

REPORT  
OF THE COUNCIL  
1974

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In accordance with section 41 of the *Monash University Act 1958*, as amended, I submit the annual Report of the Council of the University for 1974.

## 1. THE COUNCIL

The Council held ten meetings in 1974. At the last of these, the members recorded a minute expressing their sorrow and deep sense of loss in the sudden death of the University's second Chancellor, Sir Douglas Menzies, and their gratitude for all that he had done. Sir Douglas had held office since March 1969, having previously served for nearly three years as the Council member elected by the faculty of Law, and during the whole time his contribution to the University was invaluable. About this the Vice-Chancellor writes more fully later in this Report.

Earlier, at its meeting in June, the Council had similarly recorded the death, after long and increasing ill-health, of Mr O. Rozenbes who had served for nearly three years, with great effort and devotion, as the member appointed by the Governor-in-Council on the nomination of the Melbourne Trades Hall Council. Mr J. W. Wood was subsequently appointed to take Mr Rozenbes' place for the remainder of his term of office until July 1975.

A number of other changes in membership took place during the year. The amendments to the *Monash University Act*, referred to in the previous Report of the Council, became operative on 16 January 1974, and provided, *inter alia*, for increased representation of staff and students on Council. Accordingly the following new co-options and elections took place: Professor K. H. Hunt and Professor G. R. Manton were co-opted as deans of faculties; Professor R. Porter was elected as an additional member by the professors; Associate Professor G. M. Kellerman and Dr I. D. Rae were elected as additional members by the teaching staff other than the professors; Mr J. M. Ballagh was elected by the non-teaching staff; Mr A. M. Ray was elected as an additional member by the undergraduate students.

In addition there were changes in the membership of the Council as the result of resignations and the normal expiry of four year periods of office. The faculty of Education elected Mrs J. R. Hodgson and the faculty of Law elected the Rev. P. J. Hollingworth to fill the places previously held by Mr B. Rechter and Mr Justice G. H. Lush respectively, Mr A. T. Hird was appointed by the Minister for Education to take, for the remainder of the period to December 1977, the place of Dr L. W. Shears who relinquished office because of the pressure of other commitments. Mr N. R. Laidlaw was elected by the undergraduate students to take, for the remainder of the period to June 1975, the place of Mr J. E. Varley who resigned his membership when he ceased being an undergraduate. Professor D. H. Monro was elected by the professors to take, for the remainder of the period to July 1975, the place of Professor J. D. Legge who resigned on proceeding overseas on study leave.

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There are currently two vacancies on Council, one caused by the resignation of Mr K. P. Palmer, who was the member appointed by the Governor-in-Council as repre-

senting agricultural interests, and the other by the resignation of Dr Ursula Hoff the member elected by the faculty of Arts, who has taken a post in London. It is hoped that both vacancies will soon be filled.

During the year the graduates of the University re-elected Dr R. B. Nethercott for a further four year period to October 1978.

The Council wishes to record its gratitude to those who have served but are no longer members and also to its Deputy Chancellor, Mr I. Langlands, who took office in March at the beginning of his three year appointment and upon whom, in the course of this his first year, more than usually heavy duties have fallen.

At the November meeting of the Council, the Vice-Chancellor, Dr J. A. L. Matheson, announced his intention to retire at the end of January 1976, and the first steps towards a new appointment were taken before the end of the year. Next year's Report will speak of the work of Dr Matheson as the University's first Vice-Chancellor. Meanwhile, before Council was aware of the impending resignation, it had decided to launch an appeal to finance the building of a pipe organ in the Robert Blackwood Hall to be named the Louis Matheson Pipe Organ, and to provide a trust to support annual performances, associated with the names of Dr and Mrs Matheson and given by distinguished musicians.

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

Doctor of Engineering: John Neill Greenwood

Master of Science: Kenneth Nigel Graham Simpson

Doctor of Laws: Eric Ernest Westbrook

## 2. REPORT OF THE VICE-CHANCELLOR, DR J. A. L. MATHESON, C.M.G., M.B.E., PH.D.(BIRM.), HON.D.SC.(H.K.) HON.LL.D.(MANC.), F.I.STRUCT.E., F.I.C.E., F.I.E.AUST.

In my last report I wrote of the contribution which Sir Douglas Menzies had made to the University as its second Chancellor and the general satisfaction which was felt when he accepted election to a third term. Unhappily he was not able to complete even the first year of the new period of office for he died suddenly on 29 November 1974.

The Council recorded its regret in a minute which paid tribute to the devotion with which he carried out his duties, his knowledge and perception of our affairs, and his skill as a chairman presiding over Council meetings. But a formal motion cannot do adequate justice to personal feelings in these matters and it fell to Professor Davis McCaughey to put into most moving words, at the funeral service in Scots Church, something of our regard and affection for Sir Douglas; he will be greatly missed.

\* \* \*

1974 was the middle year of the 1973-75 triennium and, in accordance with the financial cycle to which we are bound, it saw the visitation of what is now called the Universities Commission, *tout court*. In the course of rather more than a day the Chairman and members of the Commission questioned deans, chairmen and others on the work of the past three years and our plans for the next; in particular our proposals for new buildings, especially in the medical area, came under rather close scrutiny and a confused discussion took place which can have added little to Commissioners' understanding of the proposals and the justification for them. This incident leads me to reflect on our relations with the Commission.

There is no doubt that in recent years the Commission has greatly improved its administrative procedures and its understanding of the aims of universities and of the

physical and financial problems that impede them. The systems of indexation which are being developed, to help reduce inflationary pressures, are a tremendous help in difficult times. The contacts between university and commission staffs are helpful and productive. Nevertheless the Visitations themselves (so-called by unkind analogy with Old Testament plagues) remain an ordeal for professors and others who are on duty to explain and defend their case but who are usually not accustomed to the adversarial procedures of a royal commission. It would, I think, be more valuable if the Commission's triennial excursions were conducted in a descriptive rather than in an analytical manner; arguments about students per square metre (or is it the other way round) are best concealed from public view.

The interviews with the whole Commission, in April, were followed in October by discussions with a sub-committee concerned to evaluate universities' proposals for teaching hospital development. The miscarriage of the foetus of the Monash Hospital compelled our faculty of Medicine to work out plans for the clinical departments to be located permanently in Alfred and Prince Henry's hospitals close to the city; Queen Victoria hospital, where our departments of Paediatrics and of Obstetrics and Gynaecology are housed, is to move to Clayton so that only minimum developments, designed to keep things going for a decade, can be contemplated in the present building.

Since it is intended to increase the number of medical students from 160 to 200 per year the resulting growth in the responsibilities of the clinical departments means that quite large extensions to our existing buildings have to be sought. At the same time the involvement of the department of Microbiology in teaching science students has grown substantially so that it is now thought that the headquarters of this department should be shifted to the campus.

This has not been a good year in the medical faculty; internal bickering and student dissension, ostensibly about assessment but in reality springing from a jumble of causes, culminated in a march on Parliament House which, although reasonably orderly, cannot have conveyed a very clear message to our legislators. The message that reached me was that the feelings of frustrated idealism of some of our young doctors, the bitter and long-drawn-out disputation over the Australian Government's health plans, the confused debate about the "relevance" of the more fundamental parts of the medical course, and the disappointment over the loss of the campus hospital combined to produce a situation in which a few malcontents were able to persuade all those who felt discontent, from whatever cause, to join in. There must be a moral in this somewhere.

\* \* \*

The inflation which the Australian economy has been experiencing has had quite a serious effect on our finances, although less so than if we were out in the market place. We are fortunate in being sheltered from the most ferocious winds of ill-fortune for we do receive supplementary grants to compensate for salary and wage movements and a system of indexation has been developed which goes some way to keeping the building programme solvent. Nevertheless it has not been an easy year and some reduction in the level of staffing in 1975 will be required if we are to finish the triennium without a deficit.

Salary movements have perhaps had their most serious effects in the halls of residence where the fees are now so high that it is very hard for students to meet them. Partly for this reason the halls have not been full for much of the year and this is the more worrying because overhead costs are then shared between a smaller number of customers and the cost to each individual is correspondingly raised.

The Universities Commission is encouraging universities to build "non-collegiate housing" and, following the receipt of a grant for this purpose, flats are now under construction in the south-east corner of the campus to house 100 students and some staff members. It is, of course, possible that this development will prove to be a



serious competitor to the halls, making their financial viability even more uncertain, but time will tell. It was decided during the year that the position was sufficiently serious to require expert advice and that a consultant should be engaged to consider whether the management and organization of the halls could be improved. The resulting report is being closely studied and changes may follow which will make the halls more financially attractive to students.

\* \* \*

Academic salaries have also been affected by inflation but at least there is now a recognized machinery for considering them. The Academic Salaries Tribunal is empowered to advise the Government in this area and during the year it made an interim review of the position: recommendations for salary rises, based on the movement of related salaries rather than on a thorough-going review of work value, were accepted by the Government and will be backdated to 16 October 1974.

It is evident that the Tribunal will have to face some awkward problems when it eventually embarks on the promised in-depth review. For instance the 17½ per cent leave loading which has been granted to public servants is to be applied to academics but it is obviously only possible to do this satisfactorily if leave records are kept. Traditionally academics have not kept fixed hours and have taken holidays at odd times to suit themselves, their families and their work. Although this has perhaps given the impression to the world that academics have an easy life the fact is that most of them do work hard although often at hours that escape the notice of the casual observers. It will be a pity if this life style is affected by the necessity to regulate and record working hours.

A more serious problem has been brought about by the decision, some years ago, to equate university and college salaries. The result has been that although for the most part colleges employ less well qualified people in less demanding jobs than universities their salaries are the same; any change in university salaries, which automatically flows on to the colleges, thus has an enormous total effect. There is therefore more resistance to granting periodical improvements in university salaries which are consequently tending to drift away from those in other occupations, such as C.S.I.R.O., with which they have long been aligned.

\* \* \*

The decision of the Australian Government to assume full financial responsibility for university finance has not so far had very tangible results although it is possible for those with a nervous disposition to detect slight signs of possible dangers ahead.

Certainly it was sad to have to sever our connection with the Treasury with whose senior members we have developed very good relations over the years; our contacts with ministers, especially Education and Health, have not changed because we are still incorporated under an Act of Parliament of Victoria and have important connections with various hospitals. The abolition of fees, however, which can easily be justified on grounds of social justice, is I am sure leading some students into the belief that society owes them, and is ready to give them, a university education without any appreciable effort on their own part. It can easily be argued that if primary and secondary education are free then there is no reason for tertiary education to be charged for; and if University education is to be regarded as a mere sequel to secondary education, with few special and distinctive qualities of its own, then that argument must prevail.

But most people of my generation, and many younger than we, value universities more highly than this and do not regard them as merely being part of the state's machinery for teaching the three Rs to its children. Thinking thus we regret any move which will lead to universities being undervalued and we are apprehensive about present trends. When I was told by a student that I had better be more sensitive to students and their demands (in this instance for unrestricted parking) because my job

depended on them, I began for the first time to think that I was getting too old for university life in the seventies.

\* \* \*

Reference has already been made to the issue of "assessment" or in old-fashioned language, "examinations". Monash medical students have been scrutinized for many years under the system known as "continuous assessment", that is to say their performance during the academic year has been treated as evidence so far as their passing or failing the M.B., B.S. examination is concerned. Under this system students are apt to feel that they are continually under scrutiny and there have been demands for the restoration of the old-style comprehensive final examination.

Much of the rest of the University has been moving in the reverse direction and pressure has been applied by students to get final examinations replaced by continuous assessment; evidently medical and economics students never exchange notes or, if they do, they do not convince one another. At any rate students, in arts and economics mainly, staged a sit-in in the University offices in September on the assessment issue and eventually the police were called to evict them.

I used to think that the final confession of failure was to have to enlist the help of the police but I now recognize that universities are very big communities which function satisfactorily and peacefully only if there is general agreement that they should. If more than a very small number decide to flout the operative conventions then, in the last resort, there is no alternative to calling on the civil arm for assistance.

\* \* \*

The disputation about assessment on campus is but an extension of the policies being pursued by activist members of teachers' unions. High schools, of course, still contain a majority of pupils who have no ambitions to proceed to tertiary education. Teachers maintain, with justice, that high school curricula are unduly dominated by the entrance requirements of the universities and, in particular, by the use of the H.S.C. not only for university entrance and selection purposes but also by employers generally who are looking for some indication that their new recruits can read and write. Hence the campaign for the abolition of H.S.C.

The other side of all this is that the Victorian Universities and Schools Examination Board, although constrained by the Universities' Acts under which it is constituted, is under constant pressure to extend the help which it already gives to many conscientious teachers.

It was therefore decided to study the possibility of replacing VUSEB by a statutory body which could constitutionally cover the whole field of secondary education and to this end, the Committee on Secondary Courses and Assessment, with a very wide constitution, was set up. This body reported that a secondary schools council should be established and it is expected that legislation will soon be introduced into Parliament to bring this about.

This council, on which the university representatives will be very much in a minority, will not only take over VUSEB's responsibility for running the university entrance examinations but it will be empowered to run any other external examinations or tests that the schools desire; it will be free to establish research and advisory services and generally to act as an agency to help teachers in their work. How it does this, and its relationship to many other bodies, remain to be worked out by the council itself.

In agreeing to the establishment of the council the universities have shown their willingness to relax the tight hold they have hitherto had on the schools and the stage is set for a new era in secondary education to begin; it is an exciting prospect spoilt only by the knowledge that some teachers will not co-operate and may campaign to defeat the proposal.

\* \* \*

On 16 January 1974 a number of changes to the Monash University Act became effective. So far as Council membership is concerned the effect has been to increase the proportion of internal to external members by increasing the number of professorial, non-professorial and student members: two deans and one member of the non-academic staff are included for the first time.

The Act now permits the membership of the Professorial Board to be prescribed by statute and the membership now includes a number of heads of functional units like the computer centre, one member of the non-professorial staff from each faculty, and four students.

The actual functioning of the board was not noticeably affected by these changes and the new membership found it no easier than the old to know what should be done about semesters, terms and vacations. In the end it was decided to revert to a three-term system if only for the reason that this matches the other two Victorian universities.

\* \* \*

Monash is unique, I think, among the Australian universities in having appointed full-time deans of faculties, a system which has served us well. As two foundation deans have indicated their desire to retire and take professorial chairs (in accordance with their contracts) Council decided that I should initiate discussions on the whole question of the terms of appointment or election of deans. These talks have been held in three faculties and have revealed substantial support for the present system which may thus be continued indefinitely with, perhaps, some minor changes.

\* \* \*

This University has long enjoyed rather good relations with its non-academic staff and it prides itself upon the care which it takes to offer reasonable salaries and working conditions, in line with those in comparable employment elsewhere, in advance of pressure from employees. Tradesmen belong to the appropriate unions but the rest of the staff has been represented by the general staff association.

This body decided to encourage its members to join the Municipal Officers Association and to appoint the M.O.A. to represent it in negotiations with the University as employer.

The University, for its part, declined to accede to this plan on the grounds that it believed that the M.O.A. was not entitled, under its constitution, to represent university employees and a long-drawn-out dispute began which is still not settled. The M.O.A. served a log of claims on this University and seven others, and the Federated Clerks Union, which is in some ways a rival to the M.O.A., responded by seeking a declaration from the Industrial Court that the M.O.A. was *ultra vires* its constitution. This action was successful and the M.O.A. responded by appealing to the High Court where the matter now rests.

\* \* \*

In this and in an increasing number of other matters the universities of Australia find themselves faced with similar, and often identical, problems and they often wish to take mutually consistent actions or even to act collectively in appropriate situations; in other cases they are glad to have information or advice.

These trends have increased considerably the work of the Australian Vice-Chancellors' Committee which, with headquarters in Canberra and an effective secretariat is now well-equipped to service inter-university activities. The A.V.C.C. handles an immense amount of business, some of it formal and routine, some of it requiring study and report by ad hoc or standing committees. Its functions are regulated by an executive committee which meets in advance of each of the five vice-chancellors' meetings which are held during the year.

Two other committees of this kind on which I serve are the Victorian Universities

and Colleges Committee and the Tertiary Education Advisory Council of the Minister of Education in Victoria. Both these committees consist of persons who are there because of the positions they hold and neither has executive powers.

The V.U.C.C. has three members each (V.C. or equivalent, Registrar and one other) from the three universities, from the Victoria Institute of Colleges and from the State College of Victoria. It meets three times a year and is a very useful forum for the exchange of information and opinion on a fairly restricted range of topics of common interest.

T.E.A.C. is gradually becoming more formalized and, with the appointment of a full-time deputy chairman (the Minister is chairman), better organized; its job is to give advice to the Minister on matters which he puts before it. The advice he gets is the consensus of the views of a small number of people holding senior executive office and he may accept, modify, or ignore that advice; doubtless he seeks advice on the same questions from other groups. It will be seen that, as this Council (which is perhaps too grandiloquently named) has a special kind of membership and no powers, any suggestion that it should become a statutory body with a democratic constitution misses the point.

\* \* \*

For nearly seven years, a joint committee of the Royal Society of Victoria has been working for the creation of a Victorian Institute of Marine Sciences. This committee has had members drawn from the three Victorian universities, the Victoria Institute of Colleges, the Division of Fisheries and Wildlife, the National Museum of Victoria, the Royal Society of Victoria, and from industry and commerce. It is pleasing to note that the Institute has now been created by an Act of the Victorian Parliament.

In terms of this Act, the objects of the institute shall be—

- (a) to provide facilities for and foster, carry on and support scientific research and technological development in all branches of learning concerning or touching upon marine sciences, including but without limiting the generality of that expression, the sea, the sea-bed, sea shores, and the resources and inhabitants thereof and mankind's relationship with and use of the sea;
- (b) to advance knowledge of the marine sciences and to advance the practical application of such knowledge to commerce and industry;
- (c) to provide facilities for instruction, demonstration, and training in subjects relating to the sea and its resources;
- (d) to make known when and as the council considers advisable by printed publication or otherwise any information or advice concerning any matter relating to the purposes of the institute and, with a view thereto, to acquire, set up, maintain, print, publish, and circulate magazines and journals, circulars, pamphlets, or other literary or scientific works as the council considers to be in any way beneficial to the institute or to the public or any section thereof;
- (e) to provide facilities for research and a library and library facilities and to maintain and from time to time extend such facilities and library;
- (f) to conduct or join in conducting such centres for the display and demonstration of marine and maritime exhibits as the council determines.

The University hopes that the institute will rapidly become a physical reality with laboratories and other facilities which will be available to staff and students for both teaching and research purposes. Marine sciences have been neglected in the past in Australia, but both government and industry are now showing a much greater awareness of the importance to Australia of the resources of the continental shelf and the adjacent oceans.

In the provision of trained graduates to work in the many fields of marine science, the role of the universities and colleges of advanced education will be critical. Such graduates can only be produced if proper facilities for their education are available.

Negotiations with the Australian Government Department of Health and Depart-

ment of the Environment and Conservation for use of some twenty-five acres of land on Point Nepean for the joint purposes of a (separate) Marine Fisheries Laboratory of the Fisheries and Wildlife Division, and the Institute of Marine Sciences are at an advanced stage. The proposed site has been chosen after lengthy investigation and if both the Fisheries Laboratory and the Institute can be built there, a considerable sharing of facilities will be possible, with many advantages to both parties.

\* \* \*

Finally may I refer to my own retirement. This year is my fifteenth at Monash and, in that period, the University has become a big and complex place with a student body of some 13,000, and about 2,700 staff including some 1,100 academics. The plans which were formulated in 1958-59 by the Interim Council have practically all been realized; the University has reached full size; the future holds new and distinct problems, which, I have come to feel, need a new Vice-Chancellor to recognize and face.

Above all the operation of the triennial system means that the year 1976 will see the development of plans for the 1979-81 triennium and that is well into the regime of my successor in any event. I therefore concluded that the University would be best served if he could take up office early in 1976 and my intention to retire on 31 January of that year, when I shall have completed exactly sixteen years, makes this possible.

### 3. DEVELOPMENT OF SITE AND BUILDINGS

The following buildings were completed and taken into use during 1974: "E" block medical school extensions and central animal house stage 2.

Projects under construction with anticipated completion dates in 1975 are: science north stage 2, extensions to the Robert Menzies School of Humanities, science-biology-zoology, education stage 2, Krongold Child Training Centre, main library stage 3, sports field house, Union extensions and non-collegiate student housing.

Tenders for extensions to administration and maintenance buildings have been received, and it is anticipated that work will commence early in 1975.

It is expected that all approved projects in the 1973-75 triennium will be completed by the end of 1975.

In addition to the many smaller items of site works undertaken, the following larger items were completed: additional paving at the central animal house, improvements to western road system, north-west car park stage 3, and non-collegiate housing car park and access road, first stage. Where applicable, pavement lighting was extended or improved. The road consultants carried out and reported on an origin and destination survey of vehicles arriving at and leaving the University. The electrical high tension system was extended and additional sub-stations were constructed in the zoology and science north buildings. Planning commenced on extensions to the main boiler house and the master heating system.

### 4. ADMINISTRATIVE MATTERS

#### *Legislation*

In 1974 Council made eighteen statutes. Eight of the statutes gave effect to recent amendments to the Monash University Act by which changes in the constitution of the Council and the Professorial Board were authorized. Another amending statute created the new Board of Studies in Social Work. During the year, thirty-seven new and amending regulations were also made by Council pursuant to the statutes.

*University Publishing*

The University's first annual research report appeared during the year. It contained an account of the research carried out within the University as well as a list of publications by the members of staff. Theses accepted for higher degrees were also listed.

The other official publications—Calendar, Report of Council and the faculty handbooks—appeared at the appropriate times.

The Publications Committee, responsible for the University's academic publishing programme, again met regularly during the year. Four books by staff members, published with the assistance of the committee, appeared in 1974. Of these, two, in the field of Southeast Asian Studies, were designed and produced within the University by the publications section. The committee undertook a review of its policy on support for journals and adopted a scheme to provide continuing support in place of the earlier policy of short-term assistance. This will considerably strengthen the position of the academic journals published within the University.

