

Monash University



Annual Report 1984

Monash University



Annual Report 1984

Monash University
Annual Report 1984
ISSN 0814-8597

Published by
Monash University
Clayton Victoria 3168
Australia

Telephone: 541 0811
Telegrams: Monashuni Melbourne
Telex: AA 32691

Typeset by Abb-typesetting Pty Ltd
Collingwood Victoria

Printed by Brown Prior Anderson Pty Ltd
Burwood Victoria

**The Report of the Council
of Monash University for
the period 1 January 1984
to 31 December 1984**

In accordance with Section 41 of the Monash
University Act 1958, as amended, I submit
the Report of the Council for 1984.

For and on behalf of the Council

**G.H. Lush
Chancellor**



CONTENTS

The Council	1
Report of the Chancellor	3
Report of the Vice-Chancellor	5
Development and administration	10
Staff	12
Academic developments	14
Degrees and diplomas conferred	14
Annual examination pass rates	16
Student enrolment	17
Faculty of Arts	21
Faculty of Economics and Politics	25
Faculty of Education	28
Faculty of Engineering	31
Faculty of Law	34
Faculty of Medicine	38
Faculty of Science	42
Library	46
University facilities	49
Alexander Theatre	49
Monash University Bookshop	49
Religious Centre	50
Careers and Appointments	50
University Counselling	51
Students' Grants and Loans Committee	52
Student Housing	52
Halls of Residence	52
Health Service	52
Research centres	54
Aboriginal Research Centre	54
Computer Centre	55
Centre for Continuing Education	57
Graduate School of Environmental Science	58
Higher Education Advisory and Research Unit	59
Student activities	60
Orientation	60
Union — administration and general	60
Clubs and Societies	62
Sports and Recreation Association	62
Monash Association of Students	63
Arts and Crafts Centre	63
Monash Association of Graduate Students	64
Gifts and Grants	65
Finance	103
Accounts for the year 1984	105



THE COUNCIL

Members of Council as at 31 December 1984

Members ex officio

The Honourable Sir George Hermann Lush,
LL.M.(Melb.) — *Chancellor*
Raymond Leslie Martin, M.Sc.(Melb.), Ph.D.,
Sc.D.(Cantab.), D.Sc.(A.N.U.), F.R.A.C.I.,
F.R.S.C., F.A.A. — *Vice-Chancellor*

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

The Honourable James Vincent Chester
Guest, M.A.(Oxon.), M.B.A.(Melb.),
Barrister-at-Law of Lincoln's Inn,
Barrister-at-Law (Vic.), M.L.C.
Edward James Hann, M.P.
Gerard Marshall Vaughan, A.R.M.I.T.,
Dip.Ed.(S.C.V.), B.E., M.Eng.Sc., Ph.D.,
A.R.A.C.I., M.P.

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

Geoffrey Alistair Knights, M.A., Ph.D.
(Cantab.)
Jan Eric Kolm, A.O., Eng.Chem.(Prague
Tech. Uni.), F.R.A.C.I., F.A.I.M., F.T.S.
Hugh Mitchell McKenzie
Sir James Charles McNeill, C.B.E.,
Hon.D.Sc.(N'cle), F.A.S.A., F.A.I.M.
Nigel Wood, B.Ec.(N.E.)

Elected by graduates of the University

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

Elected by the Faculties

David Hector Monro, M.A.(N.Z.), F.A.H.A.,
F.A.S.S.A. (*Arts*)
Charles Barrington Goode, B.Com.(Melb.),
M.B.A.(Col.), A.A.S.A. (*Economics and
Politics*)
Winifred McDonell, B.A., M.Ed., Dip.Ed.,
F.A.C.E. (*Education*)

Robert John Neil Kinsman,
B.Mech.E.(Melb.), C.Eng., F.I.Mech.E.,
M.Aust.I.M.M. (*Engineering*)
The Honourable Mr Justice Robert Clive
Tadgell, LL.B.(Melb.) (*Law*)
Nigel John Gray, A.M., M.B., B.S.(Melb.),
F.R.A.C.P., F.R.A.C.M.A. (*Medicine*)
Hugh Alexander Grayson, F.M.T.C.,
C.Chem., F.R.A.C.I., F.I.D.A., F.A.I.M.
(*Science*)

Elected by the Professors

John William McCarty, B.Com.(Melb.),
Ph.D.(Cantab.), F.A.S.S.A.
Ian James Polmear, B.Met.E., M.Sc.,
D.Eng.(Melb.), F.T.S., F.I.M., F.I.E.Aust.
Bruce Oswald West, B.Sc.(Adel.), Ph.D.(Adel.
and Cantab.), F.R.A.C.I.
Jean Primrose Whyte, B.A.(Adel.),
A.M.(Chic.), F.L.A.A.

Elected by teaching staff other than the Professors

Peter LePoer Darvall, B.C.E.(Melb.),
M.S.(Ohio State), M.S.E., M.A.,
Ph.D.(Prin.), Dip.Ed., M.I.E.Aust.
Ian McCance, M.Sc.(Melb.), Ph.D.
Martin George Sullivan, M.A., B.Ed.(Q'ld.),
Ph.D.

Appointed by the Minister for Education

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

Co-opted

Keith Thomas Henry Farrer, O.B.E.,
M.A.(La T.), D.Sc.(Melb.), C.Chem.,
F.R.I.C., F.R.A.C.I., F.I.F.S.T.(U.K.),
F.A.I.F.S.T., F.T.S.
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*
Rachelle Anne Lewitan, B.A.,
LL.B.(Hons.)(Melb.)

Co-opted from among the Deans of the Faculties

Robert Baxt, B.A., LL.B.(Hons.)(Syd.), LL.M.(Harv.), Solicitor (N.S.W.), Barrister and Solicitor (Vic.)
Lance Aubrey 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.

Elected by the non-academic staff

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

Elected by the students of the University

Hugh Christopher Cameron
Dudley Dissanayake, B.A.(S.Lanka), M.S.W.(Minn.)
Susan Regine Thomson
Secretary: Mr M.D. Watson

Changes in Membership of Council during 1984

Members who retired or resigned from office during 1984

The Honourable W.R. Baxter (Governor in Council — Parliament) 1982-84; Professor L.A. Endersbee (Co-opted Dean) 1983-84; Mr J.J. Lenders (Undergraduate and Diploma Students) 1983-84; and Mr M.W. Oldmeadow (Faculty of Education) 1978-84.

Members re-elected or re-appointed for a further term of office during 1984

Dr K.T.H. Farrer (Co-opted) 1984-88; and Mr A.H. May (Graduates) 1984-88.

Members elected or appointed to Council during 1984

Professor R. Baxt (Co-opted Dean) 1984-85; Mr E.J. Hann (Governor in Council — Parliament) 1984-87; Miss R.A. Lewitan (Governor in Council) 1984-87; Mrs W. McDonell (Faculty of Education) 1984-86; and Ms S.R. Thomson (Undergraduate and Diploma Students) 1984-86.

Vacancies in the membership of Council as at 31 December 1984

One co-opted member.

REPORT OF THE CHANCELLOR

THE HONOURABLE SIR GEORGE LUSH, LL.M.(Melb.)

As is usual, the Council met on ten occasions in 1984, in the months of March to December inclusive. I chaired eight of these meetings and the Deputy Chancellor, Dr Isaac, chaired the meetings in July and August during my absence. Changes in the membership of Council during the year are recorded following the listing of current members at the beginning of this report. I am grateful to all who served on Council and its committees in 1984 for their positive contribution to the government of Monash University.

Of the many issues considered by Council during the year, several stand out because of the discussion they attracted or in view of their significance for the future well-being of the University. At its March and April meetings, Council debated at length whether or not Monash University should accept an invitation to become a collaborating institution of the Indira Gandhi International Peace Foundation. It eventually did, but not before a number of members had expressed misgivings about being associated with an organisation incorporating the name of a living politician in its title. There is irony in the subsequent tragic event that rendered these misgivings inapplicable.

During the early months of the year, Monash, together with Melbourne and La Trobe Universities, negotiated and executed an Exchange Agreement with Nanjing University of China. The agreement provides a basis for the exchange of both staff and students.

Steps were taken to increase the effectiveness of the University's efforts to use the skills available within the University as a means of obtaining non-government funds. These are mentioned in the Vice-Chancellor's report, as also is the debate which occurred at the November and December meetings of Council in regard to a proposal that Monash should enter into a commercial agreement to market in the United States its internationally acclaimed expertise in the field of *in vitro* fertilisation. This matter remained unresolved at the end of the

year.

Also at its November meeting, Council took the important step of deciding to join the Superannuation Scheme for Australian Universities. The basis of this scheme was developed jointly by the Australian Vice-Chancellors' Committee and the Federation of Australian University Staff Associations to overcome the many inadequacies of the endowment assurance-based FSSU scheme. The fact that Monash had confronted these difficulties some years earlier and established its own 'M' superannuation scheme only made this decision harder.

Pursuant to a report by Mr Justice Tadgell received by Council early in the year, planning and legislation were initiated directed towards a major reorganisation of student affairs by separating from the University Union the Sports and Recreation Association and giving the latter a separate identity. This work was still progressing at the end of the year.

Perhaps the most significant action undertaken by Council in 1984 was the establishment in October of a search committee under my chairmanship to recommend the appointment of a successor to Professor R.L. Martin as Vice-Chancellor of Monash University, as of 1 February 1987. Professor Martin advised me in September that he would not be seeking reappointment to the office of Vice-Chancellor at the end of his ten-year term on 31 January 1987. We have thus embarked on the long and difficult task of trying to secure the services of the right person to lead Monash into the 1990s.

Council conferred the title of Emeritus Professor upon Professor J.M. Swan at its September meeting to mark his retirement as Dean of the Faculty of Science on 3 August. In November, Council conferred similar titles on Professor S.R. Davis of the Department of Politics, Professor Sir Edward Hughes of the Department of Surgery, and Professor R.C. Nairn of the Department of Pathology and Immunology to mark their retirements from the University as of 31

Professor John Swan who retired in August as Dean of the Faculty of Science is pictured with the Vice-Chancellor, Professor Ray Martin. The drawing of Professor Swan is by Melbourne artist Rick Amor.

— Photo *Richard Crompton*



December. At graduation ceremonies held during the year, the following honorary degrees were conferred:

- Robert Hanbury Brown — Doctor of Science;
- Howard Arthur Wills — Doctor of Engineering;

- Sydney Stephen Dunn — Doctor of Laws; and
- Sir Bernard James Callinan — Doctor of Engineering.

The degrees conferred at seven public ceremonies and those which were conferred *in absentia* are listed elsewhere in this report.

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.

1984, which one hoped might herald the dawn of a brave new world for universities, was rather the sunset of the old triennium. Much of the year was spent marking time, awaiting the outcome of issues that were likely to have a direct bearing on the University's operation but which were beyond its capacity to influence — issues such as funding levels for the new 1985–87 triennium, moves to restructure the post-compulsory years of secondary schooling in Victoria, and foreshadowed action by the Commonwealth Government in regard to its policy on overseas students. Internally, it was a year that saw some of the more human aspects of the University's life — industrial relations, safety matters, superannuation, occupational health and the like — overshadow in terms of administrative time, the prime activities of teaching and research.

We commenced the final year of the 1982–84 triennium with a Commonwealth grant down \$20,000 in real terms on the previous year. Coming as it did on top of previous cuts of \$210,000 and \$1,370,000 in 1983 and in 1982 respectively, the University again faced a year of continuing strained financial circumstances. In an effort to make ends meet, our 1984 operating budget of \$84.4m was supplemented by some \$1.5m from the fledgling Monash University Foundation and, even then, an over-budget of \$200,000 was needed to meet our inescapable commitments. I have commented in previous reports on the compounding effect that increasing costs have had on restricted funding levels. This problem is now more worrying than ever. In addition to the accustomed costs of incremental creep and promotions, the University, along with the rest of the community, has been operating in a climate of sharply increasing costs, especially in the areas of government charges and workers' compensation. In 1984, our workers' compensation premium for the first time topped \$1m, which makes it a very significant cost area. Perhaps the most unproductive area of pressure is the increasing

proportion of staff time devoted to servicing the needs of government-inspired initiatives such as the Freedom of Information Act, the Administrative Appeals Tribunal, and a seemingly endless array of questionnaires, surveys, submissions, and returns required by government departments and their agencies, which detracts attention and resources from our prime objects of training students and pursuing scholarship.

Volume 1 of the *Commonwealth Tertiary Education Commission Report for 1985–87* was released in May, and recommended that the Government should make significant increases in the funding of tertiary education in an attempt to 'reverse the neglect and deterioration' which it claimed had resulted from the years of 'steady state' and reduced funding that began in the late 1970s. Substantial increases were recommended for recurrent, equipment, and capital expenditure. The Government's reaction to these recommendations was included in its Guidelines to the C.T.E.C. for the 1985–87 triennium, released by the Minister in early July. These guidelines did include welcome increases in funding in the recurrent, equipment, and capital areas, amounting to 2.8 per cent in real terms. Most of this additional funding, however, will be absorbed by the 15,000 additional places the Government is creating in the newer universities and colleges as part of its access and equity program. The Government's commitment to continuing the centres of excellence program and to the maintenance of special research grants at existing levels was welcomed and a great deal of interest was generated by its proposal to fund Key Centres for Teaching and Research, to promote the concentration of advanced tuition and research around areas of demonstrated academic strength. In its *Report for the 1985–87 Triennium, Volume 2*, released in early October, the C.T.E.C. recommended essentially constant funding for Monash University for the following three years, with the faint prospect of some supplementary funding for 1985 and 1986. One

disturbing recommendation gave notice of the phasing out of the traditional subsidies for student residences by the end of 1986. Funds will be diverted instead to establish a new assistance fund for needy students.

One initiative of the Victorian Government proved to be most advantageous for the University. As part of the Government's Offset Program, Burroughs Corporation Limited provided Monash, for the sum of one dollar, a triple processor B7800 computer system and all programming systems for the benefit of the University and selected Victorian commercial, industrial, and government organisations. This addition makes the Monash Computer Centre one of the best equipped in the State. Access to its facilities and the expertise of its staff are provided free of charge to a limited number of projects approved by the Department of Economic Development and is proving a welcome fillip to innovation on a number of fronts.

In my last report I spoke of the University's concern that the Commonwealth and State governments had not resolved the question of funding for the Monash Clinical School at the relocated Queen Victoria Medical Centre in Clayton. Ultimately, in late October the Minister committed Commonwealth funds to the project but only for \$6.3m of the estimated total cost of some \$7.85m with no actual payments promised until the 1988-90 triennium. In other capital developments, extensions to the Departments of Materials and Chemical Engineering and the new Computing Laboratory were completed, and plans were drawn up for a new Multi-discipline Building, which will incorporate our long-awaited art gallery. Although completed last year, we were honoured that the Premier, The Hon. John Cain, accepted our invitation to open the Japanese Studies Centre on 24 February.

Proposed changes to the structure and curriculum of the senior years of secondary schooling in Victoria evoked much com-

ment during 1984. Of particular concern to the universities were the VISE Report, *Towards a Revised Policy on Curriculum and Assessment in the Victorian Year 12 H.S.C. Program*, and the *Ministerial Review of Post-compulsory Schooling*, the so-called Blackburn Report. Both these reports proposed major (and sometimes conflicting) changes which, if implemented, will have profound effects on university selection procedures. Steps are being taken, both at Monash and through the Victorian Vice-Chancellors' Committee, to ensure that, before final decisions are taken, adequate consideration is given to preparing students with the necessary skills and application for university study, and to procedures that will ensure that the selection of students for tertiary places is fair and objective.

By the end of the year there had still been no final resolution of the Government's revised policy on overseas students, pending the receipt of a report from an inter-departmental working party assessing the recommendations of the Goldring and Jackson Reports. This delay prompted the University to take the necessary step of introducing a sub-quota of between twenty-five and thirty per cent of available places for overseas students commencing the Bachelor of Engineering course in 1985.

The University received a total of \$4.87m for research from the major funding sources of the Australian Research Grants Scheme and the National Health and Medical Research Council in 1984. One heartening sign was the award to the University of five valuable program grants for 1985, two from the A.R.G.S. for ongoing research in physical geography and in psychology, and three from the N.H. & M.R.C. for research in the Departments of Anatomy, Medicine, and Physiology. In addition, the University's Centre for Human Bioethics received a special initiative grant of \$243,050 for a three-year study of the ethical and legal implications of scientific and clinical studies involving human foetal tissues, human gametes

Brian Potton, supervisor in Computer Centre Operations with part of the B7800 computer provided by Burroughs Corporation Limited under the Government's Offset Program.

— Photo *John Keesing*



and embryos. These program grants are a tangible reflection of exceptional research strength at Monash University, a strength that must be nurtured and actively encouraged. Another exciting development is the collaborative research program between universities and C.S.I.R.O. operating under the guidance of a joint A.V.C.C./C.S.I.R.O. committee, of which I am chairman. There are now some 170 projects under way in twelve universities and collaborating divisions of C.S.I.R.O., sharing a total funding of \$1.23m. This program is promoting valuable personal interactions and the cross-fertilisation of ideas between universities and C.S.I.R.O. and is extending the nation's research capability on a broad front.

The Chancellor has mentioned the as yet unresolved debate surrounding the proposed marketing of the University's internationally recognised expertise in the field of *in vitro* fertilisation. The discussion that this proposal has aroused within the University and in the community at large, although undoubtedly sincere, has sometimes been lacking in its factual basis and objectivity. Although details of the proposed licensing

agreement have yet to be finalised, the University will not countenance anything that is not permissible under current Victorian legislation, arguably the most comprehensive in the world. For its part, Monash stands to gain a substantial flow of royalties to support and strengthen its research and development programs, which will help to ensure that we maintain the international acclaim that our research, in many areas, justifiably enjoys.

I have mentioned in previous reports my belief that Monash should forge closer links with commerce and industry. I made an overseas trip in February and March specifically to evaluate the success of university science parks and innovation centres in North America and the United Kingdom. I was accompanied on this trip by Professor R.D. Brown and this first-hand experience of the latest developments abroad proved valuable in assessing the most fruitful direction for Monash to broaden and strengthen the University's interaction with industry, commerce, and government. Meanwhile, action is proceeding on a broader front with the establishment of a joint working party of

which I am a member, of representatives of the Australian Vice-Chancellors' Committee and the Business Council of Australia to advise on ways by which collaboration between universities and industry may be strengthened.

During the year, we saw the introduction of 'industrialisation' of Victorian universities with the establishment of the Victorian Universities Academic Staff Conciliation and Arbitration Board. This move, together with the earlier establishment of a similar Board for general staff brings nearly all staff in the University under State awards. The only exceptions are myself, my senior colleagues, and the seven deans of faculties who, in the new climate of industrial affairs, are cast more in the role of employers than employees. While the new arrangements provide a formalised framework for the handling of disputes, the era of a collegiate approach to solving industrial relations problems has ended. Other staffing matters tackled during the year included the appointment of an Equal Opportunity Research Fellow to advise me on all aspects of conditions of employment for women in the University, the formulation of guidelines for the use of word-processing and other electronic data input equipment to minimise the risks of repetition strain injury among staff and students, and the development of a policy for dealing safely with asbestos on campus. We also commissioned a comprehensive study of road safety within the University precinct for the benefit of the whole Monash community. The Chancellor has mentioned the decision taken by Council in November for Monash to join the new national Superannuation Scheme for Australian Universities. In many ways Monash paved the way for abandonment of the old life assurance-based F.S.S.U. scheme by developing some years earlier, at considerable cost, its own innovative and highly successful 'M' scheme. In due course, existing staff will be given the option of staying in their present scheme, transferring their accrued benefits to the

new one, or taking a cash option on their present arrangements and joining the S.S.A.U. as commencing members.

In other developments during the year, Monash, together with the other three Victorian universities, entered into an exchange agreement with the Nanjing University in the Peoples' Republic of China. This agreement will involve both students and staff, and will do much to foster the transfer of knowledge and understanding between the participating institutions. Closer to home, Monash agreed to establish a Chair of Geriatric Medicine to be held conjointly with the post of Director of Geriatric Medicine at Caulfield Hospital. It is hoped that this appointment will assist our medical graduates to be better prepared to meet the demands of an ageing society, a society in which they can expect to find one elderly person for every two persons in the workforce.

Planning is well advanced for the A.N.Z.A.A.S. *Festival of Science* to be held at Monash University in August 1985 as part of the Victorian sesquicentenary celebrations. Planning is also under way to celebrate the University's silver jubilee in 1986. It will no doubt come as a surprise to many to be thinking of Monash commemorating its twenty-fifth anniversary. It still retains its vigour and its freshness but alas, no longer its youth.

There were as usual many comings and goings during the year. In my last report I foreshadowed the early retirement in August of Professor John Swan from the deanship of the Faculty of Science. He has characteristically thrown his energies into a new role as Director of the 1985 A.N.Z.A.A.S. Congress, so he is not entirely lost to us for the time being. In seeking his successor, we were fortunate in gaining the services of Professor W.R.A. Muntz from the University of Stirling. Professor Muntz takes up his appointment of Dean of the Faculty of Science in February 1985. In the meantime, the faculty has been under the firm guidance of Professor R.H. Day as acting dean. The

University was saddened by the deaths during the year of the Deputy Comptroller, Mr Ian Tate, and Professor Michael Swift of the Department of Anthropology and Sociology. Mr Tate joined Monash as its accountant in 1960 — a year before it opened — and was one of its most devoted and hard-working servants. Professor Swift was a distinguished scholar who had held the Chair of Anthropology at Monash since 1968. The appointment of Dr J.W. Goding to the Chair of Pathology during the year was significant in more ways than one. Dr Goding graduated from the Monash Medical School in 1971 and, after embarking on a successful research career, is the first of the University's graduates to be appointed to a chair at Monash — even further proof, if it were needed, that Monash has indeed come of age. Of the many distinguished visitors to the University during 1984 I should perhaps mention the appointment of the former Commonwealth Treasury head, Mr John Stone, as visiting professor to the Centre of Policy Studies. It is a mark of the stature of this centre — one of only ten designated

special research centres in Australia — that it is able to attract the services of people of Mr Stone's undoubted calibre and experience.

I wish to thank my two colleagues, the Deputy Vice-Chancellor, Professor Kevin Westfold, and Pro-Vice-Chancellor, Professor Mal Logan, for their continuing support and valued assistance during the year. Managing an institution of the size and complexity of Monash University is no simple task. It is only accomplished by the dedication and hard work of many individuals, and to all those who participated so ably in the life and affairs of Monash during 1984, I hereby record my sincere gratitude.

In conclusion, may I refer briefly to the Vice-Chancellorship. My own appointment, at my request, was made for a ten-year term which expires on 1 February 1987. As this year completes my eighth at Monash, I have written to the Chancellor informing him of my intention to retire from the Vice-Chancellorship on 31 January, 1987 so that ample time will be available for Council to seek my successor.

DEVELOPMENT AND ADMINISTRATION

Site and Buildings

In 1984, construction projects completed included the Science block extensions — Computer Terminal, Chemistry Large Scale Laboratory, Chemistry Laser Laboratory and extensions to Engineering building 6. Those projects that commenced during the year, with completion anticipated in 1985, include Computer Centre Air Conditioning Stage 3 and extensions to the Department of Community Medicine — Moorabbin Hospital.

The major construction project commenced in 1984 for completion in 1985 for the Students' Union is the alterations and additions to the University ski lodge at Mount Buller.

Funds for minor building works, site works and services in 1984 were applied to the University Sign Systems; Documentation and Supervision and provision of additional pavements and pavings, with contributions to extensions to Engineering building 6, modifications to Laboratories — Medical 'A' Block and Chemistry Laboratory projects.

Legislation

Three amending Statutes, one new set of Regulations, and thirty-seven amending Regulations were made in 1984. The new Regulations govern Discoveries, Inventions, and Patents. The amending Regulations included an extensive revision of the provisions governing higher degrees in the Faculty of Arts, and a wide range of changes to the Admission to Courses Regulations. The Faculties Regulations were amended to introduce a procedure by which Council may remove a departmental chairman from office upon established failure to perform the duties of office satisfactorily. To the greatest extent possible new and amending legislation is drafted in 'gender neutral' language.

University Publishing

The Publications Section published the University Calendar, Annual Report, Research Report, and the seven faculty handbooks during 1984. Production must always work to a very tight schedule; the difficulties were greater this year due to the resignation in July of Mrs Lee White, the University's Publications Officer since 1978, and of her assistant, Miss Ev Beissbarth, later in the year. Mr Charles Lucas and Miss Keryn Wood were appointed in their place.

The Publications Committee met on six occasions during the year and considered more than twenty-five requests for financial assistance towards the publication of works by Monash authors. In grants and returnable subsidies it paid out just over \$29,500 and entered into commitments for just under \$20,000. Supported by the expertise of the committee secretary and the legal office, it assisted authors with advice on a variety of issues concerning contractual negotiations with commercial publishers and production and distribution of works produced by departments of the University.

It was pleasing to see an apparent expansion of publishing by members of the University and the committee was able to support all reasonable submissions that came before it, but only because money previously available to it had remained unspent. As the economics of publishing become tighter, it is noticeable that the sums sought by publishers have increased much faster than the funds available to the committee, and there is a very real fear that completely worthy projects may in the near future be unable to command support.

Safety

In 1984 a University working party studied developments and projections in the area of occupational health. This topic is receiving attention in the general community and within the University and it is clear that

occupational health is emerging as an integrated but prominent component of safety in the workplace.

The emergency vehicle was called out on fifty-two occasions during 1984. As always, the Central Services staff members who crew the vehicle rendered invaluable assistance and support to the sick and the injured as did the specialised professionals such as doctors, ambulance officers, and police who attended the scene of a number of these incidents.

In radiation protection the program of occupational thyroid monitoring for users of radioactive iodine has continued. In 1984, of the 145 monitoring measurements done, thirty-nine showed detectable radioiodine in the thyroid but all were well within the occupational dose limit. In keeping with the as low-as-readily achievable criterion, recom-

mendations on improved handling were made where possible.

The Radiation Protection Officer attended the Congress of the International Radiation Protection Association in West Berlin, and the latest developments particularly in the area of non-ionizing radiation were of direct relevance to work in the University. Observations made in a visit to the Radionuclide Centre, Free University of Amsterdam, were valuable and contributed to the draft local guidelines for ionizing and laser radiation drawn up for comment at the end of the year.

1984 also saw the promulgation of the Health (Radiation Safety) Regulations and it was intended that the local guidelines would ensure that work with ionizing radiation in the University would comply with the Regulations.

STAFF

The recruitment of academic staff in 1984 continues at a low level although the trend of small increases in overall staff numbers of previous years remains. Under current economic conditions mobility of all staff is restricted.

Over the years regular part-time staff, referred to in this University as fractional staff, have become an established part of the

University's staffing pattern and figures in this report are given in terms of full-time equivalent staff, i.e., including fractional staff rather than full-time staff only.

The number of full-time and fractional staff, expressed in terms of full-time equivalents, as reported to the Tertiary Education Commission in the annual statistical return of April 1984 was:

	Professor	Reader/ Assoc. Professor	Senior Lecturer	Lecturer	Principal Tutor	Senior Tutor	Tutor	Total
Arts	21	21	82	43	3	10	33	213
Economics and Politics	13	11	32	28	2	3	36	125
Education	5	4	31	11	2	2	4	59
Engineering	9	15	38	13	—	12	1	88
Law	6	7	25	12	—	8	9	67
Medicine	21	19	61	23	1	19	5	149
Science	21	33	69	21	—	12	11	167
Other	—	2	—	4	—	—	—	6
Totals	96	112	338	155	8	66	99	874

The pattern of teaching-staff recruitment in 1984 was:

	Continuing Appoint- ment	Fixed Term	Short Term or Temporary
Professors	2	—	—
Senior Lecturers	4	—	2
Lecturers	9	8	9

and twenty-four Senior Tutors and forty-four Tutors, many being employed as a fraction of full-time, took up their first appointments in 1984. Professor A.H.M. Fels, Administration, and Professor B.S. Singh, Psychological Medicine, took up their chairs during 1984. Dr J.W. Goding, Chair of Pathology, Dr R.A. Jarvis, Electrical Engineering, Professor W.R.A. Muntz, Dean of Science, Clinical Associate Professor M.B. Van der Weyden, Medicine (Honorary), and Associate Professor M.A.J. Williams, Geography, were appointed during 1984 but will not take up duty until 1985.

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

	Continuing Appoint- ment	Fixed Term	Short Term or Temporary
Professors	5	—	—
Readers	2	—	—
Associate Professors	1	—	—
Senior Lecturers	8	—	2
Lecturers	2	3	5

and thirty-four Senior Tutors and thirty-four Tutors. Included amongst those who resigned during 1984 were Professor J.R. Garagnon, French, and Professor B.E. Hobbs, Earth Sciences.

Academic staff employed solely for research projects, expressed in full-time equivalent staff, comprised 258 Research Fellows, Officers, and Assistants.

With a strength of 3,003 total equivalent

Professor M.A.J. Williams of Macquarie University who was appointed to the second Chair of Geography. Professor Williams will take up his appointment at the beginning of 1985.

— Photo Tony Miller



staff at end April 1984, total staffing, whilst showing a slight increase over the 1983 total of 2,949, remains at approximately the same level as for the past five years.

The 1984 distribution of staff over the various fields of activity was:

Teaching and Research		Total
Teaching Staff	972	
Support Staff	699	1671
Research		
Academic Staff	258	
Support Staff	71	329
Library		182
Computing		62
Other Academic Services		48
Student Services		24

Central Administration	199
Buildings, Grounds, Cleaning, and Central Services	250
Continuing Education	10
Independent Operations — Student Union, Bookshop, etc.	228

The University records with regret the deaths of Dr C.F. Moppert, Professor M.G. Swift, and Mr I.B. Tate.

At the end of 1984, Professors S.R. Davis, Sir Edward Hughes, R.C. Nairn and J.M. Swan retired and were granted the status of Emeritus Professor.

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

ACADEMIC DEVELOPMENTS

Degrees and Diplomas conferred

The following degrees and diplomas were conferred by the University at graduation ceremonies in 1984, the final column indicating the total number of degrees and diplomas awarded since the foundation of the University.

