pound (Accounting and Finance)	2,500	5,000
Corporate Affairs Commission (New South Wales Government)		
for the project: Proposed legislation to provide for limited partnerships, Professor R. Baxt (Law)		10,000
Cottman, Estate of the late W.T.		
for medical research (Medicine)		3,655
C.R.A. Services Limited		
first and second quarterly instalments for: Research into the genetics and physiology of micro-organisms associated with the microbiological leaching of ore deposits, being conducted by Professor B.W. Holloway (Genetics) \$25,429 plus additional grant of \$4,096	29,705	

towards costs of printing 'Why Study' articles (Careers and Appointments Service)	500	30,205
Deafness Foundation of Victoria, The in support of cytomegalovirus research being conducted by Dr Kathleen Hayes (Paediatrics)		1,800
Dean, Lady to the Elizabeth Eggleston Memorial Appeal		20
Educational Technology Section, Staff of to the In Vitro Fertilisation Fund (Obstetrics and Gynaecology)		38
Eggleston, Lady Donation to Aboriginal Research Centre		500
Eggleston — estate of the late Dr Elizabeth Eggleston through Sir Richard Eggleston to be applied to the work of the Aboriginal Research Centre		5,492
Electricity Supply Association of Australia, Electrical Research Board first half yearly payment for project: Automatic Generation Control (AGC) of interconnected power systems, Doctors T. Dillon and C. Berger (Electrical Engineering)		500
English Setter Association for assistance with research projects being conducted by (Paediatrics)		40
Esso Australia Limited to assist Honours and Masters Students (Earth Sciences)	3,000	
\$1,000 each to Faculty of Engineering and to Departments of Chemical, Civil, Electrical, Mechanical and Materials Engineering	6,000	
towards 6th International Conference on Strength of Metal Alloys (Materials Engineering)	1,000	
towards advancement of geological sciences, from Esso's Coal and Synthetic Fuels Department, \$900; from Esso's Minerals Department, \$1,500 (Earth Sciences)	2,400	12,400
Fawkner Park Community Health Centre grant in Aid for Practice Register Research project, Dr A.T. Rose (Community Practice)		3,000
Federation of Polish Organisations of Victoria towards the cost of experimental one-year course in the Polish language in 1981 (Russian)		3,000
Felton Bequests' Committee towards Fluorescent Probe work, Professor R.C. Nairn (Pathology and Immunology)		10,000
Fensham, Professor P. donation for research to (Education)	500	
for the use of the Arts and Embellishments Committee (Education)	108	608
Ferguson, Dr R. and Dr J. MacKenzie Talbot for In Vitro Fertilisation Research, Professor Carl Wood (Obstetrics and Gynaecology)		180
Ferntree Gully Technical School		

for research into the prevention of abnormalities in children (Research Centre for Early Human Development)			44
Firkin, Professor B.G. to the work of the Department (Medicine, Alfred Hospital)			1,900
Fleiner, Mr and Mrs J. gift to the Krongold Centre			44
Fleming Mr L. R. to the Library			500
Ford Motor Company of Australia Limited Ford Prize, Third Year Mechanical Engineering		50	
for Sixth International Conference on the Strength of Metals and Alloys, Professor I.J. Polmear (Materials Engineering)		500	
towards the purchase of an Iatrosan TX 10 to be used in Muscular Dystrophy research (Biochemistry)		500	1,050
Flinders University of South Australia (The) part payment of grant for the project: Evaluation of Australian Studies in Student Performance, being conducted by Dr J. Theobald (Education)			1,078
French Embassy — Canberra to the Australian Journal of French Studies (French)			582
Fuller, Mr N.L. and Mrs P.T. on behalf of their son Daniel for Muscular Dystrophy Research (Biochemistry)			70
Gardner, Mr Paul donation of Royalties on Biology Readiness Tests (Education)			5
Girgarre Primary School for Spina Bifida research project (Paediatrics)			50
Goeytes-Rios, Mr and Mrs to In Vitro Fertilisation research (Obstetrics and Gynaecology)			857
Goninan, A. and Co. Limited towards 6th International Conference on Strength of Metal Alloys (Materials Engineering)			200
GRE Insurance Ltd to Careers and Appointments Service			100
Healy, Mr John B. towards Muscular Dystrophy research being conducted by Dr L. Austin (Biochemistry); re Daniel Fuller			80
Hecht Trust, H. and L. to continue the Motor Skills Program for 1981 (Krongold Centre)	12,000		
to meet cost of lift and two small ramps, Normanby House		8,220	
additional grant to meet cost of two small ramps for use by disabled persons, which will give access from car park to base of lift, Normanby House		1,000	21,220
Heiser Fellowship Program laboratory allowance 1981/82 Dr Bret Steiner's Fellowship, Dr S. Graves (Microbiology)			1,724
Second half yearly payment of Fellowship grant, in support of Dr B. Steiner on the project: The cultivation of Treponema Pallidum, to			

Dr S. Graves (Microbiology)	6,185	7,909
Herald-Sun TV Pty Ltd		
second and third of three payments for the project: Research on children and television, being conducted by Dr Mary Nixon (Education)		40,000
Hillview Quarries Pty Ltd		
to fund the School Support Program for 1981 (Krongold Centre)		4,000
Home Economics Teachers' Group of Victoria		
to the Krongold Centre		100
Hoechst Australia Limited		
to Department of Physiology		525
Hughesdale Art Group		
donation to Centre for Continuing Education		26
I.C.I. Australia Operations Pty Ltd		
for Pseudomonas project, Professor B.W. Holloway (Genetics)	29,189	
for the work of the Careers and Appointments Service	500	
travel grant, to U.K. and U.S.A. to study the drug 'Razoxane' to be used as a chem-therapeutic agent in the treatment of cancer, Mr W.R. Johnson (Surgery, Alfred Hospital)	1,000	
1981 I.C.I. Australia Prize for Vacation Work Report awarded to Mr Tam Kam Chiu (Chemical Engineering)	100	30,789
Ingram Trust, The M.A.		
to investigate geographic variation and mating patterns in the polytypic species <i>Pardalotus striatus</i> , the striated Pardalote, Associate Professor D.F. Dorward (Zoology)	1,064	
for the project: Aspects of the population ecology of small mammals, being conducted by Associate Professor A.K. Lee (Zoology)	1,457	2,521
Ironside, Professor W.		
to the work of the Department of Psychological Medicine		1,888
Isaac, Dr J.E.		
to the Library		100
Jennings Industries Limited		
towards costs of swimming pool complex		100
Kellogg Foundation, W.K.		
approved budget for 1981 Biomedical Library/Australian Hospital Association Reference Centre		15,435
Kelp Harvester's Association (Tasmanian Fisheries Development Authority)		
second year's contribution to the project: The growth, reproduction and natural resources of <i>Durvillea Potatorum</i> in the vicinity of King Island, Dr G.A.M. Scott (Botany)	2,600	
second payment of matching contribution for Bull Kelp Research, Dr G.A.M. Scott (Botany)	2,000	4,600
Kempthorne Lighting Company		
for the purchase of books for the Hargrave Library		150
Kirsop, Associate Professor W.		
towards costs of producing <i>The Australian Journal of French Studies</i> in 1981 (French)		960

Kovacs, Dr G.T. to In Vitro Fertilisation Research, Professor Carl Wood (Obstetrics and Gynaecology)		960
Labtest Equipment Company S.E. Asia Pty Ltd first quarterly instalment of grant of \$6,600, for the project: Mineral powder analysis, being conducted by research student Mr G. Lomdahl under the supervision of Associate Professor R. McPherson (Materials Engineering)		1,650
Lanyon, Mr and Mrs Geoffrey to the Krongold Centre		300
Laurenson, Professor E.M. personal donation to be applied to research (Civil Engineering)		200
Leeton, Associate Professor J.F. personal gift to the In Vitro Fertilisation Research program (Obstetrics and Gynaecology)		2,220
Liddicoat, Mr W. towards Muscular Dystrophy research being conducted by Dr L. Austin (Biochemistry); to help 3-year-old Daniel Fuller		20
Life Insurance Medical Research Fund of Australia and New Zealand, The to cover cost of 100 reprints of the publication: The role of Kallikrein-kinin in sodium and water homeostasis and blood pressure control: an approach to identifying renal kinin receptors, by Dr P.G. Matthews (Medicine, Prince Henry's Hospital)	61	
covering first instalments of two-year grants-in-aid, (Medicine, Prince Henry's Hospital); (Alfred Hospital) and to (Anatomy)	70,252	
supplementary grant to cover mandatory salary increases in respect of 1980 awards, grants-in-aid (Medicine, Prince Henry's Hospital, Alfred Hospital)	2,756	
balance of supplementary grant for 1980, project: Factors influencing the formation of extracellular products by smooth muscle cells in tissue culture, Dr B.W. Oakes (Anatomy)	559	73,628
Lockheed Engineering and Management Services Co. to fund the Australian part of the Agristars Program in large area crop inventory using the Landsat Satellite data, Dr J. Peterson, (Geography)		32,915
Marshall, Professor V.C. personal donation to Department of Surgery, Prince Henry's Hospital		200
Melbourne Family Care Organisation final payment of research project: Socio-demographic profile of Pakenham-Berwick-Cranbourne-Sherbrooke, conducted by Professor P. Boss (Social Work)		1,399
Melbourne Family Medical Centre, The for the purchase of a video recorder for the Department of Obstetrics and Gynaecology		1,500
Merchant Builders Pty Ltd in sponsorship of the architectural exhibition, 'Seven in the		