*Safety*

The major safety item introduced into the University was the Monash University Emergency Vehicle, equipment for which was provided by funds from the Buckland Foundation. This well-equipped vehicle has repeatedly given early medical assistance in cases of illness and injury and has also provided traffic control in vehicular accidents. It is proving a valuable asset for the University.

Training demonstrations in use of hand fire extinguishers, methods of lifting and first-aid resuscitation have continued. Emergency procedures have been introduced in the faculties of Engineering and Medicine and in the audio-visual aids section. Affiliation with the local safety group of Dandenong and the National Safety Council has continued and their journals have been distributed to all departmental safety officers.

Thirteen departments use the radiation film badge service and no dangerous incidents have been recorded. Lectures and demonstrations on safe use of radio-isotopes and radiation equipment have continued. Plans for the construction of a low-level radioactive waste store have been completed.

The safety and the radiation protection officers contributed to the production of a safety manual for use in Victorian universities and colleges of advanced education.

*Monash Associations Liaison Committee*

The Monash Associations Liaison Committee is a committee of delegates from individual university associations interested in and working for the University.

During 1974 several successful functions were held including a parent orientation day and a dinner for parents of first year students.

## 5. STAFF APPOINTMENTS

The University's recruitment pattern in 1974 followed that of recent years in a situation of continuing high demand for University teaching staff. Considerable use was made of short term appointments.

The total full-time academic staff numbered 824 at 31 December 1974, an increase of 43 over the corresponding 1973 figure. There were 188 new appointments and 145 resignations, the highest recruitment and resignation figures in the history of the University.

In the light of the recommendation arising from the 1973 academic salaries review and similar action in other universities, a new grade, principal tutor, was introduced in 1974.

*Full-time Academic Staff (as at 31 December 1974)*

	Arts	Ecops	Educ'n	Eng'ng	Law	Medicine	Science	Total
Deans	1	1	1	1	1	1	1	7
Professors	22 (2)	12 (2)	6 (2)	7 (2)	5 (1)	17 (5)	19 (2)	88 (16)
Readers	6	5 (1)	—	2	1	7	17	38 (1)
Associate Professors	10	4 (3)	2	11	2	7	5	41 (3)
Senior Lecturers	65 (4)	27 (1)	19 (1)	30 (1)	16	43 (4)	52 (4)	252 (15)
Lecturers	55 (10)	21 (4)	22 (7)	23 (4)	17 (3)	24 (5)	44 (9)	206 (42)
Principal Tutors	6	2	1	—	—	1	1	11
Senior Tutors —with tenure	8 (1)	—	1	—	2	—	1 (1)	12 (2)
Senior Tutors	25 (10)	4 (4)	6 (3)	9 (10)	3	28 (18)	25 (14)	100 (59)
Tutors	23 (17)	23 (17)	2 (2)	—	10 (6)	4 (2)	7 (6)	69 (50)
Total	221 (44)	99 (32)	60 (15)	83 (17)	57 (10)	132 (34)	172 (36)	824 (188)

The numbers in brackets indicate those who took up their first appointments at Monash in 1974.

Full-time academic staff who left Monash during 1974 to take up other appointments or at the end of visiting appointments are:

Professors	3
Visiting Professors	12
Readers	1
Associate Professors	3
Senior Lecturers	11
Lecturers	21
Principal Tutors	1
Senior Tutors with tenure	3
Senior Tutors	61
Tutors	29
	145

Those who resigned included Professor R. Street, professor of Physics, who went to the Australian National University as director of the research school of Social Sciences, Professor R. G. Barden, professor of Fluid Mechanics, to go into private practice, and Professor F. Van Laere who returned to Belgium.

One rotating University visiting professorship was filled during 1973 and a number of other scholars were accorded the title while at Monash on visiting appointments.

Of the full-time academic staff who took up appointment during the year, 104 (of whom 96 had taken their first degree in Australia and 8 overseas) were recruited from Australia and 84 (of whom 20 had taken their first degree in Australia and 64 overseas) were recruited from overseas.

The following professors took up their appointments during 1974:

Professor P. Boss, M.A. (Liv.), Dip.Soc.Stud. (Lond.), Dip.Pub.Admin. (Brist.)  
*Social Work*

Professor A. P. McCaughey, B.A. (Melb.) *Visual Arts*

Professor R. P. Tisher, B.A.(Ed.) (N.E.), M.Sc., Dip.Ed. (Syd), Ph.D. (Q'ld.)  
*Education*

The following professors were appointed but will not take up duty until 1975:  
 Professor A. L. A. Boura, B.Sc., Ph.D. (Lond.) *Pharmacology*

Professor Jean P. Whyte, B.A. (Adel.), A.M. (Chic.), F.L.A.A. *Librarianship*

Fifteen research fellowships and forty-three full-time research posts at more junior levels were filled during 1974.

There was an increase of fourteen in 1974 in the total number of administrative and specialist support staff. The distribution is shown in the following table.

	<i>Admin.</i>	<i>Data Process.</i>	<i>Managerial</i>	<i>Special</i>	<i>Total</i>
Faculty and Teaching	24	2	21	27	74
Central Administration	82	9	—	5	96
Computer Centre	1	14	—	1	16
Library	2	2	—	—	4
Ancillary Areas (including Halls of Residence and Bookshop)	20	—	8	4	32
	<u>129</u>	<u>27</u>	<u>29</u>	<u>37</u>	<u>222</u>

In the University library, graduate and other staff with formal qualifications totalled 62 as compared with 64 in 1973.

Total full-time staff of the University at 31 December 1974 was 2,706 compared with 2,561 in 1973.

## 6. ACADEMIC DEVELOPMENTS

The following degrees and diplomas were conferred by the University at graduation ceremonies in 1974, the final column indicating the total number of degrees and diplomas awarded since the foundation of the University.

	<i>Male</i>	<i>Female</i>	<i>1974 Total</i>	<i>1961-74 Total</i>
Bachelor of Arts	187	347	534	3923
B.A. (Honours)	54	62	116	625
Master of Arts	22	7	29	124
Bachelor of Economics	271	84	355	2071
B.Ec. (Honours)	38	5	43	271
Master of Administration	46	1	47	69
Master of Economics	13	—	13	58
Bachelor of Education	106	21	127	462
Master of Education	9	1	10	28
Bachelor of Engineering	78	—	78	383
B.Eng. (Honours)	109	1	110	501
Master of Engineering Science	23	—	23	83
Bachelor of Jurisprudence	73	15	88	596
Bachelor of Laws	104	17	121	519
LL.B. (Honours)	9	—	9	53
Master of Laws	—	—	—	7
Bachelor of Medical Science	—	—	—	11
B.Med.Sc. (Honours)	9	2	11	87
M.B., B.S.	91	17	108	762
M.B., B.S. (Honours)	27	8	35	208



	Male	Female	1974 Total	1961-74 Total
Bachelor of Science	168	84	252	1299
B.Sc. (Honours)	106	43	149	813
Master of Science	13	5	18	138
Doctor of Philosophy	71	8	79	516
Doctor of Medicine	2	—	2	10
Doctor of Science	1	—	1	3
<b>TOTAL DEGREES</b>	<b>1630</b>	<b>728</b>	<b>2358</b>	<b>13620</b>
Diploma in Education	210	310	520	3043
Diploma in Microbiology	—	1	1	1

#### 1974 Annual Examination Statistics

The total University first year pass rate continues to be high and averages at 85 per cent. The faculty of Engineering shows a marked fall. This could be due to a large proportion of the 1974 intake into first year having a matriculation standard much lower than has been normal for the faculty.

#### PASS RATES

(For first year full-time students)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
<i>Group (a)</i>											
Arts	57	70	67	74	80	77	78	80	83	85	87
Economics and Politics	61	70	77	85	83	76	76	88	81	87	85
Law	60	71	76	72	80	72	80	82	79	88	92
Science	60	78	88	89	90	86	89	90	89	87	84
<i>Group (b)</i>											
Diploma in Education	84	88	90	90	89	92	92	92	96	97	95
Engineering	55	70	70	84	74	75	84	88	82	76	64
Medicine	64	84	89	91	97	96	99	96	98	98	95

Note: For the purpose 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.

#### FACULTY OF ARTS

Dean: Professor G. R. Manton, M.A. (Cantab.)

#### Students

Undergraduate enrolments in 1974 were about 5 per cent higher than in 1973. As was to be expected, with the abolition of tuition fees there was an increase in the proportion of full-time students. The faculty admitted some twenty new students under the early leavers scheme. Their performance, both in the proportion of units passed and in the grades achieved, was above the average for full-time first year students.

The graduate enrolment remained about the same, with a slight increase in the proportion of Ph.D. candidates.

#### Staff

The staff establishment reached its maximum level of 247 E.A.S. this year, the new positions being used mainly for support staff in social work and visual arts and for the chair of Librarianship. This was filled by the appointment of Miss Jean Whyte, B.A. (Adel.), A.M. (Chic.), F.L.A.A., director of information reference and research at the National Library, Canberra. During the year, Professor Francois van Laere resigned from his chair in French, which he had held since 1971, to return to Belgium. There

was one promotion to a readership, that of Dr Margaret Kartomi, senior lecturer in the department of Music. From 1 July Professor R. H. T. Smith succeeded Professor A. G. L. Shaw as associate dean.

### *Curriculum*

The faculty board has approved the institution of certain new courses in 1975. These include the third year of the new bachelor's degree in social work (to be followed by the fourth and final year in 1976), a first year unit in visual arts, which will serve either as a terminal unit or as the first part of a sequence, and two new first year units in history. One of these (Themes of Twentieth Century History) will deal with the recent historical background to a number of social and political problems of the present day. The other (East Asian History in the Twentieth Century) is designed to form the first part of a major sequence in Asian history.

New regulations affecting the structure of the B.A. degree came into force at the beginning of the year. While the main features of the established pattern—a minimum of four first year subjects and at least two sequences—have been retained, greater flexibility in the choice of subsidiary studies in later years is now possible. This has involved some basic changes in the numerical notation of units, but the new system has on the whole been well received.

### *Graduate Studies*

Some measure of the research activity of the faculty is provided by the lists of publications by members of staff and theses of graduate students, published in the Monash University Research Report. This year the area of inter-disciplinary studies, which have for many years been encouraged by the Centre of Southeast Asian Studies and more recently by the Centre of General and Comparative Literature, has been widened by the establishment, jointly with the faculty of Education, of a co-ordinating committee for migrant studies. Dr M. G. Clyne, associate professor of German, has been appointed the first chairman of this committee.

### *Visitors*

Some forty scholars from Australian and overseas universities and other institutions of learning have paid short visits to departments during the year. The department of English has arranged a number of short visits by writers and hopes, with the help of grants from the Literature Board of the Australian Council for the Arts and the Myer Foundation, to have writers in residence for longer periods in future.

### *Staff-Student Relations*

For some years now there have been four student representatives elected each year to the faculty board, and many of them have made valuable contributions to its discussions. However, it is virtually impossible for four representatives to maintain effective contact with a student body of over 3,000 distributed among fifteen departments. To meet this need, and to provide a forum for discussions in which students and staff from all departments can take part, the faculty board has agreed to the establishment of a student-staff council consisting of two students and two members of staff from each department, together with the four student representatives on the board. The council will elect its own officers and its main function will be to arrange at least once a term a forum open to all students and staff in the faculty for the discussion of matters of current interest. It is hoped to have the council elected in April 1975 and to hold the first forum before the end of the first term.

### *Accommodation*

The new south wing of the Menzies building, which was begun at the end of 1972, was due to be completed and handed over in February 1974. Owing mainly to the

industrial troubles prevailing throughout the building industry, the building has taken twice as long to complete as was originally intended, and many departments in the faculty have been severely handicapped in their work. It is now expected that all departments to be housed in the new building will have moved in before the beginning of first term 1975, but it is not likely that the consequent alterations in the west wing will be finished before the year is well advanced.

#### FACULTY OF ECONOMICS AND POLITICS

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

##### *Students*

A total of over 740 students was enrolled for the first year of the Bachelor of Economics course in 1974. Despite this increase of 200 students more than in 1973, the higher school certificate score for admission remained constant at 260.

The upward trend observed in previous years in the number of applications for admission to the combined B.Ec./LL.B. course continued in 1974. Approximately one-third of N-type applicants who placed the faculty's course as first preference, applied for the combined course. At 30 April 1974, the total number of such combined course students amounted to 371 compared with 277 in 1973 and 243 in 1972.

The total number of students enrolled in the degree courses taught by the faculty increased from 1,911 in 1973 to 2,089 in 1974, an increase of 9.3 per cent. Despite this increase in student numbers, the total E.F.T.S. for the faculty increased by only 2.3 per cent to 2,057.

##### *Staff*

New appointments to staff during the year were Dr C. A. Gannon as associate professor, Dr Y. K. Ng as reader and Mr G. R. Hogbin and Dr R. R. Piggott as lecturers, all in the department of Economics, together with Dr Barbara S. Harvey as lecturer in the department of Politics. Dr Colin Clark was re-appointed a fellow of the faculty for a further period and Mr C. G. Peirson was promoted to senior lecturer.

Professor A. A. L. Powell resigned from the chair of Econometrics to take an appointment with the Australian Industries Assistance Commission but retains a part-time appointment in the department of Econometrics and Operations Research; other resignations included Mr G. T. Armstrong, Mr B. Brogan, Dr H. D. Evans, Mr G. L. Gadiel, Mr J. W. Marriott and Mr I. A. Urquhart.

##### *Curriculum Matters*

The decision of the Professorial Board that the University should return to a year long teaching system as soon as possible, and the adoption of a three term calendar for 1975, posed great difficulties for the faculty as all the courses it taught in 1974 were on a semester basis apart from three first year subjects. The faculty board agreed that all first year subjects in 1975 should be taught on a year long basis with the results declared at the end of the year. Changes in the later years of the undergraduate course were not so easy and will take some time to be made.

As a result of the subdivision of the faculty into six departments, it was agreed to subdivide the fourth year honours course to allow students to specialize in one of the departments of Accounting and Finance, Economic History, Econometrics and Operations Research, Economics or Politics. The basic structure of the previous Bachelor of Economics honours course was retained insofar as students will continue to be required to attempt six units and there will be a common assessment for all students, i.e., they will be assessed and assigned an honours grading at a common examiners meeting for the four departments which previously comprised the department of Economics.

In 1974, 402 candidates graduated with the degree of Bachelor of Economics, including 47 honours graduates.

#### *Graduate Studies*

Following the restructuring of the Bachelor of Economics honours course, it was agreed to subdivide the Master of Economics course into five separate courses although the basic structure of four units and a minor thesis for the degree by course work and minor thesis, and a major thesis and one unit of course work for the research degree, will remain the same. Candidates wishing to concentrate on research will also be required to enrol in the appropriate department and have their major thesis supervised by a member of staff of that department.

The regulations for the degree of Master of Administration were amended to allow non-graduates to be admitted to candidature for the degree. The amendment was made to cover the case of applicants who were not graduates of a university or an equivalent institution but who possess professional qualifications and who have had work experience both of which, in the opinion of the faculty board, are deemed suitable preparation for graduate study in the fields covered by the degree. A small number of such non-graduates will be offered places for the 1975 academic year.

There were 12 Master of Economics graduates and 41 graduates for the degree of Master of Administration. Leo Roy Maglen, B.Com., Dip.Ed. (Melb.), M.I.I.S.E. graduated with the degree of Doctor of Philosophy following the completion of a thesis entitled "An evaluation of the role of student assistance schemes and the financing of higher education; with particular reference to Australia and the Commonwealth Scholarships Schemes, 1951-1961."

Total enrolments both in the Master of Economics course and the Master of Administration course decreased in 1974. In 1973 the total M.Ec. enrolment was 69 and this decreased to 55 in 1974 and the Master of Administration enrolments decreased from 255 to 147. This trend is being reversed in 1975.

#### *Public Lecture and Seminars*

The Eighth Monash Economics Lecture was delivered by Professor John T. Dunlop, Lamont University Professor, Harvard University, in the Robert Blackwood Hall on Monday, 9 September 1974. Professor Dunlop's paper was entitled "Inflation and Incomes Policies" and was the most successful lecture for some years with an attendance of over 800.

As in 1973, the department of Administrative Studies conducted a seminar course in Physical Distribution for industry executives during February. The seminar was again organized and conducted by Dr P. Gilmour and staffed by other members of the faculty and visiting academics and industrial executives.

The department of Economics held a social security conference to discuss various aspects of social security within Australia and New Zealand with particular reference to the Australian Health scheme and to income security plans.

#### *Visitors*

Among the visitors to the faculty during 1974, many contributed to teaching in the departments and participated in the large number of graduate student seminars.

#### *Faculty Government*

The year 1974 was the first full year in which the faculty operated with six departments. Several new committees were established by the faculty board and a number of others were reconstituted or were made faculty committees rather than committees of the old department of Economics. These included a faculty of education committee, two higher degrees and research committees—one for the Master of Economics degree and related courses and the other for the Master of Administration

degree. The regulations and degree structure committee was re-established to consider the structure of the course for the degree of Bachelor of Economics.

#### FACULTY OF EDUCATION

*Dean: Professor S. S. Dunn, B.A., Dip.Ed (Adel.), B.Ed. (Melb.), F.A.Ps.S., F.A.C.E., F.A.S.S.A.*

#### *Students*

The pressure for student places continues. The applications for Dip.Ed. were well in excess of the quota and selection was necessary. The number of B.Ed. applications also exceeded the quota. However by refusing applicants without at least one year of teaching experience and limiting part-time students to two subjects in their first year the remainder were accepted.

The pressure for higher degree studies has also increased and by 1975 it is expected that many well qualified applicants will be rejected as the faculty's ability to provide adequate supervision will have reached its limit. With a majority of students taking a part-time M.Ed., turnover is probably slightly slower than for an equivalent number of full-time students.

A most interesting new group in 1974 comprised the twenty-seven full-time B.Sp.Ed. students. These mature students selected from over 300 applicants, most with many years of teaching experience, settled in well and worked like Trojans, achieving excellent results in their first year.

#### *Staff*

During 1974 the faculty was able to recruit several new academic staff members, mostly at the lecturer level, and also to add to the technical staff. However opportunities in the S.C.V. and V.I.C. systems have led to three senior lecturers accepting appointments for 1975 at colleges at higher salaries. One has accepted a readership in the University of Tasmania and another will be retiring for health reasons. During the year also Associate Professor Phillips took up a joint appointment in philosophy and education at Stanford. His invitation followed a search by a faculty committee both in U.S.A. and overseas. This loss of several very valuable members of staff will, until their replacements arrive, produce strains early in the 1975 teaching year.

The faculty is experimenting with fixed term appointments and believes this could be fruitful particularly for staff in the methods area where staff with recent teaching experience are needed. The Victorian Education Department continues to make a most valuable contribution through its secondment of method tutors.

#### *Curriculum*

Experience revealed some minor problems with the first year of the B.Sp.Ed. course in 1974 and, with the help of the students, modifications have been made for 1975 and plans for the second year clinical programme worked out.

The Dip.Ed. programme was modified in 1974 to allow more choice for students. The size of the Dip.Ed. group and the restriction of a one year programme present difficulties which no university appears to have solved to the satisfaction of either staff or students. Consultation with both present students and those in their first year out is taking place in an endeavour to improve the course and to make the best use of the time available.

Plans for a new Diploma in Psychology in Education were approved by Faculty Board late in 1974 but held up in Professorial Board to allow the University to examine its policy with regard to expanding its programme of graduate diplomas. This programme was aimed at preparing graduates with a major in psychology to work in

education now that the Education Department is recruiting psychologists without teacher education qualifications. Now that the policy of Professorial Board has been clarified the programme will be resubmitted in 1975, possibly with some modifications.

Some minor modifications occurred in the advanced courses used for B.Ed. and M.Ed. A committee has been established with the faculty of Arts to promote work in migrant studies.

The problems of funds to pay for supervision of Dip.Ed. students during teaching practice mentioned in the 1973 report have been resolved for 1974 and 1975 although in such a way that some administrative problems remain. However, serious difficulties could arise concerning both funds and administration during the next triennium. In Victoria the Teachers' Tribunal has approved higher allowances to supervising teachers than are offered in other states. Unless, therefore, the Universities Commission recognizes the necessity to provide funds at the rates approved in each state, the universities in Victoria could face a financial crisis or a confrontation with secondary teachers over payments for supervision.

In 1975 the main problem facing the faculty will be deciding on the balance of its efforts. As the faculty approaches its ultimate size it can only expand a programme or initiate a new one by reducing an existing one. As the college system expands it should be possible to reduce numbers in the Dip.Ed. course and expand its higher degree offerings for which there is a very strong demand which is not likely to be met by the colleges in the immediate future.

#### *Research*

The presence of a sizable group of full-time Master's and Ph.D. students in the faculty helps to create a good climate for research. In addition to grants from faculty funds staff are operating on grants from A.R.C.G., A.A.C.R.D.E., the Poverty Commission and other funding bodies. A project to evaluate the primary schools libraries programme for the Schools Commission has been accepted and this is expected to expand to cover evaluation of both the primary and the secondary schools libraries programme and the training of school librarians. If the budget is accepted for the next triennium this will become a major project with two full-time research fellows. This research will fit in with the plans of the faculty to develop programmes for "resource centre" management and to work closely with the new department of Librarianship in the faculty of Arts.

Two staff members are working with staff from the Australian Council for Educational Research in a project evaluating the in-service teacher education programme of the Schools Commission in Victoria. The Victorian College of Nursing is also being assisted to evaluate its new diploma programme.

A number of publications in book and journal form have been very well received and one book containing research reports by several members of staff was described as a "must" in a high level research journal in the U.S.A.

#### *Professional and Public Service*

The demands on the staff for committees concerned with education but operating outside the University are considerable. Members are serving on the Interim Senate of the State College of Victoria, on its academic planning board and on the councils of four of the S.C.V. colleges and are assisting in numerous accreditation and selection committees. They are also serving on a number of major Australian and State Government committees concerned with education.

#### *Visitors*

Among the number of overseas visitors during 1974, Professor John Nisbet of Aberdeen spent three months as visiting professor and made a distinguished contribution to the life of the faculty.