	Male	Female	Total 1984	Total 1961-84
Bachelor of Arts	147	392	539	9361
Bachelor of Arts with Honours	26	47	73	1528
Bachelor of Social Work	5	34	39	118
Bachelor of Social Work with Honours	1	2	3	169
Master of Arts	12	15	27	356
Master of Librarianship	2	—	2	25
Master of Social Work	2	2	4	13
Bachelor of Economics	262	152	414	5697
Bachelor of Economics with Honours	12	5	17	543
Master of Administration	47	11	58	468
Master of Economics	6	3	9	167
Bachelor of Education	26	34	60	1625
Bachelor of Special Education	—	18	18	198
Master of Education	9	10	19	403
Master of Educational Studies	54	55	109	309
Bachelor of Engineering	75	7	82	1140
Bachelor of Engineering with Honours	83	3	86	1356
Master of Engineering Science	34	1	35	289
Bachelor of Jurisprudence	9	7	16	1062
Bachelor of Laws	140	81	221	2459
Bachelor of Laws with Honours	6	7	13	179
Master of Laws	18	3	21	166
Bachelor of Medical Science	—	—	—	12
Bachelor of Medical Science with Honours	3	3	6	145
Bachelor of Medicine, Bachelor of Surgery	65	40	105	1847
Bachelor of Medicine, Bachelor of Surgery with Honours	20	22	42	571
Master of Psychological Medicine	1	—	1	3
Master of Surgery	1	—	1	3
Bachelor of Science	195	176	371	4239
Bachelor of Science with Honours	103	96	199	2548
Master of Environmental Science	13	4	17	143
Master of Science	23	4	27	333
Doctor of Philosophy — Arts	13	11	24	211
— Economics	4	—	4	35
— Education	6	9	15	100
— Engineering	15	—	15	240
— Law	1	—	1	22
— Medicine	7	2	9	104
— Science	37	12	49	757

Doctor of Letters	—	—	—	1
Doctor of Engineering	1	—	1	1
Doctor of Medicine	3	—	3	32
Doctor of Science	—	—	—	10
Honorary Master of Science	—	—	—	4
Honorary Doctor of Letters	—	—	—	10
Honorary Doctor of Economics	—	—	—	2
Honorary Doctor of Engineering	2	—	2	9
Honorary Doctor of Laws	1	—	1	34
Honorary Doctor of Medicine	—	—	—	5
Honorary Doctor of Science	1	—	1	12
Total Degrees	1491	1268	2759	39064

	Male	Female	Total 1984	Total 1961-84
Diploma in Commercial Law	2	1	3	31
Diploma in Computer Science	1	—	1	25
Diploma in Education	106	172	278	6568
Diploma in Educational Psychology	8	24	32	250
Diploma in Engineering Geology	—	—	—	9
Diploma in English	2	4	6	37
Diploma in Family Law	2	5	7	13
Diploma in Immunology	—	—	—	15
Diploma in International and Comparative Law	—	—	—	2
Diploma in Japanese Studies	—	1	1	8
Diploma in Librarianship	1	4	5	23
Diploma in Linguistics	—	—	—	4
Diploma in Materials Engineering	1	—	1	2
Diploma in Microbiology	—	—	—	5
Diploma in Migrant Studies	—	—	—	22
Diploma in Operations Research	3	4	7	35
Diploma in Slavic Languages	—	—	—	1
Diploma in Taxation Law	10	—	10	33
Total Diplomas	136	215	351	7083

1983 annual examination pass rates

There has been a continuation of the high percentage of first year full-time students passing examinations. Fluctuations in the pass rates may occur from various factors including level of intake, changes in course content and structure and variations in assessment method.

Group (a)	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
Arts	88	83	87	86	87	84	84	88	87	84
Economics and Politics	80	75	83	85	82	83	80	81	82	81
Law	94	91	90	93	97	92	95	90	95	95
Science	87	85	80	83	86	87	88	91	92	93
Group (b)										
Diploma in Education*	95	95	95	98	87	93	95	93	95	99
Engineering	64	67	71	73	74	75	83	80	84	87
Medicine	90	99	95	95	88	92	92	92	94	90

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 in Education and Diploma in Educational Psychology.

STUDENT ENROLMENT

The net total undergraduate population increased slightly from 10,355 in the previous year to 10,360. Higher degree enrolments decreased from 2,365 to 2,305 and total enrolments of all students from 13,819 to 13,809. Full details of enrolments are given in the table below.

Of the total of 13,809 students, 1,912 (13.8 per cent of the total) were from overseas as follows: *Oceania* — Papua New Guinea 4, Fiji 6, New Zealand 10, other Pacific Islands 1; *Africa* — Ghana 4, Lesotho 1, Malawi 2,

Mauritius 3, Nigeria 1, Zimbabwe 1, Tanzania 1, Uganda 1, Zambia 1, other Africa 1; *America*. — Canada 11, USA 18, West Indies 2, South America 1; *Asia* — Brunei 10, Hong Kong 110, India 10, Malaysia 1,450, Singapore 93, Sri Lanka 32, Israel 1, Bangladesh 3, Burma 1, China 10, Indonesia 37, Japan 16, Korea 9, Pakistan 1, Philippines 3, Taiwan 3, Thailand 19, Turkey 2, Vietnam 1, other Asia 3; *Europe* — UK and Eire 15, France 2, Germany 5, Nordic Lands 2, other Europe 5. A total of 1,135 males and 713 females.

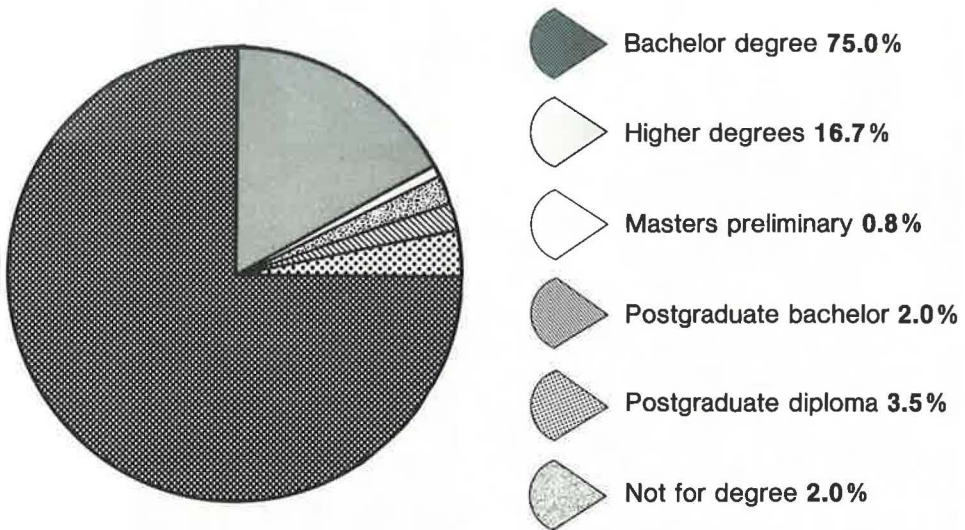
Net Enrolments by Degree/Faculty 1983 (as at 30 April)

Faculty and Year	Full-time			Part-time			Total			
	M	F	T	M	F	T	M	F	T	
Higher Degree										
Higher Doctorate										8
Ph.D.	306	144	450	119	58	177	425	202		627
Masters	231	110	341	833	496	1,329	1,064	606		1,670
TOTAL	537	255	792	959	554	1,513	1,496	809		2,305
Master Preliminary	24	16	40	31	41	72	55	57		112
Postgraduate Diplomas										
Arts:										
Dip.Engl.	0	0	0	3	4	7	3	4		7
Dip.Gen. & Comp.Lit.	0	1	1	0	0	0	0	1		1
Dip.Jap.Stud.	0	0	0	1	1	2	1	1		2
Dip.Lib.	0	0	0	3	6	9	3	6		9
Economics & Politics:										
Dip.Ops.Res.	3	8	11	3	1	4	6	9		15
Education:										
Dip.Ed.	107	167	274	27	47	74	134	214		348
Dip.Ed.Psych.	3	10	13	11	22	33	14	32		46
Engineering:										
Dip.Mat.Eng.	0	0	0	3	0	3	3	0		3
Law:										
Dip.Com.Law	4	0	4	11	7	18	15	7		22
Dip.Int. & Comp.Law	1	0	1	3	1	4	4	1		5
Dip.Tax Law	0	0	0	11	1	12	11	1		12
Dip.Fam.Law	0	0	0	3	9	12	3	9		12
Science:										
Dip.Eng.Geol.	0	0	0	1	0	1	1	0		1
TOTAL	118	186	304	80	99	179	198	285		483
Postgraduate Bachelors Degrees										
Education:										
B.Ed.	2	6	8	73	80	153	75	86		161
B.Spec.Ed.	0	3	3	15	99	114	15	102		117
TOTAL	2	9	11	88	179	267	90	188		278

Faculty and Year	Full-time			Part-time			Total			
	M	F	T	M	F	T	M	F	T	
Bachelor Degrees										
Arts:										
B.A.	I	278	499	777	75	250	325	353	749	1,102
	II	145	430	575	60	196	256	205	626	831
	III	188	466	654	122	297	419	310	763	1,073
	IV	33	51	84	7	29	36	40	80	120
	Sub-total	644	1,446	2,090	264	772	1,036	908	2,218	3,126
B.Soc.Wk.	III	7	31	38	0	0	0	7	31	38
	IV	7	32	39	0	0	0	7	32	39
	Sub-total	14	63	77	0	0	0	14	63	77
Economics and Politics:										
B.Ec.	I	212	188	400	17	12	29	229	200	429
	II	214	148	362	44	12	56	258	160	418
	III	260	166	426	137	82	219	397	248	645
	IV	10	12	22	0	0	0	10	12	22
	Sub-total	696	514	1,210	198	106	304	894	620	1,514
Engineering:										
B.E.	I	306	32	338	1	0	1	307	32	339
	II	244	23	267	6	1	7	250	24	274
	III	249	23	272	4	1	5	253	24	277
	IV	189	19	208	14	0	14	203	19	222
	Sub-total	988	97	1,085	25	2	27	1,013	99	1,112
Law:										
LL.B.	I	0	0	0	2	2	4	2	2	4
	II	0	2	2	7	8	15	7	10	17
	III	9	10	19	12	12	24	21	22	43
	IV/V	39	28	67	26	15	41	65	43	108
	Sub-total	48	40	88	47	37	84	95	77	172
B.Juris./LL.B.	I	0	0	0	1	1	2	1	1	2
	II	4	10	14	1	1	2	5	11	16
	III	12	12	24	3	3	6	15	15	30
	IV/V	43	22	65	5	4	9	48	26	74
	Sub-total	59	44	103	10	9	19	69	53	122
B.Juris.	II	1	0	1	0	0	0	1	0	1
	III	0	1	1	1	0	1	1	1	2
	Sub-total	1	1	2	1	0	1	2	1	3
Law/Arts:										
B.A./LL.B.	I	26	47	73	0	1	1	26	48	74
	II	34	38	72	3	4	7	37	42	79
	III	46	69	115	4	10	14	50	79	129
	IV/V	97	126	223	14	13	27	111	139	250
	Sub-total	203	280	483	21	28	49	224	308	532
Law/Economics & Politics:										
B.Ec./LL.B.	I	53	34	87	0	0	0	53	34	87
	II	66	35	101	1	0	1	67	35	102
	III	41	18	59	8	1	9	49	19	68
	IV/V	139	43	182	20	5	25	159	48	207
	Sub-total	299	130	429	29	6	35	328	136	464
Law/Science:										
B.Sc./LL.B.	I	17	6	23	0	0	0	17	6	23
	II	7	12	19	0	0	0	7	12	19
	III	15	14	29	1	0	1	16	14	30
	IV/V	35	13	48	3	1	4	38	14	52
	Sub-total	74	45	119	4	1	5	78	46	124

Medicine:										
M.B.,B.S.										
	I	82	63	145	0	0	0	82	63	145
	II	94	66	160	0	0	0	94	66	160
	III	93	67	160	0	0	0	93	67	160
	IV	97	57	154	0	0	0	97	57	154
	V	88	65	153	0	0	0	88	65	153
	VI	91	67	158	0	0	0	91	67	158
	Sub-total	545	385	930	0	0	0	545	385	930
B.Med.Sc.										
		6	7	13	0	0	0	6	7	13
	Sub-total	6	7	13	0	0	0	6	7	13
Science:										
B.Sc.										
	I	287	254	541	3	8	11	290	262	552
	II	277	253	530	40	21	61	317	274	591
	III	270	234	504	68	64	132	338	298	636
	IV	119	85	204	0	0	0	119	85	204
	Sub-total	953	826	1,779	111	93	204	1,064	919	1,983
Science/Engineering:										
B.Sc./B.Eng.										
	I	67	9	76	0	0	0	67	9	76
	II	43	5	48	2	0	2	45	5	50
	III	44	6	50	3	0	3	47	6	53
	IV	9	0	9	0	0	0	9	0	9
	Sub-total	163	20	183	5	0	5	168	20	188
	TOTAL	4,693	3,898	8,591	715	1,054	1,769	5,408	4,952	10,360
Not for Degree										
Total other than higher degree										
		9	7	16	103	152	255	112	159	271
		4,846	4,116	8,962	1,017	1,525	2,542	5,863	5,641	11,504
Total Net Enrolments										
		5,383	4,371	9,754	1,976	2,079	4,055	7,359	6,450	13,809

Total Net Enrolments at 30 April 1984: 13,809



Looking west across campus to the Robert Menzies School of Humanities, which dominates the Monash landscape. The building, constructed in 1962, houses the Faculty of Arts and the Faculty of Economics and Politics.

— Photo *Richard Crompton*



Faculty of Arts

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

After a planned reduction in student load in the faculty, carried out over the last two years, student numbers have now stabilised at approximately 2,900 E.F.T.S. (equivalent full-time students). This has enabled an improvement in the staff/student ratio of the faculty over that obtained in the years before 1982, but the fact that the faculty has a number of small departments, whose staffing level is necessarily above that which would be justified by enrolments, means that the advantages of the improved ratio are felt unevenly across the faculty. In consequence many departments still have some difficulty in maintaining the tutorial program which is central to the teaching methods of the faculty. It is clear that the prospect of level funding over the next triennium will pose further problems for the faculty. Since promotions and the annual cost of salary increments come to something like \$100,000 per annum, level funding will mean, in practice, a *de facto* cut of \$600,000 over the period. In these circumstances the faculty is considering the kinds of economies which might allow it to survive and enable it still to introduce some new developments.

As indicated in the last report, the faculty in 1984 was able to use funds husbanded from salary savings and other sources to introduce new technological aids in the form of twenty-five IBM personal computers, complete with word-processing and other software, appropriate ergonomic furniture and fifteen printers. All departments of the faculty will have access to equipment which is intended for the use of general and academic staff. In moving in this direction the faculty is aware of the dangers of repetitive strain injury and is concerned that acceptable guidelines be established to govern the use of word-processing facilities.

Staff

The faculty was saddened by the news in May of the death of Professor Michael Swift while on an Outside Studies Program in Malaysia. Professor Swift was a distinguished

anthropologist. His *Malay Peasant Society in Jelebu* was a classic study, strong in the theoretical insights that marked his whole approach to his subject and reflecting his close identification with his chosen country of study. At Monash Professor Swift made an important contribution to the work of the Centre of Southeast Asian Studies, attracting graduate students, many of them from Malaysia, and serving as a devoted supervisor.

Professor M.I. Logan has continued to serve, for part of his time, as Pro-Vice-Chancellor. During the year Professor M.A.J. Williams, of Macquarie University, was appointed to the second Geography Chair and will take up his appointment at the beginning of 1985. Professor Williams will bring with him to Monash an Australian Research Grants Scheme Program Grant of \$384,000 spread over six years for the study of 'Late Cainozoic Environments: five million years ago to the present'. Professor J. Garagnon resigned from the Chair of French in order to return to academic employment in France. The faculty also lost the services of Dr N.J. Smith, senior lecturer in Social Work, who left to take up a new position at La Trobe University and Miss M.D. Campbell, also of Social Work, who resigned after ten years' service in the department. The faculty also lost, through retirement, Ms M. Sprigg, administrative assistant in History since 1971, and Ms J. Elvins, the last surviving member of the original (1961) secretarial staff of the faculty. New arrivals during 1984 include Dr A. Markus and Dr D.T. Garrioch who were appointed to lectureships in history. Dr Markus specialises in Aboriginal history and the history of immigration and Dr Garrioch in Eighteenth and Nineteenth Century French history.

Professor P. Singer spent five months as 'Visiting Distinguished Humanist' at the University of Colorado. Dr D.G.J. Roberts was a Visiting Professor at Washington University, St Louis, U.S.A., from 17 September to 31 December. Professor F.C. Jackson was an invited speaker at a conference in honour of Professor D. Davidson at Rutgers in April,

Director of the Monash Orientation Scheme for Aborigines, Mr Isaac Brown.

— Photo *Richard Crompton*



Professor C.T. Probyn an invited speaker at a conference on Swift at Münster and Mr C.L. Ten an invited speaker at a conference in The Legal Philosophy of H.L.A. Hart at Jerusalem. Attendance at overseas conferences is an important way in which Monash scholars can make their mark elsewhere and it is regretted that the faculty lacks the resources to provide adequate support to the conference travel of its members. Requests for assistance in 1984 totalled \$20,000 of which only \$7,300 could be granted.

Professor P. Boss was appointed chairman of the expert committee on social welfare of the Commonwealth Council on Overseas

Professional Qualifications (C.O.P.Q.).

Dr E. Keller (German) and Dr D. Bartholomeusz (English) have been promoted to the position of reader and Dr A.J. Milner and Dr D. Probert (Sociology), Dr A.J. Gregory (Visual Arts) and Dr G. Mallinson (Linguistics) were promoted to senior lectureships.

M.O.S.A.

The Monash Orientation Scheme for Aborigines, under the direction of Mr I. Brown, assisted by Dr J. Newton, completed its first year of operation. The scheme, which is funded by grants from the Commonwealth

Department of Education and Youth Affairs and the Department of Aboriginal Affairs, provided an orientation year for Aboriginal students who have not been able to complete H.S.C. or its equivalent but who are selected as potential undergraduates. Students who complete the course at a level equal to that of H.S.C. entrants are guaranteed admission to the Faculties of Arts or Law. From an initial intake of seven, six students completed the course successfully and will be admitted to first-year undergraduate studies in 1985.

Undergraduate Studies

The main development in 1984 has been the transfer of administrative responsibilities for courses in General and Comparative Literature to the new Board of Interdisciplinary Studies. (The Centre for General and Comparative Literature now confines its responsibilities to the co-ordination of graduate work in this area.) The Study Abroad Programs continue in Nice and New Caledonia for students of French, at the Monash Centre in Tokyo for students in Japanese, and at a number of German universities for students of German. As in previous years, students from the Department of German were strongly represented in scholarships awarded for study in West Germany. Three of our students are currently studying under scholarships granted by the German Academic Exchange Service (D.A.A.D.). In addition to these continuing programs, a study tour of Spain combined with an intensive Spanish language course was arranged for twenty students of Monash and Auckland universities. It is hoped that this will continue as an annual event. Reference should also be made to the beginning of a language experience program for third- and fourth-year honours students in French companies in Melbourne.

A beginning has been made in the application of a computer-assisted language learning program developed in the Depart-

ment of French by Dr J. Burston. The Department of History has introduced a new special subject for fourth-year students, 'History in the Field', designed to introduce honours students to field-work techniques in Aboriginal history and urban conservation. With the assistance of funds provided by the Ukrainian community, the minor sequence in Ukrainian has now been extended to a major. In addition, an introductory course in Ukrainian has been established.

Research and Graduate Studies

Four hundred and thirty-nine students were enrolled in postgraduate studies in 1984. During the year, thirty-six students completed the requirements for the degree of Master of Arts, twenty-five students enrolled in Arts departments completed the requirements for the degree of Doctor of Philosophy, and nine qualified for the award of Diploma in Arts. Two new graduate diplomas were approved for introduction in 1985: a Diploma in the Sociology of Women and a Diploma in Applied Sociology.

In 1984 the new Master of Arts in Eighteenth Century European Studies was offered for the first time. The degree, taken by coursework and minor thesis, was co-ordinated by the Centre for General and Comparative Literature and comprised sections on government in England and France, 1688-1693, developments in neo-classical cultural and aesthetic theory, ideas of human nature and philosophy and the sciences. Members of the departments of English, Politics, French, German, and Visual Arts co-operated in the teaching of these topics.

The inter-disciplinary centres of the faculty, to which reference has been made in earlier reports, continue to work effectively. In 1984 the Centre for General and Comparative Literature, as already indicated, came into line with the Centres of Migrant Studies and Southeast Asian Studies in concentrating its efforts on graduate work in its area. The Centre of Southeast Asian Studies pub-

lished three monographs and three working papers and joined, as usual, with the Australian-Indonesian Association in offering a series of three public lectures this year on the subject 'From Batavia to Jakarta', a study of the history of the Indonesian capital. Four research associates and two post-doctoral fellows were affiliated with the centre in 1984.

The Graduate School of Librarianship participated in a project sponsored by the National Library of Australia to explore educational use of the recently established Australian Bibliographic Network (A.B.N.). Thirteen Master of Arts candidates took part in this experimental teaching which was integrated into regular coursework. (A.B.N. is a vast computerised data base of bibliographic information accessible via computer terminals by a network of libraries throughout Australia.)

The publication level of members of staff remained high. It is worth noting that Dr J. Rickard's *H.B. Higgins: The Rebel as Judge* received the *Age* non-fiction Book of the Year award.

Exhibitions, Conferences, the Creative and Performing Arts

The Department of Visual Arts mounted five major exhibitions in the Monash University Gallery: A Melbourne Mood — Cool Contemporary Art (with exhibits provided by the Australian National Gallery), the first twenty-five years of the Blake Prize for Religious Art, Plein Air Painting in Melbourne, 1885-1898, Aspects of Australian Figurative Painting 1942-1962 (from the Fifth Biennale of Sydney), and a sculpture exhibition, Acquisition and Alternatives, based on work in the Monash University Collection.

In July the Department of German, with the assistance of the Austrian Government, mounted an exhibition of the life and work of Franz Kafka. Members of the Department of History played major roles in organising the Australian Historical Association conference held at the University of Melbourne,

and the Graduate School of Librarianship, with the support of the Department of History, held a two-day forum on Australian Colonial Library History, drawing on people involved in research in Australian cultural, library, and book-trade history. Dr M. Aveling of the Department of History has undertaken, at the request of the History and Heritage Committee of the 150th Anniversary of Victoria, the administration of Commonwealth Employment Program funding in a project designed to establish local history resources.

The Writer-in-Residence scheme continues in the revised form mentioned in last year's report. Instead of one annual visitor we have brought in a number of visiting writers, some local and some interstate, for a readings series. For the second year in succession, the Department of Indonesian and Malay produced an Indonesian play *Jaka Tarub* by the Indonesian journalist and dramatist Akhudiap. The faculty's own Philip Martin's poem sequence 'Celebidach Conducting' was broadcast on ABC Radio Helicon, a program of Denis Davison's selected writings was presented at Colac for the National Book Council and for the Toorak Community Arts Centre and Jenny Strauss read her poems on the ABC.

Visitors

Visitors to the faculty included: Emeritus Professor N.G.L. Hammond of Cambridge and Professor P. Treves of Venice (Classical Studies), Dr S. Gontarski of the University of Ohio (Fulbright Scholar in the Department of English), the distinguished South African novelist Andre Brink, Professor H. Miller of Yale (English), Professor H. Priessnitz of the University of Wuppertal and Professor H. Wysling of the University of Zurich (German), Dr H. Chambert-Loir of the Ecole Francaise d'Extreme Orient and Dr S. Robson of the University of Leiden (Indonesian and Malay), Ghana master'drummer Kobla Ladzekpo and Japanese No drama performer Akira Matsui (Music).

Faculty of Economics and Politics

Dean: Professor W.A. Sinclair, M.Com.(Melb.), D.Phil.(Oxon.), F.A.S.S.A.

The most important developments in the faculty during the year were concerned with management studies and research funding. The second chair in the Department of Administrative Studies was filled by the appointment of Professor A.H.M. Fels, a member of the faculty who has had extensive experience on publications bodies including his recent appointment to the Prices Surveillance Authority of the Commonwealth Government. The filling of the chair was intended as a first step towards a strengthening of the Master of Administration program which continues to attract a large number of applicants of high quality. A committee was set up to review the program in the latter part of the year with a view to determining how best to build on its present strength to take account of future needs. The research activities of the faculty were given strong support when the Centre of Policy Studies was successful in obtaining a three-year renewal of its grant from the Commonwealth Government as a special research centre. It is gratifying to know that the work of the Centre of Policy Studies, which was maintained at a high level during the year, continues to receive recognition in this significant way. A new post of Deputy Director of the Centre of Policy Studies carrying the title of professor has been created with a view to maintaining the momentum of the centre.

Undergraduate Courses

For 1984 5,174 students expressed a preference for the Bachelor of Economics course on their Victorian Universities Admissions Committee application form compared with 4,984 in 1983. The Bachelor of Economics course at Monash received the third highest number of applications of any course for 1984 being exceeded only by the Arts faculties at Melbourne and Monash. More students were offered places in first year to compensate for a decline in third-year enrolments resulting from earlier fluctuations in

intake. This left the cut-off score constant at 280.

A large majority of the students admitted continued to show a preference for accounting subjects. This is a reflection of the favourable career prospects for graduates with accounting qualifications. There is also a shortage of economists in Australia at present but this has not so far led to an increase in the number of students specialising in economics although the faculty has a good reputation for the education it provides in this area.

The number of overseas students in the faculty increased to become thirty-two per cent of all Bachelor of Economics students. A major contributor to the rise was a sharp increase in the number of overseas applicants who have completed H.S.C. from another state in Australia, including those who had taken the South Australian H.S.C. at the two colleges offering it in Malaysia.

In association with the Faculty of Engineering a new five-year combined course for the degrees of Bachelor of Economics and Bachelor of Engineering to be taken concurrently was introduced. The new course is to commence in 1985 with students selected at the end of the first year of Engineering in the Department of Civil Engineering. It is possible that this may be extended to other Engineering departments in the future.

The Faculty Board expressed serious misgivings during the year concerning the changes proposed by the Victorian Institute of Secondary Education to the Higher School Certificate from 1987 onwards. It considered that these could have a serious effect on the academic standards for the Higher School Certificate and posed considerable difficulties for selection of students in to the faculty.

Graduate Courses

The largest single enrolment was ninety-two students in the Master of Administration course. Other graduate degrees taken in the

Professor A.H.M. Fels who was appointed to the second chair in the Department of Administrative Studies. Professor Fels has had extensive experience on publications bodies including his recent appointment to the Prices Surveillance Authority of the Commonwealth Government.

— Photo *Richard Crompton*



faculty were three Doctors of Philosophy, ten Masters of Economics, and eight Diplomas of Operations Research.

Technical Services and Library

There is a growing demand for computer resources in both research and teaching in the faculty and a constant need to extend the already impressive computer facilities and to upgrade them to take account of the extremely rapid technical change in the area. It is of great importance that students receive their computer education with the most up-to-date equipment. The main addition to the facilities was the acquisition of a VA 11/750 computer and a new laboratory of sixteen VT101 terminals. The software packages DATATRIEVE and TDMS were purchased as well as two IBM personal computers.

The Donald Cochrane Library continued to be heavily used, particularly by Master of Administration students, although there is little room for expansion in this area. The

main improvement for the year was in the provision of material from the Australian Bureau of Statistics.

Visitors

The faculty continued to attract a large number of distinguished academic visitors in a wide range of areas. Among them may be noted Professor T.D. Wallace of Duke University and Professor A. Deaton of Princeton University, both outstanding for their work in econometrics, and Professor P. Dodd of the Australian Graduate School of Management. Emeritus Professor D.S.C. Corbett, formerly of Flinders University and the South Australian Public Service Board, held a visiting appointment in the Master of Administration course. The Centre of Policy Studies continued to be the main source of attraction for visitors of whom Professor H.R. Varian of the University of Michigan and Professor I.M. Kirzner of New York University may be noted. Mr J.O. Stone, following his resignation as Secretary to the Treasury, was appointed as a visiting professor.

Staff

Professor S.R. Davis retired at the end of the year. As foundation professor of Politics, Professor Davis played an important part in the shaping of his department and of the faculty as a whole. Council has conferred on him the title of Emeritus Professor.

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

Centre of Policy Studies

The Special Research Grant awarded to the Centre of Policy Studies in 1979 by the C.T.E.C. was renewed for the 1985-87 triennium. The centre is the only research group in the social sciences to receive funds under the research centres of excellence scheme.

A number of commissioned research pro-

jects were completed during the year and the volume of publications remains high. A book, *The Minerals Sector and the Australian Economy*, edited by Professor M. Porter and Dr L. Cook, was published early in 1984. The volume is a collection of papers emerging from studies completed in 1983 for the Australian Mining Industry Council. *Australian Tax Forum*, a quarterly journal jointly sponsored by the centre and the Faculty of Law was inaugurated and now has a circulation in excess of 700 copies.

A vigorous program of conferences, seminars, and workshops was maintained, largely organised around the numerous distinguished research scholars attracted to the centre from overseas and elsewhere in Australia. Computer facilities have developed steadily with the objective of having in place early in 1985 a fully integrated word-processing, data base and computer system based on a network of personal computers built around a central processor.

Faculty of Education

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

1984 was a year of achievement for the Faculty of Education in spite of the continuing effects of long-term financial constraints. Because less than five per cent of the faculty's budget is spent on non-staffing items, the non-replacement of staff is virtually the only way the faculty can balance increasing costs and fixed funds. Every section of the faculty's staff has experienced losses that have not been replaced. The effects have been considerable on our programs and the prospect of another triennium of the same is very serious indeed.

Students

In order to stay within the target student load, several restraints were applied to student enrolments for the various faculty programs. These restraints led to a load of 1,065 (target 1,100) equivalent full-time students. A limit was placed on the number of subjects a student might undertake in a semester. This delays the rate of progress some part-time students might make but is realistic for most since they are usually engaged in full-time employment.

The non-graduate entry for the Bachelor of Education program has continued and the initial performance of this group of students has been encouraging. A reluctant decision was made to cease the summer term for Bachelor of Education after January 1985. This opportunity to study during January and February has been attractive to a diverse group and in particular to some part-time students because it has allowed them to separate their studies from the pressures of their full-time employment. The teaching staff in the summer have also found the freshness of the students in these classes to be stimulating.

The large program for Master of Educational Studies continues with slightly lower enrolments, but with a good graduation rate (109 graduates in 1984). A review of this program was completed and a number of its recommendations will be considered for

implementation in 1985. As some of them would affect other faculty programs, the committees responsible for them have also been asked to review various aspects of their changing enrolments and purposes.

The review of the Diploma in Education included a lively contribution from the current students thanks to excellent planning by some of the staff. A number of changes will be made in 1985. One of these is the inclusion of aspects of the new integration policy of the Education Department. All teachers are now required to have definite training to enable them to teach classes in which an increasing number of students with recognised impairments and disabilities will be present. Another change will provide for all the diploma students to take a course on the use of microcomputers in teaching their disciplinary fields. This is also consistent with recent school policies about computers in schools, but it will strain severely the equipment and technical resources of the faculty. As soon as possible we will need to double our present resources for computer education and expand our technical support with expertise in this area. It is not only for this level of initial teaching education that there is a need for courses in the use of technologies in teaching. Existing teachers are also very interested in courses at the Bachelor of Education and Master of Educational Studies levels that can extend their skills in the variety of technologies that are now readily available for use in schools. It is essential that the University (and the C.T.E.C.) recognise that the faculty has a significant technological aspect and not continue to regard it as a 'non-technical' faculty.

An unusual development in 1984 was the acceptance of twenty Diploma in Education students in mid-year, at the request of the Victorian Education Department. The students are qualified in science and mathematics, and are intended to reduce the continuing shortage the state has of teachers of those disciplines. Their course will continue

Dean of the Faculty of Education, Professor Peter Fensham.

— Photo *Claude Sironi*



until April 1985. Although the course increased the load on the staff, the faculty accepted the task as a response to a serious community need. The scheme is not planned to continue beyond 1985; it is seen as a unique situation, one in which the University has been able to aid the state directly to cope with a problem.

As anticipated, the Masters program by research thesis has now a reduced place among the faculty's offerings, but the doctoral program continues to grow, and there is now a substantial number of full-time students conducting research at this level. The quality of our applicants for scholarships is high, and interest from overseas grows as the reputation of the faculty spreads. The number of students completing their doctorates successfully in 1984 was thirteen, the second largest number yet from the faculty, which places the faculty third after the Arts and Science faculties for successful student participation at this level.

Staff

In general the staff have continued a vigorous program of research in addition to the considerable demands our teaching programs place on them. Almost all staff teach in at least three levels of programs from Dip.Ed. to M.Ed.St. The former runs on a term's timetable and is strongly influenced by the cycle of events in the secondary school year. The other programs operate on a semester basis that is by far the most convenient one for the nature of our subjects and courses. This means that the inter-semester break does not provide the same opportunity for research that it might have done. As our teaching year is longer than that of other faculties and most of our students (apart from Dip.Ed.) are enrolled part-time, both day and evening teaching is usual.