Seventies', October (Visual Arts)		500	
Merck Sharp and Dohme Australia Pty Limited towards research into hypertension, being conducted by Professor C.I. Johnston, and Dr G.O. Littlejohn (Medicine, Prince Henry's Hospital)	13,382		
to be used for Digoxin research, Professor C.I. Johnston (Medicine, Prince Henry's Hospital)	1,500	14,882	
M.I.M. Holdings Limited to Careers and Appointments Service		100	
Mobil Oil Australia Limited to Careers and Appointments Service	100		
for the project: Structural and metamorphic study of the evolution of the Pine Creek geosyncline, Dr M.A. Etheridge, Mr V.J. Wall (Earth Sciences); plus reimbursement of air fares, associated personnel Mr D. Johnston, Dr B.W. Nesbit	42,500	42,600	
Monash Ex Committee Club to the Main Library		500	
Monash Medical Mothers' Auxiliary to the Library	1,000		
toward cost of television facilities at the Medical School, Alfred Hospital	2,300	3,300	
Monash Medical Services — Prince Henry's Hospital to Department of Medicine, Prince Henry's Hospital		16,403	
Monash University Parents' Group to the Main Library	3,400		
Department of Botany — Banksias Vol. 1	1,450		
Careers and Appointments Service — Stencil reproducing equipment	1,300		
Faculty of Law — Library reference books	400		
Department of Music — Microfiche reader	300		
University Union — Melways Map in Hargrave Cafeteria	300		
Electronic map of Campus	350		
For Code-A-Phone	428	7,928	
Moore, Estate of the late Edith final share and interest in the above Estate		19,952	
Moore, Mrs Vera final payment for The Vera Moore Junior Research Fellowship	50,000		
to the Library Fund Appeal	200		
to the work of the Krongold Centre	235		
towards the purchase of an Iatrosan TX 10 to be used in Muscular Dystrophy research (Biochemistry)	300	50,735	
Muscular Dystrophy Association of Victoria for purchase of a small desk computer (Biochemistry)		892	
Myer Foundation, The second and third payments finalising \$12,000 grant to assist with the development of a course in Information Science in relation to the new course for Diploma of Librarianship, Professor J.P. Whyte (Graduate School of Librarianship)	10,000		

contribution towards the collection costs of the 1980 STEP data project being conducted by Associate Professor F. Lawson (Chemical Engineering)	661	
support for research into the ethical and legal issues associated with the new techniques of In Vitro Fertilisation and embryo transplantation (Centre for Human Bioethics)	8,000	
in support of the Centre for Human Bioethics	5,000	23,661
McCallum, Mr R.C. donation to the Elizabeth Eggleston Memorial Fund		800
National Heart Foundation of Australia, The for research fellowships: Professor A.L.A. Boura (Pharmacology)	19,973	
Doctors J.B. Chapman, C.L. Gibbs, G.D.S. Hirst, D.S. Loiselle, T.O. Neild (Physiology)	107,005	
Doctors C.I. Johnston and P.G. Matthews (Medicine, Prince Henry's Hospital)	19,500	
supplementary grant for 1980 to cover National Wage Increase (Pharmacology) \$1,718; (Physiology) \$6,072	7,790	154,268
Natron Corporation Pty Ltd to Department of Chemical Engineering		150
Neale, Mr J.T. to the work of the Aboriginal Research Centre		12
New Templars, The towards research projects (Research Centre for Early Human Development)		350
Nexus Research towards Hypertension Research (Medicine)		20
Nicholas Pty Ltd for the project: The effect of hydroquinone on melanocytes in pig skin, Professor H.K. Muller (Pathology and Immunology)		22,000
Nixon, Dr M.C. donation to Faculty of Education		200
Ormell, Mr C.P. donation to Faculty of Education		315
Our Lady of Sion College towards Spina Bifida research, Associate Professor MacMahon (Paediatrics)		90
Pathology and Immunology, The Staff/Department of for the work of the Department of Pathology and Immunology		54,000
Petersville Australia Limited to Research Centre for Early Human Development, Queen Victoria Medical Centre		100
Petroleum Refineries (Aust) Pty Ltd to Careers and Appointments Service		100
Pharmacia (South Seas) Pty Ltd towards Seminar on Inflammatory Bowel Disease, to be held 17th October in the Department of Surgery, Monash Medical School, Alfred Hospital		500
Phillips, Fox and Masel		

1980 Alex Masel Prize in Civil Procedure (Law)		100	
Plaskem Pty Ltd			
for research into Organo-Metallic Chemistry, Associate Professor G.B. Deacon (Chemistry)			75
Potter Foundation, The Ian			
towards the Outside Studies Program of Dr R.R. Bayly (Microbiology)	1,000		
travel grant assistance: to attend the International Symposium on Intense Atmospheric Vortices in England, Dr R.K. Smith (Mathematics)		500	
towards attendance at Symposium on Physico-chemical aspects of polymer surfaces in New York, Associate Professor B.W. Cherry (Materials Engineering)		500	
towards attendance at Chemeca '81 in New Zealand, Associate Professor J.B. Agnew (Chemical Engineering)		500	
to attend Hydrometallurgy conference in Manchester, Metallurgical kinetics conference, Bangalore, India, June-July 1981, Associate Professor F. Lawson (Chemical Engineering)		1,250	
to attend an International Conference on Solid-Solid Phase Transformations in the United States in August 1981, Dr T.R. Finlayson (Physics)		500	
to attend a meeting of the Society of Developmental Biology in the United States in June 1981, Dr T.P. O'Brien (Botany)		500	
to attend the 7th International Symposium on Synthesis in Organic Chemistry in the United Kingdom, Dr R.F.C. Brown (Chemistry)		500	
to attend the International Conference on Metallurgical Coatings in the United States, Associate Professor R. McPherson (Materials Engineering)	500		
towards the activities of the Krongold Centre	1,000		6,750
Preston, Professor G.B.			
for the purchase of books for the Hargrave Library			50
Prince Henry's Hospital, Gastroenterology Unit			
to further the study of Tinidazole and the irritable bowel syndrome being conducted by Mr P. Hunt (Surgery, Prince Henry's Hospital)	3,000		
Prince Henry's Hospital — Medical Specialists' Management Fund			
for Clinical Research in the Department of Medicine, Prince Henry's Hospital	15,000		
Prince Henry's Hospital — Nutrition Special Unit			
for the project: Tinidazole and the irritable bowel syndrome (Surgery, Prince Henry's Hospital)	700		
Prince Henry's Hospital — Vascular Consultative Clinic			
for the project: Tinidazole and the irritable bowel syndrome (Surgery, Prince Henry's Hospital)	1,500		
for research (Surgery, Prince Henry's Hospital)	3,006		23,206
Production Equipment Ltd			
Production Equipment Prize in Mechanical Engineering			100

Queen Victoria Medical Centre for the project: Phenotypic investigation of breast carcinoma, Professor J. Bornstein (Biochemistry)		21,136
Queensland Sudden Infant Death Research Foundation transfer of funds following the transfer of Professor G.D. Thorburn and Dr R. Harding from University of Queensland to Department of Physiology, Monash		1,660
Radio Research Board (C.S.I.R.O.) first half yearly payment of 1981/82 research grants, projects: Rain Cell Structure for Microwave Propagation from 4GHz to 33 GHz, Dr J.A. Bennett (Electrical Engineering)	2,250	
morphological and histochemical studies of the Wheat Kernel, Dr T.P. O'Brien (Botany)	10,289	12,539
Ramaciotti Foundations, Clive and Vera subsistence grant for the visit of Dr R.M. Mason of Charing Cross Hospital Medical School, to the Department of Biochemistry		770
Ramsay Surgical Limited Ramsay Prize for Obstetrics and Gynaecology		100
Renou, Dr P.M. to In Vitro Fertilisation Research, Professor Carl Wood (Obstetrics and Gynaecology)		120
Research Fund for Early Human Development for establishment of Postgraduate Scholarships for 1982 in the Research Centre for Early Human Development, Queen Victoria Medical Centre		11,000
Reserve Bank of Australia first payment of \$23,585 grant awarded to Dr A.O. Trounson for the project: The development of techniques for frozen preservation, transport and transplantation of cattle embryos (Obstetrics and Gynaecology)	11,398	
1980/81 research grant, project: Polysaccharide-phenol complexes and the resistance of cell walls to attack in the wheat root and wheat grain, Dr T.P. O'Brien (Botany)	3,075	
full payment for the project: States and resources — implications of unbalanced growth, Professor M.G. Porter (Centre of Policy Studies)	10,000	24,473
Rheem Australia Limited to further solar pool cover studies being conducted by Dr Logan Francey (Physics)	500	
towards travel expenses attending Solar Energy Congress and Exhibition in Brighton, England, August 1981, Mr P. Golding (Physics)	500	1,000
Robins Pty Ltd, A.H. final instalment of the 1980 A.H. Robins' Award to Mr David Joy, undergraduate (Medicine)		250
Rocla Research Centre, Rocla Concrete Pipes Limited grant to extend to 31.10.81, Rocla Research Scholarship held by Mr A.S. Kahmirian, Professor B.W. Cherry (Materials Engineering)		1,850