*Accommodation*

Building extensions were commenced late in 1974 and because these will not be completed until about May, the first few months of 1975 will be difficult so that some staff will have to be housed in other buildings. The kindergarten will operate in a rented building until the building operations are completed.

During 1974 the government policy of subsidizing buildings under the Handicapped Children's Assistance Act was changed to a basis of four to one in place of two to one. As a consequence additional funds became available enabling the building of the Dinah and Henry Krongold Child Training Centre to be commenced.

## FACULTY OF ENGINEERING

*Dean: Professor K. H. Hunt, M.A. (Oxon.), M.Mech.E. (Melb.), C.Eng., F.I.Mech.E., F.I.E.Aust.*

*Students*

The number of students enrolled in first year was 345 (324 in 1973) but the overall undergraduate enrolment dropped to 1,112 (1,128 in 1973). 141 students were enrolled for higher degrees (135 in 1973).

*Staff*

Appointments to staff during the year included Dr R. B. Newell as lecturer in Chemical Engineering, Dr R. E. Melchers and Mr A. J. Richardson as lecturers in Civil Engineering, Dr K. C. Ng as senior lecturer in Electrical Engineering. Dr W. A. Brown was promoted to associate professor in the department of Electrical Engineering.

*Curriculum*

A revised second year course with a substantially increased chemical engineering content was well received by students this year and the acquisition of a NOVA mini-computer has made a marked impact on the effectiveness of laboratory work in the department of Chemical Engineering. Eighteen students successfully completed in 1974 the final year of the course in materials engineering which has been granted full recognition by the Institution of Engineers, Australia, as a qualification suitable for corporate membership.

*Graduate Students, Research and Professional Service*

As in previous years, research in all departments of the faculty covered a wider field. A large number of colloquia, papers and research reports was presented and published and the work continued to attract support from outside sources.

Once again, calls upon academic staff to engage in professional and educational activities outside the University were many and varied and led to heavy involvements as requests from learned societies and from such bodies as the Victoria Institute of Colleges and colleges of technology for advice and service continued to be received and answered.

In August and September, the dean was in South Africa as the 1974 John Orr Memorial Lecturer of the South African Institution of Mechanical Engineers.

A considerable number of conferences was attended by staff from all departments, many of whom contributed lectures and papers, and consulting work undertaken included the following: feasibility studies for the proposed Pilbara Project; continuing, but now almost completed, work on the West Gate Bridge; the theoretical analysis, verified by experiment, of a cast iron steam dryer for A.P.M. Ltd; flood estimation for the proposed Thompson and Aberfeldie dams; hydrologic investigation of the Niddrie culvert; soil testing for M.M.B.W. western purification plant; studies in eastern freeway

traffic noises; and projects concerned with Melbourne Underground Rail Loop Authority, the Melbourne and Metropolitan Tramways Board, the Environment Protection Authority (Newport "A" power station), Westernport Bay Authority, the State Savings Bank Centre, the S.E.C. and B.H.P.

A large number of lectures and demonstrations was held in the faculty for, or in conjunction with, other bodies and included: On-Line Computer Control of Anaesthesia and Ventilation, given to the Australian Institute of Physics and the Society for Medical and Biological Engineering; the 1974 Noise, Shock and Vibration conference, held jointly with the Australian Acoustical Society (Victorian Branch) and the Institution of Engineers, Australia; the 1974 Production Technology conference; and a one-week continuing education course in rheology.

#### *Visitors*

A great many academic visitors both from within Australia and from elsewhere, spent periods in the faculty during the year and the work of departments in teaching and research benefited greatly from their lectures and supervision of projects. Among these was Professor R. W. Honeycombe of Cambridge who, in addition to a course of lectures on Physical Metallurgy of Steels delivered the first Harold Armstrong Memorial Lecture under the title "Strong Steels: their Design and Development".

#### *Accommodation*

A critical shortage of space in the department of Materials Engineering was much relieved with the completion of building 6 and staff is now grouped together adjacent to departmental laboratories. Plans for building 7 have been completed but the department of Civil Engineering fears considerable strain in terms of office accommodation and light laboratory space if the commencement of construction is delayed, though the completion of some extensions has provided space for heavy materials storage and a models workshop.

### FACULTY OF LAW

*Dean: Professor D. E. Allan, M.A. (Cantab.), Barrister-at-Law (Middle Temple, N.Z., Tas. and Vic.)*

#### *Students*

There was an increased demand for places in Law as a professional discipline in 1974 and enrolments in the faculty were as follows:

	<i>Full-time</i>	<i>Part-time</i>	<i>Total</i>
B.Juris./LL.B.	517	96	613
B.A./LL.B.	210	7	217
B.Ec./LL.B.	356	10	366
B.Sc./LL.B.	60	—	60
LL.M. by thesis	—	8	8
LL.M. by course work	4	74	78
Ph.D.	6	—	6
	—	—	—
	1153	195	1348
	—	—	—

The 1974 intake included six students admitted under the quota of disadvantaged students. Their results compared favourably with those of other students.



### *Staff*

Professor Enid Campbell was seconded for eighteen months to the Royal Commission on the Public Service to which she had been appointed. Although the law library is not formally under the control of the faculty, it should also be reported that Associate Professor R. S. O'Regan, the senior law library adviser, left the University to take a chair in the University of Queensland.

### *Curriculum*

The faculty decided to commit a higher proportion of its teaching resources to the first year law subject Legal Process. Hence, teaching was conducted in streams consisting of no more than thirty students, each stream having a lecturer and tutor in charge of it. All reports indicated the success of small group teaching of this nature, which was reflected in the examination results.

The decision of the University in 1974 to return to a term calendar in 1975 was bad news for the faculty and has raised considerable problems. It has been arranged to return to a term calendar for the subjects of the B.Juris. degree because of the inter-faculty aspects of those subjects. It was not possible to return to the term calendar in 1975 or 1976 for the LL.B. or LL.M. degrees and, accordingly, a form of semester calendar will be retained in these degrees for these two years. A very substantial curriculum revision is required if these degrees are to revert to a three-term basis. The proposed calendar for 1975 and 1976, through its interaction with the University calendar, throws a very heavy load on the teaching staff and during 1975 the faculty will need to determine whether or not the teaching load is bearable, having in mind that the alternative is likely to be the surrender of the breadth of teaching at present offered.

Meanwhile, the development of new courses continued. Proposals for clinical legal education matured under the guidance of Professor A. Berney of Boston College Law School, and were accepted by the legal profession in Victoria. Accordingly in 1975 it is proposed to introduce a single semester LL.B. subject Professional Practice which will involve students in the work of the Australian Legal Aid Office to be opened in Springvale and in the Springvale Free Legal Service, with seminar and research papers conducted under university supervision. With assistance from Dean Kenneth Pye of the Duke University Law School and local community leaders, a highly successful course on poverty law was introduced in 1974 and the expansion has continued of courses in Japanese law in particular, and in broader aspects of international, foreign, and comparative law in general.

Two units of Japanese law are being introduced in the LL.M. by course work. This development has been assisted by the Victoria Law Foundation which made a grant to enable a Japanese attorney, Mr Hirokazu Kondo, to spend a year as a visiting lecturer at Monash. Common Market law, aerospace law, labour law, and criminology have also been given new resources. The appointment of Sir Richard Eggleston as a special lecturer in the faculty, on his retirement from the Federal Bench, gave added strength in many areas, but particularly in the law of evidence and trade practices. Keeping pace with law reform at the federal level is presenting a problem in curriculum planning. The courses in trade practices have been revised and a new course in securities control was introduced to keep pace with new legislation. The National Compensation Bill is likely to call for a major restructuring of some of the basic units in the curriculum.

### *Professional and Public Service*

The annual conference of the Australasian Universities' Law Schools Association took place at Monash in August and was attended by approximately 250 delegates. The work of the conference concentrated on changes in the law and the teaching of the law.

Two highly successful weekend seminars were held. One was for lawyers, accountants, and trust advisers, on the law of trusts, the other for social workers on the legal aspects of social work. A more ambitious programme is planned for 1975 as this is seen as an important function that a law school can undertake in the community.

#### *Visitors*

Among the many visitors who, as in past years, permanently enriched the faculty by their visits, mention must be made of the Right Honourable Lord Denning, the Master of the Rolls, who visited the law school in August and delivered the fifth Sir Wilfred Fullagar Memorial Lecture with the title "Let Justice Be Done!" The audience filled the Blackwood Hall and overflowed, by courtesy of closed circuit television, to two theatres in the rotunda. The lecture will be published in the Monash Law Review.

### FACULTY OF MEDICINE

*Dean: Professor R. R. Andrew, M.D., B.S. (Melb.), F.R.C.P., F.R.A.C.P.*

#### *Students*

There are 959 medical students distributed as follows: year 1, 163; year 2, 170; year 3, 171; year 4, 149; year 5, 142; year 6, 153; B.Med.Sc., 11.

Female entrants comprised 47 per cent, as against 27 per cent in 1973. The admission policy changed for 1974 when only one mathematical subject could be counted in the aggregate of four best subjects, including English. This may well have biased the intake towards more females. In all Australian medical schools (1974) females comprised 27 per cent (19 per cent in 1969) while 15 per cent of all registered doctors are females (11 per cent in 1966).

#### *Staff*

There are 144 academic staff full-time, and 41 part-time. In addition there are 260 clinical instructors at the seven affiliated institutions, and 133 instructors in general practice, appointed annually by Council.

The following table shows staff and student equivalents with the student-staff ratios, which show a small steady deterioration over the last four years for downtown staffing, and worsening of the faculty ratio.

	<i>E.F.T.S.</i>	<i>E.A.S.</i>	<i>Student-Staff Ratio</i>		
			<i>Campus</i>	<i>Downtown</i>	<i>Faculty</i>
<i>1971</i>	1249	173	9.9	5.5	7.2
<i>1972</i>	1298	166	9.6	6.2	7.8
<i>1973</i>	1388	177	9.6	6.2	7.2
<i>1974</i>	1521	189	9.6	6.7	8.1

The E.F.T.S. includes those from the faculty of Science, nearly all of whom are in the departments of Biochemistry, Physiology and Microbiology. Of the 1,521 E.F.T.S., 548 are from the faculty of Science.

During the year Dr R. F. Mark accepted the chair of Behavioural Biology at the Australian National University. Dr J. Hansky was appointed to a readership in the department of Medicine.

#### *Curriculum*

The new first year with behavioural sciences offered has been introduced without difficulties. As anticipated in the 1973 report, all students who sat for the examinations chose behavioural sciences, biology and chemistry, with an optional fourth subject.

The principal change during the year was agreement to move the definitive examinations in pathology and microbiology to fourth year. This was done after a decision by

the faculty board towards the end of the year; and all enrolled in fourth year, offered the option, chose to sit in 1974. The sixth year students were obliged to take the examination in these subjects as will those in sixth year 1975, but thereafter the somewhat difficult transitional phase will be over. Teaching in these subjects will of course continue in fifth and sixth years but shifting the examination to fourth year will, in the opinion of the great majority of staff and students, provide a better setting for concentration on clinical subjects in the final year.

The faculty is unrepentant in its course of six years, although two Australian medical schools have now instituted a five year course. The introduction of aspects of community medicine over each of the six years of the course, the first medical school in Australia to do so, in the opinion of the faculty, requires no less sound understanding of the basic biological and psychosocial sciences which many believe cannot be achieved with a five year course.

The Federal Government announced its intention of providing earmarked grants for chairs of community practice. The University, on the advice of the faculty board, applied for the grant to establish a chair within the department of Social and Preventive Medicine. The chair has now been advertised. This will provide further opportunities to deploy more of our teaching and research in this vital area outside the teaching hospitals.

One hundred and twenty-three sixth year students of the 152 in the year sat for the examination of the Education Council for Foreign Medical Graduates. This examination globally conducted annually by the United States is held to establish the credentials for those who may seek registration as interns and residents in the States. There were 183 medical schools with 25 or more candidates, which provided in all 18,632 candidates. Over 30,000 sit the examination, of whom 40 per cent pass. The results may be tabulated as follows:

*Monash*—123 sat; average score 477; range 280–735; pass 122 (99.2%).

*Schools with 25 or more candidates*—18,632 sat; average score 264; range 230–735; pass 7,230 (38.7%).

One Monash student attained 735 score, thus sharing with an unknown number of candidates the highest mark.

The incomplete data provided show that the average score by Monash candidates was in the top six schools and probably in the top three or four of those tested.

#### *Faculty Government*

A review was conducted by the faculty board at its meeting in November 1974 of the functioning of the new faculty board which includes twenty-six students. It was agreed to recommend a continuance of the present structure for another year when, at the request of Council, the faculty will again review and report to Council, on the future structure of the board. Generally the new board has led to heightened interest by staff, as well as students, in faculty affairs. Some misgivings have been expressed about what many regard as an undue proportion of students, who tend to vote on all important issues as a bloc.

The new education committee has also continued to meet and will report on its recommendations to the faculty board in 1975. Six working parties were formed and an all day meeting in December was effective and productive towards a consensus in a very difficult and controversial area.

#### *Accommodation and Clinical Resources*

Further moves for extending the range of our affiliations and associations have led to plans, in varying stages of completion, which will provide for a formal affiliation with Southern Memorial Hospital and associations of one kind or another with the Cancer Institute, Dandenong Hospital, Fawkner Park Community Health Centre and the Trade Union Clinic and Research Center (Footscray).

A joint policy committee and a Clayton planning committee, with their terms of reference, were established jointly by Queen Victoria Hospital, McCulloch House and the University, to proceed with planning for the rebuilt Queen Victoria Hospital of 500-600 beds in Clayton, one kilometre from the campus.

Planning for capital requests in the 1976-78 triennium actively proceeded during the year having in mind accommodation, campus and downtown, to make up for shortfalls and for the additional 25 per cent intake in 1978 (second year) resulting from the Karmel Report, 1973.

## FACULTY OF SCIENCE

*Dean: Professor K. C. Westfold, B.Sc., M.A. (Melb.), D.Phil. (Oxon.)*

### *Staff*

Professor R. Street resigned his appointment as chairman of the department of Physics to become director of the school of Physical Sciences, Australian National University, and Dr D. W. Williams, reader in Zoology, accepted appointment as professor of Zoology in the University of Adelaide.

### *Curriculum*

The faculty board approved the introduction of two new courses, both to be offered in the science course for the first time in 1975; Astronomy 205, being jointly offered by the departments of Chemistry, Mathematics, and Physics, and coordinated by Professor K. C. Westfold; and Atmospheric Sciences 205, being offered from within the department of Mathematics by staff in the field of geophysical fluid dynamics.

The increased student demand for the subject Biology 101, jointly offered by the departments of Botany, Genetics, and Zoology, has so extended the available laboratory facilities that practical work has had to be reduced to three hours each fortnight in place of three hours each week.

In the subject Information Science 205 practical sessions, using the educational computer system (E.C.S.) offered by the computer centre, have been introduced most successfully, but at the price of a heavy demand on staff participation in the practical sessions. The acquisition of a further set of E.C.S. equipment by the department is looked forward to, and should allow weekly instead of fortnightly practical sessions.

The department of Chemistry introduced a course, Chemistry 181, designed specifically for medical students. It has also provided laboratory facilities solely for the use of students enrolled for the Master of Environmental Science degree and these have been the centre of vigorous activity.

### *Graduate Study and Research*

There were twenty-nine degrees of Doctor of Philosophy and sixteen degrees of Master of Science awarded in the faculty during the year.

The research activity of staff within all departments of the faculty has continued at its normal high level, and attracted continued and substantial financial support from the Australian Research Grants Committee, as well as from many other granting bodies whose acts of generosity have already been formally acknowledged.

### *Professional and Public Service*

Many members of the faculty serve in the various professional societies and other bodies appropriate to their specialty, as well as many educational committees associated with the Victorian Universities and Schools Examinations Board and the Victoria Institute of Colleges.

The department of Mathematics staged the fourteenth Summer Research Institute of the Australian Mathematical Society dealing with the topics of mathematical logic and

recursive model theory. This meeting was attended by leading mathematicians from many countries throughout the world.

#### *Accommodation*

Building extensions to provide space for Botany, Psychology, and Genetics were nearing completion at the end of the year and have been partially occupied. Further extensions of the science north building, to provide space for Mathematics, Earth Sciences and general teaching areas, scheduled for occupation by the end of the year, were not completed on time. Lack of access to these teaching areas in the early months of 1975 will undoubtedly cause severe difficulties, while the department of Earth Sciences will be compelled to continue for some months in temporary quarters that it has now outgrown.

The increased interest in studies in astronomy will occasion an increased use of the Jeffree Telescope Observatory at Mt Burnett, so that the provision of overnight accommodation and display facilities for visitors has become more urgent—a grant of \$10,000 for the cost of construction has quickly lost much of its effectiveness owing to spiralling cost estimates.

#### LIBRARY

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

The report for 1973 told of an extremely busy year, in terms both of the acquisition of new material and of its use, and predicted that this activity would continue in 1974. The expectation was fulfilled.

In terms of intake, almost 67,000 volumes were received—about 10 per cent more than in the previous year. In part this was a result of money made available by the Universities Commission to provide the base material Monash was too young to have acquired. This intake figure is actually an understatement because much of the material is available now only in microform, and even an approximation of the volume equivalent of the microforms received during the year will have to await full cataloguing. The number will be many thousands. Total stock, even without them is approaching 700,000. About 12,000 periodical titles are under current subscription.

One effect of broadening the base of the collection can be seen in its increased use by and value to other parts of the community: interlibrary loans rose during the year by over 25 per cent, to 16,416, while borrowings remained stable at 6,500. Overall loan figures can be misleading, but it is significant that, in spite of deliberate restriction of loans in some areas to provide more assured access, loans generally were again higher by 6.6 per cent; their total number including reserved book issues was about 505,000.

Another inevitable result of the increased book intake was, of course, greater pressure on space. The main library book stack was over-full at the beginning of the year. The planned vertical extension could not be begun until after mid-year, by which time complete chaos was being averted only by the ingenuity of the staff and the patience of them and the readers. The clearance of areas required by the builders and therefore the temporary re-location of parts of the collection, frequent minor floodings and the noise and vibration inevitably associated with such an extension fully extended that patience.

Various proposals for easing the pressure on the biomedical library were discussed during the year and one was adopted which provided more adequate staff working space by relocating a bag room. In view of the uncertainty surrounding the proposed hospital (and then of the relationship between the University and the relocated Queen Victoria Hospital) and the attitude of the Universities Commission to the whole medical school development, the building of a bag room seemed an expensive, short-term solution to a small part of a very large long-term problem. The library is now a

more efficient and pleasant place to work, and to work in, but its approaches are both unsightly and dangerous from a carpet of bags.

In all the libraries the programme of reader education was extended during the year, and closer integration established with the teaching courses. To this end, the help and advice of HEARU were of great value, both in themselves and in their promise of further co-operation as the techniques of tertiary education continue to develop. The rapidly growing library collection of non-book materials can be viewed as a matter of embarrassment or pride; the latter only if they are used as part of the learning process.

Two significant appointments were made during the year. Mr P. J. Mitchell was created technical services librarian, as a step in the integration of the processing departments. Mrs V. J. Richards was appointed to a position of training co-ordinator, with the hope that new staff members would be more quickly of value and at ease in the library, and that the potential of others would be more fully realized.

The law librarian, Mr E. J. Glasson, was enabled by a grant from the Victoria Law Foundation, to represent Australia at a board of directors meeting of the International Association of Law Libraries, to attend their short courses, and to visit a variety of law libraries in England and North America.

This was only the latest example of the Foundation's generosity. For example, a very comprehensive collection in the field of criminology is being assembled from Foundation funds. The parents' association too, was again most generous, and the support received from graduates, friends and the general public for the library appeal will be quite essential in what promises to be a most difficult year ahead.

Computer developments were limited to the rounding-out of the acquisitions programmes, general maintenance of the existing wide range of operations, and the phased transfer of these to the newer equipment which became available during the year.

The revaluations of the Australian dollar in 1973 were effective in insulating us from the rapidly rising costs of books and, especially, periodicals. In 1974 this rise was accentuated and devaluation left an unexpectedly high commitment to be met from a proposed lower budget. After a year of expansion in 1974, in terms of both the collection and of services offered, it would be reasonable to look forward to a year of consolidation: it appears rather that it will be one of reduced service in the face of raised expectations and legitimate demand.

## 7. UNIVERSITY FACILITIES

### *Alexander Theatre*

In 1974 the Alexander Theatre Committee implemented the plan worked out in the previous year for the formation of a professional company. This was made the responsibility of the Alexander Theatre Guild under the chairmanship of Dr Logan Francey, director of the theatre. Mr Don Mackay was appointed executive officer to the guild and his company, previously known as the Players' Caravan, became the nucleus of the new professional company, with Mr Mackay himself as the artistic director.

The company, which was given the name of the Alexander Theatre Company, provided two seasons of plays for adult audiences. The first consisted of three productions: *Puckoon* by Spike Milligan, adapted for the stage by Don Mackay, *Under Milk Wood* by Dylan Thomas, and *The Signalman's Apprentice* by Brian Phelan. The first two were highly successful and ran for extended seasons. *Puckoon* was enjoyed by a wide variety of audiences; *Under Milk Wood* was a production of very high quality but owed a fair measure of its success to the fact that it was a higher school certificate

syllabus play. After these initial successes, the support for *The Signalman's Apprentice* as well as for the two plays of the second term, *The Daughter-in-Law* by D. H. Lawrence, and *The Wonderful Ice Cream Suit* by Ray Bradbury, was disappointing. Of these, *The Daughter-in-Law*, both as a play and as a production, was regarded by many as an artistic success, but its value was recognized by only one of the critics late in the run.

Apart from these two seasons, there was the usual pantomime in January and several other dramatic performances and films for children were arranged by the Saturday Club.

The activity of the Alexander Theatre Company has reduced the availability of the theatre for hiring by outside groups. There were, however, two productions by the Monash Players, *Fortune and Men's Eyes* and the *Bacchae* of Euripides. The *Bacchae* was an impressive production, but neither production attracted strong support within the University.