These variations do place demands on staff, but they would be normal in education faculties except for the way the continuing

constraints exacerbate them, and each year I am aware of these unhelpful pressures falling on a number of the staff.

Five research projects were supported from the Monash Special Research Funds. One A.R.G.S. project began, one continued, and the Menzies Foundation continued their support of a project in health education. A number of other research projects were supported by outside bodies, and the association of Dr Brumby with the Centre for Human Bioethics has led to several expanding research studies. A feature of 1984 has been the demand for the staff to contribute to evaluative studies of educational programs beyond the faculty. The Evaluation Studies Group undertook a substantial study of the use schools make of road safety material, and it is likely that the Road Traffic Authority will ask them to extend their expertise to other aspects of its program.

Mr Lawrence Ingvarson was sought by the Schools Commission for their evaluation programs for the inservice education of teachers. He was seconded to that body in Canberra for the second half of the year. Dr McArthur's substantial secondment to the Australian Education Council for research purposes continued throughout 1984.

Dr Hugh Munby from Queen's University, Canada, was a visiting lecturer in the field of classroom studies. Mr Jacob Baldwin and Ms Rita Baldwin were also visiting lecturers in the field of special education. Mr Jorgen Hansen from Denmark was also a welcome visitor as the Elwyn Morey Memorial Lecturer. His contributions and those of Mr and Ms Baldwin were specially timely because of the release of the Integration Report.

There has been a regular stream of overseas visitors attracted by the research efforts of various staff members. Professor Douglas Crawford from Queen's University, Canada — a visitor for three months — was one of a number of mathematics educators who visited before or after the international conference in Adelaide. Their presence was a

helpful stimulus to the new Centre for Mathematics Education established by the faculty. Dr Dudley Blane is its director, and he is to be congratulated on attracting \$50,000 from C.R.A. to support various projects of the centre. We welcome this development and support in a critical field of school learning.

Two academic staff (Ms Goodall and Mr Macpherson) resigned during the year to take up continuing posts elsewhere, and several members of the general staff also resigned. The continued attractiveness of our staff members to other institutions is a healthy sign, but when only some of these can be replaced because of our budgetary constraints, we are aware of the loss rather than the positive indication. Two very valued and senior members of staff have been approved for early retirement at the end of the 1985, and an increasing number of staff are applying for long-service leave. In some senses these too are healthy signs, but in other ways they are adding complexities to the strains we are experiencing.

Dr Gerald Burke was successful in gaining support under the United States-Australia Co-operative Science Program for a very successful seminar at Monash in August 1984 on the theme, 'The Impact of Technology on Work and Education'. We believe this to be the first 'social science' type event to gain support under this agreement.

Two members of staff (Dr Northfield and Dr Gunstone) have taken teaching responsibility for a Year 7 science class at Monash High School for the whole of 1984 — a very tangible mutual benefit in a relationship we are re-establishing after a lapse of four years.

Professional Service

The involvement of faculty members in the wider world of education seems to escalate. Expertise of the type we can provide is needed in the stages of policy formulation and when policy begins to be implemented.

Dr Gilah Leder has been asked to join the Schools Commission group on gifted and talented learners, and Ms Anne McDougall helped to formulate policies about computers and schools at both national and state levels and now is a key resource person in relation to their implementation. Dr Jeff Northfield and I were asked to serve on the Curriculum Working Party at the Ministerial Review of Post-compulsory Schooling. Professor Musgrave continues to serve on committees of V.I.S.E. I was also asked to chair the course development group for the new teacher education program at the Footscray Institute of Technology — a recognition of both the needs in the western suburbs and their rich potential as a resource for such teacher development. Many other examples could be given.

The Monash Teachers Centre has continued to make available to teachers the human and physical resources of the faculty. More than 2,000 teachers were again participants in its many programs. The centre also began some specialised seminars for the particular benefit of the staff of the Education Department's regional offices.

1984 has also been the concluding year of a two-year project generously funded by

Mrs Vera Moore. This support enabled the faculty to second from the Education Department Mrs S.E. Pinchen, who worked in the field of work-related curriculum. A number of valuable initiatives were taken by Mrs Pinchen working with industry groups, trade union groups, teachers and schools. Seminars, conferences, and a videotaped unit of work were other activities of the project which showed clearly the benefits of bringing the various groups together with interest in work-related curriculum. We are grateful to Mrs Moore for supporting this innovative and useful venture. It is hoped that interest in work-related curriculum in a different form continues.

I have been very conscious of the support of my colleagues, both academic and general, in 1984. I hope this report indicates something of their quality, for it is generally very high and it is important for the University more widely to be aware of it in something like the way it is recognised by sound critics elsewhere in Australia and overseas. The maintenance of high quality is a task I readily accept, but it cannot be done from within alone. I would ask Council to do what it can to relieve the constraints to which I have so strongly referred.

Faculty of Engineering

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

Student Entry

The demand for places in the faculty continued at a high level, although the faculty is still concerned about the reduced opportunities in some high schools for students to undertake study of mathematics and science.

In view of the high proportion of overseas students in first year of fifty-three per cent, the Faculty Board recommended that a quota for overseas students similar to that approved for 1983, be imposed in 1984. A quota of twenty-five to thirty per cent of places for first-year Engineering and Science/Engineering was eventually approved for 1984 entry.

Undergraduate Courses

The five-year consecutive degree programs for Bachelor of Engineering/Bachelor of Science are attracting very able students with high demand especially for the program offering B.Sc. (Computer Science) with B.E. (Electrical and Computer Systems Engineering). In conjunction with the Faculty of Economics and Politics, a five-year combined course has been developed for the degrees of Bachelor of Engineering (Civil) and Bachelor of Economics. The course will commence in 1985 with a quota of twenty places. Other engineering departments are currently considering the development of combined degree programs with Economics. The faculty also has under review the possibility of introducing six-year combined courses with the Faculty of Law.

One of the requirements of the engineering course is that the students complete a two-week course of workshop practice training, and these courses have been provided by several technical schools in the metropolitan area. These are good courses and our students gained from the practical training. Unfortunately the technical schools have greatly increased the fee per student each year for several years, finally reaching a level

beyond the financial resources of the faculty. In view of budgetary limitations the faculty reluctantly agreed to suspend the formal requirement that students attend these courses.

Student Load

The student load target of 1,000 E.F.T.S. for the faculty was exceeded by 135 in 1984. This was mostly attributable to high levels of enrolments in second and later years following an improvement in the pass rates at each level of the course.

For 1985, the target for the faculty has been set at 1,206. In view of projected enrolments in second and later years of the course the intake to both the B.E. and B.E./B.Sc. courses have been cut by a total of some seventy-five places.

Research Consulting and Continuing Engineering Education

The faculty maintains a wide range of contact with Australian engineering industry and professional engineering groups; this is reflected in the extensive faculty research program, a wide range of consulting activities of government and industry, and in continuing engineering education programs designed to present latest engineering developments to the profession.

A major concern continues to be the relative absence of young Australian engineers in our research school, the low level of scholarship stipends being a major factor in discouraging Australian students from enrolling for research degrees in Australian universities.

Some 260 research papers were published during the year.

Staff Movements, Honours and Awards

Professor J.D.C. Crisp was awarded the A.G.M. Michell Medal by the College of Mechanical Engineers Australia in 1984, especially for 'notable and sustained leader-

Dean of the Faculty of Engineering, Professor Lance Endersbee, who was elected this year to Fellowship of the Academy of Technological Sciences.



ship in mechanical engineering within the Institution of Engineers, Australia'. He was also elected a member of the Victorian State Committee, C.S.I.R.O.. Professor D.G. Lampard was one of eight Australians to be awarded 1984 Centennial Medals by the Institute of Electrical and Electronics Engineers Inc. of the U.S.A., the award being made for 'leadership in electrical engineering education and contributions to noise theory and absolute capacitance measurement'. The Dean was elected to Fellowship of the Academy of Technological Sciences, and completed a two-year term as a decanal member of Council. Professor K.H. Hunt returned from Outside Studies Program Leave on 10 December. He was appointed Visiting Research Professor at the Arizona State University, Visiting Research Consultant at the University of Florida, and a Distinguished Visiting Professor at Ohio State University. Professor I.J. Polmear completed his two-year term as President of the Australian Institute of Nuclear Science and Engi-

neering. Dr P.LeP. Darvall was appointed to Readership and Dr K.K. Pang was appointed to Readership. Associate Professor R. McPherson completed his two-year term as President of the Australian Ceramic Society. An offer of appointment to the vacant Chair in Electrical Engineering was made to Dr R.A. Jarvis, Reader in Computer Science at Australian National University. He will take up the position on 1 August 1985. Mr B.F. Brennan, Senior Lecturer in Surveying, retired after 19 years teaching in the Department of Civil Engineering.

Funding

The shortage of funds continues to be a major concern. The level of funding for 1984 was inadequate to cover a proper level of staffing for our teaching programs, or to provide quite basic consumables for undergraduate teaching and research. The suspension of the workshop practice training course due to lack of funds is of particular concern to members of the faculty.

Faculty of Law

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

Introduction

The year of George Orwell (1984) passed without any major difficulties for the faculty. However, the difficulties that continue to face the Australian university community, associated with a lack of adequate funding, became increasingly more relevant to this faculty in 1984. In addition, the continued shortage of accommodation, which has been a problem with the faculty for some time, hampered the function of the Faculty Library, and also made it difficult for the faculty to accommodate the ever increasing number of distinguished overseas and interstate visitors who wish to use our excellent facilities during their outside studies or research leave. At the time of writing it is hoped that these difficulties may have been overcome.

During 1984, the faculty had to consider the implications of the introduction of computerised legal retrieval (C.L.I.R.S.) into Australia and Victoria. The faculty was nominated as one of the pilot sites for the introduction of C.L.I.R.S. by the Victorian Attorney-General. It is anticipated that considerable sums of money will need to be spent by the University and the faculty to enable both staff and students to make effective use of this innovative development in legal research.

The faculty agreed during the course of 1984 to establish a Centre of Commercial Law and Applied Legal Research and the formalisation of this initiative will be put to Council at its March meeting. It is anticipated that this centre, which has been given strong support by the Victorian Attorney-General, and also by the Attorney-General's Department in Canberra, will enable the faculty through various initiatives to encourage an ever increasing flow of both outstanding international and interstate visitors, as well as attracting considerable research funds to members of faculty.

In December 1984, Professor Louis Waller was appointed the first Chairman of

the Victorian Law Reform Commission. Professor Waller, however, will be teaching a full course during 1985.

Another major development in 1984 was the grant of research funds to the faculty to undertake curriculum planning which will enable us to undertake teaching of law with special reference to the Aboriginal and the migrant communities of Australia. This is a particularly important development in the light of initiatives being fostered by the Commonwealth government in these areas.

Despite the considerable financial strain we have been able to achieve many of our aims. This has been due to the considerable support that I have received from academic staff, the administrative and secretarial staff of the faculty, the many supporters of the faculty (including the Faculty Law Alumni), and from the University administration.

Students

The faculty enrolments in 1984 were as follows:

	Full time	Part time	Total
B.Juris./LL.B.	105	20	125
B.A./LL.B.	483	50	533
B.Ec./LL.B.	429	35	464
B.Sc./LL.B.	119	5	124
Not for Degree	89	84	173
	2	14	16
	1227	208	1435
Diplomas	5	46	51
LL.M. (Research)	20	107	127
Ph.D.	7	3	10
	32		
	156		
	188		
Total			1623
E.F.T.S. 1,198			

Staff

The notional equivalent academic staff (E.A.S.) of the Law School in 1984, was 80.4 (including casual staff). Actual appointments, other than casual staff, as at 31 December 1984, totalled 69.3 (including staff on leave without pay).

Visitors

The Law School entertained a number of distinguished visitors from all branches of the profession and from various countries during the year. Many of them came to the Law School for short periods and gave lectures or conducted seminars for students or staff. Visitors included: Professor Don Carter of Queens University, Canada; Professor D.W. Elliott of the University of Newcastle upon Tyne; Mr Nick Gaskell of The University, Southampton; Professor Roy Goode of Queen Mary College, University of London; Professor Ryozo Kato of Nanzan University; and Professor Willard Pedrick of Arizona State University.

The Honourable Mr Justice Ivor Richardson of the New Zealand Court of Appeal visited the faculty for six weeks and was involved in the graduate Tax program. He also attended the intensive workshop on tax avoidance held in November, at which he delivered a paper.

Dr Colin Tapper, Reader in Law at Old Souls College, Oxford, was the University Visiting Professor for 1984. Dr Tapper, an expert in the area of computers and the law, and evidence, also delivered the Sir Wilfred Fullager Memorial Lecture, on the topic 'Genius and Janus: Information, Technology and the Law'.

In July the faculty hosted a public oration by Professor Marjorie Fine Knowles, a distinguished U.S. scholar in the field of women's rights, on the subject; 'An American Perspective on Affirmative Action and Equal Employment Opportunities for Women'.

Graduate Studies Program and Summer Teaching

The faculty offers an extensive graduate studies program which includes Doctor of Philosophy, Master of Laws (both by thesis alone and by thesis and advanced courses), and graduate diplomas in Commercial Law, Family Law, International and Comparative Law and Taxation Law. The diploma programs are available to persons from other disciplines (social workers, accountants, and economists).

In 1984 there were 200 candidates enrolled in the graduate program including twenty from thirteen overseas countries. Twenty semester courses were taught over the year. Twenty-eight candidates satisfactorily completed their courses of study — one Ph.D., seventeen LL.M and ten Diploma.

The Graduate Studies Committee commenced a review of courses offered and the degree structure of the graduate. It is anticipated this will be completed in 1985.

Summer teaching was maintained on a reduced level for 1984/85. A total of twelve subjects were taught during the summer semester.

Student Activities

The Professorial Experience Scheme has again been maintained at a satisfactory level.

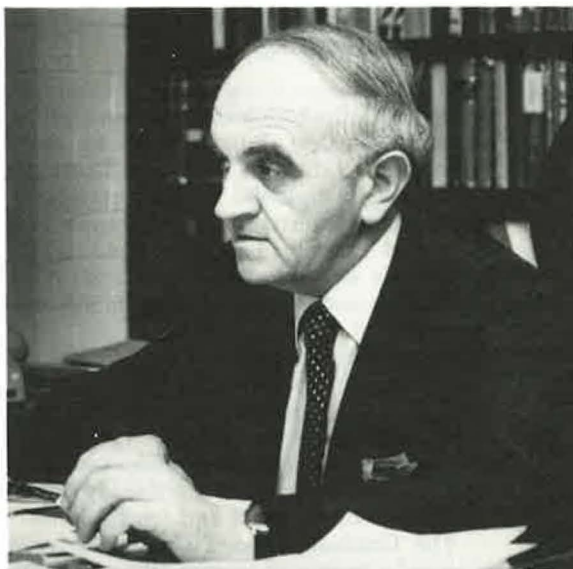
The Law Students' Society had a busy and successful year. The students continued to take an active interest in the development of courses and programs within the faculty.

Monash University Law Alumni

The Alumni organised a number of functions during the year. Principal speakers included Mr Justice Hampel of the Victorian Supreme Court and the Attorney-General of Victoria, Mr Jim Kennan QC. Membership of the Alumni has remained fairly steady. I am pleased to note that the Alumni has encouraged members to make contributions

Professor Louis Waller who was appointed the first Chairman of the Victorian Law Reform Commission in December.

— Photo *Richard Crompton*



to the Faculty Library and this has assisted the library in difficult times.

Law Library

With the library's recurrent budget being supplemented by a grant of some \$22,000 from the Victoria Law Foundation for monographs and serial backsets, and by the Law Faculty's continued contribution to subscriptions to nominated journals, it was possible to meet the day-to-day demands of users, and to continue the gradual development of the research collections.

Hopes for an easing of the accommodation problem have not been fulfilled. A small amount of shelving was added during the year, but the miniscule staff tea-room now houses a computer terminal, a printer, and the library's microform readers.

In common with most libraries, the Law

Library has had its share of book vandals among its users, and their depredations have increased markedly over the past two or three years. This year, for the first time, law library staff caught one of these offenders in the act and with a substantial number of pages ripped from library volumes in her possession. The penalties inflicted bear no relationship to the gravity of this criminal action, to its cost to the University in terms of materials that have to be replaced, and the staff time involved, or to the inconvenience it caused to other library users. Furthermore, the morale of the library staff, particularly those directly involved with the case, has been affected. There is an urgent need for the disciplinary powers of senior library staff to be extended, so that such behaviour and its devastating effects can be minimised.

A national survey of law libraries in Australia was supervised by the law librarian, and the surveyor's report and recommendations were published early in the year. Two hundred and fifty copies have been sold to date. The major recommendations based on the surveyor's findings emphasise the need for the orderly development in Australia of law library collections, and the central role that an adequately staffed National Library should play in such a development.

The Law Library was very grateful to receive a donation of \$2285 from the Alumni which enabled the library to purchase extra copies of books on reserve.

Research and Professional Activities

Research in the faculty has been maintained at an excellent level. During the year, members of the faculty published, either alone or in collaboration with others, a total of twenty books. In addition, members of the faculty are directly responsible for editing a number of journals and surveys.

A number of research grants have been received from within the University, the A.R.G.S., government and private bodies for research into various areas of law.

The faculty continues to be strongly represented on professional bodies both at a national and state level. A number of members of faculty are consultants and advisers

to various committees of the Leo Cussen Institute for Continuing Legal Education, the Law Institute of Victoria and the Law Council of Australia.

Continuing Legal Education

The Continuing Legal Education calendar for 1984 consisted of thirty-four seminars and workshops. As has become usual, taxation and commercial law topics formed the core of topics with programs of a more wide ranging nature — such as 'Fault and Violence in the Family Court' — providing regular highlights.

Visitors to the faculty from overseas contributed significantly to the prestige and scope of the C.L.E. program and it is planned to continue and expand their role in this regard.

During the latter part of 1984 there was some discussion between the Leo Cussen Institute, the Law Institute and the faculty regarding competition and the role each institution might play in the field of C.L.E. in Victoria. The Law Faculty is satisfied that the co-operation and assistance between institutions that presently exists will be sufficient in future not only to ensure a high standard of programs but that a range and depth will be ensured in Victoria that may not otherwise be possible.

Faculty of Medicine

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

Students

The total number of E.F.T.S. in the faculty at 30 April 1984 was 1,767. There were 943 medical undergraduates distributed as follows: Year I: 145; Year II: 160; Year III: 160; Year IV: 154; Year V: 153; Year VI: 158; B.Med.Sc.: 13 Female entrants comprised 43 per cent of the first year intake.

Staff

Academic staff comprised 130 full-time and fifty-eight part-time members. Clinical teachers included some 270 visiting medical staff and seventy full-time hospital medical staff in affiliated hospitals and approximately 350 general practitioners.

Honours and Distinctions

Professor H.G. Boura was appointed a Chartered Biologist by the Institute of Biology. Dr A. Copolov was awarded the inaugural Organon Prize by The Australian Society for Psychiatric Research. Professor D.M. de Kretser was invited to deliver the 'Serona Lecture' at the annual meeting of the American Society of Andrology to be held in conjunction with the III International Congress of Andrology in Boston in April 1985. Professor V.C. Marshall was elected President of the Australasian Society of Nephrology for 1984 and 1985. Professor R.V. Short was elected to Fellowship of the Australian Academy of Science.

Appointment of Professors

During 1984 the faculty welcomed the appointment of two new Professors: Professor James W. Goding was appointed to the Chair of Pathology left vacant by the retirement of Professor R.C. Nairn. At the time of his appointment Professor Goding was a Senior Research Fellow at the Walter and Eliza Hall Institute of Medical Research. Professor Martin B. Van Der Weyden, Director of Haematology at Alfred Hospital, was ap-

pointed to an Honorary Chair of Haematology in the Department of Pathology and Immunology. Prior to his appointment Professor Van Der Weyden held the position of Clinical Associate Professor in the Department of Medicine, Alfred Hospital.

Retirements

Professor R.C. Nairn, Foundation Professor of Pathology since 8 January 1963, and Professor Sir Edward Hughes, Professor of Surgery at Alfred Hospital since 6 November 1973, both retired on 31 December 1984. The outstanding contributions made by each is acknowledged in other documents. In recognition of their distinguished service to the faculty and to the University, the title of Emeritus Professor was conferred on both Professors by Council on their retirements.

Deaths

The faculty was saddened by the deaths of Dr H.A. Luke and Dr G.R.O. Walpole during 1984. Both had had very close association with the Faculty of Medicine and had made a substantial contribution to the development of the Medical School.

Dr Luke, Director of Radiology and Chairman of Radiological Sciences at Alfred Hospital died on 30 November. He was an important and brilliant figure in radiology in Australia and had made substantial advances in imaging procedures in a hospital setting by his design and re-equipping of the Department of Radiology at Alfred Hospital in the early 1960s. He was a Consultant Radiologist to the Health Commission of Victoria, the Commonwealth Department of Health, the Standards Association of Australia and the Royal Australian Navy. In the 1970s he was influential in developing radiological services in Malaysia and supervised the installation of equipment funded by the Commonwealth Government. In 1981 he introduced the first full-body computerised tomographic scanner in Victorian hospitals

Dr James Goding who was appointed to the Chair of Pathology. Dr Goding is the first of the University's graduates to be appointed to a chair at Monash.



at Alfred Hospital. Dr Luke's outstanding personal and professional qualities and breadth of knowledge in the radiological sciences earned for him the respect and affection of all of his colleagues.

Dr Walpole, who died on 26 April, was a member of the Faculty Board and had been associated with the activities of the Faculty of Medicine at Monash University for many years. He was a very successful managing editor of the journal *Australian Family Physician* and from that assignment he moved to become Medical Director of the Victorian Academy of General Practice. In this capacity he played a significant part in the development of the highly successful Fellowship program. Dr Walpole organised the original Student Attachment Scheme and was instrumental in the development of studies in General Practice and was influential in the establishment of the Department of Community

Medicine in the faculty. He was later appointed an Associate in the Department of Community Medicine at Monash University. In his capacity as Chairman of the Faculty Executive Board of the Royal Australian College of General Practitioners he negotiated the move to 'Trawalla', the home of the College and its associated organisations. Among them is the Doctors' Health Advisory Service, another program which he conceived and brought to a successful completion. Dr Walpole kept in close touch with the AMA through many activities, and was elected to Branch Council in 1982. He was a member of the Council at the time of his death.

Visitors

Visitors to the faculty in 1984 included: Professor V. Abate, University of Naples, Italy

(Obstetrics and Gynaecology); Dr D. Armstrong, University of Western Ontario, Canada (Obstetrics and Gynaecology); Professor R.H. Aster, The Blood Center of Southeastern Wisconsin, U.S.A. (Medicine); Professor R. Beard, University of London, U.K. (Obstetrics and Gynaecology); Professor G. Bernardi, Institute Jacques Monod, France (Molecular Biology and Medicine); Dr D.M. Berwick, Harvard School of Public Health, U.S.A. (Paediatrics); Dr J.B. Clegg, Nuffield Department of Clinical Medicine, U.K. (Anatomy); Professor I. Cook, University of Sheffield, U.K. (Obstetrics and Gynaecology); Dr Z.J. Fu, Institute of Epidemiology and Microbiology (China); Dr J. Giddings, University of Wales College of Medicine, U.K. (Medicine); Professor T. Hattori, Hiroshima University, Japan (Pathology and Immunology); Dr E. Herrera, Universidad del Valle Columbia (Anatomy); Professor E.A. Johnson, Duke University Medical Center U.S.A. (Physiology); Professor P.J. Lachmann, University of Cambridge, U.K. (Pathology and Immunology); Professor A.M. Michelson, Institut de Biologie Physico-Chimique, France (Molecular Biology and Medicine); Dr Marilyn Monk, University College, U.K. (Obstetrics and Gynaecology); Dr C. Nancarrow, C.S.I.R.O., N.S.W. (Physiology); Dr P. O'Leary, Royal Perth Hospital, W.A. (Anatomy); Dr H. Recher, Max Planck Institute for Psychiatry, Munich (Psychological Medicine); Professor M. Rubinstein, Weizman Institute of Science, Israel (Molecular Biology and Medicine); Professor P. Sever, University of London, U.K. (Medicine); Professor J.G. Sharp, University of Nebraska Medical School, U.S.A. (Anatomy); Mr I. Todd, London University, U.K. (Surgery); Dr R.M. Wadsworth, University of Strathclyde, Scotland (Physiology); Mr R. Winston, University of London, U.K. (Obstetrics and Gynaecology); Professor K. Yagi, Institute of Applied Biochemistry, Japan (Molecular Biology and Medicine); and Dr S. Yun-tian, National Research Institute for Family Planning, China (Anatomy).

Teaching Hospitals

Over the past year the major change affecting teaching hospitals affiliated with Monash University was the decision of the State Government to proceed with the recommendations of the Yeatman Committee concerning the relocation of Prince Henry's Hospital at Sunshine.

In preparing its submission to the committee, the University conveyed the view that it would support any decision to relocate the hospital provided that it was in the best interests of the community, that it was consistent with aims acceptable to the hospital, that it would preserve the integrity of the clinical school at the hospital and that funds for the construction of new University departments were secured before the project was commenced. At the first meeting of the Steering Committee established for the planning of the relocation, the University made it clear that it could not guarantee that the funds needed for a new clinical school would be available from Commonwealth sources.

The construction of the new Queen Victoria Medical Centre at Clayton is progressing satisfactorily and it is likely that the centre will be commissioned as planned in the early part of 1987. The location to Clayton as a major referral centre for the southeastern metropolitan area brings additional responsibilities including a role as a State referral centre in some specialty areas of paediatrics and obstetrics. An expanded role in child and adolescent psychiatry is envisaged also.

Alfred Hospital, in association with the Motor Accident Board, is developing a unit to deal with the consequences of road trauma. Margaret Coles House was closed recently as a cost-saving procedure. The decision was made reluctantly but was inevitable in view of funding available to the Hospital, but the space which became available has permitted an upgrading of facilities for the Hospital Psychiatry Unit.

The Royal Southern Memorial Hospital faced a difficult period over the past year. Honorary Associate Professor Jack Nayman, who has contributed so effectively to teaching in Surgery over some twenty years, retired from his appointment as Medical Director and Dean of the Clinical School of the Hospital. He was followed in these appointments by Dr Bryan Hudson, formerly Foundation Professor of Medicine at Prince Henry's Hospital (1962-1972) and Senior Principal Research Fellow with the National Health and Medical Research Council at the Florey Institute from 1972-1984.

Agreements of affiliation between the University and Moorabbin and Dandenong Hospitals have been reached and, while these certainly formalise the close relation which has been established with each Hospital over recent years, the new association is an important one. Each hospital makes its own special contribution to medical undergraduate teaching and, as with medical staff in all affiliated hospitals, the Medical School is grateful to members of the medical staff of these two hospitals for their willing co-oper-

ation in the training of our medical graduates.

Research

Funds obtained by the faculty in 1984 for new and continuing projects were \$2,250,876 from the National Health and Medical Research Council, and \$286,807 from the Australian Research Grants Committee. Research funds from other sources amounted to \$2,519,464 which includes a most welcome \$290,340 from FS13. Total outside support for the faculty amounted to \$5,057,147. Research productivity, as evidenced by publications in international journals of high standing, is commendably high. However decisions by granting bodies in 1984 which determine levels of support for work to be carried out in 1985 make it clear that, when escalating costs are taken into consideration, a significant fall in research funding faces the faculty in the future. This prospect adds an additional level of concern about the funding of the activities which are the proper responsibility of our faculty.

Faculty of Science

Acting Dean: Professor R.H.Day, B.Sc.(W.Aust.), Ph.D.(Brist.), F.A.Ps.S., F.A.S.S.A.

Student Enrolment

The steady increase in the faculty over the previous four years was brought to a halt in 1984, and in fact, fell by 3.4 per cent to 2,761. This decrease was primarily the result of reductions in the first-year intake initiated in 1982 and the effects these have had on higher year enrolments. The reduction in intake, which has been necessary for the

Deanship of the Faculty

Emeritus Professor J.M. Swan, who held the Deanship of the faculty for almost a decade, retired from this position early in August 1984. Originally appointed as Professor of Organic Chemistry at Monash in 1966 he subsequently served in the position of Pro-Vice-Chancellor for four years before taking up the Deanship in 1976. Tributes were paid to Professor Swan for his contributions to the University in the form of a minute of appreciation passed by the Faculty Board of the Faculty of Science, a similar minute before the Professorial Board, and, by the conferment of the title of Emeritus Professor by the University Council.

Professor Swan, who chose to retire from the Deanship before normal age retirement, is to remain in the University on a part-time basis carrying out special tasks for the Vice-Chancellor, including the organisation of the 55th ANZAAS Congress at Monash in 1985.

As Associate Dean I was appointed to be Acting Dean until such time as a new Dean could be appointed and take up duties. After world-wide advertising the Deanship Selection Committee recommended to Council the appointment of Professor W.R.A. Muntz, professor of Biology and head of the Department of Biological Science at the University of Stirling, Scotland and Council accepted this recommendation. Professor Muntz has indicated acceptance of the appointment and is expected to take up duties early in February 1985.

faculty to comply with the E.F.T.S. target laid down by the University, has been relatively sharp with the consequence that the total first-year faculty enrolment of 651 in 1984 was the lowest since 1977.

It is interesting to note that the growing imbalance in recent years in the number of available places in the faculty compared to the increasing demand for places has not only led to an increase in the quality of admitted students, as measured by the minimum H.S.C. Anderson score, but also to a marked improvement in pass and progression rates. Thus the proportions of students progressing from first year to second year and from second to third year have increased markedly over the last several years. This has had a cushioning effect on the flow-through to later years of the reductions in first year intake.

At higher-degree level the upward movement in enrolment numbers experienced in the last several years was halted in 1984, with total net enrolments of 399.

In spite of the 3.4 per cent fall in total faculty net enrolments, the enrolment measured in E.F.T.S. terms decreased only marginally, from 2,765 to 2,740, or by less than 1 per cent. Whereas the source for discrepancies in changes in the relation between net enrolments and E.F.T.S. enrolments could be either change in the proportion of part-time enrolments, or in inter-faculty teaching patterns, it is clear that the small reduction in faculty E.F.T.S. compared to the larger increase in net enrolments is largely due to the latter. Science departments carry a heavy teaching load in servicing other faculty students, particularly at first year level, and this load, which is directly reflected in E.F.T.S. for the faculty, has been on the increase for several years. In 1984 greater first-year engineering enrolments than in other recent years was a substantial factor in boosting the first-year service teaching load. At third year level detailed statistical analysis shows that science students in 1984 have tended to choose an increased proportion of 'home' faculty subjects than earlier with a

resultant increase in faculty E.F.T.S. relative to the number of third year science students.

Undergraduate Courses

No major alterations were made to the range of studies available to undergraduate students in 1984, however, course material was updated in a number of subjects as part of endeavours by departments to ensure the relevance of subject content to the changing needs of students.

As a consequence of the general review conducted into the department of Computer Science in 1983 the Faculty Board approved in 1984 the introduction of a second year minor subject in computing methods to be offered for the first time in 1985. The purpose of the new subject, Computer Methods 205, is to give a grounding in computing methods of relevance to studies at later-year level in disciplines other than computer science.

The Bachelor of Engineering/Bachelor of Science program, first introduced formally in 1981, is now well established and continues to attract well qualified applicants. Its popularity has increased significantly each year and with the intake held steady at seventy-five students per year, the H.S.C. Anderson cut-off selection score has now soared to well over three hundred. It is regrettable that the intake into this program has had to be reduced to sixty students in 1985, due to the over-enrolment in the Faculty of Engineering in 1984.