Rodia Products			
General donation to (Zoology)			1,500
Rosengarten, Mr and Mrs S.			
for In Vitro Fertilisation Research, Professor Carl Wood (Obstetrics and Gynaecology)			5,792
Rotary Club of Richmond			
to the Krongold Centre			200
Royal Australian College of General Practitioners, The			
Community Practice Prize for 1980 awarded to Mr A.G. Elefanty (Medicine)		250	
in support of Country Week and other activities, Professor N.E. Carson (Community Practice Teaching Unit, Moorabbin Hospital)	4,600		4,850
Royal Australian College of Surgeons			
grant-in-aid for the project: Microsurgical techniques for the correction of male infertility, Dr P.D. Temple-Smith and Mr G.J. Southwick (Anatomy)			8,000
Royal Automobile Club of Victoria (RACV) Ltd			
towards cost of Master of Engineering Science Course (Civil Engineering)			1,250
Ruthven Primary School			
for Spina Bifida research project (Paediatrics)			50
Sanyo Australia Pty Ltd			
to Department of Japanese			200
Savage River Mines			
for the research project: Wall stability in open pit mines, being conducted by Mr P.M. Dight (Civil Engineering)			10,000
Sawers, Dr and Mrs R.J.			
in support of the work being conducted by the interdisciplinary team (Krongold Centre)			250
Schoysman, Dr Andree			
for In Vitro Fertilisation research, Professor Carl Wood (Obstetrics and Gynaecology)			1,000
Sharp and Howell Pty Ltd			
for research, Dr G. Deacon (Chemistry)			50
Shaw, Mrs Peggy			
towards proposed Art Gallery at Monash			8,125
Shell Company of Australia Limited, The			
1980 Shell Prizes: for Administration		100	
for Chemical Engineering		100	
first, second and third term instalments, 1981 undergraduate scholarship, Mr G. Chappell (Mathematics)		3,500	
towards research (Medicine, Alfred Hospital)		1,500	5,200
Shepherd Foundation			
revised balance of research grant, Shepherd Foundation's Patient Survey (Patients' responses to a health testing program) Professor P. Boss (Social Work)			357
Skin and Psoriasis Foundation			

for Dermatology Research (Medicine, Alfred Hospital)	304	
Smith and Nephew Australia Pty Ltd		
for research work, Dr R.J. Fleming (Physics)	275	
Smith Kline and French Laboratories Aust Ltd		
in support of Gastroenterology Research (Medicine, Prince Henry's Hospital)	7,000	
Smorgon Consolidated Industries		
towards the project: Control of wallaby damage in commercial forests, being conducted by Associate Professor A.K. Lee (Zoology)	500	
Solar Energy Research Institute — Western Australia		
equipment, maintenance and supplementary maintenance 1980/81, for studies on swimming pool covers, Dr J.L. Francey (Physics)	910	
Southern Memorial Hospital, The Royal — Diabetes Research Fund		
for studies on the health effects of modernisation in developing Pacific countries, particularly Kiribati (late Gilbert Islands) awarded to Professor A.W. Linnane and Associate Professor P. Zimmet (Biochemistry)	42,868	
Spina Bifida Association of Victoria		
for Spina Bifida Research, Associate Professor MacMahon (Paediatrics)	5,000	
State College of Victoria — Burwood		
towards the Schools Commission Conference on Special Education Facilities held at Monash, August 1981	10,000	
State Rivers and Water Supply Commission		
for the project: Dartmouth Dam Behaviour, Associate Professor I.B. Donald (Civil Engineering)	10,000	
Stokes Australasia Limited		
towards 6th International Conference on the strength of Metals and Alloys (Materials Engineering)	250	
Stuart Simson Educational Trust		
income from the Trust, to be allocated to the Stuart Simson Scholarship	1,070	
Squibb and Sons Pty Ltd, E.R.		
for Hypertension research, Professor C.I. Johnston (Medicine, Prince Henry's Hospital)	14,461	
towards costs of Seminar on Inflammatory Bowel Diseases, being held in Department of Surgery, Monash Medical School, Alfred Hospital	350	14,811
Sudden Infant Death Research Foundation		
for the project: The effect of hypoxia on the development of the cardio-respiratory system in the fetus and new born, Dr J.E. Maloney (Research Centre for Early Human Development)		17,088
Sunshine Foundation		
cost of translating two papers to be read at Italian Conference, Mr L. Green (History)	558	
towards cost of rapid response analyser, Dr R.A. Westerman (Physiology)	1,000	1,558

Taft Foundation, The Jacob and Sima towards the program for the three year old (Krongold Centre)		250
Telecom Australia total cost of project: A study of the feasibility of fault tolerant microcomputer systems for telecommunications applications, conducted by Doctors K.E. Forward, T.S. Dillon and Mr P.A. Grasso (Electrical Engineering)		2,000
Tileman (A/asia) Pty Limited 1980 Tileman Prize for Civil Engineering for research (Mechanical Engineering)	100 4,000	4,100
Tracey, Mr R.R.S. donation to the Elizabeth Eggleston Memorial Fund		800
Trauma Research Foundation awarded to Dr M. Esser for follow-up studies on patients with fractured shaft of femur (Surgery, Alfred Hospital)		1,993
Trustees Executors and Agency Company Limited, The from five Estates: The Truby and Florence Williams Charitable Trust; C.F.W. Taylor Public Charitable Bequest; H.G. Turner Estate A/c. Helen G. Turner Samaritan Fund; T.J. Sumner Trust A/c. Charity Fund; The Alfred Edments Trust; to the work of the Krongold Centre		1,000
United States Department of the Interior for contract No. A1191 — project: Recrystallised grainsize in ductile fault (mylonite) zones as an indicator of palaeostressmagnitudes during faulting being conducted by Dr M.A. Etheridge, Professor B.E. Hobbs (Earth Sciences)		15,022
University of Melbourne subsidy to the Australian Journal of French Studies (French)		400
Utah Foundation towards the project: Development of a vaccine against Syphilis, Dr S. Graves (Microbiology)		4,834
Vascular Consultative Clinic for Vascular Research, Mr K. Myers, Vascular Section (Surgery, Prince Henry's Hospital)		2,310
Victor Petroleum and Resources Ltd in support of the honours project on the Depositional Environment of the Strezlecki Group, Gippsland Basin, Dr R.A. Cas (Earth Sciences)		1,000
Victoria Law Foundation to support an appointment at tutorship level, and at a later date, consultancy work, Clinical Legal Education Program (Law) to Monash University Law Library for 1981 (Law)	24,000 18,000	42,000
Victorian Academy for General Practice Ltd, The for continuation of the project: Medical Manpower Survey, being conducted in Victoria by Professor N.E. Carson, Section of Community Practice, Department of Social and Preventive Medicine (Moorabbin Hospital)		12,810
Victorian Government		

Arts Ministry for cultural development grant awarded to the Alexander Theatre for 1981		10,000
Education Department — Victoria part cost of Bandjalang Language Project, Aboriginal Research Centre	12,000	
second instalment of research grant for project: Adult Migrant Education Program — Intensive study of Western Suburbs, Melbourne, being conducted by Mr J. McKay (Centre for Migrant Studies)	3,000	15,000
Forests Commission of Victoria grant-in-aid for the project: Studies of nematodes and arthropods in forest litter, Ms R. Coy (Zoology)	3,000	
for research into wallaby damage in forests, Associate Professor A.K. Lee (Zoology)	3,000	6,000
Premier's Department first and second instalments of Sir Macfarlane Burnet Biomedical Research Scholarship awarded to Dr M. Newman (Medicine, Prince Henry's Hospital)		11,910
Transport, Victorian Ministry of towards the salary of a research assistant responsible to a Transport Working Party addressing itself to the problems of transport access to Monash		3,500
Victorian Brown Coal Council for the project: Catalytic effects of inorganic constituents on the direct hydrogenation of brown coal, Professor W.R. Jackson, Dr F.P. Larkins (Chemistry)		14,399
Victorian State Schools Horticultural Society balance of sponsorship moneys received from the children of Victoria in relation to 'My own special tree' program organised in 1980, for Spina Bifida Research (Paediatrics)		1,851
Youth, Sport and Recreation, Department of for the project: Treatment of snakebite, being investigated by Mr W. Straffon, and Doctors R. Anker and D. Loiselle (Anatomy)		500
Walters, Professor W.A.W. to Cardiovascular Research (Obstetrics and Gynaecology)	2,300	
to Centre for Human Bioethics	1,000	3,300
Water Research Foundation of Australia 1981/82 research grant No. 141 project 79/406: The production of corrosive materials by bacterial slime in contact with sulphate containing waste water, Dr G.A. Holder (Chemical Engineering)		9,000
Wellcome Australia Limited towards cost of microscope for research work being conducted by Dr G.O. Littlejohn (Medicine, Prince Henry's Hospital)		500
Were and Son, J.B. for the work of the Krongold Centre		500
Westall Primary School		