The Alexander Theatre Company received some financial support from both the Victorian Ministry for the Arts and the Australian Council for the Arts, and further support has been promised for 1975 by both bodies. The committee, encouraged by the quality of the company's productions, is planning two further seasons in 1975.

However, the maintenance of a professional company places a great strain not only on the finances of the theatre, which has little or no capital to work on, but also on its staff and physical resources. In October, Dr Francey was forced by ill-health to resign the directorship and Dr John Rickard took his place for the remainder of the year. In the meantime, the Alexander Theatre Guild has been dissolved and the Alexander Theatre Company is now under a management committee directly responsible to the Alexander Theatre Committee.

Some additional office space has been created by minor structural alterations, but a great deal more space is needed if a professional company is to be retained. Some preliminary planning has already been done, but it is difficult at present to see how the finance can be raised.

In the meantime, the lessons learnt from the 1974 seasons are being applied. More care is being taken with the choice of plays for 1975. It is obvious that continual attention must be given to advertising and promotion. Most of the support received in 1974 was from the public of the surrounding areas. While it has been one of our specific aims to help make Monash a cultural centre for southeastern Melbourne, we still have a great deal of ground to make up in gaining support from within the University.

#### *Robert Blackwood Hall*

The Management Committee of Robert Blackwood Hall, in collaboration with the Alexander Theatre Committee, actively continued its programme for developing Monash as a cultural centre to serve the southeastern region of the metropolitan area. This is a populous and rapidly growing part of Melbourne, with 1½ million people living within sixteen kilometres of Monash and an increase of about 75,000 per year.

In 1974 the number of activities (260) and days of use (232) represented an increase of over 25 per cent usage when compared with 1973 figures. Perhaps just as telling is the variety of activity accommodated, ranging from industrial conventions, religious meetings and forums to concerts of both classical and popular music. In line with its policy of providing an opportunity for Australian artists to perform and be heard in superb conditions at reasonable prices, the management committee sponsored twenty-three free lunch-time concerts, three evening concerts, and six Sunday afternoon concerts. In addition, it collaborated with others in jointly sponsoring six concerts.

Highlights of the cultural programme were a concert by the Collegium Musicum of Zurich, with Heinz Holliger as soloist, and the programme of youth music spread throughout the year. This included hosting the Australian Youth Orchestra for a week in preparation for their tour in three states, with the orchestra providing university,

public and school concerts while they were here. In addition, the management committee sponsored four schools concerts and the A.B.C. two. The Monash Music department staged four Indonesian music and dance concerts for school children. Two concerts of the Melbourne Youth Orchestra Festival were held in Robert Blackwood Hall as were the final concerts of the Victorian Junior Symphony Orchestra and May Music Camp. The hall was also chosen for concerts by a number of local schools and choirs, and by the visiting group from the Adi Cakobau School in Fiji. Total attendance at the schools concerts was 14,581. Once again the state final of the A.B.C. Instrumental and Vocal Competition was held in Robert Blackwood Hall and the management committee provided an opportunity for commonwealth winners to perform in Melbourne by an engagement in the Sunday afternoon series. In addition, the free Sunday afternoon concerts, sponsored by the Robert Blackwood Hall Management Committee, continued to attract family groups, hopefully building up an appreciation for fine music in the younger generation.

The cultural programme, while continuing to attract a modest grant from the Australian Council for the Arts, was mainly financed by the earnings of the hall from outside hirers, this representing some 24 per cent of all bookings. With the growing use of the hall for University purposes, we may well be approaching the limit to this type of activity.

There were major advances in the equipment of the hall during the year which both improved its usefulness for University purposes and also made it more attractive for outside hirers. The manager's office and box office complex was completed and has turned out to be a most useful addition. A new sound system was installed which gives high fidelity reproduction in the auditorium and also allows persons on the stage to hear speakers clearly; this had been a problem in the past at graduation ceremonies and the like. The sound system has also been extended to the foyer so that overflow audiences can be catered for. A new dimmer control board has been installed with capacity for all foreseeable types of stage production and a limited number of flood lights and spots installed to provide for most presentations.

Early in the year a proposal that an organ be installed in Robert Blackwood Hall to mark the work of the Vice-Chancellor, Dr J. A. L. Matheson, was approved by Council and proposals were invited from leading Australian and overseas organ builders. At the close of the year negotiations had reached an advanced stage with Herr Jürgen Ahrend, organ builder of West Germany, with the prospect of the instrument being installed in 1978.

#### *Computer Centre*

Once again the computer centre had a year of significant change and expansion. With the arrival of the extra hardware for the B6700 computer purchased late in 1974, the computing power available to users took an appreciable leap. By the end of the year an important part of the University work had been transferred from the CDC3200 and the B5500 to the new system. This paved the way for the transfer of the second B5500 to the Victorian Hospitals Computing Service (V.H.C.S.) to meet its increasing demands.

In spite of a considerable delay in the delivery of the extra hardware, the centre was able to meet (albeit with some difficulty) the increased demand and provide a reasonable turnaround even at peak loads. The main factor contributing to the greater demand was the increase in the number of users submitting jobs from terminals.

The locally designed and developed educational computing system (E.C.S.) has proved to be an indispensable tool for the teaching of computer programming. Two E.C.S.'s (each involving hardware priced at approximately 2 per cent of that of the B6700) coped satisfactorily with the computing requirement of all the University's undergraduate programming courses (some 1,200 students running approximately 175,000 jobs). This meant that the large systems were used for larger jobs that really required the greater computing power.



A total computing budget of \$494,000 (non-discretionary funds) was distributed to departments at the beginning of 1974 to purchase computer requirements from the computer centre. Charging rates were:

Control Data 3200	\$40 per chargeable hour
Burroughs B5500	\$40 per chargeable hour
Burroughs B6700	\$100 per chargeable hour

The \$494,000 was divided into 13,572 computing units which were allocated to departments (1 B6700 hour = 3 CDC3200 hours = 3 B5500 hours = 3 computing units).

As the year progressed it became evident that the increase in demand because of the increased availability of computing power and reduced turnaround, had been underestimated. To meet the increased demand the allocation to a number of departments was increased bringing the final total budget allocation to departments to \$571,026.

By the end of the year 15,511 computing units were provided to the departments and the budget recovered was \$542,932 which was approximately the University budget allocated to the centre, less an allowance for teaching (\$519, 823). Consequently the charges made to departments reflect reasonably accurately the operating but not capital cost of the centre. The 15,511 units represent a 50 per cent increase over the 10,380 computing units provided in 1973.

The total hours of computer operation rose slightly in 1974 to 20,098 compared with 19,106 in 1973. The significant increase in computing units provided in spite of this marginal difference in operating hours can be attributed to the extra power derived from upgrading of the B6700. Of the time provided, the University used 10,219 hours for internal purposes and 1,294 for revenue earning processing, the Victorian Hospital Computing Services used 6,600 hours and the remainder was used for maintenance.

The E.C.S. completely replaced MIDITRAN for undergraduate course work. MINITRAN continued to be run for schools but there was a decline from 63,000 jobs processed in 1973 to 34,000 in 1974.

The emphasis in 1974 was in the transfer of all University work to the B6700, which has been more than capable of handling the load plus the increase resulting from the better turnaround offered. A slight deterioration of the service is expected however during 1975 as a result of staff budget restrictions imposed by the difficult financial situation the University is experiencing.

Total expenditure for the year, including contract work but excluding the V.H.C.S., amounted to \$840,686 of which \$519,823 came from University recurrent funds and \$321,403 from revenue earning activities. Revenue earning work accounted for 11 per cent of the 11,513 hours of computer time used by the University.

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

The two major changes planned in 1973, namely the administrative and physical separation from the faculty of Education and the amalgamation of the audio-visual aids section within the unit were carried out. With the amalgamation, the unit now has a staff of twenty-four people plus one position for an academic secondment from any other department.

Reports on student work load studies were conducted and compiled in the following areas: Master of Environmental Science, law and science. The Chemistry department involved the unit in a course design investigation and other course evaluations were undertaken in law and in a new course entitled "Black Australian Studies". In-service courses for Monash staff members were developed both in number and breadth of topics covered. Staff from forty departments and four libraries participated in the programmes. The consultative service for individual staff has also developed this year due to the contacts made through workshops and to an increased awareness of the functions of the unit. The continuing study of the sociological characteristics of the entering students has provided an opportunity for a comparison of the student populations of Monash and the University of Melbourne (Smurthwaite, A., "Entrants to

Monash University and the University of Melbourne", *The Australian University*, 1974, vol. 12, no. 2, 165-96). The data which have been collected since 1969 have also provided base-line information for a national study of changes in student population due to the changed fee structure. Apart from the article mentioned above, papers have been prepared on selection, assessment and the history of the unit from 1964 to 1974.

Staff of the unit are responsible for the organization and teaching of half of the diploma course offered by the faculty of Education, HEARU is involved in the selection of students for special admission to the University under the "early leavers" scheme and the director and staff supervise one Ph.D. and five M.Ed. students.

In addition to these activities within the University, members of the unit presented a three-day seminar on tertiary teaching techniques at the University of Technology, Lae, Papua New Guinea in February. Later in the year seminars on the use of media were given for the Melbourne Medical Postgraduate Committee and the Nurse Educators' Conference. Teaching seminars were presented at the Australian University Law Staffs Association Conference and at the William Angliss School of Catering. Staff participated in five conferences and visited three units at other institutions. The Director, Dr T. Hore, visited the United Kingdom during November to study staff development projects and audio-visual aids sections.

#### *Audio-Visual Aids Section*

The types of service provided to departments of the University appear to have settled to a pattern following many years of development. However, the rapidly expanding field of educational technology continues to make new and more sophisticated equipment available for academic use.

In the field of television the section can produce videotape material made with the simplest of low cost equipment through various intermediate standards of performance to high quality videotape made with recorders which have the most flexible of electronic editing facilities.

The videotape programme "Introduction to Theatre" produced in collaboration with the department of Surgery, Alfred Hospital, received the highest award for an educational television programme from the Television Society of Australia in its Australia-wide competition.

The video cassette student retrieval system in the biomedical library has proved successful. Wholly student operated, it has functioned without the involvement of technical staff from the audio-visual aids section. Originally installed in an outer foyer area of the library, it appears that, as a result of the experience now gained, the units can safely be installed in the study area. This year there were thirty-five cassettes held in the library.

The next library installation of this type will be in the Hargrave Library where videotaped materials used in the Mechanics and Structures course will be made available.

When student laboratories for the department of Physiology had not been completed for the first semester, it was necessary to make alternative arrangements for some of the practical classes. A greater number of smaller classes were introduced and televised introductions to the various class exercises were recorded on videotape. In addition, the videotaped programmes were copied to video cassettes and made available to students through the biomedical library. Future plans include the development of the procedure to the point where the video cassettes will be available for viewing in the new laboratories as required by the students.

Audio cassette recording of certain lectures continued at a level slightly greater than 1973. High speed audio cassette duplication was introduced during the year and the service is available to any department. In addition to the high speed duplication of cassettes, it is also possible to duplicate at high speed to cassettes from open reel audio tape with two or four tracks either in stereo or mono.

Sound motion picture films have been produced for the faculties of Education, Engineering and Law. Portions of the main library film made some two years ago have been remade and include changes in the library which have occurred in that time. In addition to films specifically made for projection, others have been made for inclusion in television programmes.

Service to the Alexander Theatre and Robert Blackwood Hall included further developments to the Alexander Theatre sound system and the continued maintenance and operation of the motion picture projection equipment. The installation of the high quality sound system within the Robert Blackwood Hall was completed during the year as was the subsidiary system in the foyer area.

The preparation of television cable and termination specifications was undertaken for the Krongold Child Study Centre, and the extensions to the Menzies, education and science north buildings. Where applicable integrated sound facilities for film, television, speech reinforcement and tape recorders were included, as well as intercommunication requirements.

Investigation into a large capacity inter-communication system to replace the present restricted system in the administrative offices is under way. Other simpler systems have been recommended to the faculty of Law, the health service and central store.

The general maintenance service to departmentally owned equipment has increased during the year. Film and slide projectors, television cameras and videotape recorders, as well as audio tape recorders, record players and associated equipment have all received attention. The section, subsequent to the specification and installation of the John Medley Library listening system has been involved in its maintenance and subsequent minor modifications.

Projection facilities (including projectionist), film booking, portable speech reinforcement and audio recording systems, and audio-visual services for lecture theatres, including the rotunda, have been provided as required. The level of activity continued at that of the previous two years, with all the services available being used and new departments being served.

As anticipated, outside earnings have diminished to a small fraction of their previous level. These funds, previously used to provide replacement equipment and special facilities, are therefore no longer available at a level to provide any further significant assistance in these areas.

### *Bookshop*

Mr B. G. Demnar was appointed as the new bookshop manager during the year and took up his duties on 29 July 1974. Prior to his appointment, Mr Demnar was assistant general manager of Queensland Book Depot. Since his appointment he has introduced tighter controls in relation to credit, bad debts and ageing stock.

The bookshop had an excellent turnover during 1974 with sales in excess of \$940,000. Although gross profit increased in absolute terms, it declined slightly as a percentage of turnover. Net profit was cut drastically. As predicted in the 1973 report, this was due largely to the continued acceleration of relevant salary scales. It was also due in part to a more rigid approach to the depreciation of old and slow moving stock. Despite the drop in profitability, the balance of the advance made available by the University was repaid during the year.

During 1975 the bookshop will continue to face increasing problems from the effects of inflation not only on salary scales but also on the replacement cost of stock sold. For the moment, a tightening up of credit policies and a more rigorous approach to slow paying debtors during 1974 has tended to overcome some of the immediate problems of liquidity.

The increase in turnover during 1974 and projected into 1975 is straining the present

physical resources of the bookshop and the board sees as its major task for 1975 the obtaining of additional stock storage space on campus.

### *Careers and Appointments*

Many of the employment trends discerned in previous years were confirmed during 1974. The aims of the careers and appointments office and the nature of some of its methods have been changing to meet the new situation.

The employment situation deteriorated during 1974 and the prospects for 1975 are not encouraging. Though it may be true that short-term economic difficulties are affecting the situation, we believe there are much more serious factors which suggest that the employment pattern for graduates established in recent years cannot continue into the future.

In brief, the facts are as follows. The annual output of first-degree graduates from Australian universities has increased more than four-fold since Monash opened in 1961. In the last three or four years, teaching, always the most important employment outlet for arts graduates, has become this also for science and economics graduates, and is assuming importance for engineering graduates. Fortunately there has been a backlog of demand for teachers sufficient to absorb the greatly increased numbers offering. But this situation is changing and there seems no possibility that the education system can continue to provide "last resort" employment as it has done in the past.

The findings of the forthcoming report of the National Population Inquiry headed by Professor W. D. Borrie will, of course, be crucial. But there seems no doubt whatever that during the next quarter-century there will be a shift in the age distribution of the Australian population of a magnitude sufficient to reduce substantially the pressure on educational facilities. Indeed, it may well be that the present output of teachers is in excess of the need for teachers five years hence, certainly at primary level and probably also in the secondary schools. The teaching service cannot be expected to continue absorbing large numbers of arts, science and economics graduates, and we can see no other outlet for them potentially sufficient to avoid an employment crisis.

One of the consequences of this situation is that there may be a drop in the demand for tertiary education earlier than would otherwise have been brought about by the changing age structure of the population. This will have serious implications for the employment of higher-degree graduates, a category which is already in difficulties.

The work of the careers and appointments office during 1974 has been largely directed towards this problem. The adviser to prospective students has had a demanding year, and it has been necessary for other members of staff to assist him with visits to schools and interviews with students and their parents. The study of career guidance facilities in the schools, reported last year, seems to have led to an increase in the efforts of teachers to develop self-help in this important work. A significant development was the co-operation and active support elicited from the first three regional directors appointed by the Victorian Education Department in Ballarat, Bendigo and Gippsland. In each of these regions, a series of conferences and training seminars has led to the formation of regional committees of teachers in charge of career education. It is hoped to extend this development in 1975 to the new regions which have been established by the Department.

In the course of a private trip to Britain in June, the adviser to prospective students visited schools and universities and talked with teachers, careers counsellors, administrators and youth officers engaged in career guidance work. He attended a one-week seminar of careers teachers conducted by the Inner London Education Authority. On his return he assisted with a similar, three-day, residential seminar at Monash which was attended by about seventy teachers. This was organized by the Centre for Continuing Education, and had the effect of further involving the Victorian Education Department in the development of career education.

The research programme has become increasingly directed towards the collection of information on trends in the availability and interests of potential students and on the subsequent development of their educational careers. An analysis of the changing pattern of subject choice at H.S.C. has provided the starting point for a study of developments in science manpower. Work is continuing on this project in conjunction with the faculty of Science, the computer centre, two other universities and various federal and state instrumentalities.

The careers and appointments office has continued to do what it can to encourage employers to use graduates more widely and to train them adequately. Whilst this work cannot be seen as offering a solution to the employment problem mentioned earlier, it is still important and seems to be appreciated.

The work is greatly facilitated by having close co-operation from many members of the academic staff. It is important for academic staff members to be aware of the actual prospects facing their students so that they can help in the establishment of realistic expectations. Their interest and responsibility in this respect has been most gratifying.

### *Health Service*

For the first time since the founding of the health service, there was not an increase in annual attendance rates; in fact there was a drop of approximately 400. Three factors probably contributed to this:

1. The reduction in the number of visitors attending the health service since the students at Rusden College were denied its use.
2. There were no comparable epidemics to the influenza-type illnesses in March and October, 1973.
3. The absence for some weeks of one of the medical staff (Dr C. E. Sawrey) due to ill health. This showed how close to saturation point the health service is working for at least nine months of the year—a feature which has been mentioned previously in Reports of the Council.

During 1974, the other significant event in the health service was the retirement of Dr C. E. Sawrey as director of the service because of ill health. Since Dr Sawrey commenced as director in 1965, the health service has increased its role from seeing approximately one quarter of all students at that time to seeing almost one half by 1973. The annual attendance figures rose from 4,000 to 26,000 in the same period. This period of his directorship also saw the introduction of such features as the visiting psychiatrists, gynaecologists and part-time medical officers. The wisdom of these appointments has been proved by the invaluable support they have given, especially during certain periods of extreme pressure in 1974.

Fortunately for the health service and the University, Dr Sawrey will continue as a medical officer. As an interim measure, Dr J. S. Green was appointed acting director.

Statistics for 1974 were as follows (1973 in brackets).

Total attendance was 25,375 (25,787) visits by 7,686 (7,320) persons.

4,642 (4,231) visits were made by 1,712 (1,549) staff members.

19,800 (20,330) visits were made by 5,483 (5,183) students, i.e. 43 per cent of the 12,837 total enrolment.

913 (1,652) attendances were made by 491 (588) visitors.

### *Student Counselling*

Some 1,200 clients visited our service in 1974. This is about the same number as in 1973. Overall there appears to be no significant change in the range or severity of problems concerning students. The vast majority was concerned with various issues relating to the search for identity, self actualization, authenticity and personal meanings. However, we became increasingly concerned this year that the types of problems that students are presenting with in counselling are more and more related to

administrative procedures, namely selection, enrolment, "rehabilitation" of failed students and handbooks of increasing complexity.

During the year various group activities were offered and were well attended. These included study skills, relaxation, effective reading, personal and interpersonal awareness groups. In addition the counselling service ran a summer workshop in study skills under the auspices of the summer school. Counselling staff were also involved in training "hosts" for the "Contact" instigated host scheme for freshers. Two post-graduate social work students were posted to our unit for supervised training in professional issues. Counsellors were invited to give various "guest lectures". Eight such lectures were delivered to the faculty of Education and a variety of other talks was given to student bodies throughout the year. One of our counsellors carried out an evaluation of a commercial reading and study skills course offered to Monash students. Regular constant consultations with other services, academic, administrative and student bodies were maintained and fostered throughout the year.

Mr G. A. Cally was invited to run a professional workshop for nurse counsellors at the Royal Melbourne Hospital held during the third annual conference and also assisted in the training of postgraduate vocational counsellors and professional psychologists of the department of Labour and Industry in specialized areas of interviewing, counselling and group leadership skills.

To sum up, 1974 was a busy, involving and well-rounded year. There are strong indications that our skills and professional services are appreciated both within the University and in some small but significant way in the community at large.

#### *Student Residence*

The general accommodation situation has been increasingly difficult throughout 1974, as the availability of all types of housing has decreased and in no way has met the demand.

Despite exhaustive advertisements and appeals through the media at the beginning of the year, only fifty-six usable offers for private home accommodation of any type were received while fifty-nine previously used offers were not available for use this year. The greatest demand and the shortest supply is still in the University area.

The cost of renting flats and houses rose steeply and they too have been more difficult to obtain.

The number of students choosing independent group living was swollen by even more students leaving suburban homes and also by many who moved out of the halls of residence throughout the year. In many cases it was made possible for them to do so by the introduction of the means-tested Tertiary Allowance Scheme.

A total of 3,691 student inquiries were handled this year (3,353 in 1973). Of these, 1,247 were applying for housing (1,097 in 1973), while the rest were inquiries about all facets of accommodation and its allied problems, social, domestic and financial and were mainly by students living in flats or group houses.

The sixty-one students admitted to first year courses direct from George Taylor's College in Kuala Lumpur where they gained their Victorian H.S.C. created a special problem, as most arrived without prior notice and with little knowledge of the Australian cost of living or the limitations of available accommodation.

To endeavour to avert some of these problems in the future, an accommodation information brochure was produced by the housing officers of the three universities and is being distributed to this college and to other centres throughout Southeast Asia before the end of 1974.

Dr M. C. Knowles, the warden of Farrer Hall, has been the chairman of the Committee of Wardens for 1974.

There have been two new wardens of halls in 1974—Mr G. Robinson in Roberts Hall, and Dr P. Bridgewater in Richardson Hall.

The halls of residence began the 1974 academic year with thirty-five vacancies. The

vacancy figure steadily increased, reaching a high point of 134 in August. With a minimal increase in fees for 1975, it is expected that this trend will not continue.

The halls look forward to 1975 when two new alternative styles of accommodation will be offered: room only accommodation and accommodation without weekend meals. Together with the traditional sixteen meals a week accommodation, it is hoped that these new alternatives will add to the attractiveness of the halls as a home for students.