Key Centres of Teaching and Research

The faculty entertains high hopes for the establishment of a Key Centre of Teaching and Research benefiting science students, although the Government has yet to consider proposals made by universities and colleges of advanced education around the country.

In its guidelines to the C.T.E.C. for the 1985-87 triennium, the Government made

it clear that it would provide \$1 million for each of the years of the triennium for the establishment of seven to ten such centres. The principal aim on the part of the Government in this initiative is to provide for the concentration and coordination of excellence with special emphasis on teaching relevant to national economic, technological and social objectives and stressing cooperation between high education and industry.

The top two priorities submitted by the faculty were for the establishment of a Joint Universities Centre for Statistical Sciences and a Joint Universities Centre for Advanced Studies in Geosciences. Both of these proposals were the outcome of discussion and collaboration with the relevant departments at the University of Melbourne and La Trobe University. The other two universities have also made these proposals their top priority in their submission to the C.T.E.C.

Graduate Teaching and Research

Whereas legislative provisions exist for coursework Master of Science studies to be pursued within the faculty all graduate studies have been undertaken by research since 1978, when a contingent of students completed coursework masters degree studies. In the year ending 30 June 1984 seventeen students completed M.Sc. studies and thirty-five completed their studies for a Doctor of Philosophy through the faculty. The combined total of higher degree completions was the highest since 1978. This figure reflects the vigour of the research effort in the faculty and the attractiveness of research programs to post-graduate students.

The matter of research funding was a central concern to the faculty in 1984. The open letter of Professor Peter W. Sheehan, Chairman of A.R.G.S. appearing in the national press served to focus attention on the shortfall in funding for A.R.G.S. compared to previous Government promises. The faculty initiated discussions with the Deputy Vice-Chancellor and the Vice-Chancellor which canvassed possible courses of action for im-

Dr Carl Moppert of the Department of Mathematics who died in September this year. The photograph was taken in 1980 with one of his monuments at Monash, the sundial on the wall of the Union Building.
— Photo *The Sun*



pressing the Government with the need for research, including scientific fundamental and applied research, to be better funded in the national interest. It is clear that the shortfall in A.R.G.S. funding would also have serious implications for the employment of research assistants and other grant-supported staff in the faculty.

In spite of the concern with research funding which primarily applies to 1985 and later, total research support from funding agencies rose again in 1984, to a sum in excess of \$2 million. Details of research undertaken, the research papers and theses published, and the higher degrees conferred are reported in detail in the University publication *Research Report 1984*.

Staffing

After a few years of falling numbers in academic staff the faculty, in terms of filled positions, in 1984 saw an increase in total numbers as some earlier vacancies were filled and previous initiatives reached a more advanced stage of development. The budget situation, although as difficult as ever, was not significantly worsened by the increase in the number of filled positions, mainly because new appointments generally were appointed at lower levels than the previous establishment.

The expansion of the Department of Computer Science as recommended by a special committee under the chairmanship of the Deputy Vice-Chancellor, and referred to in last year's report, led to an initiative to make a second professorial appointment in

the department. Although a particular appointment had been approved by Council in 1984 the position remained unfilled as at the end of the year. The resignation of Professor B.E. Hobbs, of the Department of Earth Sciences, who took up a research position at the C.S.I.R.O., created another Chair vacancy which was in the process of being filled at the end of the year.

Professor R.F.E. Van der Borgh retired as Chairman of the Committee on Undergraduate Matters and Associate Professor A.A. Holland relinquished his role as Chairman of the Committee on Graduate Matters. They were replaced by Associate Professor I.D. Rae and Dr G.A. Watterson respectively. Mr N. Cameron concluded a three-year appointment as half-time Subdean to be replaced by Mrs B.L. Cumming.

Members of the staff of the faculty have continued to play a full and vigorous role in the affairs of scientific societies, on international bodies, and on government-sponsored bodies and boards outside the University. The active engagement of faculty staff in scientific responsibilities beyond the University itself is both commendable and necessary for the continuing health of science in Australia.

Visitors

As in previous years, the Faculty of Science has attracted a large number of both short-term and long-term visitors. The large number of visitors serves to indicate the esteem in which the staff of the faculty and their scholarly activities are held.

Library

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

A large part of a research library's money is spent overseas, and a large part of that is committed before it is known what varying currency rates will do to the commitment. In 1984 we had a most pleasant surprise: the Australian dollar followed the American dollar on its continuing climb, and though it lagged somewhat, that loss was more than made up by its improvement against other currencies, especially sterling. As well, book prices in both U.K. and U.S.A. were relatively stable, and the overall result was a very welcome drop in per-title average cost of 2.5 per cent. Even the normally rocketing cost of periodicals was slowed, to 10.3 per cent over the previous year's average.

Even so, the limitation in funds available for acquisitions was made bearable only because of the extensive periodical cancellation programs undertaken in the previous year (especially in the Hargrave Library) and in 1984 (especially in the Humanities and Social Sciences Library). It is clear that although such cancellations are recognised as necessary, it is also recognised that in fact the research capability of the University is reduced by such measures — as by the inability to subscribe to new and important journals.

Sadly, one expression of frustration at this necessity was open competition between the branch libraries for funds, resulting in a temporary imbalance which would have resulted in benefits to nobody, if it had not been rectified later in the year.

Catalogued intake of new material was 47,346 volumes compared to 50,156 in 1983. Total stock of the library at the end of year was 1,212,408 volumes.

Concern was expressed in the last Annual Report that the commercial computer bureau which provided support for our catalogue production may not have the will or ability to maintain adequate service. Two important steps were taken to safeguard against this possibility.

The Library joined the Australian Bibliographic Network, an on-line cataloguing

support system run by the National Library of Australia, having been unwilling to do so when many of the other major libraries had joined in the previous year. It was felt that many of the problems which had at that time made the prospect less than attractive had now been resolved. There was the expected delay in connection of Telecom lines; much time was spent in the selection of terminals, which were needed to be compatible with Monet (the Monash local area network) as well as ABN; selection and delivery of appropriate furniture, which it was hoped would prevent health problems associated with VDUs; and training sessions, conducted by CAVAL, for all those who would be using the unfamiliar system. The decision was made early in the year, but it was October before the first cataloguing was done on the system, and mid-December before all our work was put through it. At the same time, work intensified in the development of SESAME, the Library's own on-line catalogue. There was an unfortunate delay in plans for a temporary increase in computing staff to speed development, and in fact the retirement of one programmer combined with the difficulty of mid-year recruiting meant that resources available were less, not more, than normal.

Installation at the Computer Centre of a Burroughs 7800, though welcomed for its great increase in power and (one hopes) less time down, also required much revision of existing programs. With the help of a contract programmer, and a very considerable effort by the rest of the tiny programming staff, the first stage of SESAME was in day-to-day use in the Acquisitions Department by September. The first stage involved on-line searching and updating of all acquisitions records. Staff using the system found immediate advantage in the variety of possible points of access; staff in branches were pleased at having up-to-date information on books in process at their own desks; and the ability to include call numbers in the records made it possible to clarify all books as soon

as received, without waiting for cataloguing to be complete. This latter change was implemented before the end of the year.

All these developments involved great numbers of staff at all levels and from all areas of the library, and much time devoted to planning and development of specifications for the various systems. Especially against a background of reduced staff, it says much for the good humour and spirit of all concerned, that throughput did not fall away during development and implementation of these changes. Mention must particularly be made of the Cataloguing Librarian, Mrs Barbara Tapply, who retired after nineteen years in the library. Her calm control of an often explosive situation made possible quite radical changes in what is usually perceived as a most conservative area.

Usage of the library continued heavy, though loans in all areas (except, oddly, Queen Victoria Hospital) showed a slight, unexplained fall, from 649,991 to 626,394. Inter-library loans also fell but not significantly: from 23,355 to 23,171. Our borrowing from other libraries was again higher than in a previous year, 8,234 as against 7,244, certainly because of the reduction in our own buying.

Inter-library loans have been important to us since the University started: firstly as a necessary support to our tiny resources, then later when we took our place among the larger libraries, as a necessary but labour-intensive service to others. The perceived inefficiency of the whole interloan system, and the lack of incentive to provide good service (though Monash is recognised as one of the best providers), has worried the library community for some years. Various solutions have been canvassed, the most adventurous emerging from a conference convened by the Australian Library Association in November. The concept was accepted there of a service organisation outside the libraries, but controlled by them, using primarily the resources of the National Library and other libraries in Canberra. If it

proves possible it is bound to make a considerable difference to Monash's pattern of interloan use.

An important aspect of a library's service, especially a research library's, is its education of readers in library use and especially the tools available within the users' own discipline. All branches provide orientation tours to new users, and all gave formal classes, attended in the Humanities and Social Sciences Library alone by some 1,900 students. The possibilities of computerised bibliographic searching are increasingly becoming part of this scene, and the only limits seem to be financial ones. The host computers and their data bases, in Australia, U.S.A., England and the continent of Europe are continually expanding, as is the range of subjects they address: medicine, chemistry, bibliography, current affairs... The limits are financial ones, since none of these services is free. To do proper research, one must access these bases, but funding authorities will not pay for it. To support proper research, the library must provide access, but it has no funding to do so. The problem must be faced, and soon.

The question (at least of training in computer searching) has been faced by one new computerised service, the Computerised Legal Information Retrieval Service C.L.I.R.S.): recognising the potential importance of such a tool to lawyers, there are plans for a test sample of the data base mounted at several law schools, of which Monash is to be one. There is at least, a suggestion that as well, free access, or perhaps reduced rates, will be available to law students, to provide necessary hands-on experience of the data base itself. The Law School, and especially the Law Library, will be involved in such a test.

It should be mentioned that one of the files to be available on C.L.I.R.S. will be the *Index to Statutes and Case Notes*, prepared by the Law Library since 1968.

Once again we must thank the many benefactors who helped the library grow, either

responding to the Library Appeal, as did so many hundred of our graduates and parents of students, or by individual donations of books or the cash to buy them. The Parents' Group again made the library the object of their largest donation, this time with a very healthy additional sum earmarked for the Hargrave Library. Ex-members of that Group's Committee have maintained the contact and the tradition, via the Monash Ex-Committee Club, of a donation to the library. A further fine volume was presented by members of the Club, as a memorial, on the death of a much-loved member.

The Friends of Monash University Library have always accepted it as their brief to fund the purchase of fine or rare items the library could not otherwise afford. Two most interesting pieces were acquired this year, both enriching the Swift collection: a

set of fifty-two issues of *The Examiner* (1710–11) containing all of Swift's contribution to the paper — in perfect condition — and *A New and Correct Map of the whole World* by the famous Hermon Moll. It was from the outline of North-West Australia on this map that Swift traced his Lilliput.

We are thankful to Mrs Elizabeth Durre, who presented us with some forty four volumes from Sir John Monash's library, as well as a collection of photographs of his family.

Apart from these high spots, the library's acquisitions during the year were necessarily restricted to the practical and the immediate. It was a year of keeping up — or not quite keeping up — with the day-to-day needs of teaching and research, not of expanding horizons.

UNIVERSITY FACILITIES

Alexander Theatre

The Alexander Theatre has again had a very busy year with 315 performances being staged in the theatre, and it continues to be identified with a multitude of community activities, theatrical and otherwise. Total attendances for the year for the first time passed one million.

In terms of its own performance initiatives, 1984 was a mixed year for the theatre. Children's theatre has always been a high priority with the Alexander Theatre Committee; the productions for children in 1984 were mostly extremely popular, and were all of a very pleasing standard. The pattern was set in January by a presentation of *Peter Pan* that managed the rare feat of amusing its adult audience while thoroughly involving the children; the season attracted an audience of 12,174, a very respectable result particularly in the light of growing city competition in the summer holidays. *Winnie the Pooh* was staged in May with astonishing success. An average audience of 98 per cent capacity, and the fact that the show was booked out four days before its advertised close, testified to its great appeal. *Once Upon a Time* in September was less popular, but maintained the theatre's reputation for providing quality entertainment in this area. The Saturday Club continues to flourish; again, as is conspicuously the case with the holiday attractions, it is the younger (4-8 year-old) group that provides an increasing majority of these audiences.

The Monash Festival of Theatre, to which the theatre makes a substantial financial contribution, consisted of productions at the theatre of *Hello Dolly* (M.U.M.C.O.), *As You Like It* (Shakespeare Society), and *The Knacker's A.B.C.* (Monash Players), as well as a lively and moving 'associated production' by Players *On the Wallaby* at the Union Theatre. Audiences at the Alexander Theatre were disappointing, but all three productions offered a good deal of interest, particularly *The Knacker's A.B.C.*, which was a pleasingly en-

terprising choice of play. Too often in the past participating groups have found the size and atmosphere of the theatre, and the financial scale of the operation, inhibiting; the tendency has been to respond conservatively, with what has been understood to be (but rarely proved) a 'commercial' product. One of the Theatre Committee's intentions in proposing the festival was to provide an invitation to be more daring than that, and it is heartening to see it so creditably accepted.

As it prepares for its nineteenth year of operation, the theatre is about to embark on its most substantial program of capital works so far. In 1985 extensive development of the theatre's workshop and dressing-room facilities will begin. At the same time all seating will be replaced, and we will, we hope, see the installation of the long-delayed theatre bar. While the University has made generous provision for part of the outlay which these projects will involve, the major share of the costs (some 75 per cent) will be met from the theatre's own resources. The committee will be concerned to ensure that these commitments do not place too many constraints on the theatre's capacity to take its own creative initiatives, and that it continues to meet effectively the very diverse needs which it serves at present.

Again the committee would like to record its appreciation of the very dedicated service through 1984 of the theatre's management and staff.

Monash University Bookshop

The Bookshop has declared a 1984 loss of \$41,576.

Many of the factors which led to this loss were the result of a series of Bookshop Board and management decisions to adopt more realistic accounting methods than those used previously, and to incur certain extraordinary staff costs which will produce benefits over the next few years. The most important of the decisions were: to write off,

as unsaleable, stock previously valued at over \$32,000; to increase the rate at which aged stock is written down (cost: \$9,985); to change the method of valuing fixed assets (cost: \$4,145); to provide for excess annual leave owed to staff (cost: \$3,040); to approve, because of expected medium-term cost savings, the application from one employee for early retirement (cost: \$11,544); to close the Bookshop's branch at Prahran (liquidation costs: \$4,901).

Another serious factor was the apparent disappearance of about \$40,000 worth of stock. After reviewing this problem at some length the Board reported its belief that there were doubts about some aspects of the 1983 accounts. However it proposed to take no further action as the difficulties seem to have been overcome in 1984.

Nett sales at Monash rose by 3 per cent to \$1,723,726, while expenses fell by 2 per cent as a result of a reduction in staff from twenty-two to eighteen.

During the year several steps were taken to improve Bookshop services. The range of books is now more appropriate to a university bookshop. Some progress has been made with staff training. In October the discount to customers was increased to ten per cent on books priced at more than six dollars and is now in line with discounts offered by other university bookshops. In 1985 the Bookshop will give about \$133,000 in discount, compared with \$43,666 in 1984 and \$33,500 in 1983. It is still expected that the Bookshop's income will cover costs. To maintain its capital base, however, the Bookshop needs to do more than cover costs, and the severity of Union and other charges makes this difficult.

Religious Centre

Changes in the Chaplaincy at the beginning of the year included the taking up of part-time appointments by Paster Peter Pfitzner, Lutheran Chaplain, and Rabbi Michael Katz, Chaplain to Jewish students. Mr Andrew

Clifton made weekly visits as Christian Science adviser. Father Laurence Foote, O.P., Roman Catholic Chaplain, and the Reverend Philip Huggins, Anglican Chaplain, continued to minister to the University community throughout the year.

The Religious Centre continued to be used daily for individual meditation and services for various faiths. The campus religious societies utilised the Religious Centre facilities for meetings and discussion groups and a number of outside organisations also used the centre for seminars, recitals, and services. Bookings were made for the celebration of 104 weddings and several baptisms, funerals, and memorial services were conducted in the chapel.

A series of fourteen weekly recitals was held during second and third terms, attracting students, staff, and visitors. The recitals featured organ, harpsichord, piano, voice, and instrumental groups.

As in the previous two years, an interfaith service was held to mark the commencement of the academic year. The service was conducted jointly by the Chaplains with the address being given by the Right Reverend Eric D'Arcy, Bishop of Sale.

Extensive research by Mr Peter Janssen into the history of the Religious Centre culminated in the publication during the year of the work entitled *Monash University Religious Centre*.

Careers and Appointments Service

Despite the turnover of professional staff, and the absence of the Officer-in-Charge on long service leave, 1984 was a year of achievement for the Careers and Appointments Service.

The stringency of University funding meant increased reliance on the good will of employers to provide essential funds for the service. Publications continued to attract substantial support from employers, with additional printings of *Interview Questions*, *Graduate Starting Salaries*, *Hints for Job Hunters*,

and *On Starting Work* being fully subsidised. Some assistance in meeting *Careers Weekly* printing costs in 1985 has been promised. A book titled *Graduate Recruiting*, a manual for employers, was a significant achievement attracting media publicity.

Complying with requests from schools for visits from staff reached record levels. Approximately 200 requests involved staff in talking to about 8,000 secondary students on issues covering course and subject choice, deferment, accommodation costs, personal finance, study skills, job and careers prospects, casual employment, interview and job seeking skills, and decision making. Enquiries from prospective students not currently attending school continued at a high level. This group contains many persons whose prolonged absence from the paid work force and formal schooling requires a higher level of counselling skill.

Annual collection of statistics undertaken in co-operation with the Graduate Careers Council of Australia continued. The most recent statistics, for 1983 graduates, reveals a further decline in unemployment and a strong demand exists for graduates in teaching, banking, public accounting and computing. This demand is expected to continue throughout 1985. The sluggish state of demand for graduates from high technology employers is still a cause for concern from a national as well as a local standpoint.

The Careers and Appointments Service devoted considerable efforts to improving its contacts with employers in 1984. This activity which resulted in increased participation in on campus recruiting, improved support, and increased job vacancy notifications will continue to receive high priority throughout 1985.

Lack of time and the inexperience of staff limited the amount of research that could be undertaken. Major surveys completed included graduate starting salaries, which is by now an annual survey, and a study of graduates in economics in 1983. An evaluative study of the relevance of university training

to a career is planned for 1985 and is likely to extend over several years.

In 1984 submissions were made to government committees on overseas students, special broadcasting service, and the national technology discussion draft. A paper on marketing was presented to the National Conference of Employers and Careers Services in Canberra.

Co-operative activities with careers and appointments services in other post-secondary institutions continued to be productive. Notable achievements included a national conference of employers and careers services (Canberra), training programs for careers advisers, progress towards forming a national association of graduate careers advisers, a careers libraries resources handbook, and a sub-committee to explore the implications of computing upon careers services. At a local level, deans of faculties at the University continued to offer much useful comment at meetings of the Careers and Appointments Committee.

University Counselling Service

The past year has again been an extremely busy year for the Counselling Service and there has been an increase in most areas of our work. The number of students utilising the service increased by 5 per cent with over 1,000 students consulting counsellors on various issues. The majority of problems presented were in relation to study difficulties, personal growth issues and relationship problems. There was a drop of just over 10 per cent in the number of visits to the unit, but this was due mainly to the fact that many students were referred to a greatly expanded program in group counselling in which over 600 students participated. The group programs included study skills, life-planning workshops, stress management and relaxation, preparation for examinations, assertion training, various personal growth groups and orientation programs for part-time and mature-age students.

The counsellors have continued with their own professional development programs and have provided lectures for the Medical, Law and Education faculties and for the Department of Social Work. The counsellors value these opportunities to make a contribution to the academic life of the University.

A most successful seminar on the services provided by the unit and on problems faced by students was presented early in the year. It was attended by over seventy academic and administrative staff. There has been greater consultation of counsellors by University staff throughout the year. Staff have also continued to bring their individual problems to the unit. There has been an increase also in the number of staff presenting with 'personnel', as distinct from 'personal', problems.

Students' Grants and Loans Committee

Sixty-six applications for assistance were considered, of which sixty-five were approved as loans. No grants were made during the year. The total amount of assistance given was \$103,634.

Although the number of students assisted was significantly less than during previous years, the amount of approved loans was greater than in any previous year. This gave rise to concern about the future ability of the committee to meet all approvable requests for assistance. However, a strong inflow of loan repayments from former students at the end of the year alleviated that concern to a marked degree.

Expressions of appreciation for assistance given continued to be received.

Student Housing

Requests for assistance in finding housing or for advice on matters concerning accommodation in 1984 numbered 4,043. Of the direct requests for off-campus accommodation 89.7 per cent were for independent liv-

ing and 10.3 per cent for private house accommodation, continuing the downward trend of interest in private house accommodation which has been evident for many years both in students and householders.

More flats and houses were available for renting in 1984 than for the previous two or three years, owing to the resurgence in the building trade. The number of rooms offered increased as many single people took advantage of the government subsidy for first home buyers.

Pressure to become a tenant in the south-east flats remained high. Occupancy rate for 1984 was 98.5 per cent, slightly lower than it would have been because of the re-painting program for the flats.

Halls of Residence

Despite a slow start to the year with regard to requests for Halls' accommodation all available places were filled and the occupancy rate throughout the year was high.

Conference activity in Halls improved significantly despite two cancellations of a major nature.

The new tutor establishment and increased academic assistance introduced by the Committee of Wardens in 1984 was generally well received and further developments of this system will continue in 1985.

Dr J.L.A. Francy completed his term of office as Chairman of the Committee of Wardens. The position will be filled in 1985 by Dr D.C. Blane, Warden of Richardson Hall.

Health Service

During 1984 the Health Service had increasing involvement in occupational health. Repetitive strain injuries have become an increasing problem at this University as they have at many other universities. The Health Service has become involved in the management of many of the R.S.I. cases and it has

had considerable support in this matter from the South Eastern Industrial Health Clinic. The Health Service's involvement has not been at the consultation room level only, but has often meant visiting the workplace, usually with the Safety Officer and/or the Operations and Methods Officer.

Throughout 1984 the Counsellor from the Australian Development Assistance Bureau used a room in the Health Service for half a day each week. The value of this person in helping overseas students cope with governmental bureaucracy and other problems should never be underestimated.

While there was a slight drop in attendances in 1984 compared with 1983, this did not represent any significant change from previous years. 7,195 people made 20,850 visits for an estimated 13,200 episodes of illness or advice, about 1.6 consultations per episode.

1,561 staff attended on 4,705 occasions, while 5,430 students attended on 15,712 occasions. Of the students, 2,440 were male and 2,990 were female. This is 33.2 per cent of all male enrolments, 46.4 per cent for females and 39.3 per cent overall.

RESEARCH CENTRES

Aboriginal Research Centre

The centre again had a busy year. The general area of Aboriginal matters has received much publicity both nationally and locally, thus resulting in more requests for information and speakers, as well as the use of the centre by both public and students.

The new area into which the centre now has input is the planning of the new Museum of Australia, to be established on the shores of Lake Burley Griffin in Canberra. This is an important area for the Aboriginal people of Australia as for the first time they will have a say in how and what Aboriginal objects shall be displayed in a museum designed for public display.

The first stage of the Bandjalang Language course, which the centre commenced developing last year, has been completed and trialled and will be implemented in courses for Victorian Aborigines later in 1985.

It is expected that the Aboriginal Studies Kit, for use by teachers involved with upper primary level students, will be trialled in 1985. The centre was also involved in running Racial Awareness programs for government and semi-government bodies.

The Aboriginal Studies course continued during the past year and was enhanced by the participation of post-graduate students from Environmental Science who took the course as an elective. Diploma in Education students participated in Aboriginal Education, and the centre will continue to provide lectures for Master of Education and Bachelor of Education students from the Education Faculty.

Submissions over the past year have included: submission to the Social Development Committee on Aboriginal Compensation; submission to the Special Broadcasting Services Enquiry. The centre continued to be well represented at conferences.

The Elizabeth Eggleston Memorial Aboriginal Research Centre continues to provide a much needed information service to both the public, staff and students of the Univer-

sity, and during the past year was the venue of study for Japanese and German researchers. It is now in the process of planning a congress in France in collaboration with the Director of the Centre de Prehistoire du Pech Merle, France.

Computer Centre

In 1984 there were two major developments in the Computer Centre. One was the delivery of the large B7800 computer, given by Burroughs Australia to the University for one dollar and the other was the completion of the new laboratory housing some 350 computer terminals to be used for teaching. Both developments will be of substantial benefit to teaching activities primarily in the areas of Computer Science, Engineering and Mathematics. In addition the B7800 will provide a significant boost in the computer power available for research and the processing of data for the administration and library.

As has been the case in previous years, computers were overloaded at the peak times of student activity, leading to an unsatisfactory level of computing service for research students and staff using the same computers. The possibility of developing an alternative timetable for Science students was explored and at the end of the year progress was being made toward a new arrangement which would spread computing practical classes more evenly throughout the day. Achieving that, together with the new equipment ordered for 1985, is expected to lead to a significant improvement in the level of service available to all.

Early in the year the centre took delivery of two Pyramid computers, one to be substituted for the VAX-780 in the Computer Science Department and the other to provide a service based on the Unix operating system. Unfortunately the computers when first delivered did not live up to expectations, the problems being mainly errors in their software and the late delivery of a Pascal compiler, but they were used reasonably



effectively for most of the year. By December their level of performance was meeting expectations and consideration was being given to acquiring a third machine.

In addition to the Pyramid computer there was a substantial amount of new equipment installed during the year. A new VAX-750 was placed in the Economics and Politics Faculty early in the year to improve the service to staff and research students. Some 3,800 million bytes of storage capacity was added to VAX computers in the form of Fujitsu Eagle disk drives which have the advantages of high reliability, compactness and low power consumption.

Installation of the B7800 computer required early completion of the ongoing project to upgrade the centre's airconditioning by replacing old units and introducing the use of outside air to reduce energy consumption. As funds from Government sources were not available an amount of approximately \$180,000 was allocated from the centre's accumulated outside earnings. To be able to maintain the B7800 two members of the centre's engineering staff were sent to the U.S.A. on training courses lasting for several months. This was also funded from outside earnings.

The 1985 equipment grant allocation of \$681,000 provides for the addition of disks, floating point accelerators, memory and software to existing computers and the purchase of a VAX-780 computer. It will allow the centre to meet the growing requirements of the administration and library, provide for a limited implementation of the C.L.I.R.S. legal database for the Faculty of Law and for some increase in the VAX and Pyramid computer facilities provided for teaching and research. Once again the Computer Centre Committee gave serious consideration to the purchase of an array processor to improve the scientific computing capabilities of the centre and had the centre include it in the equipment budget submission at a price of some \$500,000. Both the capital and annual maintenance costs proved to be impossible to meet from the funds available to the University.

After a detailed investigation of micro-computer equipment on the market and calling for proposals from suppliers, the centre entered into agreements for the supply and sale of Corona and IBM microcomputers and a range of printers to University departments, staff and students at attractive prices. Since the agreements came into effect in the

middle of the year some 80 units have been supplied, mainly to University departments for use in word processing.

There was again a substantial increase in the amount of computing carried out over the previous year. All departments were allocated the full computing budget which they requested based on 1983 charges. By July it was clear that the rate of recovery of funds was going to lead to the centre recovering more than its budget so the charge rates were reduced starting from the beginning of October. Even so the total income from University departments exceeded the cost of providing the service and a rebate of 33 per cent (32 per cent in 1983) was made.

The growth in the amount of computing was serviced with a small increase in the centre's staff who had to maintain additional equipment and meet a noticeable increase in the demand for technical advice and assistance from academic and programming staff. Some reallocation of priorities and staff positions was needed to achieve that. Staff of the centre have continued to work productively under the significant pressures which stem from the wide interest in and need for computing on the campus. While they are managing to cope reasonably well and with good humour, there is a general feeling that it would be a relief to have more time and the resources to satisfy all the customers and catch up on the backlog of development work which is needed.

At the beginning of 1984 a total computing budget of \$1,889,460 (non-discretionary funds) was distributed to departments for the purchase of computing resources from the centre. All departments received the allocation requested. During the year additional allocations were made to bring the total allocated to \$2,230,610. The charging rates set for the different computers were kept at the levels applying at the end of 1983 until October when a new scale giving lower rates for connect time and disk storage was introduced. As in previous years the centre

did not charge for the use of PDP 11 computers running the MONECS software.

There were 8,200 charge codes issued to customers during the year. Some students take more than one course and have more than one charge code, some courses use one code for several hundred students and some customers are registered to use more than one computer. This makes it difficult to accurately determine the number of different customers, which is of the order of 5,500.

The total University FS1 budget allocated to the centre was \$1,618,504. Of this about \$250,000 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 \$1,368,504 rather than the \$2,081,838 actually recovered. A rebate of 33 per cent was therefore made. The level of rebate is a rough estimate for the annual rate of growth of computing on the campus. The peak rate of consumption of computing resources by the University was \$240,000 per month, which is 41 per cent higher than the peak of \$170,000 for 1983, in spite of the charging rates for 1984 being significantly lower. Such wide variations in the peak loads from year to year can be largely attributed to the increase in the number of courses and students involved with computing and an increase in the complexity of the computing techniques being taught. It is considered important that the University be aware that even when the number of customers of the centre becomes approximately constant, the developments in sophistication and complexity of computer-based techniques will mean a continuing demand for more computing resources, which it can be argued, must be reasonably satisfied in the interest of having the University keep abreast of new developments in many disciplines.

Academic staff in the centre taught ten units in Computer Science and Electrical and Computer Systems Engineering as well as a number of service courses for other departments. Again by far the largest course, in

terms of student numbers, was for about 900 students in first year Mathematics.

Research and development effort continued to be devoted to the MONET local area communications network. The world-wide rights to it were sold to Racal Electronics, a large international company, for a technology transfer fee of \$75,000 and a royalty on future sales. At the University the network was extended to include 50 nodes servicing some 1,500 communication ports connected to about 950 terminals, 50 printers and 20 computers. A new research project on digital image processing and shape recognition was commenced using a digital camera and the Lilith computer.

Engineering staff completed extensive training courses on the B7800 and Pyramid computers in America, installed the B7800 and other equipment costing over one million dollars, constructed a number of network nodes, installed more than 400 terminals in the new laboratory and other areas, built two Lilith computers as well as maintained some 30 computers and about 1,200 terminals.

The main projects undertaken by programming staff included developing programs to support networking, testing the operation of Ethernet, introducing the III.3 version of the Burroughs operating system so that work could be transferred to the B7800, converting the Pascal PI/PX system to run on the Pyramid computers, developing software to support high speed interfaces to VAX Computers and converting a MODULA 2 cross compiler for the M68000 to run on VAX computers. There was also a substantial workload in providing technical assistance to customers, which continues to increase as more variety in equipment is introduced and the number of customers grows.

The total expenditure of the centre was \$2,877,296 made up of \$2,564,018 provided by the University's recurrent funds and equipment grants plus \$313,278 from the centre's outside earnings. Revenue earned

was \$337,393 compared with \$317,406 in 1983. A breakdown of expenditure into a few broad classifications is shown below.

Salaries and associated costs	1,438,445
Consumables	286,061
Equipment purchased	902,882
Software	44,441
Building and site work	185,000
Miscellaneous	20,467
	<hr/>
	\$2,877,296

In 1985 the income from external sources is expected to rise as a result of the B7800 agreement which obliges the University to sell a significant amount of computer time to government departments. As any profits so derived must be invested in computing research, the centre's ability to fund the purchase of additional equipment, staff engaged on work for the University and other developments from its outside earnings is likely to be significantly reduced unless additional income can be derived from other sources such as the sale of time on VAX and Pyramid computers and royalties from the sale of MONET by Racal. This is likely to be the most difficult problem to be solved in 1985. If the income from the B7800 is substantial part of it will offset some operating costs now financed from outside earnings which will help. The staff of the centre hope that a significant amount of income will be generated to support research activities and that overall the University will benefit by more than the increase in computer power which the B7800 offers.