to Monash Education Development Centre, Mr L.C. Ingvarson (Education)		800
Western General Hospital for the project: A study on turnover and retention rates of nurses at Western General Hospital, Dr J.T. McArthur (Education)		4,731
Western Mining Corporation Limited for general support (Earth Sciences)	1,000	
to help improve the quality of tuition at the final Honours year level (Earth Sciences)	1,125	2,125
White, The Joe White Bequest to the Monash University Library Fund Appeal		1,000
Wilson Charitable Fund, The Edward for the Edward Wilson Lectureship in Dermatology — first of three annual payments of \$5,000 (Medicine, Alfred Hospital)		5,000
Winter Foundation, The awards for the six months ending 31 December 1980:		
Dr J. Murtagh (Social and Preventive Medicine)	500	
Dr U. Proske (Physiology)	500	
Dr J. Tiller (Psychological Medicine)	500	
Dr P.J.M. Tutton (Anatomy)	500	2,000
Wood, Professor E.C. for In Vitro Fertilisation Research (Obstetrics and Gynaecology)		900
Wood, Mrs R.N.L. for In Vitro Fertilisation Research, Professor Carl Wood (Obstetrics and Gynaecology)		1,000
World Health Organisation core support for infertility studies, being conducted by Professor D.M. de Kretser (Anatomy)		40,681
Zonta Club of Waverley to purchase a colour receiver monitor for use in the Therapy and Education Technology Program (Krongold Centre)		500

Commonwealth Government Research Grants

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

Investigator	Project Title	Grant \$
ARTS 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

Investigator	Project Title	Grant \$
English		
Ms B.M. Niall	Australian children's literature 1841-1980	10,000
Associate Professor W.B. 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 organization within Australian metropolitan areas	7,000
History		
Dr M. Aveling, Dr A.T. Atkinson	Australia in 1838	12,250
Dr L. Li	Whamboa and K'angta: Nationalist and Communist experiences in cadre training 1925-1945	5,970
Dr A.G. Serle	Biography of General Sir John Monash	1,000
Japanese		
Dr A.E. Backhouse	Studies in Japanese semantics	11,424
Associate Professor H. Bolitho	The regional origins of Kobu Gattai	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
Visual Arts		
Ms H.L. Topliss	Catalogue Raisonne of Tom Roberts . . .	1,689

Investigator	Project Title	Grant \$
ECONOMICS AND 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 and Operations Research		
Professor N.A.J. Hastings	Production scheduling planning in medium scale manufacturing	8,300
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 international 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	Fluidization 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	Optimization 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

Investigator	Project Title	Grant \$
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
MEDICINE Biochemistry Dr J.McD. Armstrong, Professor J. Bornstein Dr L. Austin	Structure activity relationships in peptide hormones	11,200
Dr P.L. Jeffrey, Dr L. Austin	The role of the cell body in the renewal of axonal and synaptic components	8,500
Professor A.W. Linnane, Associate Professor H.B. Lukins	The supply, turnover and role of synaptic and cell surface components	12,000
Professor D.A. Lowther, Dr C.J. Handley	Biogenesis of mitochondria	33,500
Professor D.A. Lowther, Dr R.I. Brinkworth	Regulation of matrix formation as an expression of the differentiated state of chondrocytes cultured in vitro	12,300
Dr S. Marzuki, Professor A.W. Linnane	Neutral proteinases and inhibitors in chondrocytes and PMN leucocytes	32,520
Dr P. Nagley, Professor A.W. Linnane, Dr G.S. Cobon	The effects of altered biochemical function on the structure and functions of mitochondrial membranes	27,150
Associate Professor B. Preston	Informational macromolecules in nucleocytoplasmic interactions	31,740
Dr H.C. Robinson	Macromolecular diffusion through porous membranes	35,850
Microbiology Dr R.C. Bayly, Dr R.A. Skurray	Structural studies on connective tissues: factors involved in the maintenance of cartilage	10,250
	Biochemical and genetic analyses of aromatic degradative pathways	9,700

Investigator	Project Title	Grant \$
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
Pharmacology 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
Physiology 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
Dr R.A. Westerman	Development and pathological interactions between nerve and muscle	12,782
SCIENCE		
Botany Professor M.J. Canny Dr M.N. Clayton	Phloem loading and translocation Studies on the reproductive biology of some brown algae, together with related taxonomic investigations	16,000 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, Dr P.D. Godfrey	Molecules in space — phase 2	97,072
Dr R.F.C. Brown, Dr F.W. Eastwood	High temperature pyrolysis of organic compounds: generation of cumulenones	22,340
Dr D.J. Collins	Studies of the chemistry of enolic ortho esters	18,400
Dr G.B. Deacon	Elimination reactions in organometallic synthesis	1,000
Dr G.B. Deacon	Lanthanoid and actinoid chemistry	23,348
Associate Professor R. Dickson	The activation of metal carbonyl and related complexes	22,050
Dr B.M. Gatehouse	Crystal chemistry of the solid state	28,250

Investigator	Project Title	Grant \$
Professor W.R. Jackson	Transition metal complexes with chiral ligands as catalysts for asymmetric synthesis	11,650
Dr F.P. Larkins	Photoelectron studies of adsorbates on catalyst surfaces	9,500
Dr F.P. Larkins	Auger electron spectra of atoms and molecules	22,216
Dr K.S. Murray	Single crystal magnetic studies of inorganic and bio-inorganic compounds	13,500
Dr M.F. O'Dwyer	State to state chemistry energy transfer mechanisms in small polyatomic molecules	19,710
Associate Professor I.D. Rae	A rational search for nuclear overhauser effects on the hydrogens of methyl groups	6,000
Professor B.O. West	Sulfur co-ordination to metals. Influence on metal spin states and reactivity	30,110
Dr J.K. Yandell	Electron transfer in heme and copper proteins	2,000
Computer Science Dr M.P. Georgeff	Procedural control specification in programming systems	17,000
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	32,668
Earth Sciences Dr M.S. Bloom, Mr V.J. Wall Dr M.S. Bloom	Experimental investigations on the hydrothermal mobilisation, transport and deposition of tin	9,690
	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

Investigator	Project Title	Grant \$
Mr V.J. Wall	Bioitite 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 organization 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
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

Education Research and Development Committee on Research and Development in Education

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

Investigator	Project Title	Grant \$
Dr J. Chapman	The principal and school council relationships	850
Professor P.J. Fensham, Professor C. Power, Dr S. Kemmis and Dr D. Tripp	Case studies of school alienation and transition to work	5,640
Professor R. Taft	Family environment and bilingual skills of Italian and Lebanese children	3,197
Dr L.H.T. West and Professor P.J. Fensham	The measurement of cognitive structure in undergraduate Chemistry students	7,500
Dr A. Spaul	Australian Education in the Second World War (production of report)	1,300
		<u>\$18,487</u>

National Health and Medical Research Council

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

Investigator	Project Title	Grant \$
Anatomy 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
Professor J. Bornstein, Dr J. McD. Armstrong Professor J. Bornstein	Regulation of insulin receptor activity by ligands Post-pituitary modification of growth hormone at the target organ	20,399 28,976
Dr M.K. Gould, Dr J.H. Aylward Dr P.L. Jeffrey, Dr J.A. Rostas	Regulation of the insulin receptor by a phospho/dephospho mechanism Specific cell surface markers for neurons and muscle	17,673 29,910

Investigator	Project Title	Grant \$
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 homeostasis and hypertension	28,542
Medicine — Alfred Hospital		
Dr M.A. Howard, Professor B.G. Firkin	Role of Factor VIII and Von Willebrand 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	19,339
Dr S. Holdsworth	Experimental glomerulonephritis in the isolated perfused kidney	21,489
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
Microbiology		
Professor S. Faine	Pathogenesis and immunity in leptospirosis	69,715
Professor S. Faine, Dr S. Graves	Human syphilis: growth in vitro and immunity to <i>Treponema pallidum</i>	44,332
Dr R.A. Skurray, Dr J.W. May	Analysis of plasmids from multiple anti-biotic-resistant staphylococci	17,544