#### *Religious Centre*

The establishment of chaplains for 1974 included Father P. Knowles O.P., Father D. Willis O.P., Rev. Dr John Gaden, Mr Henry Shaw, Mr Howard Shub and Miss Denise Sullivan (pastoral assistant).

The pattern of weekly services continued as in previous years with the addition of daily matins conducted by Dr Gaden at 8.45 a.m. in the small chapel. Special services in 1974 included the commissioning of Dr Gaden by Archbishop Woods and Dr Fitzgerald, the Aquinas Day celebrations, A.M.A. congress workshop service, group bookings by local churches and two girl guide church parades. There were four baptisms, 195 weddings, one requiem mass and one memorial service.

Special programmes were organized for Orientation Week and Open Day. We made appointments of ushers for each wedding, Parent Orientation Day and the landladies' party. We continue to rely on the co-operation and enthusiasm of students both as ushers and as musicians.

Ten student societies retain weekly bookings in the religious centre and during second semester there was a marked increase in evening activities.

Visitors this year included Archbishop Little, Roman Catholic Archbishop of Melbourne who was entertained to lunch by the Newman Society in the narthex, Father Michael Bordeaux of the Centre for the Study of Religion and Communism, and three Tibetan lamas. The student welfare officer arranged a seminar on community services using the narthex.

The chapel singers provided three exciting programmes and there were two M.A.S. classical concerts, three student recitals and two choral society concerts. The clubs and societies poetry workshop and folk guitar classes take place in the narthex but the piano and singing lessons have been discontinued.

It has been a busy and rewarding year of visits from students and staff of this University, and many visits from clergy and interstate and overseas travellers to our offices in the Union building.

On his return from overseas Father Knowles was appointed acting master of Mannix College, but he continues to act as chaplain.

#### *Students' Loan Fund*

The number of loans approved by the Students' Loan Fund Committee in 1974 was lower than in 1973, a total of 80 approvals compared with 93 in the previous year. Applications totalled 86. There was, however, an increase of \$690 in the amount loaned—a total of \$44,506 being approved.

Following the introduction of the Australian Government Tertiary Allowances Scheme this year an increasing number of students left their family homes to live independently. A corresponding increased incidence of financial difficulties experienced by this category of student offset, to a considerable extent, any diminution of requests for loan fund assistance which may have been expected as a consequence of the scheme.

The committee continues to receive expressions of gratitude from students who have overcome their problems with the fund's assistance.

## 8. STUDENT ENROLMENT

The net total undergraduate population increased from 9,330 in the previous year to 9,729, an increase of 4.27 per cent. Graduate enrolments increased from 1,402 to 1,449 and total enrolment of all students from 12,147 to 12,837. Full details of enrolments are given in the table below.

Of the total of 12,837 students, 674 (5.2 per cent of the total) were from overseas, as follows: Bangladesh 2; Borneo 3; Brazil 1; Brunei 1; Burma 2; Cambodia 3; Canada 3; Fiji 9; Hong Kong 25; India 7; Indonesia 15; Iran 1; Jamaica 1; Japan 8; Kenya 1; Khmer 4; Laos 2; Malawi 1; Malaysia 468; Mauritius 1; New Zealand 4; Nigeria 1; Pakistan 1; Papua and New Guinea 4; Philippines 3; Rhodesia 1; Singapore 49; South Vietnam 29; Sri Lanka 4; Thailand 8; Tonga 3; Uganda 1; United Kingdom 4; United States of America 4. Total of 518 males, 156 females.

## NET ENROLMENTS 1974 (as at 30 April)

Faculty and Year	Full-time			Part-time			Total			
	M	F	T	M	F	T	M	F	T	
<b>HIGHER DEGREE</b>										
Higher Doctorate	1	—	1	—	—	—	1	—	1	
Ph.D.	323	75	398	68	11	79	391	86	477	
Master	195	69	264	556	151	707	751	220	971	
<b>TOTAL</b>	<b>519</b>	<b>144</b>	<b>663</b>	<b>624</b>	<b>162</b>	<b>786</b>	<b>1143</b>	<b>306</b>	<b>1449</b>	
<b>MASTER PRELIMINARY</b>										
	30	17	47	90	39	129	120	56	176	
<b>POSTGRADUATE DIPLOMA</b>										
Education	177	285	462	83	65	148	260	350	610	
Microbiology	3	—	3	—	—	—	3	—	3	
<b>TOTAL</b>	<b>180</b>	<b>285</b>	<b>465</b>	<b>83</b>	<b>65</b>	<b>148</b>	<b>263</b>	<b>350</b>	<b>613</b>	
<b>POSTGRADUATE BACHELOR DEGREE</b>										
Education B.Ed	21	8	29	334	202	536	355	210	565	
B.Sp.Ed.	15	12	27	—	—	—	15	12	27	
<b>TOTAL</b>	<b>36</b>	<b>20</b>	<b>56</b>	<b>334</b>	<b>202</b>	<b>536</b>	<b>370</b>	<b>222</b>	<b>592</b>	
<b>BACHELOR DEGREE</b>										
Arts	I	268	516	784	132	256	388	400	772	1172
	II	188	433	621	110	128	238	298	561	859
	III	211	479	690	87	121	208	298	600	898
	IV	67	68	135	6	2	8	73	70	143
<b>Sub-total</b>	<b>734</b>	<b>1496</b>	<b>2230</b>	<b>335</b>	<b>507</b>	<b>842</b>	<b>1069</b>	<b>2003</b>	<b>3072</b>	
Economics and Politics	I	348	152	500	102	18	120	450	170	620
	II	213	95	308	81	4	85	294	99	393
	III	212	83	295	115	16	131	327	99	426
	IV	25	6	31	1	1	2	26	7	33
<b>Sub-total</b>	<b>798</b>	<b>336</b>	<b>1134</b>	<b>299</b>	<b>39</b>	<b>338</b>	<b>1097</b>	<b>375</b>	<b>1472</b>	
Engineering	I	333	12	345	—	—	—	333	12	345
	II	262	14	276	—	—	—	262	14	276
	III	272	5	277	—	—	—	272	5	277
	IV	207	3	210	4	—	4	211	3	214
<b>Sub-total</b>	<b>1074</b>	<b>34</b>	<b>1108</b>	<b>4</b>	<b>—</b>	<b>4</b>	<b>1078</b>	<b>34</b>	<b>1112</b>	

(Continued overleaf)



## 8. STUDENT ENROLMENT

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## NET ENROLMENTS 1974 (as at 30 April)

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Ph.D.	323	75	398	68	11	79	391	86	477	
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Education	177	285	462	83	65	148	260	350	610	
Microbiology	3	—	3	—	—	—	3	—	3	
<b>TOTAL</b>	<b>180</b>	<b>285</b>	<b>465</b>	<b>83</b>	<b>65</b>	<b>148</b>	<b>263</b>	<b>350</b>	<b>613</b>	
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Engineering	I	333	12	345	—	—	—	333	12	345
	II	262	14	276	—	—	—	262	14	276
	III	272	5	277	—	—	—	272	5	277
	IV	207	3	210	4	—	4	211	3	214
<b>Sub-total</b>	<b>1074</b>	<b>34</b>	<b>1108</b>	<b>4</b>	<b>—</b>	<b>4</b>	<b>1078</b>	<b>34</b>	<b>1112</b>	

(Continued overleaf)

## 9. ORIENTATION 1974

A joint committee of seven students and seven staff organized the orientation of first year students. The chairman was Professor W. A. Rachinger, the convener Miss Caroline Piesse and the secretary Miss Margaret Clark.

The official orientation programme was restricted to three days: Tuesday 5, Wednesday 6 and Thursday 7 March. During this time a wide variety of functions was organized by clubs and societies, sports and recreation association, Monash Association of Students, departments and faculties. These were designed to introduce the fresher to all aspects of university life. One new innovation, organized by the Students Welfare Action Board, was the formation of host groups. Each host student was responsible for meeting and introducing to the university a group of approximately twelve freshers.

As in the past years, a contraception forum was held. This was most successful, being attended by 650 students and lasting for 2½ hours, much of this time given over to question and answer discussion.

The traditional orientation handbook was replaced this year by an orientation kit consisting of a manual with its theme of "Monash is what you make it", a poster depicting various aspects of Monash life, a recording of interviews of Union personalities commenting on student loneliness, together with the *Living with Sex* booklet.

The funding was on an equal basis between the University and the Union Board.

## 10. STUDENT ACTIVITIES

### *The Union—Administration and General*

In 1974 the Union fee for full-time students was increased by \$13.50 to \$72 per annum to meet increases in salary and overhead costs and to enable a number of activities introduced in 1973 to continue. Even so, budgets in all Union departments were severely restricted. The Union Board has recognized that the levelling off of the annual student intake will have a major effect on Union financing policies and on the building construction programme. As a preliminary, the board aimed in 1974 for a higher level of income from commercial and recreational services.

On the building scene, construction of the stage 3 extension on the south face of the main building commenced in November, after a series of delays due to financing and permit problems. A report on the new recreation centre is included under *Sports and Recreation Association*.

In September, the Union farewelled Mr Fred Schellenberger who resigned from the position of catering manager after ten years of outstanding service to the University. He was succeeded by Mr Charles Svec who has enthusiastically taken up the challenge of operating the catering services on a break-even basis. This year, the inevitable selling price increases resulted in a noticeable degree of customer resistance and failed to avert a deficit in the student catering operation. The catering committee reviewed the situation thoroughly in December with the result that in 1975 more emphasis will be placed on encouraging custom by upgrading the service and by advertising, and costing procedures are to be streamlined. It is hoped that the blast freezing unit now in operation in the Hargrave building will relieve some of the pressures placed on the catering department. This is being used mainly in the preparation of wet entrees. The major student catering service in the main dining room was converted to a "scramble" system which has effectively reduced queues in that area. The function catering service returned a surplus, despite a decline in the numbers attending annual functions.

Additions to Union facilities included a Toyota van, air-conditioning of the John Medley Library and the replacement of roller towels in toilet areas with electric hand-driers.

The tight budget placed some restrictions on student activities this year. Apart from

those reported below by the major Union groups, the following activities were given prominence:

A coastal environmental study to be conducted by members of CRAC (Community Research Action Centre) during the 1974-75 summer vacation. This was underwritten by the Union Board pending the result of an application for government finance. During the previous summer, a member group of the CRAC organization, PIRG (Public Interest Research Group) was responsible for a productive environmental survey of the Dandenong Ranges.

The operation of the Pantry, the natural food shop, with some emphasis on bulk-buying by customers at minimum prices. This venture has afforded student members of the supervisory committee the opportunity to gain some practical experience in business procedures.

Business under discussion by the Union Board at the end of the year included government legislation regarding liquor licences for Victorian universities, a report on part-time students at Monash University, a report on the theft situation in the Union, means of improving communications within the Union membership and the perennial accommodation problem. The Union is currently seeking temporary accommodation for some of its services in other University buildings to relieve the immediate accommodation pressures.

#### *Monash Association of Students*

There were no major structural changes in M.A.S. during 1974. The election for administrative executive was moved to the end of the year instead of the beginning so as to give the new A.E. a smooth run for the next year.

The Middle East debate was argued strongly and heatedly on the campus and at student general meetings. At the student general meetings, the A.U.S. pro-Palestine anti-Israel motions were clearly lost.

M.A.S. maintained its links with A.U.S. especially through travel, friendly societies and health. It will soon adopt the new A.U.S. general insurance scheme. Many students travelled overseas with A.U.S. and many received the benefits of the friendly society, etc.

The largest single issue in 1974 was assessment and education. Many student general meetings were held, some with over 2,000 students in attendance. Student involvement and action reached unprecedented levels by the end of the campaign.

M.A.S. is a rather unique body in the way that it organizes student affairs. It requires considerable participation in various areas of student interests. Without that participation it becomes more like the old type of S.R.C. With student activity increasing, the coming year promises to ensure a very active and involved M.A.S.

#### *Monash Research Students' Association*

During 1974, the association continued its activities on behalf of research students at Monash, representing their interests on many of the University's policy-making bodies. During the year, the association discussed stipends and conditions of Commonwealth Postgraduate Awards with officers of the Department of Education, and assisted in the preparation of a submission on scholarships to the Australian Government.

Other services provided for postgraduates during the year included the thesis typing service, which has been most successful, and the publication of the 1975 edition of *Compass* (an information booklet on postgraduate study at Monash). The association's newsletter, the *Monash Researcher Bulletin*, appeared at intervals, and was distributed widely among members.

#### *Clubs and Societies, Tuition and Summer Activities*

At the end of 1974, 114 cultural clubs were affiliated with the clubs and societies council. New clubs registered during the year were: Australian Labor Party Supporters,

Australia Party Club, Bee Keepers Society, Chabad Student Movement, Civil Undergraduates Society, Go Club, Heraldry, I.A.E.S.T.E., Latterday Saints, Master of Environmental Science, Ornithology, Organic Gardening, Roberts Hall, Turf Club, Vegetarian Society, Zero Population Growth.

Clubs continued to play an increasingly important role in the range of activities and opportunities for involvement and learning, available in the Union. The Monash Film Group, for instance, screened over 210 films during the year, and had a membership of 2,500. Many clubs conducted courses open to all Union members, e.g. ballroom dancing, modern dance, folk guitar and yoga, and a new class in Chinese painting was offered by members of the Chong Hua Society. The environmental groups were again very active in work on campus and in the community.

The clubs and societies executive had its first woman chairperson, and a new full-time paid position of club liaison officer was created and advertised late in the year. The officer will assist the activities officer in promoting development of the clubs, conveying information amongst them, researching available resources, and supporting their activities.

The proposed relocation of the Union arts and crafts area caused considerable concern to those involved. Support was consequently expressed for a new arts and crafts centre, to be located close to the Union, to house such activities as pottery, jewellery-making, stained glass work and woodwork, as well as some flexible space for use of drama, film making, video and photographic groups. A committee to make recommendations has been set up through the clubs and societies executive.

The Union tuition programme was again well supported by students and staff, a new addition being a peasant furniture making class. It was not possible to set up many new classes which were often requested, because of lack of space and facilities. No motor maintenance classes could be run, nor could woodwork, stained glass, and ceramics work be extended. In fields where teachers and facilities were not available in the Union, inquirers were referred on to resources off campus where possible.

In August, the Summer Group was formed to discuss and plan summer activities, including the summer school, with the activities officer. Emphasis was placed on opening up opportunities for Monash people and others from the community to participate in a broader range of experiences than the structured course programme allowed, on developing awareness of campus resources, and on supporting follow-up of involvement in summer activities throughout the year.

A booklet, *Summer Sources*, was published by the Summer Group, and gave details of proposed activities, information on Union and University resources, and leads to other summer activities in Melbourne.

Over 3,000 people participated in the eighty-odd courses, as well as the many new projects, including a kids' creative workshop, a small video access centre, programmes from Radio 3MU, free ecological discussion groups, two film seasons, and a special week for women, called "Getting Together".

A bus was purchased to promote involvement by Union groups in the local area, and its use will be developed during 1975.

#### *Sports and Recreation Association*

Participation in the activities of the association continued at such a level that some outside facilities had to be hired for the use of members. The new recreation hall which is scheduled for completion by the beginning of first term should however overcome this difficulty during 1975. Although, as was noted in the previous report, the hall will lack basic toilet and changing facilities, it has been designed to allow a variety of differing activities to take place simultaneously. One particular feature of the design is that the material used for the floor is an imported composition tile which has not previously been used in Australia but which should give a more versatile surface than the conventional floors normally installed in sports halls.

*Community Activities:* The facilities were again used by many local schools and community groups at times which did not conflict with the requirements of members.

A very successful women's recreation programme was run by the National Fitness Council with a child-minding service operating from the sports pavilion.

*Shoreham Camp:* The W. H. Buxton Camp at Shoreham, which is owned by the Y.M.C.A. and run in conjunction with the association, was further developed and in considerable demand. Some forty schools and fifty-three community organizations and Monash groups used the camp during the year.

*General Recreation:* The interest in recreation classes continued and the programme was extended to include badminton, trampolining, circuit fitness training, tennis and some training with weights. Some fitness testing using a schedule based on techniques developed by Dr Kenneth Cooper was also available. All classes were well supported by people of varying ages and standards of fitness and skill. The regular lunchtime competitions in volleyball and basketball were again popular, with eight basketball and fourteen volleyball teams involved. The association's policy of allowing free use of a variety of sporting equipment upon production of an identity card and the scheduling of the games hall for casual use was again appreciated by many members.

*Competitions:* Monash teams contested forty intervarsities, were placed in the top three on twenty-five occasions and won the following contests: men's and women's basketball, cross country, men's and women's squash, men's and women's table tennis, men's volleyball, canoeing, men's judo, netball, soccer, women's gymnastics, women's trampoline and men's skiing.

Monash was well represented in local competition in all sports and many of the clubs are now competing in the top grade of their particular association.

## 11. FINANCE

The following salient points from the audited accounts of the University for the year 1974 are set out for ready reference.

### 1. Funds Available

#### 1.1 Source of Funds

As from 1 January 1974 the Australian Government assumed total responsibility for the funding of tertiary education. This included the abolition of academic fees previously paid by students, but not Union fees. At the same time machinery was established for the supplementation of government grants to compensate for those increases in costs which had not been anticipated when the legislation for the triennium grants was proposed.

#### 1.2 Recurrent

Government funds available for expenditure on recurrent items during the year ended 31 December 1974 were:

	Total		University		Teaching Hospitals		Halls of Residence	
	\$000	%	\$000	%	\$000	%	\$000	%
Basic grant	24,255	76.9	24,020	76.8	164	79.2	71	91.0
Supplementation	7,292	23.1	7,242	23.2	43	20.8	7	9.0
	<u>31,547</u>	<u>100.0</u>	<u>31,262</u>	<u>100.0</u>	<u>207</u>	<u>100.0</u>	<u>78</u>	<u>100.0</u>

These funds were expended as follows:

	<i>Total</i>		<i>University</i>		<i>Teaching Hospitals</i>		<i>Halls of Residence</i>	
	<i>\$000</i>	<i>%</i>	<i>\$000</i>	<i>%</i>	<i>\$000</i>	<i>%</i>	<i>\$000</i>	<i>%</i>
Academic activities	22,012	69.8	21,805	69.8	207	100.0		
Academic services	3,009	9.5	3,009	9.6				
Student services	932	3.0	932	3.0				
General services	5,469	17.3	5,469	17.5				
Public services	37	.1	37	.1				
Other	78	.3					78	100.0
	<u>31,537</u>	<u>100.0</u>	<u>31,252</u>	<u>100.0</u>	<u>207</u>	<u>100.0</u>	<u>78</u>	<u>100.0</u>

1.3 Capital

Government funds available for expenditure on capital projects (buildings and furniture) during the 1973-1975 triennium are:

	<i>Total \$000</i>	<i>On University site (other than Halls of Residence)</i>	<i>Non-Collegiate Accommodation</i>	<i>Teaching Hospitals</i>
		<i>\$000</i>	<i>\$000</i>	<i>\$000</i>
State Government grant	1,188	1,138	42	8
Australian Government grant—				
Basic	5,997	5,692	208	97
Supplementation	593	563	21	9
	<u>7,778</u>	<u>7,393</u>	<u>271</u>	<u>114</u>
Expenditure, 1 January 1973 to 31 December 1974	<u>4,168</u>	<u>4,046</u>	<u>75</u>	<u>47</u>

1.4 Research

Government grants available for expenditure on special research projects during the 1973-1975 triennium are:

	<i>\$000</i>
State Government grant	113
Australian Government grant—	
Basic	567
Supplementation	133
	<u>813</u>
Expenditure 1 January 1973 to 31 December 1974	<u>460</u>

1.5 Equipment

Government grants for purchase of approved items of equipment during the 1973-1975 triennium are:

	<i>\$000</i>
State Government grant	463
Australian Government grant	2,317
	<u>2,780</u>
Expenditure 1 January 1973 to 31 December 1974	<u>1,866</u>

*2. Student Union Fees*

Students studying on campus:	full-time \$72 per annum, part-time \$44 per annum.
Students studying off campus— In Victoria:	full-time \$18 per annum, part-time \$12 per annum.

*3. Accounts*

The audited accounts of the University for the year 1974, prepared in the form approved by the Auditor-General, are appended to this Report and provide further details of the year's activities.

*4. General*

The inflationary spiral continued from 1973 at an even higher rate in 1974. This was especially so for building costs which rose alarmingly, a situation worsened by very substantial delays, whilst expenditure directly related to non-academic salary rates increased by 29.02 per cent during the twelve months. Late in the year academic salaries also were adjusted upwards following the report of the Academic Salaries Tribunal.

Such unprecedented pressures on funds would have been unbearable had not the government made supplementary grants during the year. The additional funds provided in this way, together with tight control of expenditure, enabled the University to complete 1974 within the recurrent funds available for the year.

In the field of capital expenditure the position was not so fortunate. Despite supplementation, funds proved to be insufficient to enable the original building programme to be sustained. This remains one of the perplexing problems facing the University in 1975.