Centre for Continuing Education

The 1984 program of the centre did not differ greatly from that of the two previous years. The three traditional program areas of the centre — the 'Welfare' program, the science and engineering program and the language classes all offered increased numbers of activities. Overall, the demands for the services of the centre tended to increase

during the year.

The level of support for the Welfare program, which brings together professionals from a range of disciplines to discuss current issues in the fields of welfare and health care, remains undiminished. It continues to be a most successful program. In the science and engineering field, the centre has increasingly become the agent for professional associations, assisting them in the planning of activities, in the provision of an administrative structure, and, in many cases, with financial underwriting. The languages program, run in conjunction with the University's Language Centre was successfully expanded from fourteen to eighteen classes in 1984.

Coordination of the Thai University Lecturers Scheme continued to be a significant activity of the centre. During 1984, a team from Monash visited Thailand, at the request of the Thai authorities, to undertake a three-week program of conferences, workshops and consultancies as a follow-up to this scheme, after its seventh year of operation.

For the future, the centre faces a dilemma. There is obviously much more which it could usefully do in continuing education. On the other hand, it does not have the staff capacity to develop new programs in addition to maintaining existing ones. Until such time as solutions can be found to the long-term problem of increasing the level of professional staff, the extent to which the centre can respond to suggestions for new lines of activity must remain severely limited.

Graduate School of Environmental Science

In 1984 the number of units taught by the Graduate School was twenty-four and with other relevant units across the campus the number of units available for selection by candidates was 112.

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

taught to geography undergraduates.

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

Enrolment Information

	Full time	Part time	Total
Enrolled December, 1983	22	100	122
Number of applicants for 1984	39	37	76
Offers made	15	13	28
Acceptances (as at 9/1/85)	8	11	19
Total enrolled 21/3/84	28	115	143
Total withdrawn/ intermitted during 1984	1	15	16
Graduated 1984	7	9	16
Total enrolled December 1984	17	115	132

Twenty-six candidates have been involved in project work for which the research reports and minor theses will be submitted in early 1985. Topics studied were: A sociological perspective on the control of radiation risk; conservator society project; monitoring applicator exposure to the pesticides Methamidophos and Triclopyr; ecology and management of the Seaford swamp; potential of aquaculture in Victoria; co-operation in a sample of Melbourne share-houses; history of fire in Victoria; computers in the school environment; method for assessing the recreational value of inland waterbodies; and study of the industrial potential for the use of recycled water.

As well as being involved in supervision of the above research teams, staff have undertaken research into: the relationship between technology and perception; a characterisation of conservator society; applications of general systems theory; effects of soil compaction during logging operations in growth of selected forest species; effects of

mechanical and chemical control of woody weeds on composition of regrowth in wet sclerophyll forests; evaluation of the M.Env.Sc. degree; actions to promote recycling of materials and resources; sustainable living patterns; comparative study of tertiary environmental programs in Australasia and the Pacific; and analysis of philosophies of environmentalism and planning in relation to development strategies.

Dr E.H.M. Ealey, Director, again visited Mahidol University, Thailand, as an AUIDP consultant and assisted in setting up the International Society for Education in Environment (ISEE) at meetings in New Delhi and Srinagar, India. Dr Ealey continued to serve in a number of appointments outside the University as did other staff members of the Graduate School.

Conferences run by the School included: Environment, Ethics and Ecology II: Pathways to Sustainable Society; Opportunities for Recycling; Landfill Disposal of Wastes and Effects on Groundwater Streams; and a seminar series on 'Deep Ecology' with visiting Emeritus Professor Arne Naess from the University of Norway.

Higher Education Advisory and Research Unit

The Higher Education Advisory and Research Unit (H.E.A.R.U.) has five principal functions, which are: the giving of specific advice on the conduct of tertiary teaching; the counselling of individual staff members on problems they encounter in tertiary teaching; the provision to the University of general information and advice on tertiary education; the conduct of research into aspects of tertiary education; and the provision of an educational technology service. In 1984 H.E.A.R.U. experienced a significant increase in the demand in each of these functions. The number of evaluations of teaching requested by academic staff has nearly doubled since last year; work on remedial English has increased by 25 per

cent and thirty-seven internal reports were written, compared with twenty-two in 1983. The Educational Technology Service has also had the busiest year since detailed records were kept (1980).

In-service workshops on aspects of teaching in higher education were conducted throughout the year as well as a brief orientation session for new staff. Consultancies on issues related to tertiary teaching, but not solely evaluation, were conducted in thirty-eight faculties/departments and varied widely in scope from advice on examining to a senior level planning workshop on teaching civil engineering.

Considerable time was spent on research into questions related to access and equity and to framing specific proposals on which this University could act.

A small grants scheme called 'T.I.Ps', Teaching Improvement Projects, was begun in 1981, funded by the Vice-Chancellor. This scheme has supported over forty innovative teaching techniques since its introduction. The variety has been extraordinary, from computer generated Chinese pictographs; to a board game to teach respiration; to a videotape of how to solve problems in physics.

For eight years the Australian Development Assistance Bureau has funded a scheme whereby approximately fifteen academics from Thailand come to Monash University for six months each year. The group in 1984 came from all campuses of the eight campus Srinakharinwirot University. They spent the first four months in H.E.A.R.U. undertaking a full-time formal course on teaching and learning in higher education.

Several staff acted as consultants for the Australian Development Assistance Bureau in Thailand and Indonesia. Staff were also invited to present papers and keynote addresses at conferences. Twelve journal articles, ten conference papers and thirty-seven internal reports were published during 1984.

STUDENT ACTIVITIES

Orientation

Orientation aims to introduce new students to both the academic and the non-academic sides of university life.

New students now receive a general welcome and introduction to Monash at an official welcoming ceremony in Robert Blackwood Hall. This ceremony was introduced in 1982 and has proven very successful. This year there was an 'overflow' attendance of 1,400 students.

As a result of the survey of student opinion after 1983 orientation, amendments were made to some of the faculty orientations, generally expanding the faculty offerings. More information tended to be provided on faculty structure, course organisation, changes of course, special consideration, and the career implications of different courses. Greater efforts were made to involve staff and later year students in faculty orientation activities. Once again all faculties conducted their traditional welcomes, with an address by the Dean followed by a faculty coffee-session providing an opportunity for new students to meet other teaching staff.

The initial orientation activity for many new students is provided by the Host Scheme, which has now become a most important part of the orientation program. The scheme is based on small groups of 10-12 new students who are introduced to the Monash campus by a later-year student. This year some 120 senior students volunteered their service as hosts, and 1,500 new students took part.

The overall success of orientation is dependent on the contributions of many later students as well as University and Union staff. Displays and other activities are organised by Clubs and Societies, Sports and Recreation groups, and the Monash Association of Students. In 1984, despite severe financial constraints, a wide range of such activities was provided.

The Union — Administration and General

In 1984 the Union operated on an expenditure budget of \$2,310,570 derived from a Union fee of \$210 for full-time students and \$132 or \$92 for part-time students. The percentage of the fee income allocated to the Union Development fund was reduced from 25 per cent to 20 per cent. Subscription rates for optional Union membership remained at the 1983 level.

In the building development program, the only project to proceed was an extension of the Alpine Lodge at Mt Buller which is expected to be completed early in 1985. Following the successful introduction of a licensed bar in the La Trobe University Union, the Monash Union Board is giving priority to the establishment of a similar bar in the central Union building and expects to be in a position to apply for a licence in 1985. The major building proposal — extension of the central building — has not progressed this year because the Board is unable to plan for major expenditure on development until the separation of the Union and the Sports and Recreation Association and the division of their respective assets and liabilities is formalised. A proposal to purchase a house for the provision of emergency overnight accommodation for students lapsed and, instead, satisfactory arrangements were made for Union members to be provided with temporary accommodation in the Halls of Residence, Mannix College or Normanby House, at Union expense.

A forward commitment of \$200,000 from development funds was made for the establishment of student facilities at the Queen Victoria Medical Centre, Clayton.

Minor works included replacement of lights in the Recreation Hall, purchase of a phototypesetting machine for use in the Lot's Wife office, replacement of pianos and duplicating machines and improvements to ventilation in several offices. A major sum was allocated to bring the working environ-

ment for all Union staff up to occupational health and safety standards recommended by the Western Region Health Centre Limited. Works will include the introduction of ergonomically designed office furniture and upgrading of lighting and ventilation. In two Union areas, asbestos building materials received special treatment.

The main catering service flourished under new management, the result being a net deficit of \$16,613, or one per cent of turnover and the most favourable result for many years. The alternative food services, the Pantry and the Wholefoods Restaurant, returned major and minor deficits respectively bringing the overall loss on food services to some \$40,000. At the end of the year a computer system linked with the cash registers was introduced in the main catering department to streamline financial reporting and control.

In the staffing area, Miss Irmgard Banks, officer-in-charge of the John Medley Library since its inception in 1970, retired at the end of the year. Mrs Betty Thompson acted as Activities Officer for most of the year, relieving Mrs Robertson who was recovering from a serious accident. The Union Staff Committee circulated information on staff rights and conditions of employment to all members of Union staff. One keyboard operator developed tenosynovitis and several others suffered from the effects of repetitive strain in the course of their duties. Advice from the University and from other sources on measures to prevent repetitive strain injury is being closely followed. These measures include staff education with attention to correct posture and furniture, limited time at repetitive tasks and relaxing exercises. Fortunately, this advice has become available before the advent of widespread use of computers and word processors in the Union.

The repercussions of Council's acceptance in principle of Mr Justice Tadgell's recommendations for the separation of the Union and the Sports and Recreation Association occupied the Union Board from May on-

wards. A referendum of all Union members and deliberations by committees of the Board have led to the conclusion that the separation can be effected without controversy provided that the student body is well represented in future decision-making processes on matters of finance and development affecting both bodies. Both bodies look forward to the finalisation of legislation to formalise the separation and to the end of the present hiatus as regards forward planning by either body.

The provision of adequate child care for student parents remained a high priority for the Union Board and for the Monash Association of Students. The Union and the University continued to subsidise the Monash Student Creche Co-operative Limited and the Union provided information to enrolling students on the facilities available at this creche and in the local community. At this stage the development of child care accommodation on campus is contingent on the possibility of government support.

Reports from the major student bodies are included below. The smaller, but no less vital, groups also made their contributions to a very active Union year. Student Theatre again staged a theatre festival in association with the Alexander Theatre, involving the four student theatre clubs. Radio 3MU continued to broadcast through speakers in and outside the Union building and a variety of student organisations contributed to the programs. 3MU plans for short-range transmission on campus have met with various set-backs but are still alive. The Community Research Action Centre undertook a number of projects on community issues. They also conducted workshops on alternative medicine, repetitive strain injury and publication skills.

It is not possible to summarise in these reports the full range of co-curricular activities initiated and pursued by students in any one year. Suffice it to say that the number of clubs and societies sponsored by the Union in 1984 exceeded 200 and that between

them they provided endless opportunity for personal development and social adjustment, and for the acquisition of practical skills to complement academic qualifications.

Sports and Recreation Association

Despite a reported fall off in the patronage of many commercially run sports centres the use of the Monash complex continued at a high and steadily rising level. The main surge of new interest was in the fitness oriented activities available for students and staff. The fitness programming area was particularly popular with personalised programs being provided for many enthusiasts. The most pleasing aspect of this was the persistence displayed in adhering to the schedules prescribed. Aerobic dance was an activity used by an increasing number of members to improve their cardiovascular fitness levels. To cope with the extra numbers additional classes were introduced each week day of term.

In 1984, the second fitness room was completed and has proved so popular that additional equipment was purchased and more is required. The programs provided are based around aerobic conditioning utilising resistance training apparatus.

The lunchtime co-recreational games program was, as usual, very popular with the number of teams wishing to participate again far exceeding the available court spaces. Beginners classes in squash and tennis were also very much in demand.

The University was represented in the majority of intervarsity competitions held during the year with wins achieved by Badminton (men's and women's), Netball, Australian Rules, Cross Country (men's) and Basketball (men's). Monash teams competed at a variety of levels in local competitions with baseball winning the Dandenong Baseball Association's A and C grade championships. This was the fifth successive premiership for the A grade team. The Netball Club ac-

cepted an invitation to tour New Zealand and to compete in the combined universities tournament. They were undefeated during the whole series. Four Monash students were selected to play in a combined universities soccer team which played matches in Canberra against the Institute of Sport and the Combined Services side. The Volleyball Club won their section of the South Pacific University Championships held in Fiji in January 1984. The men's Cricket Club which competes in the Eastern Suburbs Cricket Association was promoted to the Senior Turf section following their success in winning the A grade premiership.

Mr Justice Tadgell completed his inquiry into whether the Sports and Recreation Association should be separated from the Union. His finding was in favour of there being two separate bodies.

Clubs and Societies

Generally, 1984 was a successful year for the Clubs and Societies Council. The number of affiliated clubs continued to grow and grant monies of \$96,878 were distributed amongst approximately 140 clubs, upon the authorisation of the student-elected Clubs and Societies Executive. In addition, the Clubs and Societies staff continued to provide a variety of services including photocopying, duplicating, electronic stencil cutting, typewriters, screen printing, as well as loaning urns, cups, games and video equipment.

Once again, the Clubs and Societies Executive and staff provided assistance to club office-bearers, both in response to queries about the allocation of funds and, more frequently, in helping newly-appointed club personnel to understand and carry out their duties in organising projects such as conferences, camps and social functions. Much assistance was also given to people wanting to form new clubs.

Perhaps the highlight of the year occurred when the Clubs and Societies Council took constitutional responsibility for the Student

Theatre Committee which had previously been administered by the Union Board. This was considered an appropriate move because the four clubs involved in Student Theatre are affiliated with the Clubs and Societies Council and liaise more with that body than with the Union Board. Towards the end of the year, two staff members (the club liaison officer and the senior clerk-typist) were re-appointed to their positions for a further year and this is expected to greatly enhance the stability of the Council in 1985.

Arts and Crafts Centre

For the Monash Arts and Crafts Centre, 1984 proved to be the most successful year since the official opening in 1979. While still keeping to the established theme of four terms per year — Summer, Autumn, Winter, Spring — we have introduced many new courses: cane seat weaving, fun jewellery, three dimensional fabric pictures, fashion fabrics, cake icing, dollmaking and typing for computers to name a few. The old 'faithfuls' pottery, leadlight, jewellery, painting and drawing, sewing, weaving, spinning, music and photography courses are sustaining their popularity and fill very quickly.

The number of weekend workshops was increased, due to popular demand so both students and staff have an extra opportunity to participate in classes which would otherwise have clashed with their normal work and/or studies.

We are delighted that since the introduction of 50 per cent discount to Monash fee-paying students, their participation has increased considerably. Public awareness of our activities has also increased so it is due to these two combined facts that we are now reducing the financial deficit of previous years.

During 1984 several changes in both teaching and administrative staff occurred. However, the centre is still running smoothly and efficiently. It is hoped that if

anyone reading this report has not either visited the centre or participated in a course, he or she will be prompted to do so in the near future.

Monash Association of Students

The Tadjell Report was handed down and accepted by Council in April. 1,100 students attended a student general meeting to condemn the report, but negotiations between the Union and the Sports Association resulted in agreement on solutions to the problems which precipitated the inquiry.

1985 should see these solutions implemented to the benefit of all Monash students. The long term effects on M.A.S. are the strengthening moves towards a students representative council structure for M.A.S. with full-time paid positions for student administrators. With the demise of our national student union, the Australian Union of Students, and the beginnings of a State-based union, strong campus student movements are vital.

Childcare took on a new look this year with financial assistance available to all student parents to enable them to attend Union functions including film nights, union nights and all club functions. Also successful were moves within the Family Day Care Program run by Oakleigh Council to have a field worker at Monash to co-ordinate child care placings for Monash student parents in 1985.

Occupational health was an area of concern for M.A.S., particularly as two M.A.S. staff developed repetitive strain injury. Work is continuing in this area, including seminars and education programs for staff and further consultations with specialists.

Improvements were made to student employment and accessibility of student loans, and as a result of the Freedom of Information 'Marks Case' examination results will be available for students as from 1985.

It was pleasing to see the resurgence of

interest in a strong student association. The results are encouraging for 1985.

Monash Association of Graduate Students

During 1984 the Monash Association of Graduate Students had two main aims: to consolidate its position as the body representing postgraduates at Monash, and to increase its active membership. To further these aims the M.A.G.S. Collective Committee encouraged all postgraduates to participate in both the decision-making process of M.A.G.S. and in M.A.G.S. functions and activities.

To keep its members informed of its activities and postgraduate concerns in general, M.A.G.S. began production of a regular monthly newsletter, which was published from March to October. This newsletter was distributed through a postgraduate contact in each department of full-time postgraduates and to part-timers through the mail. It was successful in increasing awareness among postgraduates of M.A.G.S. functions and activities.

M.A.G.S. continued during 1984 to hold at least two social functions a term, including for the first time an 'International Dinner' where many postgraduates from overseas brought along a national dish to share with friends of a different background. This dinner also featured an interesting speaker from A.D.A.B.

Following a survey on attitudes to supervision, a seminar was held in June for both students and staff involved in this important aspect of a postgraduate's work. The seminar resulted in the preparation of supervision guidelines which will be distributed throughout the University early in 1985. Other issues of concern to M.A.G.S. during 1984 included suggested changes to the Doctor of Philosophy regulations; continuing inadequate facilities for postgraduates in the Arts Faculty; postgraduate access to word-processing facilities and the failure of Monash Graduate Scholarships to maintain parity with the net value of Commonwealth Scholarships.

The low level of pay and the high number of hours expected of postgraduates who work as demonstrators was also the subject of a M.A.G.S. survey on which a report was produced and circulated to relevant departments.

As requested, M.A.G.S. continued in 1984 to represent postgraduates on many of the boards and committees of the University. M.A.G.S. also continued to participate actively in the Council of Australian Postgraduate Associations (C.A.P.A.), in particular assisting in formulating a new remuneration policy and carrying out a national survey of postgraduate associations. M.A.G.S. was well represented at the C.A.P.A. Annual Council Meeting and was successful in having one of its committee members elected as C.A.P.A. Women's Executive Member.

GIFTS AND GRANTS

Aboriginal Task Force for use in the Aboriginal Research Centre		200	
Abrams, Mrs I.D. to University's Student Assistance Fund			140
AHS Australia Pty Ltd final payment of grant for the project: Ingrowth into impra and goretex vascular grafts, Clinical Associate Professor D. Scott (Surgery, Prince Henry's Hospital)			1,500
Alexander Foundation, The George for the project: Age structure of Antarctic krill, Dr G. Ettershank (Zoology)			10,000
Alexander, Mrs Ruth final payment Geoffrey Alexander Postgraduate Research Scholarship in Hydrology (Civil Engineering)	2,000		
further payment, Artists' Room (Robert Blackwood Hall)	1,000		3,000
Alfred Hospital 1984 grant for Colorectal Disease Research (Surgery, Alfred Hospital)	13,079		
for research, Mr C. Christophi (Surgery, Alfred Hospital)	3,000		
Medical Research Scholarship, for the project: Immuno-regulation within the synovial joint in rheumatoid arthritis, Dr P. Ryan (Medicine, Alfred Hospital)	38,222		
share of grant for Dermatological research, Dr R. Marks (Medicine, Alfred Hospital)	6,022		60,323
Ameratunga, Mr J.P. for use in Civil Engineering			1,025
A.M.P. Society for use in the Careers and Appointments Service			200
Andrew Foundation, Aileen S. third year instalment of Aileen S. Andrew Scholarship awarded to Mr J.A. Richards as a full-time higher degree candidate (Chemistry)			10,000
Angliss (Victoria) Charitable Fund (The William) for orthopaedic and traumatic surgery research (Surgery, Alfred Hospital)	4,000		
to fund The Angliss Program (Krongold Centre)	4,500		8,500
Anonymous to be applied to research (Chemistry)		42	
second annual grant to be used specifically for postgraduate research into adhesives and their application to automotive mouldings and associated uses, Associate Professor B.E. Cherry (Materials Engineering)	10,000		
towards publication of a book on Ferns and Fern Allies of Victoria by Mrs B. Duncan and Mrs G. Isaac (Botany)	2,000		
for the purchase of seven Banks' Florilegium Prints, for permanent exhibition in the Conference Room of the Main Library (Botany)	3,335		
for research (Chemistry)		107	
for muscular dystrophy research (Biochemistry)		66	

to (Surgery, Alfred Hospital)	5,000	
for the purposes of the Burns Unit, Associate Professor J. Masterton (Surgery, Alfred Hospital)	50,000	
to the Respiratory Medicine Research Unit, under the direction of Clinical Associate Professor B.C. Ritchie (Medicine, Alfred Hospital)	50,000	
for muscular dystrophy research, Dr L. Austin (Biochemistry)	146	
to provide a scholarship stipend for an overseas graduate law student	3,600	124,296
Anti-Cancer Council of Victoria		
supplementary payments for 1983 projects: Langerhan's cells, skin cancer and renal transplant, Associate Professor H.K. Muller (Pathology and Immunology)	207	
Immunological diagnosis and prognosis of cancer, Professor R.C. Nairn and Clinical Associate Professor E.A. Pihl (Pathology and Immunology)	5,483	
Ribosomal RNA genes in chromosomes of leukaemia cells, Dr D.R. Smyth (Genetics)	793	
Hormonal control of tumours of the gastro intestinal tract and lung, Dr P.J.M. Tutton and Dr D.H. Barkla (Anatomy)	3,614	
Proliferative characteristics of human, lymphoid diseases, Dr T.E. Gan and Clinical Associate Professor M.B. Van Der Weyden (Medicine, Alfred Hospital)	237	
1984 research grants:		
Dr P.J.M. Tutton and Dr D.H. Barkla (Anatomy)	32,428	
Dr G.B. Deacon and Dr I.A.G. Roos, Dr L.P.G. Wakelin (Chemistry)	22,994	
Dr D.R. Smyth (Genetics)	11,986	
Dr R. Marks and Dr T.S. Selwood (Medicine, Alfred Hospital)	4,500	
Clinical Associate Professor M.B. van der Weyden (Medicine, Alfred Hospital)	21,506	
Professor R.C. Nairn and Clinical Associate Professor E. Pihl (Pathology and Immunology)	45,000	
Dr J.S. Pederson and Clinical Associate Professor B.H. Toh (Pathology and Immunology)	27,012	
Professor Sir Edward Hughes, Associate Professor F.T. McDermott, Mr W.J. Johnson and Mr B.J. Milne (Surgery, Alfred Hospital)	15,000	
Dr G.L. Willis and Dr G. Brodie (Medicine, Prince Henry's Hospital)	22,270	213,030
Apex Foundation — Sudden Infant Death Research Fund		
towards project: Chemoreceptor activity and the control of ventilation in unanaesthetized foetal and newborn lambs and piglets, Dr D. Walker (Physiology)		22,235
Apex Foundation, The		
for the projects: Control of ventilation in unanaesthetised newborn lambs, piglets and kittens, Dr D. Walker (Physiology)	27,642	
Data acquisition and analysis from infants at increased risk of Sudden Infant Death Syndrome, Dr J.E. Maloney (Centre for Early Human		

Development)	18,271	
Morphological and physiological development of the lung, the diaphragm and phrenic nerve of fetuses stressed in utero, Dr P.J. Berger (Centre for Early Human Development)	19,271	
Respiratory, cardiovascular and metabolic function in relation to foetal oxygenation during controlled reductions in uterine blood flow, in the fetal sheep, Dr R. Harding (Physiology)	17,100	82,284
Appel Family Bequest to permit Professor D.M. de Kretser, in conjunction with Dr D.M. Robertson, N.H and M.R.C Research Fellow, to have the benefit of fractionation equipment required for purification purposes in inhibin research. This equipment will enable them to maintain their world-wide lead in this field (Anatomy)		9,000
Arthur Andersen and Co. for use in the Careers and Appointments Service		400
Asthma Foundation of Victoria, The final payment of grant for the project: Changes in histamine binding lymphocytes in allergy assessed by the fluorescence activated cell sorter, Associate Professor H.K. Muller (Pathology and Immunology)		5,000
Australian Bank Employees Union towards the project: Australian private banking industry labour market, Dr J. Hill (Administrative Studies)		7,128
Australian Biomedical Corporation Limited for graduate/undergraduate travel (Pharmacology)		400
Australian College of Occupational Medicine 1984 Prize in Occupational Medicine (Medicine)		200
Australian Kidney Foundation, The 1984 research grants, plus balances for 1983, projects: Mechanisms of glomerular injury, Dr S.R. Holdsworth	10,000	
The kallikrein-kinin system in acute renal failure, Dr P.G. Matthews (Medicine, Prince Henry's Hospital)	5,625	
Fluorescent probe mixed lymphocyte reaction to assess renal transplant prognosis, Dr J.M. Rolland (Pathology and Immunology)	6,250	21,875
Australian Medical Association (Victorian Branch) 1983 Medical Association Final Year Prize		1,000
Australian National University (The) for Bicentennial History project, Dr M. Aveling (History)		450
Australian Road Research Board to facilitate co-operative research in dynamic response and variability in pavement base materials, Dr A. Parkin (Civil Engineering)	1,000	
payment for half year ended 31/12/83 project: Vehicle lateral displacement in the presence of on-coming vehicles, Dr T.J. Triggs (Psychology)	10,776	
for use in the Careers and Appointments Service	75	
Reimbursement of expenses to 30.6.84 (Psychology)	10,942	22,793

Australian Timken Proprietary Limited for the work of the Careers and Appointments Service		50
Australian Tobacco Research Foundation supplementary grant for the project: Interactions between nicotine and diazepam, caffeine, alcohol, Dr J.M. White (Psychology)	582	
for the project: Investigation of the effects of nicotine on human platelets, Dr S. Pfueller and Professor B.G. Firkin (Medicine, Alfred Hospital)	29,166	
1984 research grant, Dr J.M. White (Psychology)	8,453	38,201
Australian Vice-Chancellors' Committee — Australian Universities' International Development Program maintenance allowance for A.U.I.D.P. Fellow — Manas Watanasak and Dr L. Frakes (Earth Sciences)		1,020
Australian Welding Research Association for the projects:		
AWRA Contract No. 99: Hydrogen stress cracking susceptibility of line pipe steels, Associate Professor B.W. Cherry (Materials Engineering)	7,986	
Stress corrosion of welded pipelines — effective coatings, Associate Professor B.W. Cherry (Materials Engineering)	190	
AWRA Contract No. 80: Trace elements and the elevated temperature embrittlement of low alloy steels, Professor R. McPherson (Materials Engineering)	7,700	
Adhesion of thermally sprayed coatings, Associate Professor R. McPherson (Materials Engineering)	6,930	22,806
Australian Wheat Board (on behalf of various donors) for muscular dystrophy research, Dr L. Austin (Biochemistry)		319
BP Australia Limited to publish further copies of booklet 'Interview Questions' (Careers and Appointments Service)		1,600
Baker, Thomas (Kodak) Alice Baker and Eleanor Shaw Benefactions to assist with the continuation of Professor A.W. Linnane's work on interferon and the establishment of the Centre for Molecular Biology and Medicine		20,000
Baxter (Percy) Charitable Trust to the In Vitro Fertilization project, Professor C. Wood (Obstetrics and Gynaecology)	5,000	
to fund the Percy Baxter Program to assist neurologically impaired children, Professor Marie Neale (Krongold Centre)	9,500	14,500
Behrend, Mrs D. H. for use in the Centre for Molecular Biology & Medicine		700
Biddle, Mrs N. for the work of Psychological Medicine		50
Biotechnology Australia Pty Limited for Inhibin project, Professor D.M. de Kretser (Anatomy)	6,570	
travel grant, Dr Robertson, Research Fellow, being part cost of his attendance at the International Congress of Endocrinology in Canada, Professor D.M. de Kretser (Anatomy)	1,000	7,570

Boby and Co. (Australia) Pty Ltd, William for the 1983 William Boby Prize in Chemical Engineering		350	
Bongiorno and Co. Pty Limited to Community Medicine		953	
Brockhoff Foundation, The Jack for the 'Brockhoff Visual Training Program', Professor M. Neale (Krongold Centre)			12,000
Broken Hill Proprietary Co. Limited (The) Melbourne Research Laboratories to cover extension of Mr I.S. Cole's scholarship to 30th June 1984 (Materials Engineering)	2,714		
extension for postgraduate scholarship Mr A. Bryan — project: Finite element modelling of eddy currents in steel, Dr G. Cambrell (Electrical Engineering)		6,000	
for Experilearn Exhibition at Museum of Victoria (Education)	1,000		9,714
Buckland Foundation (The William) for the project: The role of glycoproteins in processes of fertilization early embryonic development and implantation, being conducted by Dr P.J. Lutjen Obstetrics and Gynaecology)		10,000	
first of two \$25,000 payments to be used for interferon study, Professor A.W. Linnane (Centre for Molecular Biology and Medicine)	25,000		35,000
Burchill, Sister E. to Elizabeth Burchill Fund (Arts)			5,000
Burrowes Dixon Company Pty Ltd for use in Library			25
Byer, Mrs K. for use in the Krongold Centre			1,000
Candy, Mr L. W. for research into the practice of oncology (Medicine, Alfred Hospital)	2,500		
to the Religious Centre	100		2,600
Carlton and United Breweries Limited for use in the Careers and Appointments Service			500
Carnation Australia Pty Ltd 1983 Carnation Australia Pty Ltd award in Paediatrics			50
Carter, Mrs M. for the purchase of Ultrasound equipment (Obstetrics and Gynaecology)			100
Caterpillar of Australia Limited for use in the Careers and Appointments Service			365
Catholic Education Office of Victoria for use in Careers and Appointments Service			150
Cattermole, Mr G. for use in Law			75
Celanese Research Company for the project: Development of a suicide plasmid for our MW strain <i>Pseudomonas Putida</i> , Professor Bruce Holloway (Genetics)			43,108
Chisholm Institute of Technology			

for use in HEARU		200	
Citicorp Australia Limited			
for use in the Careers and Appointments Service			100
Clark, Professor A.C.L.			
representing redirected examination and lecture fees, for use in Paediatrics			1,112
Cleland, Mr and Mrs L.			
for muscular dystrophy research (Biochemistry)			695
Clemenger Harvie Pty Limited			
for use in the Careers and Appointments Service			500
Collier Charitable Fund			
flume in hydraulic laboratory (Civil Engineering)	5,250		
Selsius incubator (Biochemistry)	760		
Grass 88 stimulator (Pharmacology)	700		
Olympus C.H.A. microscope (Anatomy)	900		
Student microscope (Microbiology)	868		
Towards overhead projector, campus lecture theatres (Medicine)	522	9,000	
Comalco Limited			
to support Ph.D. research in the area of strategic planning practises of Australian organisations, Mr C. Christodoulou and Professor P.T. FitzRoy (Administrative Studies)	400		
for use in the Careers and Appointments Service	200	600	
Coopers and Lybrand			
for use in the Careers and Appointments Service	400		
1983 Coopers and Lybrand Foundation Prize awarded to Miss D. Chee (Accounting and Finance)	200	600	
Cottman, Estate of the late W.T.			
the University's 1983/84 share of the income from the Estate (Medicine)			5,252
CRA Services Limited			
first year payment towards research in Mathematics (Education)	25,000		
for use in the Careers and Appointments Service	250	25,250	
Dean, Lady			
to the Elizabeth Eggleston Memorial Fund (Aboriginal Research Centre)			30
Digital Equipment Corporation (Australia) Pty Limited			
1983 Digital Equipment Corporation Prize in computer engineering			300
Dow Chemical (Australia) Limited			
Dow Scholarship awarded jointly to Miss Maria Fragoulis and Mr Keith Nelson (Chemistry)			1,000
Draeger Australia Pty Ltd			
to further the work of Professor P. FitzRoy (Administrative Studies)			1,500
Drysdale Memorial Appeal (Russell)			
for Monash University Art Gallery (Visual Arts)			
Emeritus Professor R.R. Andrew	1,385		
A.N.Z. Banking Group Limited	480		