Investigator	Project Title	Grant \$
Dr E.G. Westaway, Dr P.J. Wright	Replication and immunochemistry of togaviruses	40,874
Dr E.G. Westaway, Dr P.J. Wright	Translation of arbovirus proteins	31,932
Obstetrics and Gynaecology		
Dr A.O. Trounson, Ms L.R. Mohr	Cellular aspects of cryopreservation of mammalian embryos	26,816
Dr A.O. Trounson, Associate Professor J.F. Leeton	A study of male infertility by in vitro fertilisation	19,026
Paediatrics		
Dr T.M. Adamson, Dr V.Y. Yu	The maturation of cardio-respiratory patterns in the human infant	23,127
Dr A.A. Orgill, Dr J.E. Maloney	Very high frequency ventilation in fetal lambs	23,839
Dr E.S. Wertheim	Study of the initial stages of social bond formation in humans	36,215
Pathology and Immunology		
Dr J.S. Pedersen, Dr B.H. Toh	Quantification of auto-antibodies to the cytoskeleton by elisa	6,835
Pharmacology		
Associate Professor G. Bentley	The role of cerebral x-adrenoceptors in blood 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 cholinceptors	15,300
Dr J.N. O'Neill	Steroid modulation of adrenoceptors in uterine smooth muscle	15,300
Philosophy		
Professor P. Singer, Mr A. Rassaby, Ms H. Kuhse	Ethical and legal problems of in vitro fertilisation	16,869
Physics		
Dr P.P. Phakey, Professor W.A. Rachinger, 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. Holman	Innervation of smooth muscle	43,769

Investigator	Project Title	Grant \$
Professor M. Holman, Dr T.O. Neild	Electrophysiology of arterioles in living mammals	47,747
Dr E.M. McLachlan	The effect 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-(¹⁴ C) deoxyglucose method	15,407
Psychological Medicine Dr G.C. Smith	Amines and peptides in psychoneuroendocrine responses	49,640
Research Centre for Early Human Development Dr J.E. Maloney	A study of respiratory system development 'in utero'	47,332
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	13,844
		<u>1,403,089</u>

Volume I of the three volume work, *The Banksias*, was published in August by Academic Press, London, in association with Monash University. The book features drawings by the University's artist, Mrs Celia Rosser, accompanied by text by Mr Alex George, executive editor of *Flora of Australia*. Mrs Rosser is attached to the Department of Botany.



Gifts in kind

Mrs Valerie Judges, gift of the Hartung Telescope and a quantity of books on astronomy and literature, from the estate of Mrs Judges' father the late Professor F. J. Hartung.

Professor H. C. Bolton, to Department of Mathematics' Astronomy Laboratory a bound copy of book by F. J. Hargreaves *The size of the Universe*, on the occasion of the acceptance of the Hartung Telescope. (Mr Hargreaves figured the mirror of the telescope.)

Kyoto Sangyo University, series of Memorial Publications of the late President Toschima Araki, to the Main Library.

IBM Australia Ltd, computer time, conservatively estimated to be worth between \$30,000 and \$50,000, using Landsat data for fire protection planning, in association with the Country Fire Authority (Geography).

Dr R. W. Topor, Department of Computer Science, two books valued at approximately \$150: *Automata, languages and machines, Volume A*; *Automata, languages and machines, Volume B*; both by Samuel Filenber, published 1974 and 1976 respectively, by Academic Press. (Both volumes are in the Academic Press series 'Pure and Applied Mathematics'.) Presented to the Department of Mathematics Library.

Mrs B. G. Firkin, 'Domani' by Peggy Perrins Shaw. (Monash University Art Collection)

Dr T. Lang, 'Yuendumu' Aboriginal Mission Station, N.W. Australia (c.1957) by Lawrence Daws. Portrait IV by Kevin Connor. (Monash University Art Collection)

Dr Joseph Brown, a pencil drawing by Sir Russell Drysdale. Three Papua New Guinean artifacts — a mask, a shield and a totem. (Monash University Art Collection)

From Mr Richard Harbig, Simpson Desert by Sir Sidney Nolan. (Monash University Art Collection)

Mr S. Bastomsky, Department of Classical Studies. 3-20 Watt fluorescent tubes. Presented to the Classical Studies' Museum.

Mr K. and Mrs N. Strancar, guitar for use in the therapeutic programs, Krongold Centre.

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

Sources of Grants and Donations

	\$000	%
Private donations and indirect Government research grants	2,780	48.2
Australian Research Grants Committee	1,581	27.4
National Health and Medical Research Committee Council	1,387	24.1
Education Research and Development Committee	18	.3
	<u>5,766</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 departmental museums.

The following sums were contributed to University appeal funds during the year: Centre for Human Bioethics \$8,535; The John J. McNeill Memorial Prize Fund \$8,220; The Embryo and Egg Transfer Fund \$9,675; Muscular Dystrophy Research Fund \$13,967; Louis Matheson Organ Appeal Fund \$4,599; Krongold Centre Fund \$6,002; Development Fund \$444; The Library Fund Appeal reached a total of \$397,847.

FINANCE

The following points from the audited accounts of the University for the year 1981 are set out for ready reference.

Funds Available

Recurrent Commonwealth Government funds available for expenditure on recurrent items during the year ended 31 December 1981 were:

	\$000
University — 1981 Grant	69,758
University — Less Balance brought forward from 1980	164 69,594
Teaching Hospitals	278
Halls of Residence	228

Expenditure for recurrent purposes during the year 1981 was:

	University		Teaching Hospitals		Halls of Residence	
	\$000	%	\$000	%	\$000	%
Academic activities	49,988	71.7	278	100.0		
Academic services	6,169	8.9				
Student services	1,355	1.9				
General services	12,086	17.3				
Public services	91	0.1				
Other	84	0.1			228	100.0
	69,773	100.0	278	100.0	228	100.0

Capital Commonwealth Government funds received in 1981 for expenditure on capital projects (buildings and furniture) on the University site totalled \$285,000.

Research Commonwealth Government funds available for expenditure on special research projects in 1981 totalled \$833,000.

Equipment Commonwealth Government funds received in 1981 for expenditure on equipment totalled \$2,096,000.

Union Fees

Union fees payable by students enrolled for the year 1981 were as follows:

Students studying on campus — full time \$160; part time \$100 or \$70.

Students studying off campus in Victoria — full time \$40; part time \$28.

Accounts

The audited accounts of the University for the year 1981 are appended to this report, and provide further details of the year's activities.

General

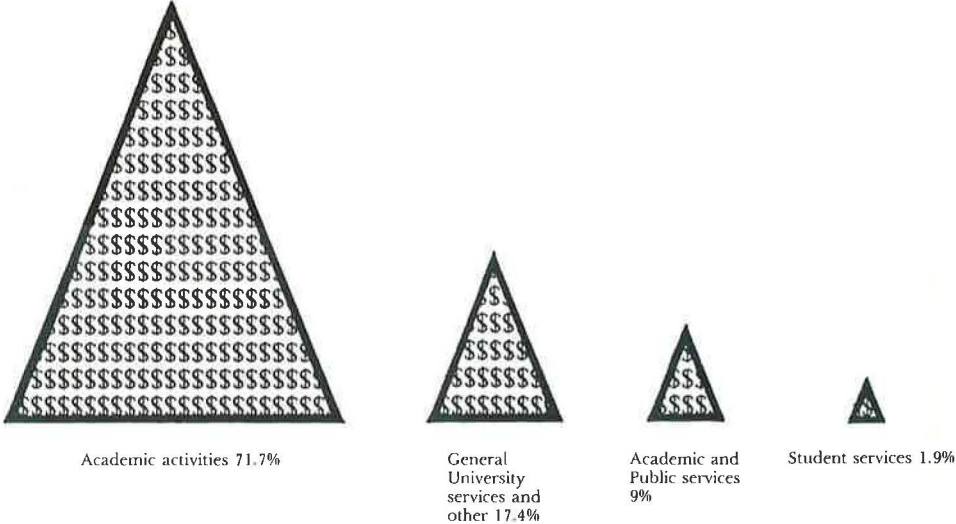
Operating funds from the Commonwealth Government

1981 was the third year of the triennium in which triennial funding was re-introduced after having been suspended for three years.

Reductions in the level of funding for the general operations (recurrent funds) of the University referred to in previous reports continued in 1981 with:

- (i) the 1981 grant being \$218,000 less than the 1980 grant expressed at 1 January 1980 cost levels;

Expenditure of Recurrent Grant — year ended 31 December 1981



- (ii) Government policy of not supplementing grants to cover cost increases of non-salary items during the year of the grant; and
- (iii) 1981 being the last year in which enacted grants will be supplemented for salary cost increases which might occur in the year of the grant.

Grants for the next triennium (1982-84) have been legislated at further reduced levels. Reference was made in the *Report of the Council for 1980* to the great concern of the University at the continuous reduction in the level of funding for general university purposes.

In the report of the Commonwealth Tertiary Education Commission for 1982-84 the Universities Council argued that increases are necessary both in operating and capital funding to restore to an acceptable level the general quality of university activities, to permit the introduction of some new academic developments, and to allow the universities to maintain a state of readiness which will

enable them to respond promptly to future community demands but acknowledgment of these points has not been made in the grants approved by the government for the 1982-84 triennium.

Equipment Funds from the Commonwealth Government

The University considers the level of funding for the purchase of equipment continued to be insufficient to (i) meet the cost of replacing worn and obsolete equipment; and (ii) acquire an acceptable range of new equipment developed with modern technological advances.