## 12. GIFTS AND GRANTS

The following gifts and grants were received by the University:

Abbott (Australasia) Pty Ltd, to assist with travel expenses, Professor R. W. Holloway (Genetics)	\$250
Adams, the Estate of the late George:	\$4,350
Seminar "Aborigines and the Law" (Centre for Research into Aboriginal Affairs)	\$100
Toward cost of setting up dermatology research fellowship (Medicine)	\$4,000
Religious centre organ appeal	\$250
Alcoa of Australia Limited, annual prize (Materials Engineering)	\$100
Altona Petrochemical Co. Ltd, to establish A.P.C. third year scholarship (Chemical Engineering)	\$400
Angliss, William (Victoria) Charitable Fund:	\$4,500
To assist research in the field of disability, Dr P. Gorman (Education)	\$1,000
Toward research of Associate Professor J. C. McNeur (Surgery)	\$3,000
Religious centre organ appeal	\$500
Anonymous donors as follows:	\$18,200
For continuing research in orthopaedic and traumatic surgery (Surgery)	\$10,000
To provide clerical assistance and equipment (Education)	\$3,300

Biophysics section (Surgery)	\$2,000	
Toward cost of servo-hydraulic testing machine (Materials Engineering)	\$2,000	
Travel expenses, Dr D. Barkla (Anatomy)	\$200	
To assist research fellows (Social and Preventive Medicine) Library	\$650	
	\$50	
Anti-Cancer Council of Victoria, to support research projects conducted by the following in 1974, plus 5 per cent administration and salary adjustment costs:		\$45,578.40
Dr G. N. Brodie (Medicine)	\$5,829	
Dr H. G. Burger (Medicine)	\$4,345	
Drs M. N. Cauchi, H. A. Ward and B. H. Toh (Pathology)	\$6,822	
Professor R. C. Nairn and colleagues (Pathology)	\$18,412	
Professor E. S. R. Hughes (Surgery)	\$3,000	
Professor J. McK. Watts (Surgery)	\$5,000	
Apex Trust for Autism, support of diagnostic survey in the field of autism, Mrs M. Prior (Psychology)		\$1,420
Australasian Institute of Mining and Metallurgy, Victorian Women's Auxiliary, to Hargrave Library		\$60
Australasian Medical Publishing Co., for travel expenses, Professor S. Faine (Microbiology)		\$30
Australian Advisory Committee on Research and Development, grants awarded to the following in support of research and development in education:		\$34,900
Mr R. D. Linke (Education)	\$6,651	
Mr F. R. Perry (Education)	\$9,039	
Professor P. J. Fensham (Education)	\$8,910	
Dr J. A. McDonnell (Centre for Continuing Education)	\$10,300	
Australian-Asian Association of Victoria:		\$450
Proficiency prize in Indonesian (Indonesian and Malay)	\$50	
For subscriptions to overseas newspapers and purchase of books (Indonesian and Malay)	\$400	
Australian Atomic Energy Commission, for research project "Crack propagation in metals", Dr J. R. Griffiths (Mechanical Engineering)		\$3,580
A.C.I. Fibreglass, toward expenses of the N.S.V. 1974 Conference keynote speakers (Mechanical Engineering)		\$500
Australian Chicken Meat Research Committee, for projects:		\$11,708
"Development of the chicken cartilage"	\$4,627	
"Skeletal abnormalities in broiler chickens", Professor D. A. Lowther (Biochemistry)	\$7,081	
Australian Council for the Arts:		\$22,832.20
Alexander Theatre—professional fees	\$12,600	
Robert Blackwood Hall—Sunday concerts	\$2,500	
Art Advisory Committee—purchase of works by living Australian artists	\$1,354.20	
Centre for Continuing Education—planning conference on course in Aboriginal culture	\$6,378	
Australian College of Speech Therapy, secretarial help for Dr P. Gorman (Education)		\$20
Australian Council for Educational Research, for project "Rural attitudes to education and related community services", Professor P. Musgrave (Education)		\$14,607
Australian Institute of Aboriginal Studies, for research by Mr J. G. Breen (Linguistics)		\$14,452.48



Australian Institute of Nuclear Science and Engineering, grant for 1974 research projects:	\$14,260
"The effects of radiation on the electrical conductivity of some simple polymer and polymer-like systems", Dr R. H. Fleming (Physics)	\$1,050
"Distribution of magnetic moment in Cu Fe and Cu Mn alloys", Dr T. J. Hicks (Physics)	\$4,100
"Distribution of magnetic moment in transition metals and alloys", Dr T. J. Hicks (Physics)	\$4,220
"Short range order in transition metal alloys and compounds", Associate Professor J. H. Smith (Physics)	\$2,320
"A study of perturbation to spin density wave ordering in chromium", Professor R. Street (Physics)	\$1,620
"Hyperfine interaction studies by nuclear orientation and angular correlation", Dr J. A. Barclay (Physics)	\$500
"Magnetic interaction of rare earth compounds", Dr J. D. Cashion (Physics)	\$400
Australian Institute of Steel Construction prizes (Civil Engineering)	\$94
Australian Kidney Foundation for research projects:	\$5,350
"Pathogenesis of hypertension in chronic renal failure", Professor C. I. Johnston (Medicine)	\$3,750
"Ultra structural protein tracing in the renal glomerulus", Drs D. J. Davies and E. A. V. Pihl (Pathology)	\$1,000
Toward Reickert Biopan Microscope for Prince Henry's Hospital (Medicine)	\$600
Australian Psychological Society, The annual prize (Psychology)	\$50
Australian Research Grants Committee	\$776,024
On the recommendation of the committee, the Australian Government approved grants for 1975 as listed at the conclusion of this Report.	
Australian Road Research Board, continued research on steel box girders, Professor N. W. Murray (Civil Engineering)	\$3,053
Australian Society of Accountants, annual prize in Accounting and Commercial Law (Economics and Politics)	\$40
Australian Society for Parenteral Nutrition, to balance costs of the international congress (Paediatrics)	\$730.94
Australian Tobacco Research Foundation, for research projects:	\$13,339.27
"Antidiuretic hormone, synthesis release and metabolism", Professor C. I. Johnston (Medicine)	\$9,730
Professors B. G. Firkin and C. I. Johnston (Medicine)	\$3,609.27
Australian Wool Corporation, for research project:	\$35,572
"Measurement of Gonadotrophin", Dr H. G. Burger (Medicine)	\$14,926
and continued research on "Macro-cyclin metal complexes based on amino acids", Dr D. StC. Black (Chemistry)	\$20,646
Baird, Mr Stephen—Student Loan Fund	\$5.70
Bayer Pharmaceutical Company:	
Grant for research on drug Trasylol by Associate Professor J. C. McNeur (Surgery)	\$20,000
Toward overseas travel, Professor J. McK. Watts (Surgery)	\$200
Beard, Mr and Mrs W., to set up a trust to provide prizes and a museum collection in memory of their son Graham (Electrical Engineering)	\$10,000
Beamaris North Primary School Mothers Club, to encourage development of the Alexander Theatre Company	\$10

Beecham (Australia) Pty Ltd, travel expenses, Professor B. G. Firkin (Medicine)	\$200
Boehringer Ingelheim Pty Ltd:	\$550
Travel expenses, Professor B. G. Firkin (Medicine)	\$250
Cardiovascular research, Associate Professor W. A. W. Walters (Obstetrics and Gynaecology)	\$300
Broken Hill Mining Managers' Association, for research projects in the Broken Hill area (Earth Sciences)	\$13,102
Broken Hill Proprietary Company Ltd:	\$8,627.50
B.H.P. Prizes for 1972 and 1973	\$200
Toward cost of servo hydraulic testing machine	\$7,500
Extension of scholarship (Materials Engineering)	\$927.50
Burroughs Wellcome and Co. (Australia) Ltd:	\$200
Travel expenses Professor B. G. Firkin (Medicine)	\$100
General donation (Medicine)	\$100
Bushell, Laura, Trust, Farrand Spectro Fluorimeter and accessories (Medicine—Alfred Hospital)	\$6,000
Carlton and United Breweries Ltd, continued support of research project on yeast genetics, Professor A. Linnane (Biochemistry)	\$2,000
Carnation Company Pty Ltd:	
Research project "The significance of prenatal infection with virus and toxoplasma clinical and laboratory studies", Dr K. Hayes (Paediatrics)	\$250
Prizes in paediatrics	\$100
Casa d'Italia, 1974 scholarships	\$600
Cato, Fred J., Charitable Fund, for religious centre organ	\$100
Cement and Concrete Association of Australia, provision of prize (Civil Engineering)	\$40
Ciba-Geigy Australia Ltd:	\$1,200
Travel expenses—Professor B. G. Firkin (Medicine)	\$200
Continued support of clinical trials by Dr D. K. Karna (Obstetrics and Gynaecology)	\$1,000
Clark Rubber Stores Ltd, continued support of research project on plastic pipes by Dr D. F. Kinder (Civil Engineering)	\$2,634
Collier Charitable Fund:	\$4,500
Purchase of audio-visual equipment (Science)	\$4,000
Religious centre organ appeal	\$500
Comalco Aluminium (Bell Bay) Ltd.:	\$8,450
Further support of research project, "Edge cracking of aluminium alloys", Mr N. M. Burman (Materials Engineering)	\$4,100
Continuation of research project, "Fracture mechanics of aluminium alloys", Mr D. S. Saunders (Materials Engineering)	\$4,350
Commercial Bank of Australia Limited, annual prize in Psychology 101 (Psychology)	\$40
Consolidated Electronic Group, annual Reuben Medding Prize (Electrical Engineering)	\$50
Conzinc Riotinto of Australia Ltd, scholarship and book allowance (Chemical Engineering)	\$800
C.S.I.R.O.:	\$1,237.50
For further support of research on "Induced polarization technique of exploration" by Dr L. J. Gleeson (Science)	\$1,150
Maintenance grant to student (Mathematics)	\$87.50
C.S.R. Chemicals Pty Ltd, annual prize (Chemistry)	\$100

Dairying Research Committee, for research project "Immunopathology of bovine nasal granuloma", Dr P. Carbonell and Dr H. Muller (Pathology and Immunology)	\$4,364
Davis, Brian and Company Ltd, support of student theatre (Union)	\$25
Delta Metal Holdings (Australia) Ltd, books (Law) (Economics and Politics)	\$150
Department of Education, Australian Government, support of project "Concept formation in the Social Sciences" by Dr F. J. Hunt (Education)	\$1,550
Department of the Environment and Conservation:	\$16,574.30
For research project "Efficiency in industrial, domestic and municipal water use", Professor E. Laurensen (Civil Engineering)	\$8,400
Research project on vegetation and land use of Westernport Bay coastal land system by Professor M. Canny and Dr P. Bridgewater (Botany)	\$8,174.30
Department of Immigration, research project on migrant health (Social and Preventive Medicine)	\$2,846.44
Department of Social Security:	\$30,992
Research project, "Non-users of family planning clinic at Queen Victoria Memorial Hospital" (Obstetrics and Gynaecology)	\$2,605
"Migrant education", Professor R. Taft (Education)	\$17,112
Projects via Commission of Enquiry into Poverty—	
"Consumer Credit, Poverty and the Law", Professor R. Baxt (Law)	\$5,575
"Enquiry into Australian Legal Aid", Dr E. Eggleston and Mr P. Hanks (Law)	\$5,700
Department of Science, Queen Elizabeth II Fellowship Awards as follows:	\$42,359.75
Dr A. F. Bennett (Mathematics)	\$3,260.72
Dr W. D. McKee (Mathematics)	\$9,670.82
Dr G. D. S. Hirst (Physiology)	\$14,731.99
Dr M. A. Coulthard (Physics)	\$70.22
Dr K. Kendall (Materials Engineering)	\$2,809.04
Dr G. A. M. Scott (Botany)	\$4,490.00
Dr P. Crapper (Mathematics)	\$7,326.96
Department of Transport, Australian Government, for research projects:	\$5,100
"Feasibility of evaluating the effectiveness of television films of driver error", Dr D. Thomson (Psychology)	\$4,500
"Development of study plans for road safety research", Professor R. W. Cumming (Psychology)	\$600
Deutscher Akademischer Austauschident, D.A.A.D., Scholarship (Civil Engineering)	\$297.84
Dunn, Professor S. S., toward the work of the faculty (Education)	\$400
Edwards, Mr R. L., books (Law)	\$20
Electrical Research Board, for project "Control and optimization of large power systems", Professor K. Morsztyn (Electrical Engineering)	\$5,500
Ellis, Mrs P., on behalf of son Robin, to law library	\$30
Essex Laboratories Pty Ltd, travel and expenses for cardiovascular research by Associate Professor W. A. W. Walters (Obstetrics and Gynaecology)	\$200
Esso Australia Ltd:	\$4,000
To assist the advancement of engineering research	\$2,000

Studies to be used at discretion of board of studies (Environmental Science)	\$2,000	
Fawns and McAllan Pty Ltd, travel expenses, Associate Professor J. P. Masterton (Surgery)		\$1,000
Felton Bequests Committee		\$9,550
Grants for continuance of study into the health of middle-aged urban women (Social and Preventive Medicine)	\$4,500	
Virology research, Dr Kathleen Hayes (Paediatrics)	\$5,050	
Fink, Leo and Minna Fund, research project "Socio-psychological aspects of Melbourne Jews", Professor R. Taft (Education)		\$500
Fletcher, Mr J. B., for religious centre organ appeal		\$250
Fluor Australia Pty Ltd (careers and appointments office)		\$50
Fogarty, Mr J. F., toward seminar "Aboriginals and the Law" (Centre for Research into Aboriginal Affairs)		\$20
Ford Foundation, The (in conjunction with Rockefeller Foundation), pilot study "Reproductive biology and contraceptive development", Associate Professor W. A. W. Walters (Obstetrics and Gynaecology)		\$2,330.92
Ford Motor Company of Australia Ltd:		\$350
Ford Prize (Mechanical Engineering)	\$50	
Toward expenses of N.S.V. Conference (Mechanical Engineering)	\$250	
To match donation of G. P. Politis, Graduate (Library)	\$50	
Forelanders Trust, to assist Miss Sue McKemmish with thesis on "The political role of General Nasution" (Centre of Southeast Asian Studies)		\$1,000
General Motors-Holden's Pty Ltd:		\$8,300
Postgraduate Research Fellowships—		
Mr D. I. McKenzie (Microbiology)	\$4,000	
Mr P. A. Kirton (Electrical Engineering)	\$4,000	
To the careers and appointments office	\$100	
Conference on Communication with Migrant Groups (Centre for Continuing Education)	\$200	
Golden Poultry Farm Pty Ltd, being redirected fee due to Mr Justice Isaac, Arbitration Court Deputy President (Art Advisory Committee)		\$500
Handley, Eliza, Trust, religious centre organ appeal		\$50
Hardman Chemicals Pty Ltd, application to research projects (Biochemistry)		\$440
Healy, Mr and Mrs K. J., research project "The causes of kidney disease in children" (Paediatrics)		\$50
Heineman, Minna-James, Foundation, (West Germany), travel expenses, Dr G. J. F. Troup (Physics)		\$210
Hicks, George, Foundation, for Applied Chemicals scholarships (Chemical Engineering)		\$2,831.67
Hillel Foundation of Victoria (religious centre)		\$500
Hoechst Australia Ltd:		\$2,863
Further support of clinical trials with Streptokinase (Medicine)	\$2,563	
Travelling expenses (Medicine)	\$300	
Hungerford Spooner and Kirkhope, prizes in commercial law, financial control and administrative policy (Economics and Politics)		\$150
Hy-Q Electronics Pty Ltd, research scholarship (Electrical Engineering)		\$3,000
I.C.I. Australia Ltd:		\$415
Travelling expenses, Professor B. G. Firkin (Medicine)	\$100	
Professor B. W. Holloway (Genetics)	\$275	

I.C.I. Prize for vacation work report (Chemical Engineering)	\$40	
Irving, Mr and Mrs L. N., in memory of their son Francis, gift to library		\$90
Institute of Chartered Accountants in Australia, annual accounting prize (Accounting and Finance)		\$40
Isaac, Mr Justice, Arbitration Court Deputy President, in lieu of fees:		\$1,120
Works of Art (Art Advisory Committee)	\$1,000	
Library	\$120	
Krongold, Mr and Mrs Henry, further gift to establish the Dinah and Henry Krongold Child Training Centre (Education)		\$40,000
Lehrer, Dr I. H., to the work of the department (Chemical Engineering)		\$50
Leit, Mr R. L., toward replacing judo mats in sports centre (Union)		\$50
Lever and Kitchen Pty Ltd, scholarship in environmental science (Zoology)		\$2,300
Lilly Industries Pty Ltd, travel expenses, Professor J. McK. Watts (Surgery)		\$75
Life Insurance Medical Research Fund of Australia and New Zealand, further instalments on research awards:		\$18,314
"Humoral mechanisms in hypertension", Professor C. I. Johnston (Medicine)	\$7,208	
"Study of platelet function and coagulation in patients with thrombotic disorders", Professor B. G. Firkin (Medicine)	\$4,729	
"The development of the pulmonary circulation in the foetus and new born", Dr B. C. Ritchie (Medicine)	\$6,377	
Lundbeck, H. and Co. A/S (Denmark), toward travelling expenses, Professor B. G. Firkin (Medicine)		\$300
Maunsell and Partners Pty Ltd, to purchase equipment for Robert Blackwood Hall		\$10
Matheson, Dr Virginia, library fund (Southeast Asian Studies)		\$15
Mead Johnson Pty Ltd, annual Mead Johnson Award (Paediatrics)		\$52.50
Merck, Sharp and Dohme (Australia) Pty Ltd:		\$3,960
To support research "Pituitary polypeptides", Professor J. Bornstein (Biochemistry)	\$3,000	
Cardiovascular research by Associate Professor W. A. W. Walters (Obstetrics and Gynaecology)	\$300	
Toward travel expenses, Professor B. G. Firkin (Medicine)	\$300	
Dr D. StC. Black (Chemistry)	\$360	
M.I.M. Holdings Ltd, to the careers and appointments office		\$100
Ministry of Aboriginal Affairs:		\$32,667.83
Reimbursement of salary of Mrs L. Lippmann (Centre for Research into Aboriginal Affairs)	\$10,167.83	
Seminar, "Aborigines and the Law" (Centre for Research into Aboriginal Affairs)	\$6,000	
Black Australian Studies course (Centre for Research into Aboriginal Affairs)	\$3,000	
Grant to Centre for Research into Aboriginal Affairs	\$4,000	
The Aboriginal Health Journal	\$6,200	
Aboriginal Health Study (Social and Preventive Medicine)	\$3,300	
Ministry for Youth, Sport and Recreation, survey on "Australian attitudes to development of wilderness areas of Baw Baw Plateau" (Civil Engineering)		\$5,050
Mobil Oil Australia Ltd:		\$4,900
Mobil Graduate Research Scholarship, Mr D. Siemon (Chemical Engineering)		\$3,150

In appreciation of work carried out on portable static generator and preparation of film (Chemical Engineering)	\$1,650	
To the careers and appointments office	\$100	
Monash Medical Mothers Club, toward purchase of furniture for the clinical school at the Queen Victoria Memorial Hospital (Paediatrics, and Obstetrics and Gynaecology)		\$183.05
Monash University Parents Group:		\$4,100
Purchase of equipment (Union)	\$1,600	
Books (Library)	\$2,000	
Special education area for purchase of educational toys (Education)	\$250	
Halls of residence	\$250	
Monsanto Australia Ltd:		\$1,500
Chemical Engineering	\$500	
Materials Engineering	\$500	
Chemistry	\$500	
Muscular Dystrophy Associations of America Inc., continued support of research on "Neural factors involved in muscle development and maintenance", Dr L. Austin (Biochemistry)		\$4,420.22
Myer, E. B., Charity Fund, religious centre organ appeal		\$500
Myer Foundation, The:		\$9,608
Visiting writers pilot project (English)	\$800	
Continued assistance for research on medical graduates by Mrs Ione Fett (Anthropology and Sociology)	\$3,000	
Research by Mr M. Dohrmann (Mechanical Engineering)	\$400	
To assist in purchase of audio equipment (Union theatre)	\$508	
Oceanographic experiments in Macquarie Harbour by Dr A. F. Bennett (geographical fluid dynamics laboratory)	\$4,900	
MacFarlane, Mr Stephen H., toward seminar "Aborigines and the Law", (Centre for Research into Aboriginal Affairs)		\$10
McKenzie, Mr A., in support of work of chaplains (religious centre)		\$10
McPhersons Ltd, to assist with purchase of a servo-hydraulic testing machine (Materials Engineering)		\$500
National Heart Foundation of Australia, research grants to:		\$25,461.51
Drs J. B. Chapman and C. L. Gibbs (Physiology)	\$6,334	
Dr B. Jarrott (Physiology)	\$4,376	
Dr E. M. McLachlan (Physiology)	\$1,618.51	
Professor C. I. Johnston (Medicine)	\$13,133	
Nicholas Pty Ltd, overseas study tour by Dr D. St John (Medicine)		\$1,000
Oakleigh Rotary Club, furnishings (Union)		\$407.60
Odgers, Mrs V. J., religious centre organ		\$100
Petroleum Refineries (Australia) Pty Ltd, to careers and appointments		\$100
Philips Industries Holdings Ltd, prizes (Psychology)		\$80
Pond, Mr S. A. F., purchase of books for library (Law)		\$50
Potter, Ian, Foundation, The:		\$9,460
"Recovery of mercury from waste residues", Dr G. B. Deacon (Chemistry)	\$1,400	
Toward purchase of equipment (Surgery, Prince Henry's Hospital)	\$5,000	
To enable Professor R. H. T. Smith to attend meeting in Seattle (Geography)	\$560	
Toward purchase of equipment (Zoology)	\$2,000	
Travelling expenses, Dr J. B. Chapman (Physiology)	\$500	