Mr. G. Barber	320
Mr and Mrs M. Besen (The Besen Charitable Foundation)	2,000
Mr D. Boyd	680
Ms B. Brash	500
Ms D. Braund	620
Mrs J. Brodsgaard	350
Dr J. Brown	2,050
Mrs L. Bryans	800
Miss F. Burke	500
Mrs R. Carington Smith	95
Mrs M. Carnegie	750
Caroline Investments Pty Limited	1,500
Mrs L. Clarke	500
Mr J. Clutterbuck	170
Mrs D. Collings	150
Mrs O.M. Connellan	10
Mr F. Cress	220
Mr R. Crooke	2,800
Sir William Dargie	500
Mr L.G. Darling	200
Mr J. Davis	200
Professor S.R. Davis	200
Mr D.C. Dridan	1,620
Lady Drysdale	14,210
Ms L. Dumbrell	600
Dunlop, Mr B.	220
Dr E.H.M. Ealey	400
Mr J.O. Fairfax	1,200
Sir Vincent Fairfax	2,500
Dr A.E. Finn	150
Mr J. Gandel	2,000
Mrs D. Gibson	120
Mr B. Gleeson	500
Mr R. Grieve	200
Lady Grounds	220
Mr H.B.S. Gullett	15
Ms G. Gunn	500
Mr and Mrs A.W. Hamer	100
Mr R.P. Harbig	300
Ms J. Hick	380
Mr F. Hodgkinson	85
Dr P.F. Hutson	40
Mr J.E. Isaac	380
Mr K. Jack	420
Mr B.W.H. Johnstone	500
Mr V. Jomantas	1,000
Mr G. Jones	350
Mr L. Kahan	260

Mr and Mrs R. Kemp	3,800
Mr G. King	200
Mr L. Klepac	150
Mr R. Klippel	170
Lady Joan Lindsay	530
Sir George and Lady Lush	160
Mr E. Lynn	400
Miss M.M. Macqueen	140
Mr R.D. Marginson	160
Mrs J. Marshall	250
Professor and Mrs R.L. Martin	120
Sir Louis and Lady Matheson	100
Mr P. McCaughey	200
Mr and Mrs A. McCulloch	20
Mrs J. McKay	200
Mr and Mrs L. Medley	900
Mr H. Missingham	160
Dr M. Mocatta	500
Mr P.A. Morawetz	1,000
Mr A. Morrison	50
Dame Elisabeth Murdoch	2,000
Ms M. Olley	500
Mrs G. Parups	100
Professor M. Plant	200
Mr C. Pugh	1,000
Miss Guelda Pyke	380
Mr S. Rapotec	1,100
Dr L. Rees	1,000
Dr J.D. Rosenthal	620
Mr R.R. Russell	50
Mr J. Senbergs	320
Dr A.G. Serle	100
Mr M. Shannon	400
Mrs A.V. Shore	500
Professor B.W. Smith	50
Mr T. Smith	90
Commodore D. Smyth	120
Sotheby's Australia Pty Limited	3,498
Mr and Mrs T.V. Stokes	250
Mr G. Stuart	280
Mr E. Summons	100
Professor J.M. Swan	280
Mr R.W. Turner	160
Professor N.D.H. Underhill	100
Mr A. Warren	300
Professor J.W. Warren	95
Mr J. Waterhouse	250
Mr M.D. Watson	300

Dr E. Westbrook	180	
Dr N. Wettenhall	900	
Mr B. Whiteley	400	
Professor J. Whyte	100	
Mrs L. Williams	4,000	
Ms I.A. Zdanowicz	20	74,203
Duggan, Mr V.G. and Mrs M.R. for use in the Krongold Centre		100
Duncan, Dr J.S. additional gift to assist with publication of book by Mrs Betty Duncan and Mrs Golda Isaac: <i>Ferns and Fern Allies of Victoria</i> (Botany)		500
Early Learning Centre, Eltham College for research, in lieu of Dr M. Nixon's fee for talk (Education)		25
Educational Administration, Institute of expenses incurred in the production of reports for the project: The descriptive profile and selection and appointment of Australian school principals, Dr J. Chapman (Education)		683
Eggleston, Lady further contribution to the Elizabeth Eggleston Memorial Fund		500
Eggleston Trust for Aboriginal Natives, Elizabeth Monash Orientation Scheme for Aborigines — Students' Welfare Fund	2,940	
for purchase of equipment (Aboriginal Research Centre)	3,454	6,394
Electricity Supply Association of Australia Electrical Research Board for the projects: Measurement and prediction of power system impedance at harmonic frequencies, Associate Professor W.J. Bonwick (Electrical Engineering)	8,400	
Planning and design of controls on an overall system basis to achieve small and large disturbance stability, whilst properly accounting for load characteristics, Dr T. Dillon and Dr C. Berger (Electrical Engineering)	10,500	
for wind tunnel facility research, Professor W.H. Melbourne (Mechanical Engineering)	9,500	28,400
Ellison, Hewison and Whitehead for use in the Careers and Appointments Service		100
English Setter Association for use in Paediatrics		10
Entrad Limited to Henry Krongold project (Krongold Centre)		500
Ernst and Whinney for use in the Careers and Appointments Service		300
Eso Australia Limited to the Faculty of Engineering and to each of the five departments within the Faculty (Chemical), (Civil), (Electrical), (Materials), (Mechanical) \$4,000 each	24,000	
to be used as an aid to the advancement of geological sciences, Professor B.E. Hobbs (Earth Sciences)	2,225	

general grant (Earth Sciences)	3,000	
to assist Honours students in geology (Earth Sciences)	2,000	
for use in Graduate recruiting:		
Materials Engineering	1,000	
Chemical Engineering	1,000	
Civil Engineering	1,000	
Electrical Engineering	1,000	
Mechanical Engineering	1,000	
Engineering	1,000	
the first of three yearly instalments for a postgraduate scholarship to carry out research into clastic diagenesis	10,000	
for the project: Diagenesis in Gippsland sediments, Mr V. Wall (Earth Sciences)	10,000	57,225
Evatt Memorial Foundation (Herbet Vere)		
to Monash Orientation Scheme for Aborigines		2,500
Federal Republic of Germany		
to cover the work of a research assistant to produce a <i>Festschrift</i> for the Victorian Sesquicentenary, Professor L. Bodi (German)		2,200
Felton Bequests' Committee (The)		
for study on non-melanotic skin cancer in Victoria (Medicine, Alfred Hospital)		5,552
Fensham, Dr P.J.		
for use in Education		500
Firkin, Professor B.G.		
for use in Medicine, Alfred Hospital (includes \$2,000 omitted from 1983 Report)		9,000
Ford Motor Company of Australia Limited		
for the 1983 Ford Motor Company Award (Mechanical Engineering)		100
Foundation for Life Sciences		
for the project: Clinical measurement of breathlessness, Associate Professor R. Westerman (Physiology)		250
Fuller, Mrs P.		
for muscular dystrophy research (Biochemistry)		100
Glasson, Mr E.J.		
redirected honorarium, towards compiling an index to the Company and Securities Law Journal, and for the purposes of books (Law Library)		126
Glaxo Australia Pty Limited		
for dermatology research being conducted by Dr R. Marks (Medicine, Alfred Hospital)	250	
to Community Medicine	1,000	
final payment to Gastrointestinal Research Fund for the long term clinical trial of ranitidine Dr J. Hansky (Medicine Prince Henry's Hospital)	16,000	17,250
Gleeson, Dr June		
towards the L.J. Gleeson Memorial Prize Fund, L.J. Gleeson Prize in Applied Mathematics		100

Goodwin, C.S. for use in Microbiology		55	
Gray, Mrs M. and Mr R. for the purchase of ultrasound equipment (Obstetrics and Gynaecology)			500
Great Barrier Reef Marine Park Authority 1984 augmentative research grant for the project: The functional morphology and nutrition of the Dugong in relation to its seagrass diet, Ms J. Lanyon and Dr G.D. Sanson (Zoology)			750
Hecht Trust, H. and L. towards research being conducted by Dr G. Ettershank (Zoology)		7,750	
Horn, Mrs J.P. for research into cystic fibrosis (Paediatrics)			10
Hungerford Hancock and Offner for use in the Careers and Appointments Service	300		
1983 Hungerford Prize for Third Year Accounting (Accounting and Finance)	75	375	
IBM Australia Limited 1983 Prize for excellence in theoretical computer science	150		
1983 IBM Prize for Marketing (Administrative Studies)	150	300	
ICI Australia Limited for use in the Careers and Appointments Service			565
ICI Australia Operations Pty Limited consultancy grant (payable under consultancy agreement), Professor W.R. Jackson (Chemistry)	3,000		
1983 ICI Prize in Pharmacology	100	3,100	
Infertility Medical Centre towards the departmental scholarship of Mr C. Yates (Anatomy) to cover salary costs:	3,572		
liaison assistant to 30.6.84 (Obstetrics and Gynaecology)	3,905		
Dr P. Lutjen through the Donor Egg Fund until approximately June 1984 (Obstetrics and Gynaecology)	10,000		
Senior Research Fellow for 1984, Dr H.O. Hoppen (Obstetrics and Gynaecology)	34,157	56,634	
Ingram Trust M.A. 1984 grants for the projects:			
The diet and foraging behaviour of the hooded plover, Mr M. Schultz and Professor J.M. Cullen (Zoology)	707		
Functional morphology and nutrition of dugongs in relation to the distribution of seagrass, Dr G.D. Sanson (Zoology)	2,500		
Development of motor patterns in a marsupial, Dr J. Nelson (Zoology)	600	3,807	
Isaac, Dr and Mrs J.E. towards the purchase of a water colour by Mrs Celia Rosser (Library)			500
I.V.F. Friends — Sydney for the purchase of ultrasound equipment (Obstetrics and Gynaecology)			453

Janssen Pharmaceutica Pty Ltd			
final payment, for clinical trials of ketanserin in hypertension research, Professor C.I. Johnston (Medicine, Prince Henry's Hospital)			6,000
Johns Perry Limited			
1983 Johns Perry Limited Prize for Design of Steel Structures (Civil Engineering)			200
Jude, Mrs A.E.			
to the Krongold Centre			10
Kellion Diabetes Foundation Limited			
for the project:			
Circulating insulin-antagonists in diabetes mellitus, Associate Professor M.K. Gould and Associate Professor P. Zimmet (Biochemistry)			2,000
Kirsop, Associate Professor W.			
towards the cost of producing the Australian Journal of French Studies			1,000
La Trobe University			
towards cost of George Rude Seminar, August, 1984 (History)	400		
towards cost of publishing the Australian Journal of French Studies (French)	100	500	
Law Institute of Victoria			
towards costs of Lawyers' Practice Manual (Victoria), (Law)			10,000
Legal Aid Commission of Victoria			
to assist with the running of the Monash-Oakleigh Legal Service (Law)			11,600
Legge, Professor J.D.			
for use in the Library			20
Life Insurance Medical Research Fund of Australia and New Zealand, The			
for postgraduate scholarship (includes \$900 for consumables) Dr L. Arnolda (Medicine, Prince Henry's Hospital)		12,560	
supplementary grant for the project: Cellular events in vascular injury, Dr S.R. Holdsworth (Medicine, Prince Henry's Hospital)		2,307	
adjustments for the projects: Factors influencing the formation of extra cellular products by smooth muscle cells in tissue culture, Dr B. Oakes (Anatomy)		2,322	
grants-in-aid for the projects: Adenosine receptors and adrenergic receptors in experimental cardiac hypertrophy, Professor C.I. Johnston and Doctor E.A. Woodcock (Medicine, Prince Henry's Hospital)		14,500	
less adjustment:		66	
		14,434	
Inflammatory mediation systems in vascular injury, Dr S.R. Holdsworth (Medicine, Prince Henry's Hospital)		17,000	48,623
Lysaght (Australia) Limited, John			
research scholarship, Mr Lim Ah Shi, project: Investigation of mechanisms of pitting corrosion of stainless steel, Associate			

Professor B.W. Cherry and Professor I.J. Polmear (Materials Engineering)		4,000	
M.I.M. Holdings Limited for use in the Careers and Appointments Service		100	
Maanen, J.C. and L.P. for use in the Krongold Centre		50	
Mallinckrodt Australia Pty Ltd towards travel funds to enable presentation of two papers to the Annual Meeting of the American Fertility Society, Mr P. Lutjen (Obstetrics and Gynaecology)		750	
Marks, Dr R. for use in dermatology research (Medicine, Alfred Hospital)		488	
Medical Research Council of Canada supervisor's allowance, Medical Research Council of Canada, Fellow, Dr A.D. Bocking (Physiology)		866	
Menzies Foundation, The for the project: Students' perceptions of the concept of health, Dr M.N. Brumby (Education)		10,000	
Merck Sharp and Dohme (Australia) Pty Limited for hypertension research, Professor C.I. Johnston (Medicine, Prince Henry's Hospital)	9,800		
towards Dr B. Jackson's travelling expenses (Medicine, Prince Henry's Hospital)	2,000	11,800	
Miscellaneous Donors various donations to Dr Enn Elbing Memorial Prize Fund (Chemistry)		119	
Mobil Oil Australia Limited for use in the Careers and Appointments Service		200	
Monash Medical Mothers' Auxiliary for use in the Library	1,000		
for use in Community Medicine	500	1,500	
Monash Microbiology Society for use in Microbiology		20	
Monash University Parents Group Annual distribution of funds:			
University Library	3,000		
Hargrave Library	1,000		
Robert Blackwood Hall — 2 chairs	282		
Union — display board	250		
Zoology — 3 tapes from U.S. for Biology 101	270		
Physics — video cassette — Discovering Physics			
video tape — Vibrations of Music	150		
Psychology — Planter unit	100		
Graduate School of Librarianship Australian Bibliographic Network	250		
Law — blankets for First Aid use	100		
Economics and Politics — Donald Cochrane Library	300	6,002	

Moore, Mrs Vera			
to the Vera Moore Creativity Program (Krongold Centre)	10,000		
for Muscular Dystrophy research, Dr L. Austin (Biochemistry)	5,000		
Library Appeal	1,000	16,000	
Mount Eliza High School			
to the Careers and Appointments Service following Ms L. Andrew's participation in H.S.C. Seminar, Somers			35
Murdoch, Dame Elisabeth			
project: Children's services in Victoria, Associate Professor M. Balson (Education)			3,000
Muscular Dystrophy Association of Geelong			
for muscular dystrophy research (Biochemistry)			2,235
Muscular Dystrophy Association of New Zealand Inc.			
for muscular dystrophy research (Biochemistry)			500
Muscular Dystrophy Association, Inc. New York			
1984 grant for the project:			
Defective low density lipoprotein: its role in Duchenne muscular dystrophy, Dr L. Austin and Dr P. Jeffrey (Biochemistry)			56,835
Musgrave, Professor P.W.			
for use in Education			550
Myer Foundation, The			
to meet the cost of cataloguing an important collection of Ukrainian books and journals for Slavic Languages	2,000		
to fund the Community Liaison Officer position for the Centre for Human Bioethics	6,707	8,707	
Nairn, Professor R.C. and Colleagues			
to the work of Pathology and Immunology			54,500
Nakamura, Professor M. (Brazil)			
to In Vitro Fertilization Fund (Obstetrics & Gynaecology)			10
National Australia Bank			
1983 National Australia Banking Law Prize			200
National Geographic Society			
for the project: The Ghastly Blank, Two Part, Dr P.V. Rich (Earth Sciences)			14,947
National Heart Foundation of Australia			
research fellowship to Dr R.D. Arnott (Medicine, Prince Henry's Hospital)	36,385		
grants-in-aid:			
Social and Preventive Medicine	5,500		
Pharmacology	7,500		
Medicine, Prince Henry's Hospital	6,250	19,250	
to cover over expenditure on grants (Physiology)		560	
Medicine, Prince Henry's Hospital		454	
for the projects:			
Cardiovascular risk in migrants from Leukas (Greece) compared with non-migrants, Dr J. Powles (Social and Preventive Medicine)			10,000
An investigation of the nature of vascular adrenoceptors, Associate Professor G.A. Bentley (Pharmacology)			7,500

Neurohumoral influences on peripheral resistance in congestive heart failure, Dr B. McGrath and Professor C.I. Johnston (Medicine, Prince Henry's Hospital)	6,250	80,399
Nixon, Dr Mary for use in Education		150
Oxford University for research, Dr D.K. Bowden (Anatomy)		5,340
Paringa Mining and Exploration Company P.L.C. to assist with the Cassilis project (Earth Sciences)		2,000
Parthenon Travel Service Pty. Limited to assist in finalising analysis of results from Levkadian migrant health study (Social and Preventive Medicine)		300
Paul, Mr R.A. for use in the Krongold Centre		75
Peter Grant Hay Cancer Research Fund, through Alfred Hospital for dermatology research, Dr R. Marks (Medicine, Alfred Hospital)		11,053
Petroleum Refineries (Australia) Pty Ltd for use in the Careers and Appointments Service		200
Pharmacy Guild of Australia, The final payment, project: Pharmacy manpower planning in Australia, Dr J McArthur (Education)		3,185
Phillips, Fox and Masel 1983 Alex Masel Prize (Law)		150
Potter Foundation, The Ian travel grants:		
Professor B. West (Chemistry)	500	
Dr R.J. Fleming (Physics)	500	
Dr R.K. Smith (Mathematics)	1,000	
Professor B.E. Hobbs (Earth Sciences)	500	
Professor B.R. Morton (Earth Sciences)	500	
Dr P. Nagley (Biochemistry)	500	
Dr K. Murray (Chemistry)	500	
Mr B. O'Loughlin (Psychology)	1,000	
Dr R.C. Bayly (Microbiology)	500	
towards Jeffree telescope, Professor T. Smith (Physics)	1,500	
for the project: Age structure of Antarctic Krill, Dr G. Ettershank (Zoology)	15,000	22,000
Prince Henry's Hospital 1984 N.H. & M.R.C. program grant for the project: Reproductive endocrinology, Professor D.M. de Kretser and Professor H.G. Burger (Anatomy)	120,000	
stipend, Postgraduate Scholarship, Miss M.C. Cheng, February '84 to January '85; Professor D.M. de Kretser (Anatomy)	8,552	
for hypertension research, Professor C.I. Johnston (Medicine, Prince Henry's Hospital)	11,050	139,602
Prince Henry's Hospital Medical Research Centre final instalment of joint 1983 N.H. & M.R.C. program grant:		

Reproductive endocrinology, Professor H.B. Burger, Professor D.M. de Kretser and Dr J.K. Findlay (Anatomy)		37,973
Prok International Limited		
1983 Prok International Ltd Prizes: for Vacation Work Report Prize, Mr Lee Kar Khee (Mechanical Engineering)	100	
for Mechanical Engineering, Mr M.P. King	100	200
Prosser, Mrs T.		
to assist with research programs, Professor A.C.L. Clark (Paediatrics)		200
Queen Victoria Medical Centre		
support for part-time casual research assistant for mini computer research project (Centre for Early Human Development)	10,720	
to cover two postgraduate scholarships for six months 1.7.83-31.12.83 (Centre for Early Human Development)	6,850	17,570
Radio Research Board		
first half yearly instalment of 1984/85 grant for the project: Ion-exchanged and proton-exchanged LiNbO optical modulators and phase shifters, Dr L.N. Binh (Electrical Engineering)		1,750
Ramaciotti Foundations, Clive and Vera		
final payment equipment grant (Centre for Early Human Development)		6,582
Reckitt and Colman		
unrestricted grant (Pharmacology)	5,000	
first half of a \$10,000 grant to support a Ph.D. student for one year (Pharmacology)	5,000	10,000
Reckitt and Colman Pharmaceutical Division		
to departmental funds (Pharmacology)		13,548
Reichstein Charitable Foundation, The Lance		
to Monash Orientation Scheme for Aborigines — Student Welfare Fund		2,000
Research Fund for Early Human Development		
for neotrace physiological system (Medicine, Alfred Hospital)	27,754	
towards costs of Dr P.J. Berger's attendance at 11th Annual Meeting of the Society of Foetal Physiology, Oxford University, 20th July, 1984 (Centre for Early Human Development)	2,040	
to assist Dr G. Bowes to attend the Thoracic Society Meeting, U.S.A., May 1984 (Medicine, Alfred Hospital)	2,700	
for use in the Centre for Early Human Development	9,600	42,094
Reserve Bank of Australia		
Economic and Financial Fund for conference on international trade problems and policies, Professor M.G. Porter (Centre of Policy Studies)	5,000	
payment of senior fellowship in economic policy, Dr G.P. Sampson (Centre of Policy Studies)	61,258	
for use in the Careers and Appointments service	150	66,408
Reserve Bank of Australia		
Rural Credits Development Fund for the project: Cell fusion and desiccation tolerant grasses, Dr D. Gaff (Botany)		4,900

Rheumatism and Arthritis Association of Victoria		
three quarters of 1984 grant for the project: Tissue degradation by proteolytic enzymes in experimental arthritis, Professor D.A. Lowther (Biochemistry)		3,000
Richardson, Dr A.J.		
first annual gift to fund the Richardson Prize in Transport Engineering (Civil Engineering)		100
Rickards, Dr W.S.		
to the Elwyn Morey Memorial Fund		50
Riverina College of Advanced Education		
balance of 1984 A.R.G.S. grant transferred for the project: The Commonwealth Government and Aborigines 1911-1939, Dr A.B. Markus (History)		145
Rose, Dr and Mrs N.R.		
for the work of the Krongold Centre		200
Rotary Club of Clayton		
for the purchase of equipment to be used for research into muscular dystrophy, Dr L. Austin (Biochemistry)		2,500
Royal Australasian College of Surgeons Road Trauma Committee		
for the project: Pattern of injury study, motor and pedal cyclist road crash casualties, Associate Professor F.T. McDermott (Surgery, Alfred Hospital)		2,500
Royal Australian College of General Practitioners		
travel subsidies for student attachment to country practices (Community Medicine)		2,400
Royal Automobile Club of Victoria Limited		
towards costs of Master of Engineering Science course (Civil Engineering)		1,200
Royal Southern Memorial Hospital		
1983/84 payments research grant, Professor A.W. Linnane (Biochemistry)	19,200	
costs involved in employment and laboratory supplies of Ms S. Frost, engaged on Pacific projects, seven months to 4.3.84 (Biochemistry)	9,453	
for use in the Higher Education Advisory and Research Unit	100	28,735
Ryan, Dr P.F.		
for research (Medicine, Alfred Hospital)		450
Schnapp, The Estate of the late Mrs Sarah		
unconditional bequest to Medicine		2,000
Schroder, Darling and Company Limited		
1983 Prizes valued at \$200 each for Business Finance and Corporate Finance (Accounting and Finance)		400
Schutt Trust, Helen M.		
to Monash Orientation Scheme for Aborigines (M.O.S.A.)		3,500
Selwood, Dr T.S.		
for use in Social and Preventive Medicine		2,000
Shaw, Mrs Peggy		
proceeds of exhibition of her paintings, for the Monash University		

Art Gallery (Visual Arts)		8,225
Shepherd Foundation		
1984 contribution towards MUCAPS project, Dr N.E. Carson (Community Medicine)		2,500
Simson (Stuart) Educational Trust		
half share of income from the Trust		1,400
Smorgon, Mrs S.		
for use in the Krongold Centre		250
Soham Pty. Limited		
balance of an initial grant of \$20,000 to support studies into basic mechanisms in Diabetes Mellitus, Associate Professor M.K. Gould, Dr J.M. Armstrong and Dr F.M. Ng (Biochemistry)	9,000	
for research into orally active anti diabetic peptides (Medicine)	11,000	20,000
Southwick, Mr G.		
towards the research work of Dr Temple-Smith (Anatomy)		7,000
Speck Pumps (Australia) Pty Ltd		
for use in Zoology		200
Springvale Legal Service		
in support of Monash-Oakleigh Legal Service (Law)	5,808	
towards salary of Miss M. Tehan, assisting with the Clinical Legal Education Program (Law)	11,176	16,984
Squibb and Sons Pty Ltd, E.R.		
final payment for the study of captopril in essential hypertension, Professor C.I. Johnston (Medicine, Prince Henry's Hospital)		6,452
St John Ambulance Association		
for first aid research project, Dr R.L. Anker (Anatomy)	14,371	
1984 Fellowship in support of Dr R. Anker's first aid Research; Professor D.M. de Kretser (Anatomy)	8,657	
to cover cost of secretarial assistance and maintenance Professor D.M. de Kretser (Anatomy)	2,000	25,028
Staff of Department of Psychological Medicine		
for use in Psychological Medicine		2,045
Staff of Department of Surgery		
for use in Surgery, Prince Henry's Hospital		15,000
Staff of Monash University Bookshop		
for cancer research (Medicine, Alfred Hospital)		200
Stewart Memorial Fund, Sir Alexander		
payment from income (Engineering)		4,500
Strauss, Dr S.L.		
for use in Library		44
Stryboock, Mrs G.		
to In Vitro Fertilization Fund (Obstetrics & Gynaecology)		10
Stutt, Mr J.D.R.		
for the work of the Krongold Centre		100
Sudden Infant Death Research Foundation		
to cover cost of equipment for Dr C. McMillan's project: The role of the opioid peptide system in the foetus and neonate (Physiology)		2,816

Sunshine Foundation towards the cost of a Perkin Elmer LS-5 spectrofluorimeter, Dr G. Ettershank (Zoology)		1,000
Sydney Freelance Agency for in vitro fertilization research (Obstetrics and Gynaecology)		200
Symposium on Mechanism of Hearing Conference to (Psychology)		500
Synthes Australia Pty Limited for research, orthopaedic section (Surgery, Alfred Hospital)		500
Taft, Dr L.J. for the work of the Krongold Centre		250
Taylor, Mr M.B. and Mrs C.A. for the work of the Krongold Centre		100
Taylor, Mrs D. for use in the Student Counselling Service		117
Telecom Australia for the project: Research and development for the determination of early indicators of electrical deterioration of polyethelene spacers in coaxial cable, Dr R.J. Fleming (Physics)	2,000	
final instalments for the project: A study into the feasibility of fault tolerant microcomputer systems for telecommunications applications, Dr K.E. Forward and Dr T.S. Dillon (Electrical Engineering)	24,000	26,000
Thatcher, Ms L. for use in the Aboriginal Research Centre		2
Thorburn, Professor G.D. for use in Physiology		1,952
Tileman A/sia Pty Limited prize for Civil Engineering		100
Tiller, Dr J.W. for the work of Psychological Medicine		320
U.S. Geological Survey fourth and final payment for the project: Recrystallised grain size in ductile fault (mylonite) zones as an indicator of palaeostress magnitudes during faulting, Dr M.A. Etheridge and Professor B.E. Hobbs (Earth Sciences)		21,352
Ukrainians in Victoria (A.U.V.), Association of for the financing of the Ukrainian lectureship, 1984 (Slavic Languages) from the Association and from members donations to Lectureship in Ukrainian Fund		31,000
University of Alberta for continuation of Canadian research projects, Professor H. Kass (Education)		1,997
University of Melbourne towards the Australian Journal of French Studies	400	
towards cost of George Rude Seminar, August 1984 (History)	400	800
University of Western Australia for use in Community Medicine		18

Van Veldhuisen, Mr C. for general research purposes (Medicine, Alfred Hospital)		100
Various contributors to the Centre for Molecular Biology and Medicine		41,467
VDM Australia Pty Limited general donation towards the operation of Materials Engineering		3,000
Victoria Law Foundation for Victorian Criminal Procedure Text revision, Mr R.G. Fox (Law)	4,212	
towards costs of preparing Lawyers' Practice Manual, Victoria for publication (Law)	29,500	
to enable Mr E.J. Glasson, Law Librarian, to attend 25th Conference of the International Association of Law Libraries, Freiburg (Law)	3,657	
first instalment of 1984 grant (Library)	5,000	
final instalments for the project: Legal implications of sex reassignment procedures, Associate Professor H.A. Finlay (Law)	11,622	53,991
Victorian Academy for General Practice Limited, The for the project: Medical manpower survey, Professor N. Carson and Dr I. Rowe (Community Medicine)		9,910
Victorian Medical Post Graduate Foundation for research (Medicine, Alfred Hospital)		900
Victorian Municipal Pre-School Association for research into children's services in Victoria (Education)		360
Vournazos, Mr N. for use in Social and Preventive Medicine		300
Waller, Professor P.L. Honorarium for Eighth Oscar Mendelsohn Lecture, donated for the purchase of legal texts for the Law Library		400
Water Research Foundation of Australia final payments for the project: Improved flood routing for flood forecasting and design, Professor E.M. Laurenson and Dr R.G. Mein (Civil Engineering)	3,300	
for the project: The production of corrosive materials by bacterial slimes in contact with sulphate containing waste water, Dr G.A. Holder (Chemical Engineering)	8,000	11,300
Webster Pty Limited, Arthur for research (Microbiology)		1,000
Wellcome Foundation Limited, The payments under the Research Collaboration Agreement with the Wellcome Foundation, Monash University and Emeritus Professor J. Bornstein, for the project: Research with growth hormone fragments showing potential antidiabetic properties (Biochemistry)		56,250
Were and Son, J.B. for the work of the Krongold Centre		1,000
Westall Primary School for research in the Monash Teachers' Centre (Education)		450

Western Mining Corporation Limited		
general untied grant to be spent to support all teaching groups at all levels (Earth Sciences)	1,500	
specific grant aimed at improving the quality of tuition at the Honours level, Professor B.E. Hobbs (Earth Sciences)	1,000	
1983 Western Mining Corporation Prizes in Chemical Engineering:		
Third Year Chemical Engineering, Miss K.M. A'vard	150	
Fourth Year Chemical Engineering, Mr R.C. Senior	150	2,800
Westpac Banking Corporation		
final payment of Westpac Ph.D. Scholarships	13,000	
1984 sponsorship, Junior Ph.D. Research Fellowships:		
Engineering	6,500	
Law	6,500	
1983 Westpac Prize in Psychology	100	26,100
White, K. and J.		
for use in the Aboriginal Research Centre		2
Wilson, Estate of the late Edward		
in support of Edward Wilson Lectureship in Dermatology, 1984, Dr R. Marks (Medicine, Alfred Hospital)		5,000
Windermere Hospital Foundation Limited		
for the work of the Research Centre for Early Human Development		8,000
Women of the University Fund		
for the work of the Krongold Centre		500
World Health Organization		
graduate research scholarship, Ms C. Mendis (Anatomy)	4,270	
Core support for infertility studies, Professor D.M. de Kretser (Anatomy)	1,102	
for medical research in leptospirosis, Professor S. Faine (Microbiology)	1,189	
laboratory expenses, Dr E. Castaneda Herrera and Professor D.M. De Kretser (Anatomy)	2,376	
to cover laboratory expenses, Dr Sun Yan-Tran and Professor D.M. de Kretser (Anatomy)	3,013	11,950
World Wildlife Fund Australia		
for the project: Translocation of Koalas to new habitats, Associate Professor A.K. Lee (Zoology)		10,850
Young and Company, Arthur		
for use in the Careers and Appointments Service		300