When expressed at common cost levels the grant for 1981 was a mere 7.7 per cent increase on the average annual grants for the three years 1973-75. The Commonwealth Tertiary Education Commission for its 1982-84 Report stated that 'if tertiary institutions are to play their proper role in education and training and in research and development for a high technology future, it is essential that they be

provided with an adequate stock of up-to-date equipment'.

New Cost Adjustment Procedures

For the 1982-84 triennium a system of adjusting grants for cost increases on a prospective basis replaces the retrospective cost supplementation arrangements. The funds announced in the Commonwealth budget in August 1981 for the next calendar year will include the Commonwealth government's estimate for prospective cost increases in relation to that year. Universities will receive grants at estimated outturn costs for the next year ending December. There will be no supplementation; and for recurrent funds we must contain our over- or under-expenditure within 1 per cent of the grant. At the time of writing this report it is quite clear that the allowance for cost increases included in the 1982 grant is quite inadequate to enable the University to meet the substantial cost

increase, both in salaries and wages and other costs, which have occurred since the level of the grant was determined.

Superannuation

The new Monash 'M' Scheme, referred to last year, is now well established. During 1981 the Commonwealth Tertiary Education Commission acknowledged the need for improved superannuation for staff in universities, but present indications are that additional funds may be made available only to those institutions which join the proposed National Superannuation Scheme. This University believes that such a decision would be most unfair to those universities which have acted, in good faith, to improve superannuation arrangements whilst at the same time limiting overall superannuation costs well below those which the government is prepared to support in the proposed National Scheme.

ACCOUNTS FOR THE YEAR 1981

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 1981.

R. L. Martin
Vice-Chancellor

L. W. Candy
Comptroller

8 December 1982

AUDITOR-GENERAL'S CERTIFICATE

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

The books and accounts of Monash University for the year ended 31 December 1981 have been audited.

As stated in note 6 to the accounts, certain investments of the Superannuation and Pension Schemes are held in the names of fund managers. These investments 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 statements of account which follow, numbered 1 to 19, together with the accompanying explanatory notes, correctly summarise the financial transactions for the year.

B. J. Waldron
Auditor-General

24 December 1982

Notes to and Forming Part of the Accounts — 1981

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 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 stock 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 Universities Commission in relation to the annual collection of financial statistics.
6. 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 1981 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 1981

	Recurrent Grant	Building Projects Grant	Equipment Grant	Teaching Recurrent Grant	Hospitals Building Projects Grant
	\$	\$	\$	\$	\$
Income					
Commonwealth Government Grants	69,758,000	285,000	2,096,000	278,000	(20,639)
Other					
Total Income	69,758,000	285,000	2,096,000	278,000	(20,639)
<i>Less</i>					
Expenditure					
Academic Activities	49,987,899		1,421,778	278,000	
Academic Services	6,168,816		592,746		
Student Services	1,355,335				
General Services	12,086,457	384,426	35,595		
Public Services	90,871				
Other	84,088				
Total Expenditure	69,773,466	384,426	2,050,119	278,000	—
Surplus (Deficit) for the year	(15,466)	(99,426)	45,881	—	(20,639)
Surplus (Deficit) at 1 January 1981	(163,657)	104,566	193,300	—	20,639
Accumulated Surplus (Deficit) at 31 December 1981	(179,123)	5,140	239,181	—	—

Special Research Grant	Private and Indirect Gov't Research Grants	General Donations	Union Activities	Student Assist. Fund	Union Devel't Fund	General Auxiliary Activities	Fire Ins'ce Fund	Total	1980 Total
\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
833,000	1,580,793					227,659		75,037,813	65,732,514
	3,738,101	593,356	1,643,187	801	1,261,535	5,858,594	22,900	13,118,474	9,847,190
833,000	5,318,894	593,356	1,643,187	801	1,261,535	6,086,253	22,900	88,156,287	75,579,704
814,386	4,932,803	289,703						57,724,569	49,887,725
14,526	25,752	26,400						6,828,240	5,745,156
	277,576	36,785						1,669,696	1,407,188
4,088	5,715	(10,775)			857,047	40,761		13,403,314	13,468,491
		5,919	1,538,834	205	238,318	2,248,107		90,871	73,817
								4,115,471	4,117,743
833,000	5,241,846	348,032	1,538,834	205	1,095,365	2,288,868	—	83,832,161	74,700,120
—	77,048	245,324	104,353	596	166,170	3,797,385	22,900	4,324,126	879,584
—	711,816	1,005,804	86,395	9,132	(639,722)	7,815,128	151,812	9,295,213	8,415,629
—	788,864	1,251,128	190,748	9,728	(473,552)	11,612,513	174,712	13,619,339	9,295,213

(2) **Recurrent Grant**
Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
59,997,000	Income	
59,997,000	Commonwealth Government Grant	69,758,000
	Total Income	69,758,000
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
38,157,642	Salaries and Related Items	44,669,631
2,544,289	Maintenance	2,650,186
993,272	Computing Services	1,100,945
666,943	Equipment	603,461
181,432	Outside Studies Program	152,387
66,976	New Appointments	55,714
767,893	Other Items	755,575
43,378,447		49,987,899
	<i>Academic Services</i>	
	Libraries —	
2,827,726	Salaries and Related Items	3,293,020
1,388,195	Books and Journals	1,443,301
136,589	Maintenance	274,291
82,460	Computing Services	117,299
40,828	Equipment	7,720
6,939	Other Items	2,635
4,482,737		5,138,266
	Computing —	
826,777	Salaries and Related Items	1,184,946
130,729	Maintenance	178,787
83,504	Equipment	485Cr.
1,209,884Cr.	Recoveries	1,340,456Cr.
398	Other Items	6,299
168,476Cr.		29,091
	Other Academic Services —	
923,884	Salaries and Related Items	1,013,387
87,878	Other Items	11,928Cr.
1,011,762		1,001,459
48,704,470	<i>Sub-total carried forward</i>	56,156,715

(2) Recurrent Grant
Statement of Income and Expenditure for the year ended 31 December 1981 (continued)

1980 \$		1981 \$
48,704,470	<i>Sub-Total brought forward</i>	56,156,715
	<i>Student Services</i>	
497,961	Salaries and Related Items	608,020
694,141	Scholarships	728,310
20,050	Other Items	19,005
<u>1,212,152</u>		<u>1,355,335</u>
	<i>General Services</i>	
	Administration —	
3,813,952	Salaries and Related Items	4,637,142
134,164	Computing Services	147,984
114,951	Other Items	81,746
<u>4,063,067</u>		<u>4,866,872</u>
	Overheads —	
612,292	Postage, Telephone and Advertising	661,758
61,288	Furniture and Furnishings	56,745
785,562	Power, Lighting and Heating	920,700
564,472	Other Items	644,435
<u>2,023,614</u>		<u>2,283,638</u>
	Buildings and Grounds —	
3,015,167	Salaries and Related Items	3,315,723
1,149,644	Maintenance	1,301,537
176,741	Other Items	318,687
<u>4,341,552</u>		<u>4,935,947</u>
	<i>Public Services</i>	
	Continuing Education —	
71,797	Salaries and Related Items	91,047
2,020	Other Items	176Cr.
<u>73,817</u>		<u>90,871</u>
66,123	<i>Union Administration</i>	84,088
<u>60,484,795</u>	Total Expenditure	<u>69,773,466</u>
487,795	Deficit for the year	15,466
324,138(S)	Deficit at 1 January 1981	163,657
<u>163,657</u>	Accumulated Deficit at 31 December 1981	<u>179,123</u>

(3) Building Projects Grant

Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
1,546,000	Income	
<u>1,546,000</u>	Commonwealth Government Grant	<u>285,000</u>
	Total Income	<u>285,000</u>
	<i>Less</i>	
1,454,894	Expenditure	
26,590	New Buildings	380,144
39,453	Furniture and Furnishings	3,823
	Site Development	459
740	Teaching and Research —	
<u>1,521,677</u>	Equipment	<u>—</u>
	Total Expenditure	<u>384,426</u>
24,323(S)	Deficit for the year	<u>99,426</u>
80,243	Surplus at 1 January 1981	<u>104,566</u>
<u>104,566</u>	Accumulated Surplus at 31 December 1981	<u>5,140</u>

(4) **Equipment Grant**

Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
1,832,000	Income	
<u>1,832,000</u>	Commonwealth Government Grant	<u>2,096,000</u>
	Total Income	<u>2,096,000</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
1,523,007	Teaching and Research — Equipment	<u>1,421,778</u>
	<i>Academic Services</i>	
55,757	Libraries —	53,962
<u>55,757</u>	Books and Journals	<u>45,098</u>
247,432	Equipment	<u>99,060</u>
<u>35,847</u>	Computing	<u>448,919</u>
	Other Academic Services	<u>44,767</u>
	<i>General Services</i>	
119,565	Administration	29,009
<u>890</u>	Buildings and Grounds	<u>6,586</u>
120,455		<u>35,595</u>
<u>1,982,498</u>	Total Expenditure	<u>2,050,119</u>
150,498(D)	Surplus for the year	<u>45,881</u>
<u>343,798</u>	Surplus at 1 January 1981	<u>193,300</u>
<u>193,300</u>	Accumulated Surplus at 31 December 1981	<u>239,181</u>