Potter, Professor O. E., reimbursement of costs incurred and a contribution in appreciation of assistance to First Australian Conference on Heat and Mass Transfer (Chemical Engineering)	\$627
Productivity Promotion Council of Australia, in appreciation of the running of A.I.T.D. Conference (North-east halls of residence)	\$100
Production Equipment Ltd, prizes (Civil Engineering)	\$200
Queen Victoria Memorial Hospital, to assist cardiovascular research (Obstetrics and Gynaecology)	\$304.60
Radio Research Board:	\$3,000
Project "Electro-magnetic field investigation of integrated optical circuits", Dr G. K. Cambrell (Electrical Engineering)	\$1,000
"A used filter design programme", Dr K. Pang (Electrical Engineering)	\$2,000
Ramaciotti, Clive and Vera, Foundations:	\$13,653
"Study of microcirculatory events in the retina and of their significance in damage to the central nervous system during open heart surgery", Dr Isla M. Williams (Medicine)	\$9,403
"Study of role of prostaglandins in the human ovarian cycle and fertility", Associate Professor W. A. W. Walters (Obstetrics and Gynaecology)	\$4,250
Ramsay Surgical Ltd, Ramsay prize for proficiency (Zoology)	\$50
Reckitts Pty Ltd, travel expenses, Dr D. St John (Medicine)	\$300
Reserve Bank of Australia, The, research on "Industrial relations at the place of work", Dr D. Yerbury (Economics)	\$7,000
Reserve Bank of Australia, Rural Credits Development Fund, for project "Investigations into the fine structure of cereals and their pathogens", Dr T. P. O'Brien (Botany)	\$5,367
Roche Products Pty Ltd:	\$950
Travel assistance to Dr E. McLachlan (Physiology)	\$250
Cardiovascular research, Associate Professor W. A. W. Walters (Obstetrics and Gynaecology)	\$250
Department of Medicine (Alfred Hospital)	\$200
To enable Dr Isla Williams to continue her research (Medicine)	\$250
Rockefeller Foundation, The, to support work of Dr K. H. McLean in Indonesia (Medicine)	\$21,057.50
Ross, R. E., Trust, grant to support mathematics project being conducted jointly with the Papua and New Guinea University of Technology (Education)	\$10,000
Rothman's University Endowment Fund stipend for Junior Rothmans Fellows:	\$8,295.38
Dr A. Wirth (Mathematics)	\$4,245.38
Dr K. J. Harrison (Mathematics)	\$4,050
Rousell Pharmaceuticals Pty Ltd:	\$4,000
Research on Hypertension, Professor C. I. Johnston (Medicine)	\$3,000
Toward salary, Dr P. Longmore (Medicine)	\$1,000
Sandoz (Australia) Pty Ltd, for drug trials by Professor C. I. Johnston (Medicine)	\$1,000
Schering Pty Ltd, to work of Associate Professor J. F. Leeton and Dr J. Blackwell with the artificial insemination bank (Obstetrics and Gynaecology)	\$50
Schools Commission, part of grant to fund the primary schools libraries research project (Education)	\$5,000
Shell Company of Australia Ltd, prizes, (Administrative Studies and Chemical Engineering)	\$100

Smith, Dame Hilda, equipment, Robert Blackwood Hall	\$10
Students' Parents Action Committee, to Alexander Theatre, in appreciation	\$40
Squibb, E. R. and Sons Pty. Ltd, toward overseas travel, Professor J. McK. Watts (Surgery)	\$300
Stock Exchange of Melbourne Ltd, The, toward 1974 Monash Economics Lecture (Economics)	\$400
Stuart Simson Educational Trust, to be applied to fees	\$400
State Rivers and Water Supply Commission:	\$2,634
Continued support for project on plastic pipes by Mr D. F. Kinder (Civil Engineering) (Funds provided by Clark Rubber Stores Ltd., q.v.)	\$2,434
Allowance for extra copies of Mr Kinder's thesis (Civil Engineering)	\$200
Sunshine Foundation:	\$1,400
Purchase of equipment (Medicine)	\$500
Photographic equipment (Education)	\$500
Travel expenses, Professor B. W. Holloway (Genetics)	\$400
The Three R's, further support of work of Professor Marie Neale (Education)	\$900
Tileman (Australasia) Pty Ltd, prize (Civil Engineering)	\$40
Travenol Laboratories Pty Ltd, travelling expenses, Professor J. McK. Watts (Surgery)	\$200
University of Melbourne, travel expenses, Professor S. Faine (Microbiology)	\$20
U.S. Public Health Service, supply allowance to Mr H. R. Klyce (Biochemistry)	\$673.40
Victorian Farmers Union, purchase of works of art in lieu of fee to Mr Justice Isaac, Arbitration Court Deputy President (Art Advisory Committee)	\$500
Victoria Law Foundation, as follows:	\$48,853.63
To underwrite production of the law library teaching film (Law)	\$1,750
To subsidize publication of law review (Law)	\$3,000
Law library	\$20,000
Travel expenses to enable Mr Hirokazu Kondo to come to Melbourne to assist in structuring courses in Japanese law (Law)	\$13,000
Research on <i>Imperial Acts Application Act</i> (Law)	\$4,103.63
Seminar "Aborigines and the Law" (Centre for Research into Aboriginal Affairs)	\$7,000
Water Research Foundation of Australia, in support of research projects:	\$7,800
"Anaerobic biological removal of organic compounds from dairy wastes", Dr G. A. Holder (Chemical Engineering)	\$1,940
"Urban water resources modelling", Professor E. M. Laurenson (Civil Engineering)	\$2,600
"Growth rings in the red gum and correlative hydrologic events", Dr J. A. Peterson (Geography)	\$1,260
"Statistics analysis of daily rainfall", Mr G. N. Alexander (Civil Engineering)	\$2,000
Walker, Dr R. Y. (visiting lecturer), to aid a graduate student (Mechanical Engineering)	\$60
Western Mining Corporation Ltd, provision of travel to Japan for students (Japanese)	\$350



Wheat Industry Research Council, support of project on soil micro-organisms, Dr A. A. Holland (Botany)	\$3,526.31
White, Estate of late Joe, to library	\$1,000
Williams, Truby and Florence, Charitable Trust, to Alexander Theatre and Robert Blackwood Hall	\$1,400
Wilson Electric Transformer Co., prizes (Electrical Engineering)	\$200
Wood, Professor E. C., to department of Obstetrics and Gynaecology	\$500
World Health Organization in conjunction with Prince Henry's Medical Research Centre and University of Melbourne, project "Clinical study of effects of gesta-gen-androgen combinations on testicular function in men" (Medicine). (This grant has been returned to the grantor as the project is unable to proceed in the near future)	\$45,384.97
Yallourn High School, to the careers and appointments office	\$10
Besen, Mr Mark, set of four pastel drawings by David Blackburn (Visual Arts)	
Brown, Joseph, of Joseph Brown Galleries: Drawing by T. J. Zikaras (Art Advisory Committee) Commission waived on sale of pastel drawings donated by Mr Mark Besen.	
German Consulate, Goethe Prize for 1973, of books and certificate (German)	
Land, Dr Tessa, painting by Joel Elenberg to law school (Law)	
Marshall, Mr A. J., gift of late Professor Jock Marshall's professional library (Zoology)	
Moore, Mrs Vera, vibraphone, music tapes (Music)	
Pyrotex Australia Pty Ltd, Pyrotex low voltage propagation unit (Botany)	
Watson, Mr A., twenty-one reference books, library (Electrical Engineering)	

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

The appeal by the churches and Jewish community for the building of the religious centre and its organ reached a total of \$243,187 by 31 December 1974. The library fund appeal reached a total of \$125,757, and the development fund \$14,237. The special education fund stands at \$3,577.

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

<i>Investigator</i>	<i>Project Title</i>	<i>Grant</i> \$
<i>Anatomy</i>		
Professor G. C. Schofield	Gastrointestinal secretion and motility (renewal)	5,000
Professor G. C. Schofield	Analysis of cell fluorescence	6,000
Dr G. C. Smith		
Dr D. M. de Kretser	Ultrastructural and hormone studies on the human and rat testis	4,800
Dr P. J. M. Tutton	Cell proliferation in normal and neoplastic gastrointestinal tissues	700

<i>Investigator</i>	<i>Project Title</i>	<i>Grant \$</i>
<i>Biochemistry</i>		
Professor J. Bornstein	Role of pituitary polypeptides in diabetes mellitus	16,410
Professor D. A. Lowther Dr V. Santer Dr. P. Ghosh	The role of lysosomal enzymes in connective tissue degeneration in arthropathy	18,106
Dr M. K. Gould Dr I. C. Parsons Professor J. Bornstein	The mechanism of the insulin-antagonistic action of growth hormone: a unified hypothesis	2,000
<i>Medicine</i>		
Professor B. G. Firkin	Pharmacological effects of drugs on erythropoiesis with particular reference to megaloblastic maturation and D.N.A. synthesis	8,513
Professor B. G. Firkin	Platelet physiology and pathology in man	15,371
Dr M. B. Van der Weyden	Role of adenosine deaminase in lymphoid proliferation and differentiation	19,739
Dr G. N. Brodie	A study of the platelet membranes in myeloproliferative diseases and qualitative platelet defects	2,500
Dr F. J. Dudley	Immunological mechanism of liver cell damage	6,600
Professor C. I. Johnston	Storage and release of vasoactive polypeptide hormones	\$7,700
Professor C. Johnston et al	General Research equipment for multiple N.H.&M.R.C. Grants	13,800
Dr R. M. Fox	Mechanisms of D.N.A. replication in human cells	\$10,037
Dr J. Hansky	Gastrointestinal hormones—their role in gastrointestinal physiology and patho-physiology	7,400
Dr M. G. Korman	Serum bile acids in health and disease: Measurement by radioimmunoassay	9,316
Dr R. C. Atkins Associate Professor E. F. Glasgow	Experimental studies of culture of isolated glomeruli from normal and diseased human and animal kidneys	6,900
<i>Microbiology</i>		
Professor S. Faine	Microbiological and immunological studies of pathogenesis and virulence in leptospirosis	8,663
Dr A. A. Ferris	Antigens associated with viral hepatitis type A	6,000
Dr N. J. Hayward	Gas-liquid chromatography in rapid diagnosis of coliform infections	800
Dr E. G. Westaway	Translation of arbovirus proteins in animal cells	13,303
Dr E. G. Westaway	Biochemical and immunochemical studies of arboviruses	4,600
<i>Paediatrics</i>		
Dr K. Hayes	The significance of pre-natal infection with viruses and toxoplasma	22,556
<i>Pathology and Immunology</i>		
Professor R. C. Nairn	Lymphocyte aggression against living cells and tissues	19,723

<i>Investigator</i>	<i>Project Title</i>	<i>Grant \$</i>
Dr D. J. Davies	The pathogenesis of the local renal graft-versus-host reaction	3,800
<i>Physics</i>		
Dr P. P. Phakey Professor W. A. Rachinger	Ultra structure and defects of mineral phases in dentine and enamel	5,963
<i>Physiology</i>		
Professor M. E. Holman	Biophysics of smooth muscle and its innervation	13,412
Professor A. K. McIntyre	Central actions of impulses from somatic receptors	13,003
Professor R. Porter	Central nervous mechanisms controlling limb movement	7,038
Associate Professor G. A. Bentley	The effects of anti-hypertensive drugs on various cardiovascular reflexes	3,900
Dr B. G. Cragg	Quantitative study by electron microscopy of structural changes in synapses occurring with use and disuse and in other experimental models of mental retardation	5,349
Dr C. L. Gibbs	Energetics of mammalian muscle contraction	7,249
Dr J. B. Chapman		
Dr H. Kranz	Discharge characteristics of single human motoneurones	9,847
Dr R. A. Westerman	Isolated tracheal smooth muscle	6,989
<i>Surgery</i>		
Mr F. T. McDermott	Regulation of cell renewal in the gastrointestinal tract	6,000

## MEDICAL POSTGRADUATE RESEARCH SCHOLARSHIPS

Dr T. N. Cutter	\$7,372	Consumables grant \$600
Dr J. Dent	\$7,372	Consumables grant \$600
Dr M. A. Schwarz	\$7,372	Consumables grant \$600
Dr J. Touli	\$7,882	Consumables grant \$600
Dr P. T. Yeo	\$7,882	Consumables grant \$600

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

*ARTS**Anthropology and Sociology*

Dr W. H. Foddy	An investigation into the use of common facilities and common spaces in strata-title cluster housing residential developments	7,405
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*Geography*

Dr A. P. Kershaw	The vegetation history of north-east Queensland	2,030
Dr C. A. Maher	Process and structure in urban evolution— aspects of residential change in Melbourne	1,700

<i>Investigator</i>	<i>Project Title</i>	<i>Grant \$</i>
<i>German</i>		
Associate Professor M. G. Clyne	Multilingual communication and cross cultural conflict in Australia	6,855
<i>History</i>		
Professor A. G. L. Shaw	Biography of Sir George Arthur, Bart	2,394
<i>Linguistics</i>		
Associate Professor J. T. Platt	A syntactic-semantic investigation of Singapore and Malaysian English with particular refer- ence to problems in acquisition of "standard" English by speakers of it	3,415
<i>ECONOMICS AND POLITICS</i>		
<i>Politics</i>		
Dr H. G. Gelber	Australia, the United States alliance and Great Power relationships in the Pacific	6,084
<i>ENGINEERING</i>		
<i>Mechanical Engineering</i>		
Dr W. H. Melbourne	Aerodynamic loading and response of bluff bodies in turbulent flow	11,187
<i>Chemical Engineering</i>		
Dr D. V. Boger and Dr C. Tiu	Flow of non-Newtonian fluids in conduits of arbitrary cross section	6,992
Dr K. N. Han	Dissolution behaviour of cobalt oxides	1,500
Associate Professor F. Lawson	Study of the kinetics and mechanism of cemen- tation reactions	500
Dr R. B. Newell	The dynamics and control of chemical reactions in a continuous stirred-tank reactor	15,480
Professor O. E. Potter	Similarity in fluidization	13,206
Professor O. E. Potter	Mass transfer in the oxidation of cyclohexane	10,838
<i>Electrical Engineering</i>		
Professor D. G. Lampard and Associate Professor W. A. Brown	Computer control of respiration and anaes- thesia	17,590
Professor K. Morsztyn	Modelling, control and optimization of large dynamic power systems (Power system simu- lator studies)	2,500
Dr S. J. Redman	The application of electrical circuit models of neurones to the analysis of synaptic potentials	30,040
<i>Materials Engineering</i>		
Dr P. F. Thomson	An elastic/plastic finite element solution to the mechanics of sheet and strip rolling (includ- ing deformation of rolls)	2,000
<i>Mechanical Engineering</i>		
Dr J. B. Hinwood	Cellular structure in a turbulent shear flow	7,995

<i>Investigator</i>	<i>Project Title</i>	<i>Grant \$</i>
<i>MEDICINE</i>		
<i>Biochemistry</i>		
Dr J. McD. Armstrong	Specificity and regulation of phosphoprotein phosphatases of mammalian tissue	1,500
Dr L. Austin	The origin of axonal protein	8,921
Dr L. Austin and Dr P. L. Jeffrey	Turnover of synaptic components	7,043
Dr P. D. Crowfoot and Professor A. W. Linnane	The effects of altered biochemical function on the structure and function of mitochondrial membranes	12,210
Professor A. W. Linnane and Dr H. B. Lukins	Biogenesis of mitochondria	16,368
Professor A. W. Linnane and Dr P. Nagley	Informational macromolecules in nucleocytoplasmic interactions	7,522
Professor A. W. Linnane and Associate Professor G. M. Kellerman	The effects of antibiotics on mammalian tissues and on human cells in tissue culture	9,991
Dr B. G. Livett	Role of membrane fusion in the release of neurotransmitters	5,900
Professor D. A. Lowther and Dr H. C. Robinson	Structural studies of connective tissues including factors involved in the maintenance of cartilage	9,005
Dr B. N. Preston and Dr J. D. Wells	Physico-chemical and mechanical studies on model connective tissue systems	2,500
Professor D. A. Lowther and Dr C. J. Handley	Regulation of matrix formation as an expression of the differentiated state of chondrocytes cultured in <i>in vitro</i>	3,525
<i>Microbiology</i>		
Dr R. C. Bayly	Evolutionary relatedness of enzymes of meta fission degradative pathways	11,529
<i>Pathology and Immunology</i>		
Professor R. C. Nairn and Associate Professor E. P. Guli	Immunological studies of biological specificity	4,002
<i>Physiology</i>		
Dr L. M. Aitkin	Central nervous mechanisms in sound localization	6,879
Dr W. R. Gibson	Endocrine factors which influence lipid deposition in chickens	2,310
Dr G. D. S. Hirst and Professor M. E. Holman	The properties and synaptic connections of the nerve cells of the intestine	6,792
Dr I. R. McDonald	Adrenal function in the Australian monotremes and marsupials	11,691
Professor A. K. McIntyre and Dr U. Proske	Properties of somatic receptors in monotremes and sub-mammalian vertebrates	9,444
Professor R. Porter	Factors involved in dynamic control of movement	19,780
Dr L. J. Rogers	The mechanism of vision and memory in lower vertebrates	3,405

<i>Investigator</i>	<i>Project Title</i>	<i>Grant \$</i>
Dr G. S. Taylor and Professor M. E. Holman	The cellular physiology of the sphincters of the gastrointestinal tract	10,045
Dr R. A. Westerman	Communication between cells: nerve-muscle interactions	18,746
Dr M. Weiss	Biogenesis of steroids by the adrenal tissue of the Australian monotremes and marsupials	4,202
<i>SCIENCE</i>		
Professor K. C. Westfold and Dr L. J. Gleeson	Synchrotron radiation from planetary atmo- spheres	2,790
Dr L. J. Gleeson	Cosmic ray propagation in the solar system	6,180
<i>Botany</i>		
Professor M. J. Canny Dr P. F. Lumley and Miss W. M. Lush	Diffusion-analogue properties of translocation	7,160
Dr M. N. Clayton	Studies on the variability and taxonomy of the dictyosiphonales (phaeophyta)	6,893
Dr D. F. Gaff	Desiccation tolerant plants, particularly grasses	6,352
Dr N. D. Hallam	Fine structure of plants adapted to desiccation	13,360
Dr T. P. O'Brien	Cell biology of grasses with special emphasis on cereals	13,127
Dr G. A. M. Scott	A taxonomic revision and investigation of the liverworts of Victoria	2,677
<i>Chemistry</i>		
Dr D. StC. Black	Methods of synthesis based on nitrene cyclo- addition reactions	7,529
Professor R. D. Brown, Dr P. Godfrey and G. L. Blackman	Molecules in space	41,519
Dr R. F. C. Brown and Dr F. W. Eastwood	Methyleneketenes and methylenecarbenes	8,236
Dr D. J. Collins	Studies of the relation between stereochemistry and biological activity of oestrogens: synthesis of 7(8 — 11a) <i>abeo</i> -Oestradiol	10,867
Dr G. B. Deacon	Lanthanide and actinide organometallics	8,598
Dr G. B. Deacon	Main group element organometallics	3,200
Dr R. S. Dickson	Organometallic intermediates in the transition metal assisted reactions of substituted alkynes	8,437
Dr F. W. Eastwood	Intramolecular addition of an hydroxyl group to an amide assisted by neighbouring groups: models for enzymic hydrolysis	9,488
Dr B. M. Gatehouse	Crystal chemistry of the solid state	9,501
Professor W. R. Jackson	Asymmetric addition reactions of hydrogen cya- nide. A potential new route to resolved amino acids	9,036
Professor W. R. Jackson	Metal catalysed rearrangements of cyclic hydro- carbons	10,041
Dr J. E. Kent	Photochemistry studies of benzene and benzene isomers	2,000

<i>Investigator</i>	<i>Project Title</i>	<i>Grant \$</i>
Dr F. P. Larkins	Chemisorption and catalytic studies on oxide systems	1,350
Dr F. P. Larkins	Theoretical studies in X-ray and in electron spectroscopy	9,086
Dr I. R. McKinnon	Chemistry of the lower stratosphere	2,250
Dr J. G. Mathieson and Dr I. R. Wilson		
Dr K. S. Murray	Single crystal magnetic and spectral studies of inorganic and bioinorganic compounds	1,000
Dr M. F. O'Dwyer and Dr J. E. Kent	Perturbations in the lowest excited single state of sulphur dioxide	5,866
Dr A. D. E. Pullin and Dr J. G. Mathieson	Inert gas matrix isolation studies	5,400
Dr I. D. Rae	N.M.R. investigation of long-range fluorine-fluorine coupling in fluorostyrenes	8,590
Professor B. O. West	The reactions of cyclic arsines and phosphines	9,698
Professor B. O. West and Dr K. S. Murray	Synthesis, chemistry and electro-chemistry of organometallic and metallo derivatives of some transition elements	1,000
Dr I. R. Wilson and Dr M. W. Fuller	Metal ion catalysis in thiol oxydations and other systems of biological interest	2,620
Dr J. K. Yandell	Mechanisms of the reactions of electron transfer "enzymes"	1,074
Dr J. B. Youatt	Development of sporangia in allomyces	8,187
<i>Earth Sciences</i>		
Professor B. E. Hobbs and Dr M. A. Etheridge	An experimental investigation of the influence of phase transformations on the mechanical properties of rocks	5,850
Dr I. A. Nicholls	The origin of potassium-rich volcanic rocks in island-arc and continental margin environments	7,500
Dr I. A. Nicholls and Mr V. J. Wall	Crystallization and origin of the aluminous granitic magmas	5,600
Mr V. J. Wall	Experimental and thermodynamic studies of subsolidus relations in the system Ca-Mg-Fe-Si-C-O-H	6,100
<i>Genetics</i>		
Dr K. F. Dyer	Genetic hazards from some widely used organic phosphates	2,388
Professor B. W. Holloway	A genetic approach to the study of the bacterial membrane	9,515
Professor B. W. Holloway and Dr V. Krishnapillai	Genetic organization of <i>Pseudomonas Aeruginosa</i>	6,363
Dr D. R. Smyth	Location of D.N.A. synthesized in meiotic cells in <i>Lilium</i>	1,000

<i>Investigator</i>	<i>Project Title</i>	<i>Grant \$</i>
<i>Information Science</i>		
Dr C. J. Van Rijsbergen	Cluster-based information retrieval	3,700
<i>Mathematics</i>		
Professor B. R. Morton	Dynamics of convective clouds	9,198
Professor R. Van der Borcht	Finite amplitude convection in compressible fluids and its application to astronomical problems	12,127
<i>Physics</i>		
Dr J. D. Cashion and Dr J. A. Barclay	Studies of solids at low temperatures and high magnetic fields	31,636
Dr T. R. Finlayson	Superconductivity in Niobium-Zirconium alloys	1,687
Dr G. C. Fletcher	Theoretical investigation of electronic and particularly magnetic properties of transition metals and their alloys	7,015
Dr P. R. W. Hudson and Dr T. F. Smith	Measurement of thermal properties of magnetically ordered materials in the temperature range 0.3 to 700K and in magnetic fields up to 60kG	9,253
Dr A. C. McLaren	Direct observation and identification of crystal defects and their role in the mechanisms of crystallization and deformation of minerals and rocks	2,500
Dr P. P. Phakey	Transmission electron microscopy of shocked deformed rocks and certain exsolved minerals	1,020
Dr J. R. Pilgrov	Electron spin resonance in crystals and complexes	11,530
Associate Professor J. H. Smith	Magnetic properties of some mictomagnetic alloys and the metamagnetic compound Au <sub>2</sub> Mn	3,961
Dr G. J. F. Troup	Antiferromagnetic resonance studies of doped haematite structures	3,850
Dr G. J. Troup and Dr M. M. Pope	Pulsed N.M.R. studies of model biological membrane systems	8,706
<i>Psychology</i>		
Dr J. L. Bradshaw and Mr N. C. Nettleton	Human information processing; determinants and correlates of performance	7,665
Professor R. H. Day	Human movement perception: the basis of induced movement	5,325
Dr K. I. Forster	Visual processing of sentences	3,115
Dr D. R. F. Irvine	Studies of acoustic input to single cells in non-specific polysensory cortical and sub-cortical areas	8,377
Dr D. M. Thomson	Studies in episodic memory	3,515
Dr W. R. Webster	Single unit studies of the cochlear nucleus of the awake cat	7,820
Dr W. R. Webster and Dr L. M. Aitkin	Audio-visual integration in the central nervous system	3,575



Some of the gifts and grants shown above have payment schedules which extend over two or more years. The following table, which analyses the sources of grants and donations, shows actual funds received during 1974, and is therefore not reconcilable with the list.