Commonwealth Government

Aboriginal Affairs (Department of)			
1983/84 grant for Monash Orientation Scheme for Aborigines — Student Welfare Fund	20,700		
interim grant for 1984/85 (Aboriginal Research Centre)	12,200		
reimbursement for costs incurred on Social Indicators project to 30.9.83 (Aboriginal Research Centre)	3,142		
for the operation costs of the Aboriginal Research Centre	43,500	79,542	
Australia Council			
Literature Board			
for poetry readings (English)	600		
Visual Arts Board			
towards costs of 'Plein Air Painting in Melbourne' exhibition (Visual Arts)	8,630	9,230	
Australia-Japan Foundation, The			
towards student travel to Monash Japanese Centre, Tokyo (Japanese)	24,000		
for student travel to Japan (Japanese)	1,309		
to appoint a research assistant for further two months (Japanese Studies Centre)	3,300		
towards costs of Monash Japanese Study Centre in Tokyo (Japanese)	4,000	32,609	
Australian Institute of Criminology			
for the project: Implications of memory research for criminal law procedures Dr D.M. Thomson (Psychology)	5,834		
Victorian Sentencing Law, Mr A. Freiberg and Mr R.G. Fox (Law)	939	6,773	
Australian Institute of Nuclear Science and Engineering			
stipends for A.I.N.S.E. scholars:			
Mr J.C. Osborn, January to December 1984 (Physics)	9,187		
Mr M.A. Irving 1.4.84-15.5.84 (Physics)	1,130		
incidentals allowance Mr J. Osborn, \$408 Mr M.A. Irving, \$303 (Physics)	711	11,028	
Australian Wool Corporation			
for the following projects:			
Studies on the physiological mechanism by which egf alters the normal production of fibre within the wool follicle, Professor G.D. Thorburn (Physiology)	26,287		
Investigation of the physiological and neurophysiological basis of electro-immobilisation in sheep, Professor G.D. Thorburn (Physiology) and Professor D.G. Lampard (Electrical Engineering)	30,354		
Physiological studies on tactile comfort of wool — joint project — Dr R. Marks and Dr J. Butler (Medicine, Alfred Hospital)	5,00		
Dr R.A. Westerman and Dr R. Marks (Physiology)	32,422		
Dr R.A. Westerman (Physiology)	40,560		
	<u>77,982</u>		
Semi-strong form efficiency of the Australian wool market, Dr B.A. Goss (Economics)	20,865		

Control of ovarian function in cyclic pregnant and anoestrous sheep, Mr S.B. Hooper and Professor G.D. Thorburn (Physiology)	8,330	
Effect of heat stress on foetal Development, Mr A.N. Davies, Professor G.D. Thorburn and Dr D. Walker (Physiology)	12,255	
supervisor's allowance, postgraduate scholar Mr S.B. Hooper and Professor G.D. Thorburn (Physiology)	1,600	
Studies of foetal skin development and foetal growth:		
a) effects of epidermal growth factor;		
b) interaction of growth factors with thyroid and adrenal hormones; effects of high environmental temperature, Professor G.D. Thorburn (Physiology)	47,806	
Wool Research Trust Fund payment of 1983/84 grant for the project: Investigation of the physiological basis of electro-immobilisation of sheep, Professor G.D. Thorburn (Physiology) and Professor D.G. Lampard (Electrical Engineering)	39,704	
Research assistant and operating expenses (Electrical Engineering)	12,943	278,12
Commonwealth Scientific and Industrial Research Organization contribution to the C.S.I.R.O/Monash University 1984/85 Collaborative Research	60,000	
Fund towards Conference costs, Dr P. Nagley (Biochemistry)	<u>1,600</u>	
	61,600	
Australian Computer Research Board grants, January to July 1984:		
Second fault tolerant computing workshop, Dr K.E. Forward (Electrical Engineering)	2,000	
first half yearly instalment of 1984/85 grants awarded to the following projects: Image processing for robotics applications using stereoscopic moving camera and zoom lens techniques, Associate Professor W.A. Brown (Electrical Engineering)	2,500	
Multi microprocessor systems for parallel, concurrent and distributed processing for real time applications, Dr K.E. Forward and Dr T.S. Dillon (Electrical Engineering)	2,500	
Development of a real-time vector graphics display system, Dr D.G. Holmes (Electrical Engineering)	1,250	69,850
Commonwealth Serum Laboratories to fund the continuing collaborative research in cloning interferon, Professor A.W. Linnane (Biochemistry)		135,000
Commonwealth Tertiary Education Commission Universities Council for the project: Commonwealth program for promotion of excellence in research, Professor M.G. Porter (Centre of Policy Studies)		250,000
Defence, Department of for the projects:		
Adhesive bonding, second year grant, Associate Professor B.W. Cherry (Materials Engineering)	23,957	
Synthesis and characterisation of chelate compounds, Professor B.O. West (Chemistry)	13,789	37,746

Education and Youth Affairs, Department of 1984/85 for Monash Orientation Scheme for Aborigines (M.O.S.A.)		53,432
Employment and Training, Ministry for Employment initiatives program grant, Dr P.V. Rich (Earth Sciences)	11,934	
to cover expenditure incurred April to August for the project: Acid preparation of fossils, Dr P.V. Rich (Earth Sciences)	8,118	
for period 16/8/84-12/9/84 on wage pause (Earth Sciences)	2,706	22,758
Health, Department of first instalment of 1984 grant for the project: Repetition injury in keyboard workers, Associate Professor G.A. Ryan (Social and Preventive Medicine)	27,000	
for the project: Work influences on health — related behaviour of white collar workers, Professor L. Opit and Dr M. Salzberg (Social and Preventive Medicine)	14,000	
second half yearly payment of N.H and M.R.C. postgraduate scholarships	29,780	70,780
Home Affairs and Environment, Department of 1984 Australian Biological Resources Study grant for the project: Taxonomic revision of Fossombronia and other liverwort genera in Australia (Bryophyta), Dr G.A.M. Scott (Botany)		19,822
Human Rights Commission third payment of grant for project: Survey of Guardianship Law (Law)		2,727
Management and Budget (TEC), Department of 1984 grant for Monash Centre for Excellence (Centre of Policy Studies)		250,000
Marine Sciences and Technologies Grants Scheme annual grants for the following projects:		
Wind, wave and mooring response data from Bass Strait, Associate Professor J. B. Hinwood, Dr G.T. Leonart, and Dr D.R. Blackman (Mechanical Engineering)	32,960	
Bass Strait, Associate Professor J.B. Hinwood, Dr D.R. Blackman and Dr G.T. Leonart (Mechanical Engineering)	31,972	
Longevity and age structure of the Antarctic Krill Euphasia Superba Dana, Dr G. Ettershank (Zoology)	24,504	
Studies on the growth of the kelp Durvillaea, Dr M.N. Clayton and Dr N. D. Hallam (Botany)	22,956	
Swell dissipation in Bass Strait, Dr D. R. Blackman, Associate Professor J.B. Hinwood and Dr G.T. Leonart (Mechanical Engineering)	11,372	
An investigation of primary production in Eastern Bass Strait, Dr R. Congdon (Botany)	10,000	
balance of travel grant, Dr T. Sridhar (Chemical Engineering)	1,808	135,572
Meteorology, Department of towards costs of course in meteorology (Mathematics)		1,500
National Health and Medical Research Council		

first half-yearly payment of 1984 N.R. and M.R.C. project grants	1,190,507	
conference travel allowances:		
Ms M.J. Morris (Medicine, Prince Henry's Hospital)	500	
Ms L.J. Wilson (Anatomy)	500	
Dr P.G. Matthews (Medicine, Prince Henry's Hospital)	500	
Dr B. Jackson (Medicine, Prince Henry's Hospital)	500	
Dr T.O. Neild (Physiology)	500	
Dr A.M. Walker (Centre for Early Human Development)	500	
Dr M.B. Renfree (Anatomy)	500	
	<u>1,194,007</u>	
1984 program grant (including 85% of estimated superannuation) for the project: Foetal growth, functional development and parturition, Professor G.D. Thorburn (Physiology)	264,828	
1984 Superannuation payments:		
Centre of Early Human Development	9,261	
Medicine, Prince Henry's Hospital	2,617	
Physiology	5,685	1,476,398
Primary Industry, Department of Australian Chicken Meat Research Committee 1983/4		
research grant for the project: Monoclonal antibodies in study of chicken major histocompatibility complex and disease resistance, Dr H.A. Ward (Pathology and Immunology)		4,000
Resources and Energy (ERDDP), Department of		
reimbursement of expenditure for quarter to 30.9.84		
Chemical Engineering	7,635	
Mechanical Engineering	13,030	
Chemistry	13,789	
Physics	6,901	
reimbursement of expenses for the quarter ended 30.9.83		
Graduate School of Environmental Science	10,228	
final payment of grants and reimbursement of expenditure for the projects:		
Flow improvers for waxy crudes and middle distillates, Dr G.A. Holder (Chemical Engineering)	25,692	
The direct hydrogenation of brown coal in a continuous flow catalytic conversion system, Professor W.R. Jackson and Dr T. Sridhar (Chemistry)	36,794	
Modelling of coal liquefaction reactions, Professor J.B. Agnew and Dr T. Sridhar (Chemical Engineering)	19,184	
Demonstration of a rotary regenerative heat exchanger in an industrial drying process, Mr C.W. Ambrose (Mechanical Engineering)	51,503	
Design of a low energy indoor heated swimming pool, Professor T.F. Smith and Dr J.L.A. Francey (Physics)	3,414	
supplementary grant to extend project: Ecology of the yabby, Cherax destructor, and assessment of its potential as a heavy metal indicator, Dr P.S. Lake (Zoology)	7,223	195,393
Road Traffic Authority		

Drunk driving warning system project, Professor F. McDermott (Surgery, Alfred Hospital)		298
Science and Technology, Department of third and fourth quarterly payments of 1984 A.R.G.S. grants	879,308	
for U.S.-Australia joint seminar on 'The future impact of technology on work and education' (Education)	5,602	
travel grant to attend seminar in Tokyo on Corrosion prevention of metals, Associate Professor B.W. Cherry (Materials Engineering)	995	
Queen Elizabeth II Fellowships Scheme fourth half yearly payment of fellowship for Dr S.F. Cox (Earth Sciences)	16,223	902,128
Social Security, Department of salary subsidy (Krongold Centre)	52,011	
advance payment salaries, quarter ending 31/12/84 (Krongold Centre)	18,028	70,039
Territories and Local Government, Department of towards participation in O.E.C.D. review of urban policy in Japan, Professor M.I. Logan (Geography)		2,408
Transport, Ministry of for research in the field of transport engineering and planning, Associate Professor K. Ogden (Civil Engineering)	36,000	
for the project: Legal implications of frangible poles (electric light); to cover additional report printing and distribution expenses, Mr J. Epstein (Law)	600	36,600
State Government		
Conservation, Ministry for final payment of grant for kangaroo research, Dr G. Sanson (Zoology)	2,000	
additional support for the study of western grey kangaroo, Dr G. Sanson (Zoology)	1,000	
National Parks Service for the project: Assessment of interacting effects of drought, flood and fire on shrublands, heath and woodlands at Wyperfeld National Park, Dr T.P. O'Brien (Botany)	4,000	7,000
Forests Commission Victoria for extension of project: Wallaby browsing in young plantations (Zoology)		3,192
Premier and Cabinet, Department of first half year payment of Macfarlane Burnet Biomedical Research Scholarship, Mr C.G. Adams (Physiology)		4,040

Commonwealth Government Research Grants

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

Investigator	Project Title	Grant \$
ARTS		
English Miss B. M. Niall	Biography of Martin Boyd	6,000
French Professor J. R. Garagnon	17th and 18th Century French utopias	1,000
Geography Dr A. P. Kershaw	The vegetation history of north-east Queensland	12,066
Dr C. A. Maher	Alterations of inner city environments	10,400
Dr J. A. Peterson	Quaternary history of Macquarie Island phase II	9,018
German Associate Professor M. G. Clyne	Cross-cultural comparison of academic discourse	10,100
History Dr M. Aveling, Dr A. Atkinson	Australians in 1838	13,300
Professor G. Davison, Professor J. W. McCarty	Australia in 1888	45,802
Dr F. W. Kent	Florence in the time of Lorenzo De' Medici	5,000
Librarianship Dr B. J. McMullin, Associate Professor W. Kirsop	Australian and New Zealand early imprints project (Victoria)	23,000
Linguistics Associate Professor J. T. Platt	A cross-cultural investigation of some basic communicative strategies	12,939
Music Dr M. J. Kartomi	Sumatran music cultures	14,400
Philosophy Professor P. Singer, Ms H. Kuhse	Life or death choices for defective newborns	19,101
Slavic Languages Professor G. J. Marvan	Theoretical framework of Slavic inflection	9,000

ECONOMICS & POLITICS

Econometrics & Operations Research

Dr M. L. King	Specification error in econometric models	9,766
Dr K. McLaren, Dr M. Upcher	Financial modelling in continuous time	8,200

Politics

Dr A. Davidson	The intellectual function in the formation of the Modern State	10,400
----------------	--	--------

EDUCATION

Education

Professor P. J. Fensham	Students' conceptual frameworks for learning about their environment	8,288
-------------------------	--	-------

ENGINEERING

Chemical Engineering

Associate Professor F. Lawson	Leaching mechanism of metal oxides	21,571
Associate Professor F. Lawson	Removal of trace amounts of copper from liquid metals using elemental sulphur	17,000
Associate Professor F. Lawson, Dr G. J. F. Troup, Mr R. G. Turner	Application of laser speckle photography to mineral processing investigations	12,500
Professor O. E. Potter	Fluidization for reaction and other applications	32,900
Professor O. E. Potter, Dr T. Sridhar	Liquid-phase organic oxidations — chemical engineering aspects	17,000

Civil Engineering

Dr R. E. Melchers	Human error in structural reliability	9,000
Dr. G. I. N. Rozvany	Optimisation of structural layouts by analytical methods	21,678

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	5,000
Dr L. H. Binh	Fibre optic interferometric techniques for remote sensing of fluid flow	3,000
Dr D. L. Morgan	Comparative studies of fast tension transients in single vertebrate muscle fibres	21,774

Materials Engineering		
Associate Professor	The structural basis of polymeric friction	11,500
B. W. Cherry		
Associate Professor	The initiation of stress corrosion cracking	9,000
B. W. Cherry	by low frequency cyclic straining	
Dr G. H. Edward	Deformation mechanism mapping of	25,876
	polymers	
Dr B. A. Parker	The production, structure and properties of	18,000
	strip cast aluminium alloys	
Mechanical Engineering		
Professor W. H. Melbourne	Aerodynamic instabilities, loading and	26,229
	response of bluff bodies in a turbulent flow	
Dr T. T. Nguyen, Associate	Kinematic properties of breaking waves	7,100
Professor J. B. Hinwood		
LAW		
Professor E. M. Campbell,	The law and governance of Australian	
Acting Professor	universities	21,000
F. A. Trindade		
Mr A. C. C. Farran,	Legal problems concerning Australia and	
Professor D. e. Allan,	the GATT	13,300
Professor R. Baxt		
MEDICINE		
Anatomy		
Dr M. B. Renfree,	Pregnancy and parturition in the marsupial,	25,244
Professor R. V. Short	<i>Macropus eugenii</i>	
Dr P. E. Temple-Smith,	Effects of obstruction and vasoepididymal	
Mr G. J. Southwick	anastomosis on the function of the testis	9,000
	and epididymis	
Biochemistry		
Associate Professor	Biogenesis of mitochondria	30,000
H. B. Lukins,		
Professor A. W. Linnane	Structure and function of mitochondrial	29,164
Dr S. Marzuki,	membranes	
Professor A. W. Linnane	Measurement of interaction coefficients in	
Dr W. H. Murphy, Associate	ternary solutions of polysaccharide-	10,583
Professor B. N. Preston	oligosaccharide	
	Informational macromolecules in	31,000
Dr P. Nagley,	nucleocytoplasmic interactions	
Professor A. W. Linnane	Macromolecular transport through porous	23,500
Associate Professor	systems	
B. N. Preston		

Microbiology Dr R. C. Bayly, Dr R. A. Skurray Dr R. A. Skurray	Regulation of the microbial degradation of xlenols and cresols Molecular and genetic analysis of the conjugative plasmid F	18,500 14,300
Pathology & Immunology Dr H. A. Ward	Differentiation of chicken lymphocytes and reticular epithelial cells studied by monoclonal antibodies to cell membrane antigens	13,000
Pharmacology Dr L. J. Rogers, Dr D. Ehrlich	Development of structural and functional asymmetry in the brain; the influence of experience, amino acid neurotransmitters and gonadal hormones	13,000
Physiology Dr L. M. Aitkin Dr W. R. Gibson	Brain mechanisms and binaural hearing Role of ovarian nerves in mediating ovulatory compensation after unilateral ovariectomy	17,880 10,200
Dr I. R. McDonald	Endocrine functions in Australian marsupials	16,400
Dr M. Weiss	Biogenesis of adrenal steroids in possum (<i>Trichosurus Vulpecula</i>) with specific reference to the 'special' zone of the female	11,600
Associate Professor R. A. Westerman	Developmental and pathological interactions between nerve and muscle	13,436
SCIENCE		
Botany Dr M. N. Clayton	Studies on the reproductive biology of brown algae	12,005
Dr N. D. Hallam	Fine structure of plants adapted to desiccation	19,300
Chemistry Professor R. D. Brown, Dr P. D. Godfrey, Dr D. C. McGilvery	Molecules in space — Phase 2	73,538
Dr R. F. C. Brown	Synthesis of oxygen heterocycles	6,300
Dr R. F. C. Brown, Dr F. W. Eastwood	Pyrolytic generation of transient organic molecules	17,500
Dr D. J. Collins	Studies of enolic ortho esters	23,248

Dr G. B. Deacon	Syntheses of organometallics and organoamidometal compounds by decarboxylation reactions	12,400
Dr G. B. Deacon	Lanthanoid and actinoid chemistry	15,000
Associate Professor R. S. Dickson	Binuclear metal complexes — versatile centres for organic synthesis	13,500
Dr B. M. Gatehouse	Crystal chemistry of the solid state	29,169
Dr P. D. Godfrey, Dr S. R. Wilson	Molecular structures in electronically excited states	4,640
Professor W. R. Jackson	Syntheses of biologically important molecules involving metal catalysts	17,500
Dr K. S. Murray	Magnetochemistry and oxidative reactivity of transition metal complexes	16,500
Dr A. D. E. Pullin	Chemical matrix isolation studies	9,839
Professor B. O. West	Sulfur and nitrogen co-ordination to metals. Influence on metal spin states, reactivity and oxygen atom	24,700
Dr J. K. Yandell, Dr D. G. Hewitt	Syntheses and redox properties of metalloprotein models	11,500
Computer Science Professor C. S. Wallace, Dr D. Abramson	Capability-based multiprocessor	22,000
Earth Sciences Dr M. S. Bloom	Experimental study of mineral-solution equilibrium molybdenum complexing in hydrothermal solutions	12,590
Dr R. A. F. Cas, Dr D. R. Gray, Professor B. E. Hobbs	The tectonic style and significance of the Ordovician system, Eastern Victoria	30,558
Dr R. A. F. Cas	Palaeovolcanology, stratigraphy and sedimentology: the lower Devonian Snowy River volcanics, Eastern Victoria	27,040
Dr D. R. Gray	The analysis of strain and incremental strain history in the Ordovician-Silurian rocks of Victoria — implications for tectonic development	18,150
Dr R. T. Gregory	Stable isotope studies of Archean hydrothermal systems, Pilbara block, Western Australia	21,050
Professor B. E. Hobbs	The defect chemistry of minerals and its influence on deformation	43,948
Dr I. A. Nicholls	Partitioning of rare earth elements between clinopyroxenes and basaltic liquids as a function of pyroxene composition	3,400

Dr I. A. Nicholls	Geochemistry and petrology of Silurian — Devonian volcanic rocks in the south-east Lachlan mobile belt	28,220
Dr P. V. Rich, Dr T. H. Rich	Biochemical evolution of tetrapods and Australasian higher invertebrates. Palaeontological approach	11,700
Mr V. J. Wall	Biotite phase equilibria and thermodynamics	25,421
Genetics		
Professor B. W. Holloway, Dr A. F. Morgan, Associate Professor V. Krishnapillai	Genetic analysis of <i>Pseudomonas</i> and its role in the genetic exploration of selected gram negative bacteria	50,891
Associate Professor V. Krishnapillai	Molecular genetics of transfer of <i>Pseudomonas Aeruginosa</i> R plasmids	10,000
Dr. S. W. McKechnie, Dr K. Lavery	Genetic variation in alcohol tolerance and alcohol dehydrogenase in a winery population of <i>Drosophila Melanogaster</i>	19,315
Dr D. R. Smyth	Dispersed repeated sequences in the genomes of <i>Lilium</i> species	8,900
Mathematics		
Dr C. J. Ash Dr T. E. Hall	Recursive model theory Automata, languages, machines and inverse semigroups	5,000 7,500
Professor B. R. Morton, Dr R. K. Smith Dr R. K. Smith	Dynamics of tropical cyclones Morning glory wind squalls	10,000 16,428
Physics		
Dr J. D. Cashion	A study of the structure and magnetic properties of solids using the Mossbauer effect	20,300
Dr R. J. Fleming	Thermally stimulated conductivity/ luminescence studies of charge carrier trapping and transport in organic polymers	4,750
Dr R. J. Fleming, Professor B. E. Hobbs, Dr A. C. McLaren	Electrical properties of quartz — implications for defect chemistry	11,600
Dr T. J. Hicks, Dr J. R. Davis	Polarisation analysis of diffuse neutron scattering	3,837
Dr A. C. McLaren	Transmission electron microscope study of the structure and properties of grain-boundaries in rocks	8,734

Dr J. R. Pilbrow	Electron spin resonance of transition ions in biological and model systems	12,630
Associate Professor J. H. Smith, Dr T. J. Hicks	Magnetism in atomically random systems	18,456
Professor T. F. Smith, Dr J. D. Cashion, Dr T. R. Finlayson, Dr F. Ninio	Vibrational modes and lattice stability in solids	14,615
Dr R. C. Tobin	Room temperature metal vapour lasers	4,000
Psychology Dr A. C. Bowling	Spatio-temporal interactions in human vision	2,000
Dr D. C. Bradley, Dr R. J. Wales	Language processes in listening and reading	19,110
Dr J. L. Bradshaw, Mr N. C. Nettleton	Hemisphere and intermodality integration and conflict in decision making and learning	19,000
Dr S. A. Crossley	Behaviour genetic studies of naturally occurring populations of <i>Drosophila</i>	16,660
Professor R. H. Day	Perceptual processes involved in visual illusions	19,532
Dr K. I. Forster	Visual processing of sentences	21,360
Dr D. R. F. Irvine	Auditory spatial coding in deep layers of cat superior colliculus	10,200
Mr B. J. O'Loughlin	Interaction between excitation and suppression in the auditory periphery	5,005
Dr D. M. Thomson	Recall and recognition processes	18,360
Dr W. R. Webster	Neural systems in the primate involved in auditory and visual spatial localization A 2-[¹⁴ C]-deoxyglucose study	4,935
Zoology Dr D. J. O'Dowd	The evolutionary significance of extrafloral nectar production by <i>acacia pycnantha</i>	12,552
Dr G. Ettershank	Age pigment accumulation as an ecological tool — baseline studies on <i>Daphnia carinata</i>	14,000
Dr B. Roberts	The nature of PTTH Synthesis and release in flesh flies	10,000

National Health and Medical Research Council

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

Anatomy		
Dr D. K. Bowden	A study of thalassaemia syndromes, malaria and other anaemias in Vanuatu	26,229
Dr D. Ehrlich	Studies on the development of the supraoptic decussation and optic nerve of chicks	26,162
Dr F.-H. Guldner	Plasticity of synaptic contacts in the central nervous system	19,523
Dr B. W. Oakes, Associate Professor	Human skin epithelial expansion in tissue culture and its application to burns patients	21,049
J. P. Masterton		
Professor R. V. Short,	Lactational control of reproduction	80,995
Dr M. B. Renfree		
Dr P. D. Temple-Smith,	Ciliary function and its relationship to respiratory disease and infertility	29,922
Dr H. Teichtahl		
Biochemistry		
Dr L. Austin	The molecular biology of nerve regeneration	47,746
Professor J. Bornstein	Post-pituitary modification of growth hormone at the target organ	41,735
Professor D. A. Lowther	Response of cartilage metabolism to nonsuppressible insulin like activity	22,965
Professor D. A. Lowther,	The role of oxy radicals in experimental arthritis	22,421
Dr E. J. Bates		
Professor D. A. Lowther,	Recovery of cartilage biosynthetic activity following proteolysis	31,190
Dr C. J. Handley		
Professor D. A. Lowther,	Effect of particle bound anti-inflammatory agents on experimental arthritis	25,957
Dr R. C. Oppenheim		
Dr S. Marzuki	The expression of human mitochondrial genome	25,289
Dr H. C. Robinson	Biosynthesis of heparin the basis of heparins pharmacological activity	4,352
Genetics		
Professor B. W. Holloway,	A molecular genetic approach to the study of pseudomonas infections	23,660
Dr A. F. Morgan,		
Dr L. V. Asche		

Medicine		
Dr J. M. Butler, Dr R. Marks	Control of histamine release from mast cells and basophils in atopic dermatitis	24,740
Dr J. Hansky, Dr J. R. Lambert	Control of pancreatic exocrine secretion in the dog	22,621
Dr S. R. Holdsworth	Mechanisms of macrophage accumulation in experimental glomerulonephritis	26,991
Dr M. A. Howard, Professor B. G. Firkin	Role of factor VIII and Von Willebrand antigen II in haemostasis	64,522
Professor C. I. Johnston, Dr P. L. Nolan	Vascular receptors and reactivity	25,544
Professor C. I. Johnston, Dr P. L. Nolan	Vasopressin in blood pressure homeostasis and hypertension	77,281
Dr B. Jackson	Antihypertensive drug modulation of glomerular injury in renal failure models	27,752
Dr B. Jackson, Professor C. I. Johnston	Angiotensin converting enzyme: regulation in health and disease	62,389
Dr P. G. Matthews	The kallikrein kinin system in cardiovascular regulation	38,657
Dr S. L. Pfueller, Dr I. Sloan	Mechanism of drug induced auto-immune thrombocytopenic purpura	47,912
Dr S. L. Pfueller, Professor B. G. Firkin	Platelet membrane reaction with specific antibodies and immune complexes	41,995
Clinical Associate Professor M. Van der Weyden, Dr G. J. Young	Anticancer drug resistance and human mutant cell lines	53,238
Clinical Associate Professor M. Van der Weyden, Dr G. J. Young	Development of selective biochemical therapy in haematological malignancies	38,301
Microbiology		
Professor S. Faine	Basis of latency in experimental syphilis	46,933
Professor S. Faine	Pathogenesis and immunity in leptospirosis	93,105
Dr J. K. Davies	Site-specific recombination	22,943
Dr J. K. Davies	The genetics of cell surface liability and virulence in <i>Neisseria Gonorrhoeae</i>	29,207
Dr R. A. Skurray, Dr J. W. May	Molecular and genetic analysis of antibiotic resistance in staphylococci	40,840
Dr E. G. Westaway	Nucleotide sequence of the flavivirus genome	52,106
Dr E. G. Westaway, Dr P. J. Wright	Replication and immunochemistry of togaviruses	52,999
Dr E. G. Westaway, Dr P. J. Wright	Translation of arbovirus protetins	40,549

Obstetrics and Gynaecology Dr A. O. Trounson, Ms L. H. Mohr	Cellular aspects of cryopreservation of mammalian embryos	29,446
Paediatrics Dr A. A. Orgill, Dr J. E. Maloney	Very high frequency ventilation in the fetal lamb	32,334
Pathology and Immunology Dr R. L. Boyd	Antigenic and functional analysis of the thymic microenvironment	30,332
Dr J. S. Pedersen Associate Professor B. H. Toh	Quantification of autoantibodies to the cytoskeleton by ELISA	12,329
Pharmacology Professor A. L. Boura	Studies on the closure of the human umbilical vein	32,447
Dr J. N. O'Neil	Effects of steroids and vasectomy on adrenergic neurotransmission in vas deferens	34,573
Dr J. N. O'Neill	Effects of steroid hormones and pregnancy on myometrial responsiveness to drugs	41,551
Physics Dr P. P. Phakey, Professor W. A. Rachinger	Ultrastructure of carious enamel	27,253
Physiology Dr C. L. Gibbs	Energy studies in daunomycin induced cardiac myopathy	25,944
Dr C. L. Gibbs, Dr I. R. Wendt	Comparative studies of basal and active smooth muscle metabolism	51,738
Professor M. E. Holman	Innervation of smooth muscle	54,689
Professor M. E. Holman, Dr S. M. Johnson	Opiate dependence in a mammalian neuronal network	37,435
Professor M. E. Holman, Dr T. O. Neild	Electrophysiology of arterioles in living animals	61,059
Professor M. E. Holman, Professor G. D. Thorburn	Control of myometrium during pregnancy and parturition	36,285
Dr A. R. Luff	Functional aspects of reinnervated limb muscles	36,694
Dr U. Proske	Golgi tendon organs: development, segmental reflex action and central projections	57,558
Dr J. A. Rawson	Organisation and functions of the cerebro-cerebellar projection in the primate	16,639

Dr S. M. Rees, Dr J. A. Rawson	Brain structure in chronic placental insufficiency	37,748
Dr G. S. Taylor, Dr R. A. R. Bywater	Electrophysiology of colonic enteric neurons	43,351
Dr R. A. Westerman, Dr R. Silberstein, Dr H. Kranz	Effect of electric fields on nerve regeneration	11,508
Psychological Medicine Dr J. W. Tiller	Studies of generalised anxiety disorder	29,001
Psychology Dr W. R. Webster	Functional 2-Deoxyglucose mapping of auditory and visual systems	26,243
Research Centre for Early Human Development		
Dr P. J. Berger, Dr J. E. Maloney	Perinatal development of the cardio- respiratory system in lambs	54,389
Dr A. M. Walker	Postnatal development of the respiratory system in neonatal lambs stressed in utero	43,733
Dr A. M. Walker, Dr J. E. Maloney	Perinatal cardiovascular control in normal and growth retarded lambs	75,100
Dr M. H. Wilkinson, Dr J. E. Maloney	Optimisation of gas exchange in very high frequency ventilation of the mature lung	39,714
Surgery Professor V. C. Marshall, Dr P. Jablonski Clinical Associate Professor D. Scott	Improved kidney preservation for transplantation	21,269
Zoology Dr J. E. Nelson	Neural development in the marsupial native cat	29,871

Gifts in kind

From Epson Australia Pty Ltd, a subsidiary of Epson Corporation of Japan, an Epson QX10 microcomputer system with Japanese wordprocessing capabilities. The total value of this gift is \$6,200.00. (Department of Japanese)

From Mitchell Management Systems Pty Ltd, the management and project planning system MAPPS with software and training for up to six people. The total value of the gift is \$100,000.00

From Dr and Mrs C.B. Christensen, three oil paintings by Danila Vassilieff, William Frater and Joshua Smith. (Monash Art Collection)

From Mrs P. Perrins Shaw, an abstract painting by Mrs Shaw entitled *Venite et Vidite* valued at \$600.00. (Monash Art Collection)

From Mr T.A. Lang, distinguished consulting engineer, a collection of books and papers from his personal library. (Hargrave Library)

From Franklin Mint Pty Ltd, four Drysdale etchings on sterling silver. (Monash Art Collection)

Sources of Grants and Donations

	\$000	%
Private donations and indirect Government research grants	5,556	53.8
Australian Research Grants Scheme	1,748	16.9
National Health and Medical Research Council	3,024	29.3
	<u>10,328</u>	<u>100.0</u>

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

Appeal Funds

The University conducts a number of appeals for specific purposes; some are for capital funds such as the Russell Drysdale Memorial Fund, for research such as the Embryo and Egg Transfer Fund, for endowment such as the Elwyn Morey Memorial Fund, and for recurrent expenditure such as the Library Fund.