(5) Teaching Hospitals: Recurrent Grant

Statement of Income and Expenditure for the year ended 31 December 1981

1980		1981
\$		\$
239,000	Income	
239,000	Commonwealth Government Grant	278,000
	Total Income	278,000
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
239,000	Teaching and Research —	278,000
239,000	Maintenance	
	Total Expenditure	278,000
—	Surplus for the year	—

(6) Teaching Hospitals: Building Projects Grant

Statement of Income and Expenditure for the year ended 31 December 1981

1980		1981
\$		\$
—	Income	
—	Commonwealth Government Grant	20,639Dr.
	Total Income	20,639Dr.
	<i>Less</i>	
	Expenditure	
6Cr.	New Buildings	—
6Cr.	Total Expenditure	—
6(S)	Deficit for the year	20,639
20,633	Surplus at 1 January 1981	20,639
20,639	Accumulated Surplus at 31 December 1981	—

(7) Special Research Grant

Statement of Income and Expenditure for the year ended 31 December 1981

1980		1981
\$		\$
714,000	Income	
<u>714,000</u>	Commonwealth Government Grant	833,000
	Total Income	<u>833,000</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
509,263	Salaries and Related Items	638,710
166,643	Maintenance	157,104
4,652	Computing Services	97
16,464	Other Items	18,475
<u>697,022</u>		<u>814,386</u>
	<i>Academic Services</i>	
	Other Academic Services —	
11,131	Salaries and Related Items	14,526
<u>5,847</u>		<u>4,088</u>
	<i>General Services</i>	
	Postage, Telephone and Advertising	4,088
<u>714,000</u>	Total Expenditure	<u>833,000</u>
<u>—</u>	Surplus for the year	<u>—</u>

**(8) Private and Indirect Government Research Grants
Statement of Income and Expenditure for the year ended 31 December 1981**

1980 \$		1981 \$
1,203,944	Income	
	Commonwealth Government Grant	1,580,793
	Grants and Donations	
1,815,741	Government-financed Bodies	2,158,627
916,533	Other	1,579,474
2,732,274		3,738,101
3,936,218	Total Income	5,318,894
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
2,644,609	Salaries and Related Items	3,426,642
695,792	Maintenance	933,575
1,461	Computing Services	—
385,319	Equipment	444,947
102,454	Other Items	127,639
3,829,635		4,932,803
	<i>Academic Services</i>	
	Other Academic Services —	
7,204	Salaries and Related Items	18,793
4,876	Other Items	6,959
12,080		25,752
	<i>Student Services</i>	
	Salaries and Related Items	—
11,185	Scholarships	277,876
164,852	Other Items	300Cr.
2,365		277,576
178,402		277,576
	<i>General Services</i>	
4,499	Postage, Telephone and Advertising	5,124
279	Furniture and Furnishings	591
549	Buildings Maintenance	—
5,327		5,715
4,025,444	Total Expenditure	5,241,846
89,226(D)	Surplus for the year	77,048
801,042	Surplus at 1 January 1981	711,816
711,816	Accumulated Surplus at 31 December 1981	788,864

(9) General Donations
Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
	Income	
	Donations	
38,469	Government-financed Bodies	31,057
401,966	Other	402,893
<u>440,435</u>		<u>433,950</u>
	Appeals	
6,172	Robert Blackwood Hall — Organ	4,599
44,036	Library Books	42,994
10,420	Other	6,466
<u>60,628</u>		<u>54,059</u>
<u>62,365</u>	Other Income	<u>105,347</u>
<u>563,428</u>	Total Income	<u>593,356</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
107,038	Salaries and Related Items	156,494
40,456	Maintenance	35,855
16,675	Equipment	28,844
55,705	Other Items	68,510
<u>219,874</u>		<u>289,703</u>
	<i>Academic Services</i>	
	Libraries —	
28,489	Salaries and Related Items	13,008
15,866	Books and Journals	7,991
250	Maintenance	—
777	Computing Services	—
125	Other Items	1,874
<u>45,507</u>		<u>22,873</u>
	Other Academic Services —	
11,170	Salaries and Related Items	710
209	Other Items	2,817
<u>11,379</u>		<u>3,527</u>
<u>276,760</u>	<i>Sub-Total carried forward</i>	<u>316,103</u>

(9) General Donations

Statement of Income and Expenditure for the year ended 31 December 1981 (continued)

1980		1981
\$		\$
276,760	<i>Sub-Total brought forward</i>	316,103
	<i>Student Services</i>	
15,567	Scholarships	28,887
1,067	Other Items	7,898
16,634		36,785
	<i>General Services</i>	
	Administration —	
1,448	Other Items	—
	Overheads —	
1,809	Furniture and Furnishings	327
—	Postage, Telephone and Advertising	212
1,809		539
	Buildings and Grounds —	
472	New Buildings	11,838Cr.
1,758	Maintenance	524
2,230		11,314Cr.
	<i>Other Items</i>	
619	Union Activities	2,428
	<i>Appeals</i>	
156,234	Robert Blackwood Hall — Organ	23,207Cr.
44,061	Library Books	—
6,970	Other	26,698
207,265		3,491
506,765	Total Expenditure	348,032
56,663	Surplus for the year	245,324
949,141	Surplus at 1 January 1981	1,005,804
1,005,804	Accumulated Surplus at 31 December 1981	1,251,128

Note: Gifts in kind are detailed on page 98 of this Report.

(10) Union Activities

Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
1,310,539	Income	
184,407	Union Fees	1,443,694
<u>1,494,946</u>	Other	<u>199,493</u>
	Total Income	<u>1,643,187</u>
	<i>Less</i>	
313,468	Expenditure	
208,557	Sports and Recreation Association	322,985
127,245	Monash Association of Students	255,802
199,268	Clubs and Societies Council	138,161
167,096	Union Tuition and Courses	224,115
461,985	Union Building Management	121,038
	Union Administration and Special Projects	503,342
	Business Activities —	
121,302(D)	Catering — Operating Deficit	(D) 32,997
4,562(D)	Other — Operating Surplus	(S) 19,403
<u>1,603,483</u>		<u>13,594</u>
		1,579,037
37,283	<i>Less</i>	
<u>1,566,200</u>	Contribution by University for use of facilities by staff	40,203
	Total Expenditure	<u>1,538,834</u>
71,254(D)	Surplus for the year	104,353
157,649	Surplus at 1 January 1981	86,395
<u>86,395</u>	Accumulated Surplus at 31 December 1981	<u>190,748</u>

(11) Student Assistance Fund

Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
544	Income	
139	<i>Less</i>	801
<u>405</u>	Expenditure	<u>205</u>
8,727	Surplus for the year	596
<u>9,132</u>	Surplus at 1 January 1981	<u>9,132</u>
	Accumulated Surplus at 31 December 1981	<u>9,728</u>

(12) Union Development Fund
Statement of Income and Expenditure for the year ended 31 December 1981

1980		1981
\$		\$
	Income	
434,196	Union Development Fees	476,455
284,135	Rentals and Other	785,080
<u>718,331</u>	Total Income	<u>1,261,535</u>
	<i>Less</i>	
	Expenditure	
	<i>General Services</i>	
447,859	New Buildings	747,667
130,491	Maintenance — Buildings	102,132
9,299	Furniture and Furnishings	7,248
<u>587,649</u>		<u>857,047</u>
	<i>Other Items</i>	
51,733	Equipment	65,639
78,424	Occupancy Expense	89,827
101,530	Other Items	82,852
<u>231,687</u>		<u>238,318</u>
<u>819,336</u>	Total Expenditure	<u>1,095,365</u>
101,005(D)	Surplus for the year	166,170
<u>538,717</u>	Deficit at 1 January 1981	<u>639,722</u>
<u>639,722</u>	Accumulated Deficit at 31 December 1981	<u>473,552</u>

(13) **General Auxiliary Activities**

Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
	Income	
	Commonwealth Government Grant:	
	Halls of Residence	227,659
200,570	Outside Earnings	2,811,278
2,313,732	Other Income	3,047,316
2,006,639		
<u>4,520,941</u>	Total Income	<u>6,086,253</u>
	<i>Less</i>	
	Expenditure	
	<i>General Services</i>	
	Overheads —	
	Furniture and Furnishings	3,523
11,419	Buildings and Grounds —	
	New Buildings	15,630
642,394	Site Acquisition	6,423
104,198	Maintenance	15,185
36,551		
<u>783,143</u>		<u>37,238</u>
	<i>Other Items</i>	
	University Bookshop	11,275
7,008	Halls of Residence —	
	Commonwealth Government Grant	227,659
200,570	Operating Result	38,137Cr.
7,341Cr.	South East Flats	32,600Cr.
27,454Cr.	Owned Houses and Transit Flats	4,755Cr.
23,158Cr.	Outside Earnings	2,121,463
1,872,784	Other	36,798Cr.
23,301		
<u>2,045,710</u>		<u>2,248,107</u>
<u>2,840,272</u>	Total Expenditure	<u>2,288,868</u>
1,680,669	Surplus for the year	3,797,385
6,134,459	Surplus at 1 January 1981	7,815,128
<u>7,815,128</u>	Accumulated Surplus at 31 December 1981	<u>11,612,513</u>