Sums contributed this year include:

	\$
Centre for Human Bioethics	11,063
Elwyn Morey Memorial Fund	1,978
Development Fund	300
Elizabeth Eggleston Memorial Fund	530
Embryo and Egg Transfer	4,435
Law Visiting Fellowships	2,755
Library Fund	49,459
Krongold Centre	2,662
Monash Art Gallery including Russell Drysdale Memorial Fund	29,389
Ultrasound Fund	9,935
Total Appeal Funds:	<u><u>112,504</u></u>

The Library Fund Appeal reached a total of: \$530,350

FINANCE

The following salient points from the audited accounts of the University for the year 1984 are set out for ready reference.

Funds Available

Recurrent Commonwealth Government funds available for expenditure on recurrent items during the year ended 31 December 1984 were as follows:

		\$000
University — 1984 Grant	85,367	
Less Balance brought forward from 1983	568	84,799
Teaching Hospitals		332
Halls of Residence		224

Expenditure of these funds during the year 1984 was:

	University		Teaching Hospitals		Halls of Residence	
	\$000	%	\$000	%	\$000	%
Academic activities	60,269	70.6	332	100.0		
Academic services	7,786	9.1				
Student services	1,916	2.3				
General services	15,152	17.8				
Public services	114	0.1				
Other	100	0.1			224	100.0
	85,337	100.0	332	100.0	224	100.0

Capital Commonwealth Government funds received in 1984 for expenditure on capital projects (buildings and furniture) on the University site totalled \$333,000.

Research Commonwealth Government funds available for expenditure on special research projects in 1984 totalled \$1,456,000.

Equipment Commonwealth Government funds received in 1984 for expenditure on equipment totalled \$3,511,000.

Union Fees

Union fees payable by students enrolled for the year 1984 were as follows:

Students studying on campus — full-time \$210; part-time \$132 or \$92.

Students studying off campus in Victoria — full-time \$52; part-time \$36.

Accounts

The audited accounts of the University for

the year 1984 are appended to this report, and provide further details of the year's activities.

General

The General Recurrent Grant for expenditure on University purposes for 1985 to Monash University reflects, yet again, a marginal reduction in real dollar terms of grants received over the triennium 1982-84.

In comparing the student/staff ratios of

the five largest Australian universities, Monash (13.53:1) continues to remain the highest, whilst, in the same period, Monash administrative costs have been reduced in proportion to total expenditure over the previous year's low level, which is among the lowest across the whole of Australia. There is concern that, unless General Recurrent Grant for expenditure on University purposes is maintained in real dollar terms, there will be an erosion in the standard of teaching excellence and research upon which the integrity of universities is based.

It is pleasing to note that an examination of expenditure reveals that 1984 remained a period during which the rate of increase in costs was considerably lower than that experienced prior to 1983. Similarly, the expenditure mix between the various activities in the University has remained relatively stable.

In contrast, the increase in the cost of insurance premiums, particularly workers' compensation, has over the past five years shown a rapid escalation. This experience has been felt nation-wide. In 1984 the workers' compensation premium was \$1.1m, compared to \$0.2m in 1980 on a total employment level that has been reasonably stable. This represents an average increase of 110 per cent per year over this period. The actual increase during 1984 was 42.8 per cent over the 1983 level. The development within the University of a risk management, occupational health service, together

with active insurance claims management, is an example of some measures being taken to counter this growth rate in costs.

The University was grateful that the level of the Equipment Grant received for 1984 was an appreciable increase (+19.4 per cent) over the 1983 grant level in real terms. However, this grant continues to fall short of demonstrated needs as requested from within the University. Routine equipment replacement has not yet reached its full cyclical development stage as major items with a greater than twenty-year life span are still to be replaced, and these costs will be considerable. Due to obsolescence, the demands for replacement of equipment with shorter life span further adds to the burden in meeting research and teaching needs at present technology levels.

It is also pleasing to report that there was a significant increase in the Special Research Grant for 1984 (+44.2 per cent) totalling \$1,456m. This increase has enabled a greater level of assistance to be given to worthy research projects. The increased level of support from private and indirect Government research grants and general donations has also been a source of gratification.

In conclusion, the operating surplus of \$30,231 reflects a responsibly managed financial result for the University with an effort being made to reduce the accumulated deficit of the previous years.

ACCOUNTS FOR THE YEAR 1984

Auditor-General's Report

The accompanying financial statements of Monash University comprising a Statement of Balances, a Summary Statement of Income and Expenditure together with supporting statements (2) to (12) and financial statements relating to Monash University Donor Nominated Trust Funds, Monash University Superannuation and Pension Schemes and Monash University Foundation have been audited as required by Section 36 of the Monash University Act 1958 and in accordance with Australian Auditing Standards.

As stated in notes 7, 8 and 9 to the accounts, the investments of the University, held in the Common Fund (\$1,175,394), the Monash University Superannuation and Pension Schemes (\$87,087,323) and the Monash University Foundation (\$12,720,941), are held in the name 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.

In my opinion, subject to the matter referred to above, the financial statements correctly summarise the financial transactions of Monash University for the year ended 31 December 1984.

B. J. Waldron
Auditor-General

25 September 1985

Certificate by Monash University

In our opinion the statements which follow, numbered 1 to 16, correctly record the transactions of Monash University for the year ended 31 December 1984.

K. C. Westfold
Acting Vice-Chancellor

L. W. Candy
Comptroller

22 August 1985

Notes to and Forming Part of the Accounts — 1984

1. The accounts are maintained on an accrual and historical cost basis.
2. Funds are received from Governmental and other sources for a variety of purposes. Each column in the Summary Statement, for which a supporting statement is attached, records income and expenditure in respect of each purpose. This identification of funds is maintained throughout the accounting system, thus providing the control necessary to ensure that each type of fund is used only for the purpose for which it is received. This presentation also facilitates the production of separate financial statements for the Government and other external bodies.
3. The University does not operate for the purpose of making a profit which can be expressed in monetary terms. For this reason, and in common with some Governmental forms of accounting, the conventional distinction between capital and recurrent expenditure is not maintained in the accounting system. Funds used for the purchase of consumable stores, equipment and the construction of building during each accounting period, are recorded as expenditure in that year's accounts, the only assets shown in the Statement of Balances being those which are in the form of, or which will or may be converted into, cash or its equivalent, viz. investments, debtors and stocks on hand.
4. Separate commercial accounts are maintained for management purposes for income-producing activities within the University, e.g. Halls of Residence, Union Catering, Bookshop.
5. The classifications of income and expenditure used throughout the accounting system conform to the instructions issued by the Commonwealth Tertiary Education Commission in relation to the annual collection of financial statistics.
6. The University's liability in respect of long service leave and accumulated recreation leave is not included in the financial statements on the basis that the expenditure is charged in the accounts in the year in which the leave is taken or the staff member retires or resigns.
7. Investments of the University's Common Fund are managed by a fund manager and are included in the accounts on the basis of statements from the fund manager. Investments held in the name of the fund manager on behalf of the University at 31 December 1984 are recorded in the accounts at cost.
8. Superannuation and Pension Schemes — Statement (15). During 1981, a new benefit promise superannuation scheme called the "M" 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 1984 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.

During 1983 the Trustees of the "M" Scheme called for an actuarial review of the Scheme as at 31 December 1982. This review showed the Scheme to be financially sound. The Trustees will arrange such actuarial reviews at appropriate times but not more than five years apart.
9. Monash University Foundation — Statement (16). During 1983 the University created a trust entitled the 'Monash University Foundation'. The

trust receives the proceeds of general public appeals conducted by the University, unspecified gifts and bequests and part of the funds earned by the University. The University is the sole beneficiary of the trust and during 1984 received contributions of \$768,000 from the Foundation.

Investments of the Foundation are managed by a fund manager and are included in the accounts on the basis of statements from the fund manager. Investments held in the name of the fund manager on behalf of the Foundation at 31 December 1984 are recorded in the accounts at cost.

(1) **Summary Statement showing Income and Expenditure for all general purposes for the year ended 31 December 1984**

	Recurrent Grant	Building Projects Grant	Equipment Grant	Teaching Hospitals Recurrent Grant	Special Research Grant
	\$	\$	\$	\$	\$
Income					
Commonwealth Government Grants	85,367,500	333,000	3,511,000	332,000	1,456,000
Other					
Total Income	85,367,500	333,000	3,511,000	332,000	1,456,000
<i>Less</i>					
Expenditure					
Academic Activities	60,269,340		2,307,417	332,000	1,449,166
Academic Services	7,786,444		951,240		
Student Services	1,915,697		2,558		
General Services	15,152,179	303,699	102,940		6,834
Public Services	113,952				
Other	99,657				
Total Expenditure	85,337,269	303,699	3,364,155	332,000	1,456,000
Surplus (Deficit) for the year	30,231	29,301	146,845	—	—
Transfer from Students' Loan Fund, Grants and Loans Scheme					
Capital Contribution to Monash University Foundation					
Surplus (Deficit) at 1 January 1984	(567,904)	(22,000)	101,921	—	—
Accumulated Surplus (Deficit) at 31 December 1984	(537,673)	7,301	248,766	—	—

Private and Indirect Gov't Research Grants	General Donations	Union Activities	Union Develop't Fund	General Auxiliary Activities	Fire Ins'ce Fund	Total	1983 Total
\$	\$	\$	\$	\$	\$	\$	\$
1,748,407				224,100		92,972,007	
6,786,704	1,919,906	2,266,772	778,817	7,326,721	26,758	19,105,678	85,503,952
8,535,111	1,919,906	2,266,772	778,817	7,550,821	26,758	112,077,685	102,770,318
8,083,589	896,953					73,338,465	66,841,277
	34,486					8,772,170	7,992,525
313,712	128,800					2,360,767	2,256,293
7,492	159,316		442,803	1,189,899	3,465	17,368,627	15,726,370
	(456)					113,496	122,179
	45,365	2,146,426	320,232	6,999,033		9,610,713	7,158,852
8,404,793	1,264,464	2,146,426	763,035	8,188,932	3,465	111,564,238	100,097,496
130,318	655,442	120,346	15,782	(638,111)	23,293	513,447	2,672,822
	397,300					397,300	—
1,098,019	1,289,480	325,748	(633,999)	8,599,831	219,747	10,410,843	(10,266,579)
1,228,337	2,342,222	446,094	(618,217)	7,961,720	243,040	11,321,590	18,004,600
							10,410,843

(2) **Recurrent Grant**
Statement of Income and Expenditure for the year ended 31 December 1984

1983 \$		1984 \$
79,080,000	Income	
	Commonwealth Government Grant	85,367,000
2,700	Commonwealth Government Grant — Community Language	500
<u>79,082,700</u>	Total Income	<u>85,367,500</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
50,405,183	Salaries and Related Items	54,283,520
2,972,881	Maintenance	3,165,596
1,067,303	Computing Services	1,167,056
380,282	Equipment	383,184
190,497	Outside Studies Programme	217,250
81,298	New Appointments	130,680
796,840	Other Items	922,054
<u>55,894,284</u>		<u>60,269,340</u>
	<i>Academic Services</i>	
	Libraries —	
3,927,709	Salaries and Related Items	4,244,967
1,560,423	Books and Journals	1,751,835
255,221	Maintenance	257,894
72,141	Computing Services	154,078
—	Equipment	28,977
26,931	Other Items	34,683
<u>5,842,425</u>		<u>6,472,434</u>
	Computing —	
1,267,178	Salaries and Related Items	1,357,792
200,654	Maintenance	180,222
16,076	Equipment	18,782
1,256,414 Cr.	Recoveries	1,396,219 Cr.
411	Other Items	346
<u>227,905</u>		<u>160,923</u>
	Other Academic Services —	
978,509	Salaries and Related Items	1,097,204
43,632	Other Items	55,883
<u>1,022,141</u>		<u>1,153,087</u>
<u>62,986,755</u>	<i>Sub-total carried forward</i>	<u>68,055,784</u>

(2) Recurrent Grant

Statement of Income and Expenditure for the year ended 31 December 1984
(continued)

1983		1984
\$		\$
62,986,755	<i>Sub-total brought forward</i>	68,055,784
	<i>Student Services</i>	
686,874	Salaries and Related Items	723,679
1,099,786	Scholarships	1,197,598
18,662	Other Items	5,580 Cr.
1,805,322		1,915,697
	<i>General Services</i>	
	<i>Administration</i>	
5,199,852	Salaries and Related Items	5,765,574
121,076	Computing Services	139,155
234,611	Other Items	41,697
5,555,539		5,946,426
	<i>Overheads —</i>	
812,505	Postage, Telephone and Advertising	949,388
102,273	Furniture and Furnishings	156,878
1,334,589	Power, Lighting and Heating	1,461,994
695,452	Other Items	645,699
2,944,819		3,213,959
	<i>Buildings and Grounds —</i>	
4,071,742	Salaries and Related Items	4,384,932
1,425,486	Maintenance	1,408,490
182,791	Other Items	198,372
5,680,019		5,991,794
	<i>Public Services</i>	
	<i>Continuing Education —</i>	
104,190	Salaries and Related Items	112,980
633	Other Items	972
104,823		113,952
87,680	<i>Union Administration</i>	99,657
79,164,957	Total Expenditure	85,337,269
82,257 (D)	Surplus for the year	30,231
485,647	Deficit at 1 January 1984	567,904
567,904	Accumulated Deficit at 31 December 1984	537,673

(3) **Building Projects Grant**

Statement of Income and Expenditure for the year ended 31 December 1984

1983		1984
\$		\$
340,000	Income	
	Commonwealth Government Grant	333,000
<u>340,000</u>	Total Income	<u>333,000</u>
	<i>Less</i>	
	Expenditure	
346,250	New Buildings	302,987
—	Furniture and Furnishings	712
<u>346,250</u>	Total Expenditure	<u>303,699</u>
6,250 (D)	Surplus for the year	29,301
<u>15,750</u>	Deficit at 1 January 1984	<u>22,000</u>
<u>22,000 (D)</u>	Accumulated Surplus at 31 December 1984	<u>7,301</u>

(4) **Equipment Grant**
Statement of Income and Expenditure for the year ended 31 December 1984

1983 \$		1984 \$
2,940,000	Income	
2,940,000	Commonwealth Government Grant	3,511,000
	Total Income	3,511,000
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
2,132,657	Teaching and Research — Equipment	2,307,417
	<i>Academic Services</i>	
42,650	Libraries —	
48,891	Books and Journals	25,170
91,541	Equipment	14,255
637,084	Computing	39,425
115,010	Other Academic Services	871,097
15,354	<i>Student Services</i>	40,718
	<i>General Services</i>	2,558
18,533	Administration	78,669
19,483	Buildings and Grounds	24,271
38,016		102,940
11,798	<i>Public Services</i>	—
3,041,460	Total Expenditure	3,364,155
101,460 (D)	Surplus for the year	146,845
203,381	Surplus at 1 January 1984	101,921
101,921	Accumulated Surplus at 31 December 1984	248,766

**(5) Teaching Hospitals: Recurrent Grant
Statement of Income and Expenditure for the year ended 31 December 1984**

1983 \$		1984 \$
	Income	
305,000	Commonwealth Government Grant	332,000
<u>305,000</u>	Total Income	<u>332,000</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
305,000	Teaching and Research —	
	Maintenance	332,000
<u>305,000</u>	Total Expenditure	<u>332,000</u>
<u>—</u>	Surplus for the year	<u>—</u>

**(6) Special Research Grant
Statement of Income and Expenditure for the year ended 31 December 1984**

1983 \$		1984 \$
	Income	
1,010,000	Commonwealth Government Grant	1,456,000
<u>1,010,000</u>	Total Income	<u>1,456,000</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
760,877	Salaries and Related Items	1,043,117
208,955	Maintenance	356,037
27,074	Other Items	50,012
<u>996,906</u>		<u>1,449,166</u>
	<i>Academic Services</i>	
12,237	Salaries and Related Items	—
	<i>General Services</i>	
—	Buildings Maintenance	144
857	Postage, Telephone and Advertising	6,679
—	Furniture and Furnishings	11
<u>857</u>		<u>6,834</u>
<u>1,010,000</u>	Total Expenditure	<u>1,456,000</u>
<u>—</u>	Surplus for the year	<u>—</u>

(7) **Private and Indirect Government Research Grants**
Statement of Income and Expenditure for the year ended 31 December 1984

1983 \$		1984 \$
1,545,752	Income	
	Commonwealth Government Grant	1,748,407
	Grants and Donations	
3,958,350	Government-financed Bodies	4,726,847
1,825,208	Other	2,059,857
5,783,558		6,786,704
7,329,310	Total Income	8,535,111
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
4,954,353	Salaries and Related Items	5,650,692
1,247,521	Maintenance	1,425,880
248	Computing Services	9,983
480,716	Equipment	675,105
268,563	Other Items	321,929
6,951,401		8,083,589
	<i>Academic Services</i>	
	Other Academic Services —	
852 Cr.	Salaries and Related Items	—
	<i>Student Services</i>	
385,658	Scholarships	313,712
	<i>General Services</i>	
8,961	Postage, Telephone and Advertising	6,825
275	Furniture and Furnishings	667
14,905	Buildings Maintenance	—
24,141		7,492
7,360,348	Total Expenditure	8,404,793
31,038 (D)	Surplus for the year	130,318
1,129,057	Surplus at 1 January 1984	1,098,019
1,098,019	Accumulated Surplus at 31 December 1984	1,228,337

(8) General Donations
Statement of Income and Expenditure for the year ended 31 December 1984

1983		1984
\$		\$
	Income	
	Donations	
65,771	Government-financed Bodies	215,251
836,080	Other	1,566,146
<u>901,851</u>		<u>1,781,397</u>
	Appeals	
41,945	Library Books	49,459
998	Other	3,492
<u>42,943</u>		<u>52,951</u>
95,087	Other Income	85,558
<u>1,039,881</u>	Total Income	<u>1,919,906</u>
	<i>Less</i>	
	Expenditure	
	<i>Academic Activities</i>	
	Teaching and Research —	
293,193	Salaries and Related Items	636,776
123,135	Maintenance	113,777
64,695	Equipment	62,568
80,006	Other Items	83,832
<u>561,029</u>		<u>896,953</u>
	<i>Academic Services</i>	
	Libraries —	
14	Salaries and Related Items	4,588
17,271	Books and Journals	25,020
<u>—</u>	Other Items	3,000
17,285		<u>32,608</u>
	Computing —	
<u>—</u>	Salaries and Related Items	3,525
	Other Academic Services —	
7,815	Salaries and Related Items	237
19,934	Other Items	1,884 Cr.
<u>27,749</u>		<u>1,647 Cr.</u>
<u>606,063</u>	<i>Sub-total carried forward</i>	<u>931,439</u>

(8) General Donations
Statement of Income and Expenditure for the year ended 31 December 1984
(continued)

1983		1984
\$		\$
606,063	<i>Sub-total bought forward</i>	931,439
—	<i>Student Services</i>	
43,875	Salaries and Related Items	16,555
6,084	Scholarships	73,549
49,959	Other Items	38,696
		128,800
	<i>General Services</i>	
—	Administration —	
	Salaries and Related Items	105,322
	Overheads —	
8,977	Furniture and Furnishings	2,185
4,112	Postage, Telephone and Advertising	4,651
13,089		6,836
	Buildings and Grounds —	
110,874	New Buildings	3,763
17,589	Maintenance	43,395
128,463		47,158
	<i>Appeals</i>	
26,331	Library Books	45,365
11,396	Other Items	—
37,727		45,365
5,558	<i>Public Services</i>	456 Cr.
	<i>Other Items</i>	
1,000	Union Activities	—
841,859	Total Expenditure	1,264,464
198,022	Surplus for the year	655,442
(266,579)	Capital Contribution to Monash University Foundation	—
—	Transfer from Students' Loan Fund and Assistance to Students in Need Fund	397,300
68,557 (D)		1,052,742
1,358,037	Surplus at 1 January 1984	1,289,480
1,289,480	Accumulated Surplus at 31 December 1984	2,342,222

(9) Union Activities

Statement of Income and Expenditure for the year ended 31 December 1984

1983		1984
\$		\$
1,802,985	Income	
246,157	Union Fees	2,022,137
	Other	244,635
<u>2,049,142</u>	Total Income	<u>2,266,772</u>
	<i>Less</i>	
	Expenditure	
412,750	Sports and Recreation Association	469,416
318,680	Monash Association of Students	380,730
197,937	Clubs and Societies Council	200,566
260,536	Union Tuition and Courses	254,433
173,778	Union Building Management	188,163
617,597	Union Administration and Special Projects	684,711
	Business Activities	
29,111	Catering — Operating Deficit	6,062
15,090	Other — Operating Deficit	<u>13,651</u>
		19,713
<u>2,025,479</u>		<u>2,197,732</u>
	<i>Less</i>	
48,255	Contribution by University for use of facilities by staff	51,306
<u>1,977,224</u>	Total Expenditure	<u>2,146,426</u>
71,918	Surplus for the year	120,346
253,830	Surplus at 1 January 1984	325,748
<u>325,748</u>	Accumulated Surplus at 31 December 1984	<u>446,094</u>

(10) **Union Development Fund**
Statement of Income and Expenditure for the year ended 31 December 1984

1983		1984
\$		\$
	Income	
591,078	Union Development Fees	499,410
250,057	Rentals and Other	279,407
<u>841,135</u>	Total Income	<u>778,817</u>
	<i>Less</i>	
	Expenditure	
	<i>General Services</i>	
599	Site Development	—
263,735	New Buildings	202,830
130,334	Maintenance — Buildings	232,435
5,362	Furniture and Furnishings	7,538
<u>400,030</u>		<u>442,803</u>
	<i>Other Items</i>	
51,016	Equipment	140,312
98,750	Occupancy Expense	102,210
88,482	Other Items	77,710
<u>238,248</u>		<u>320,232</u>
<u>638,278</u>	Total Expenditure	<u>763,035</u>
202,857	Surplus for the year	15,782
836,856	Deficit at 1 January 1984	633,999
<u>633,999</u>	Accumulated Deficit at 31 December 1984	<u>618,217</u>

(11) **General Auxiliary Activities**
Statement of Income and Expenditure for the year ended 31 December 1984

1983		1984
\$		\$
	Income	
	Commonwealth Government Grant:	
	Halls of Residence	224,100
280,500	Outside Earnings	4,097,139
3,701,324	Other Income	3,229,582
3,828,533		<u>7,550,821</u>
<u>7,810,357</u>	Total Income	
	<i>Less</i>	
	Expenditure	
	<i>General Services</i>	
	Overheads —	
11,407	Furniture and Furnishings	13,759
	Buildings and Grounds —	
199,951	New Buildings	1,070,287
5,863	Site Development	—
377,926	Maintenance	105,853
<u>595,147</u>		<u>1,189,899</u>
	<i>Other Items</i>	
6,496 Cr.	University Bookshop	40,246
344,511	Halls of Residence	204,548
29,120 Cr.	South East Flats	45,456 Cr.
15,583	Owned Houses and Transit Flats	4,898
	Outside Earnings	
	Monash University Foundation	1,799,397
4,558,386	Other	5,108,997
65,891 Cr.	Other	113,597 Cr.
<u>4,816,973</u>		<u>6,999,033</u>
<u>5,412,120</u>	Total Expenditure	<u>8,188,932</u>
2,398,237 (S)	Deficit for the year	638,111
(10,000,000)	Capital Contribution to Monash University Foundation	—
<u>7,601,763 (D)</u>		<u>638,111</u>
16,201,594	Surplus at 1 January 1984	8,599,831
<u>8,599,831</u>	Accumulated Surplus at 31 December 1984	<u>7,961,720</u>

(12) Fire Insurance Fund
Statement of Income and Expenditure for the year ended 31 December 1984

1983 \$		1984 \$
	Income	
22,793	Income from Investments	26,758
	<i>Less</i>	
	Expenditure	
—	Replacement of Equipment	1,600
—	Repairs to Building	<u>1,865</u>
		3,465
<u>22,793</u>	Surplus for the year	<u>23,293</u>
<u>196,954</u>	Surplus at 1 January 1984	<u>219,747</u>
<u><u>219,747</u></u>	Accumulated Surplus at 31 December 1984	<u><u>243,040</u></u>

(13) Statement of Balances for all General Purposes at 31 December 1984

\$	1983		\$	1984
	\$			\$
		Accumulated Funds		
567,904 Dr.		Recurrent Grant	537,673 Dr.	
22,000 Dr.		Building Projects Grant	7,301	
101,921		Equipment Grant	248,766	
—		Teaching Hospitals Recurrent Grant	—	
—		Special Research Grant	—	
1,098,019		Private and Indirect Government		
1,289,480		Research Grants	1,228,337	
325,748		General Donations	2,342,222	
633,999 Dr.		Union Activities	446,094	
8,599,831		Union Development Fund	618,217 Dr.	
219,747		General Auxiliary Activities	7,961,720	
		Fire Insurance Fund	243,040	
	10,410,843	Total Accumulated Funds	11,321,590	

		<i>Represented by:</i>	
		Investments (Refer Note 7)	
		Investments in Managed Fund —	
1,127,624		Westpac Investment Management Pty Ltd	1,175,394
		(Market Value:	
		31 December 1984 — \$1,387,760	
		31 December 1983 — \$1,374,317)	
<hr/>	1,127,624		<hr/>
			1,175,394
		Current Assets	
23,187		Cash at Bank and on Hand	128,088
2,000,000		Cash on Secured Deposits	—
34,000,000		Cash on Term Deposits	38,308,648
		Debtors —	
17,000		Accrued Government Grants	1,400
1,605,562		Other	2,151,551
		Stocks on Hand, at cost less	
1,083,879		obsolescence	937,375
39,861		Payments in Advance	37,118
<hr/>	38,769,489		<hr/>
	39,897,113		41,564,180
			<hr/>
			42,739,574
		<i>Less</i>	
		Current Liabilities	
885,002		Bank Overdraft	1,141,723
6,359,406		Sundry Creditors and Accrued Expenses	6,111,119
1,022,889		Students' Fees Received in Advance	1,026,307
19,462,000		Government Grants Received in Advance	21,482,000
<hr/>			<hr/>
27,729,297			29,761,149
		Long-term Liabilities	
1,756,973		Loans on Mortgage	1,656,835
<hr/>	29,486,270		<hr/>
	10,410,843		31,417,984
	<hr/>	Net Assets	<hr/>
			11,321,590

(14) **Donor-Nominated Trust Funds**
Statement of Income and Expenditure for the year ended 31 December 1984

1983 \$		1984 \$
	Income	
8,518	Income from Investments	13,095
<u>8,518</u>	Total Income	<u>13,095</u>
	<i>Less</i>	
	Expenditure	
450	Max Buxton Scholarship	450
1,186	Graham John Beard Memorial Fund	830
501	J.W. Dodds Memorial Scholarship	—
700	Vallejo Ganter Memorial Travel Fund	700
—	Oscar Mendelsohn Lecture	1,144
111	Monash University Rowing Club	111
290	W.P. and H.E. O'Shea Fund	350
50	The David B. Rosenthal Memorial Trust	50
800	Hume Turnbull Scholarship	1,801
<u>2,000</u>	William and Katherine Winter Foundation	<u>2,013</u>
6,088	Total Expenditure	<u>7,449</u>
<u>2,430</u>	Surplus for the year	<u>5,646</u>

Balance Sheet at 31 December 1984

1983 \$		1984 \$
	Accumulated Funds	
106,109	Funds at 1 January 1984	108,539
2,430	Surplus for the year	5,646
<u>108,539</u>	Total Accumulated Funds	<u>114,185</u>
	<i>Represented by:</i>	
	Investments	
1,000	Government Securities, at cost	50,931
63,500	Semi-government Securities, at cost	23,500
27,960	Fixed-interest Securities, at cost	17,960
3,785	Ordinary Shares, at cost	3,785
	(Market Value: 31 December 1984 — \$6,218 31 December 1983 — \$7,268)	
<u>96,249</u>		<u>96,176</u>
	Current Assets	
12,000	Fixed Deposit Stock	17,000
294	Cash at Bank	1,009
<u>12,294</u>		<u>18,009</u>
<u>108,539</u>	Total Assets	<u>114,185</u>

(15) **Superannuation and Pension Schemes**
Statement of Income and Expenditure for the year ended 31 December 1984

1983 \$		1984 \$
	Income	
2,523,786	Members' Contributions	2,752,232
4,990,365	University's Contributions	5,448,182
15,379,475	Appreciation of Managed Funds	4,999,315
163,598	Income from other Investments	35,763
—	Other Income	25,740
<u>23,057,224</u>	Total Income	<u>13,256,232</u>
	<i>Less</i>	
	Expenditure	
1,638,940	Benefit Payments to Members	2,463,949
261,640	Payments on Withdrawal	442,829
175,403	Other Payments	208,712
<u>2,075,983</u>	Total Expenditure	<u>3,115,490</u>
20,981,241	Surplus for the year	10,140,742
<u>57,830,329</u>	Surplus at 1 January 1984	<u>78,811,570</u>
<u>78,811,570</u>	Accumulated Surplus at 31 December 1984	<u>88,952,312</u>

(15) **Superannuation and Pension Schemes**

Balance Sheet at 31 December 1984

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

1983		1984
\$		\$
78,811,570	Accumulated Funds	
	Accumulated Surplus	88,952,312
	<i>Represented by:</i>	
	Investments	
—	Term Deposits	1,750,000
85,200	Fixed-interest Securities, at cost	31,000
27,806,007	Investments in Managed Funds —	
	Australian Mutual Provident Society	31,111,071
27,645,238	National Mutual Life Association of Australasia Limited	29,559,075
22,625,400	Westpac Investment Management Pty Ltd	26,417,177
78,161,845		88,868,323
	Current Assets	
649,725	University Current Account	84,560
	<i>Less</i>	
	Current Liabilities	
—	Accounts Payable	571
78,811,570	Total Assets	88,952,312

(16) **Monash University Foundation**
Statement of Income and Expenditure for the year ended 31 December 1984

(5 months) 1983 \$		1984 \$
471,598	Income	
<u>471,598</u>	Income from Investments	1,143,592
	Total Income	<u>1,143,592</u>
	<i>Less</i>	
3,915	Expenditure	
12	Investment Adviser's Fee	50,719
<u>3,927</u>	Bank Charges	<u>660</u>
	Total Expenditure	<u>51,379</u>
467,671	Surplus for the year	1,092,213
<u>163,000</u>	Less Distribution to Monash University	<u>768,000</u>
<u>304,671</u>	Retained Surplus for the year	<u>324,213</u>

Balance Sheet at 31 December 1984

1983 \$		1984 \$
	Accumulated Funds	
	Capital Funds from Monash University —	
—	Balance at January 1984	10,266,579
10,266,579	Contribution for year	<u>1,799,397</u>
		12,065,976
	Accumulated Surplus	
—	Balance at 1 January 1984	304,671
304,671	Retained Surplus for year	<u>324,218</u>
		628,884
304,671		
<u>10,571,250</u>	Total Accumulated Funds	<u>12,694,860</u>
	<i>Represented by:</i>	
	Investments	
	Investment Portfolio,	
	Australian United Corporation	
	Limited	
10,574,906		12,720,941
	Market Value:	
	31 December 1984 — \$12,700,241	
	31 December 1983 — \$10,659,236)	
	Current Assets	
259	Cash at Bank	469
	<i>Less</i>	
	Current Liabilities	
3,915	Accrued Charges	<u>26,550</u>
		(26,081)
(3,656)		
<u>10,571,250</u>	Total Assets	<u>12,694,860</u>