(14) **Fire Insurance Fund**

Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
	Income	
17,296	Income from Investments	22,900
	<i>Less</i>	
	Expenditure	
<u>17,296</u>	Surplus for the year	<u>22,900</u>
134,516	Surplus at 1 January 1981	151,812
<u>151,812</u>	Accumulated Surplus at 31 December 1981	<u>174,712</u>

(16) Donor-Nominated Trust Funds

Statement of Income and Expenditure for the year ended 31 December 1981

1980		1981
\$		\$
7,506	Income	
	Income from Investments	7,875
<u>7,506</u>	Total Income	<u>7,875</u>
	<i>Less</i>	
	Expenditure	
900	Max Buxton Scholarship	675
400	Graham John Beard Memorial Fund	3,549
500	J.W. Dodds Memorial Scholarship	1,050
700	Vallejo Gantner Memorial Travel Fund	700
1,335	Oscar Mendelsohn Lecture	—
106	Monash University Rowing Club	109
245	W.P. and H.E. O'Shea Fund	250
50	The David B. Rosenthal Memorial Trust	50
2,000	William and Katherine Winter Foundation	2,100
<u>6,236</u>	Total Expenditure	<u>8,483</u>
<u>1,270(S)</u>	Deficit for the year	<u>608</u>

Balance Sheet at 31 December 1981

1980		1981
\$		\$
106,175	Accumulated Funds	
1,270(S)	Funds at 1 January 1981	107,445
	Deficit for the year	608
<u>107,445</u>	Total Accumulated Funds	<u>106,837</u>
	<i>Represented by:</i>	
	Investments	
1,000	Government Securities, at cost	1,000
63,000	Semi-government Securities, at lower of cost or par	63,500
27,960	Fixed-interest Securities, at lower of cost or par	27,960
3,272	Ordinary Shares, at cost	3,785
	(Market Value — 31 December 1981 — \$5,355 31 December 1980 — \$7,474)	
<u>95,232</u>		<u>96,245</u>
	Current Assets	
11,700	Fixed Deposit Stock	10,500
513	Cash at Bank	92
<u>12,213</u>		<u>10,592</u>
<u>107,445</u>	Total Assets	<u>106,837</u>

(17) Students' Loan Fund

Statement of Income and Expenditure for the year ended 31 December 1981

1980		1981
\$		\$
2,347	Income	
615	Interest on Loans	2,921
257	Interest on Term Deposit	—
	Bank Interest	803
<u>3,219</u>	Total Income	<u>3,724</u>
	<i>Less</i>	
2,029	Expenditure	
	Loans Written Off	40
<u>2,029</u>	Total Expenditure	<u>40</u>
<u>1,190</u>	Surplus for the year	<u>3,684</u>

Balance Sheet at 31 December 1981

1980		1981
\$		\$
145,372	Accumulated Fund	
1,190	Fund at 1 January 1981	146,562
	Surplus for the year	3,684
<u>146,562</u>	Total Accumulated Fund	<u>150,246</u>
	<i>Represented by:</i>	
131,550	Loans to Students	
3,085	Principal	107,462
	Accrued Interest	3,790
<u>134,635</u>		<u>111,252</u>
11,927	Cash at Bank	38,994
<u>146,562</u>	Total Assets	<u>150,246</u>
(S)		
1,270		

(18) Assistance to Students in Need Fund
Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
	Income	
9,140	Interest on Term Deposits	13,356
1,853	Interest on Loans	1,391
683	Bank Interest	811
<u>11,676</u>	Total Income	<u>15,558</u>
	<i>Less</i>	
	Expenditure	
650	Grants paid to Students during the year	2,535
15	Other	41
<u>665</u>	Total Expenditure	<u>2,576</u>
<u>11,011</u>	Surplus for the Year	<u>12,982</u>

Balance Sheet at 31 December 1981

1980 \$		1981 \$
	Accumulated Fund	
186,817	Fund at 1 January 1981	197,828
11,011	<i>Add</i>	
	Surplus for the year	12,982
<u>197,828</u>	Total Accumulated Fund	<u>210,810</u>
	<i>Represented by</i>	
	Term Deposits	
35,000	Principal	15,000
3,462	Accrued Interest	1,183
<u>38,462</u>		<u>16,183</u>
	Deposit held by University	
70,000	Principal	70,000
2,013	Accrued Interest	10,290
<u>72,013</u>		<u>80,290</u>
	Loans to Students	
55,012	Principal	89,705
2,816	Accrued Interest	2,836
<u>57,828</u>		<u>92,541</u>
29,525	Cash at Bank	21,796
<u>197,828</u>	Total Assets	<u>210,810</u>

(19) Superannuation and Pension Schemes
Statement of Income and Expenditure for the year ended 31 December 1981

1980 \$		1981 \$
	Income	
779,906	Members' Contributions	2,221,944
1,400,080	University's Contributions	4,400,659
—	Appreciation of Managed Funds	1,930,302
1,545,872	Income from other Investments	1,831,092
82,431	Maturity of Endowment Policies	70,903
<u>3,808,289</u>	Total Income	<u>10,454,900</u>
	<i>Less</i>	
	Expenditure	
424,174	Benefit Payments to Members	835,705
233,710	Payments on Withdrawal	196,324
12,269	Other Payments	57,318
<u>670,153</u>	Total Expenditure	<u>1,089,347</u>
3,138,136	Surplus for the year	9,365,553
—	Extraordinary Income —	
—	Surrender of Endowment Policies	6,988,663
12,136,001	Value of Endowment Policies transferred to 'M' Scheme	<u>14,310,721</u>
<u>15,274,137</u>	Surplus at 1 January 1981	<u>15,274,137</u>
	Accumulated Surplus at 31 December 1981	<u>45,939,074</u>

(19) Superannuation and Pension Schemes
Balance Sheet at 31 December 1981

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

1980 \$		1981 \$
<u>15,274,137</u>	Accumulated Funds	
	Accumulated Surplus	<u>45,939,074</u>
	<i>Represented by:</i>	
	Investments	
9,396,520	Fixed-interest Securities at cost	8,079,473
2,518,543	Ordinary Shares, at cost	2,283,693
	(Market Value:	
	31 December 1981 —	
	\$2,642,721	
	31 December 1980 —	
	\$3,835,944)	
	Property Investment Trust	
	Units	
2,312,740	at cost	2,602,059
	(Market Value:	
	31 December 1981 —	
	\$2,967,200	
	31 December 1980 —	
	\$2,487,277)	
	Investments in Managed	
	Funds —	
	Australian Mutual	
—	Provident Society	15,914,344
	National Mutual Life	
—	Association of	
	Australasia Limited	14,081,440
—	Wales Management Pty.	
	Limited	<u>2,000,000</u>
<u>14,227,803</u>		<u>31,995,784</u>
	Current Assets	
—	Cash in Transit	156,902
1,250,333	University Current Account	<u>847,813</u>
<u>1,250,333</u>		1,004,715
	<i>Less:</i>	
	Current Liabilities	
	Members' Contributions and	
	Maturity Proceeds on hand at	
	31 December	
203,999	(awaiting disbursement)	23,140
—	Accrued Charges	<u>3,510</u>
<u>203,999</u>		26,650
1,046,334		<u>978,065</u>
<u>15,274,137</u>	Total Assets	<u>45,939,074</u>

APPENDIX I

Changes in the Membership of Council during 1981

Members who retired or resigned from office during 1981

Professor M.J.P. Canny (Professors) 1977-81; Mr P. Golding (Graduate Students) 1979-81; The Honourable Mr Justice McGarvie (Faculty of Law) 1980-81; Mr N.M. McInnes (Parliament of Victoria) 1977-81; Professor P.W. Musgrave (Co-opted Dean) 1980-81; Mrs J. Strauss (Teaching Staff Other than Professors) 1978-81.

Members re-elected or re-appointed for a further term of office during 1981

Mr C.B. Goode (Faculty of Economics and Politics) 1981-85; Dr P.F. Hutson (Co-opted) 1981-85; Mr R.J.N. Kinsman (Faculty of Engineering) 1981-85; Mr H.M. McKenzie (Governor in Council) 1981-85; Sir James McNeill (Governor in Council) 1981-85;

Emeritus Professor D.H. Monro (Faculty of Arts) 1981-85; Mr S.S. Nevile (Governor in Council) 1981-85.

Members elected or appointed to Council during 1981

Miss S.E. Armstrong (Undergraduate and Diploma Students) 1981-83; Professor J.W. McCarty (Professors) 1981-85; Professor G.C. Schofield (Co-opted Dean) 1981-82; The Honourable Mr Justice Tadgell (Faculty of Law) 1981-85; Mr T.C. Trewin (Parliament of Victoria) 1981-83; Mr B.M. Watson (Graduate Students) 1981-83.

Vacancies in the membership of Council as at 31 December 1981

One Governor in Council appointee representing the interests of agriculture, the professions, industry, and commerce.