<i>Sources of Grants and Donations</i>	\$000	\$000	%
Australian Research Grants Committee	816		
National Health and Medical Research Council	590		
Other Government Sources	385		
	<hr/>		
		1,791	72
Foundations and trusts, corporations, organizations and individuals		696	28
		<hr/>	<hr/>
		\$2,487	100
		<hr/>	<hr/>

For and on behalf of the Council,  
R. D. EGGLESTON,  
Chancellor

ACCOUNTS FOR THE YEAR 1974

CERTIFICATE BY MONASH UNIVERSITY

In our opinion the statements which follow, numbered 1 to 27, correctly record the transactions of Monash University for the year ended 31 December 1974.

J. A. L. MATHESON  
Vice-Chancellor

F. H. JOHNSON  
Comptroller

30 May 1975

AUDITOR-GENERAL'S CERTIFICATE

PURSUANT TO THE PROVISIONS OF SECTION 36  
OF THE MONASH UNIVERSITY ACT 1958

The books and accounts of Monash University for the year ended 31 December 1974 have been audited. In my opinion the statements of account which follow, numbered 1 to 27, correctly summarize the financial transactions for the year.

B. HAMILTON  
Auditor-General

30 May 1975

ALL GENERAL PURPOSES FOR THE YEAR ENDED 31 DECEMBER 1974

<i>Private &amp; Indirect Gov't Research Grants</i>	<i>General Donations</i>	<i>Union Activities</i>	<i>Student Assist. Fund</i>	<i>Union Devel't Fund</i>	<i>General Auxiliary Activities</i>	<i>Fire Insurance Fund</i>	<i>Total</i>	<i>1973 Total</i>
							\$	\$
815,417							185,314	14,446,769
,366,255	363,183	677,675	467	272,710	1,663,850	2,292	36,389,624	11,157,736
							—	3,802,898
,181,672	363,183	677,675	467	272,710	1,663,850	2,292	4,346,432	2,934,087
,786,039	246,646						25,168,086	20,600,290
10,084	75,046						3,948,186	2,502,545
94,449	13,360						1,003,165	924,000
2,456	37,903 Cr.			69,512	97,755		11,216,168	7,681,006
	15,575	687,275		63,797	872,061		37,840	18,680
							1,680,923	1,307,236
,893,028	312,724	687,275	—	133,309	969,816	—	43,054,368	33,033,757
288,644	50,459	(9,600)	467	139,401	694,034	2,292	(2,132,998)	(692,267)
223,571	543,090	(27,500)	7,658	(54,292)	980,925	51,362	7,223,521	7,915,788
					(50,000)	50,000	—	—
512,215	593,549	(37,100)	8,125	85,109	1,624,959	103,654	5,090,523	7,223,521

(2) RECURRENT GRANT  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
	INCOME	
12,752,102	State Government Grants	—
8,963,000	Commonwealth Government Grants	31,262,000
3,802,898	Academic Fees	—
25,518,000	<i>Total Income</i>	31,262,000
	<i>Less</i>	
	EXPENDITURE	
	<i>Academic Activities</i>	
	Teaching and Research—	
16,179,340	Salaries and Related Items	19,726,572
1,007,810	Maintenance	1,080,547
302,422	Computing Services	448,302
383,128	Equipment	123,982
183,126	Study Leave Travel	131,742
114,448	Appointment Costs	92,342
136,398	Other Items	201,177
18,306,672		21,804,664
	<i>Academic Services</i>	
	Libraries—	
1,162,746	Salaries and Related Items	1,522,869
664,198	Books and Journals	877,261
43,045	Maintenance	57,605
31,752	Computing Services	40,179
5,854	Equipment	2,360
802	Other Items	904
1,908,397		2,501,178
	Computing—	
324,499	Salaries and Related Items	407,545
214,006	Maintenance	232,643
379,396 Cr.	Recoveries	561,188 Cr.
3,292	Other Items	2,382
162,401		81,382
	Other Academic Services—	
238,728	Salaries and Related Items	342,882
69,669	Other Items	83,564
308,397		426,446
20,685,867	<i>Sub-Total Carried Forward</i>	24,813,670

(2) RECURRENT GRANT  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974  
(Continued)

1973		1974
\$		\$
20,685,867	<i>Sub-Total Brought Forward</i>	24,813,670
	<i>Student Services</i>	
222,388	Salaries and Related Items	268,134
576,523	Scholarships	613,485
12,564	Other Items	13,737
811,475		895,356
	<i>General Services</i>	
	<i>Administration—</i>	
2,052,503	Salaries and Related Items	2,522,451
46,091	Computing Services	53,545
57,835	Other Items	40,231
2,156,429		2,616,227
	<i>Overheads—</i>	
238,882	Postage, Telephones and Advertising	293,038
23,849	Furniture and Furnishings	33,206
360,800	Power, Lighting and Heating	431,945
214,700	Other Items	334,641
838,231		1,092,830
	<i>Buildings and Grounds—</i>	
975,794	Salaries and Related Items	1,373,614
312,932	Maintenance	371,359
13,631	Other Items	14,676
1,302,357		1,759,649
	<i>Public Services</i>	
	<i>Continuing Education—</i>	
17,235	Salaries and Related Items	35,184
1,445	Other Items	2,132
18,680		37,316
33,456	<i>Union Administration</i>	36,599
814	<i>Inter-Fund Transfers</i>	—
25,847,309	<i>Total Expenditure</i>	31,251,647
329,309 (D)	Surplus for the year	10,353
861,401	Surplus at 1 January 1974	532,092
532,092	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	542,445

(3) BUILDING PROJECTS GRANT  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
1,002,501	State Government Grant	177,498
942,834	Commonwealth Government Grant	2,509,000
1,945,335	<i>Total Income</i>	2,686,498
	<i>Less</i>	
	EXPENDITURE	
149,359	Teaching and Research— Equipment	139,956
3,142,469	New Buildings	5,108,494
49,150	Furniture and Furnishings	168,447
74,911	Site Development	204,464
3,415,889	<i>Total Expenditure</i>	5,621,361
1,470,554	Deficit for the year	2,934,863
5,529,704	Surplus at 1 January 1974	4,059,150
4,059,150	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	1,124,287

(4) EQUIPMENT GRANT  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
	INCOME	
463,333	State Government Grant	—
523,000	Commonwealth Government Grant	1,250,000
986,333	<i>Total Income</i>	1,250,000
	<i>Less</i>	
	EXPENDITURE	
	<i>Academic Activities</i>	
	Teaching and Research—	
234,084	Equipment	732,939
—	Minor Items	1,551
234,084		734,490
	<i>Academic Services</i>	
	Libraries—	
17,954	Books and Journals	165,267
—	Equipment	4,859
17,954		170,126
6,380	Computing	675,086
992	Other Academic Services	8,838
	<i>General Services</i>	
—	Administration	11,930
	<i>Public Services</i>	
—	Continuing Education	524
	<i>Other Items</i>	
—	Union Activities	5,616
259,410	<i>Total Expenditure</i>	1,606,610
726,923 (S)	Deficit for the year	356,610
—	Surplus at 1 January 1974	726,923
726,923	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	370,313

## TEACHING HOSPITALS

## (5) RECURRENT GRANT

STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
115,500	State Government Grant	—
62,500	Commonwealth Government Grant	207,000
<u>178,000</u>	<i>Total Income</i>	<u>207,000</u>
	<i>Less</i>	
	EXPENDITURE	
	<i>Academic Activities</i>	
	Teaching and Research—	
78,745	Salaries and Related Items	90,075
99,255	Maintenance	116,925
<u>178,000</u>	<i>Total Expenditure</i>	<u>207,000</u>
<u>—</u>	SURPLUS FOR THE YEAR	<u>—</u>

## (6) BUILDING PROJECTS GRANT

STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
—	State Government Grant	7,816
—	Commonwealth Government Grant	55,041
<u>—</u>	<i>Total Income</i>	<u>62,857</u>
	<i>Less</i>	
	EXPENDITURE	
	Teaching and Research—	
2,384 Cr.	Equipment	2,649
361 Cr.	New Buildings	121,900
175	Furniture and Furnishings	256
<u>2,570 Cr.</u>	<i>Total Expenditure</i>	<u>124,805</u>
2,570 (S)	Deficit for the year	61,948
164,407	Surplus at 1 January 1974	166,977
<u>166,977</u>	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	<u>105,029</u>



(7) SPECIAL RESEARCH GRANT  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
	<b>INCOME</b>	
113,333	State Government Grant	—
113,333	Commonwealth Government Grant	291,166
226,666	<i>Total Income</i>	291,166
	<i>Less</i>	
	<b>EXPENDITURE</b>	
	<i>Academic Activities</i>	
	Teaching and Research—	
181,376	Salaries and Related Items	233,793
22,212	Maintenance	6,363
1,383	Computing Services	197
1,237	Equipment	766
6,893	Other Items	5,523
213,101		246,642
	<i>General Services</i>	
—	Postage, Telephone and Advertising	151
213,101	<i>Total Expenditure</i>	246,793
13,565	Surplus for the year	44,373
—	Surplus at 1 January 1974	13,565
13,565	<b>ACCUMULATED SURPLUS AT 31 DECEMBER 1974</b>	57,938

## (8) PRIVATE AND INDIRECT GOVERNMENT RESEARCH GRANTS

STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
553,069	Commonwealth Government Grants	815,417
608,130	Grants and Donations—	
329,595	Government Financed Bodies	974,834
	Other	391,421
937,725		1,366,255
1,490,794	<i>Total Income</i>	2,181,672
	<i>Less</i>	
	EXPENDITURE	
	<i>Academic Activities</i>	
	Teaching and Research—	
809,311	Salaries and Related Items	991,615
276,431	Maintenance	350,063
31,689	Computing Services	21,695
255,354	Equipment	376,088
39,451	Other Items	46,578
1,412,236		1,786,039
	<i>Academic Services</i>	
	Computing—	
—	Salaries and Related Items	8,601
600	Maintenance	—
29,153	Other Items	—
29,753		8,601
	Other Academic Services—	
—	Salaries and Related Items	1,038
117	Other Items	445
117		1,483
	<i>Student Services</i>	
98,363	Scholarships	94,449
	<i>General Services</i>	
—	Postage, Telephone and Advertising	166
224	Furniture and Furnishings	2,290
224		2,456
1,540,693	<i>Total Expenditure</i>	1,893,028
49,899 (D)	Surplus for the year	288,644
273,470	Surplus at 1 January 1974	223,571
223,571	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	512,215

(9) GENERAL DONATIONS  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
249,552	INCOME	
	Donations	304,500
40,369	Appeals—	
2,100	Library Books	35,785
952	Robert Blackwood Hall	—
2,319	Religious Centre	—
	Other	4,512
45,740		40,297
21,638	Other Income	18,386
316,930	<i>Total Income</i>	363,183
	<i>Less</i>	
	EXPENDITURE	
	<i>Academic Activities</i>	
	Teaching and Research—	
23,402	Salaries and Related Items	55,748
26,696	Maintenance	51,213
21	Computing Services	—
26,134	Equipment	73,548
32,969	Other Items	66,137
109,222		246,646
	<i>Academic Services</i>	
	Libraries—	
45,600	Books and Journals	53,821
1,052	Maintenance	113
1,300	Equipment	—
47,952		53,934
6,988	Computing	—
	Other Academic Services—	
362	Salaries and Related Items	12,314
12,852	Other Items	8,798
13,214		21,112
	<i>Student Services</i>	
5,231	Salaries and Related Items	6,416
4,710	Scholarships	4,567
4,221	Other Items	2,377
14,162		13,360
191,538	<i>Sub-Total Carried Forward</i>	335,052

(9) GENERAL DONATIONS  
 STATEMENT OF INCOME AND EXPENDITURE  
 FOR THE YEAR ENDED 31 DECEMBER 1974  
 (Continued)

1973		1974
\$		\$
191,538	<i>Sub-Total Brought Forward</i>	335,052
	<i>General Services</i>	
—	Furniture and Furnishings	360
55 Cr.	Other Items	1,220
55 Cr.		1,580
	<i>Buildings and Grounds—</i>	
22,591	New Buildings	39,615 Cr.
4,043	Maintenance	132
26,634		39,483 Cr.
	<i>Other Items</i>	
1,374	Union Activities	1,676
75	Halls of Residence	—
28,037	Appeals—	—
12,775	Robert Blackwood Hall	—
42,261	Other	13,899
260,378	<i>Total Expenditure</i>	312,724
56,552	Surplus for the year	50,459
486,538	Surplus at 1 January 1974	543,090
543,090	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	593,549

(10) UNION ACTIVITIES  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
	INCOME	
431,366	Union Fees	602,371
48,531	Other	75,304
479,897	<i>Total Income</i>	677,675
	<i>Less</i>	
	EXPENDITURE	
125,580	Sports Association	141,718
72,721	Monash Association of Students	91,356
5,673	Monash Research Students' Association	7,059
47,543	Clubs and Societies Council	46,515
40,860	Union Tuition and Courses	59,103
104,076	Union Building Management	142,728
133,722	Union Administration and Special Projects	163,313
	Business Activities—	
32,695	Catering—Operating Deficit	65,994
4,727 Dr.	Other—Operating Surplus	12,600 Cr.
37,422		53,394
567,597		705,186
	<i>Less</i>	
13,000	Contribution by University for use of facilities by staff	17,911
554,597	<i>Total Expenditure</i>	687,275
74,700	Deficit for the year	9,600
47,200 (S)	Deficit at 1 January 1974	27,500
27,500	ACCUMULATED DEFICIT AT 31 DECEMBER 1974	37,100

(11) STUDENT ASSISTANCE FUND  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
675	INCOME	467
	<i>Less</i>	
—	EXPENDITURE	—
675	Surplus for the year	467
6,983	Surplus at 1 January 1974	7,658
7,658	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	8,125

(12) UNION DEVELOPMENT FUND  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
148,379	Union Development Fees	200,422
64,239	Rentals and Other	72,288
212,618	<i>Total Income</i>	272,710
	<i>Less</i>	
	EXPENDITURE	
	<i>General Services</i>	
71,167	New Buildings	54,504
—	Furniture and Furnishings	1,409
—	Maintenance—Buildings	13,599
71,167		69,512
	<i>Other Items</i>	
9,041	Equipment	18,286
1,486	Academic Dress	781
34,746	Occupancy Expenses	44,730
45,273		63,797
750	<i>Inter-Fund Transfer</i>	—
117,190	<i>Total Expenditure</i>	133,309
95,428	Surplus for the year	139,401
149,720	Deficit at 1 January 1974	54,292
54,292 (D)	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	85,109

(13) GENERAL AUXILIARY ACTIVITIES  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
	INCOME	
686,173	Outside Earnings	856,196
297,125	Other Income	807,654
983,298	<i>Total Income</i>	1,663,850
	<i>Less</i>	
	EXPENDITURE	
	<i>General Services</i>	
	Buildings and Grounds—	
21,702	New Buildings	88,644
536 Cr.	Site Acquisition	—
—	Maintenance	1,582
3,073 Cr.	Other Items	7,529
18,093		97,755
	<i>Other Items</i>	
32,960 Cr.	University Bookshop—Net Surplus	3,394 Cr.
27,867 Cr.	Halls of Residence	1,508
5,869 Cr.	Owned Houses and Transit Flats	5,319
598,556	Outside Earnings	872,323
99,789	Other	3,695 Cr.
631,649		872,061
1,564 Cr.	<i>Inter-Fund Transfers</i>	—
648,178	<i>Total Expenditure</i>	969,816
335,120	Surplus for the year	694,034
695,805	Surplus at 1 January 1974	980,925
1,030,925		1,674,959
50,000	Transfer to Fire Insurance Fund	50,000
980,925	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	1,624,959

(14) FIRE INSURANCE FUND  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
	INCOME	
2,944	Income from Investments	2,292
	<i>Less</i>	
	EXPENDITURE	
1,582	Repairs to Physics Building	—
1,362	Surplus for the year	2,292
—	Surplus at 1 January 1974	51,362
50,000	Transfer from General Auxiliary Activities	50,000
51,362	ACCUMULATED SURPLUS AT 31 DECEMBER 1974	103,654



(15) STATEMENT OF BALANCES FOR ALL GENERAL PURPOSES  
AT 31 DECEMBER 1974

\$	1973		\$	1974
	\$		\$	\$
		ACCUMULATED FUNDS		
532,092		Recurrent Grant	542,445	
4,059,150		Building Projects Grant	1,124,287	
726,923		Equipment Grant	370,313	
—		Teaching Hospitals Recurrent Grant	—	
166,977		Teaching Hospitals Building Projects Grant	105,029	
13,565		Special Research Grant	57,938	
		Private and Indirect Government Research Grants	512,215	
223,571		General Donations	593,549	
543,090		Union Activities	37,100 Dr.	
27,500 Dr.		Student Assistance Fund	8,125	
7,658		Union Development Fund	85,109	
54,292 Dr.		General Auxiliary Activities	1,624,959	
980,925		Fire Insurance Fund	103,654	
51,362				
	<u>7,223,521</u>	<i>Total Accumulated Funds</i>		<u>5,090,523</u>
		<i>Represented by:</i>		
		INVESTMENTS		
		Fixed Interest Securities, at lower of cost or par	318,298	
283,098		Ordinary Shares, at cost	391,632	
379,998		(Market Value—		
		31 December 1974 \$226,354		
		31 December 1973 \$315,845)		
	<u>663,096</u>			<u>709,930</u>
		CURRENT ASSETS		
211,804		Cash at Bank and on Hand	35,532	
5,988,047		Cash on Secured Deposits	400,000	
—		Cash on Term Deposits	5,800,000	
6,199,851			<u>6,235,532</u>	
		Debtors—		
1,820,961		Accrued Government Grants	1,094,000	
4,994		Student Assistance Fund	6,270	
626,210		Other	805,829	
17,086		Payments in Advance	114,096	
379,510		Stock on Hand, at cost less obsolescence	624,132	
	<u>9,048,612</u>			<u>8,879,859</u>
	9,711,708			9,589,789
		<i>Less</i>		
		CURRENT LIABILITIES		
1,977,897		Sundry Creditors and Accrued Expenses	3,069,983	
205,767		Students' Fees Received in Advance	388,676	
2,183,664			<u>3,458,659</u>	
		LONG TERM LIABILITIES		
304,523		Loans on Mortgage	1,040,607	
	<u>2,488,187</u>			<u>4,499,266</u>
	<u>7,223,521</u>	<i>Net Assets</i>		<u>5,090,523</u>

DONOR-NOMINATED TRUST FUNDS  
(16) STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
4,904	Income from Investments	5,230
	<i>Less</i>	
	EXPENDITURE	
400	J. W. Dodds Memorial Scholarship	600
800	Vallejo Gantner Memorial Travel Fund	725
656	Oscar Mendelsohn Lecture	726
55	Monash University Rowing Club	54
500	Hume Turnbull Scholarship	—
2,105	William and Katherine Winter Foundation	2,015
—	The David B. Rosenthal Memorial Trust	100
<u>4,516</u>	<i>Total Expenditure</i>	<u>4,220</u>
<u>388</u>	SURPLUS FOR THE YEAR	<u>1,010</u>

(17) BALANCE SHEET AT 31 DECEMBER 1974

1973 \$		1974 \$
	ACCUMULATED FUNDS	
85,805	Funds at 1 January 1974	87,193
	<i>Add</i>	
1,000	Endowment received during the year	10,000
388	Surplus for the year	1,010
<u>87,193</u>	<i>Total Accumulated Funds</i>	<u>98,203</u>
	<i>Represented by:</i>	
	INVESTMENTS	
1,000	Government Securities at cost	1,000
60,978	Semi-Government Securities at lower of cost or par	60,978
17,960	Fixed-Interest Securities at lower of cost or par	27,960
2,917	Ordinary Shares at cost	2,917
	(Market Value 31 December 1974—\$1,540 Market Value 31 December 1973—\$1,955)	
<u>82,855</u>		<u>92,855</u>
	CURRENT ASSETS	
4,338	Cash at Bank	5,348
<u>87,193</u>	<i>Assets</i>	<u>98,203</u>

STUDENTS' LOAN FUND

(18) STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
1,150	Interest on Loans	1,679
2,315	Interest on Fixed Deposits	1,555
165	Bank Interest	491
53	Donations	6
<u>3,683</u>	<i>Total Income</i>	<u>3,731</u>
	<i>Less</i>	
	EXPENDITURE	
—	Loans written off	350
—	Interest written off	19
<u>—</u>	<i>Total Expenditure</i>	<u>369</u>
<u>3,683</u>	SURPLUS FOR THE YEAR	<u>3,362</u>

(19) BALANCE SHEET AT 31 DECEMBER 1974

1973 \$		1974 \$
	ACCUMULATED FUND	
123,482	Fund at 1 January 1974	127,165
	<i>Add</i>	
3,683	Surplus for the year	3,362
<u>127,165</u>	<i>Total Accumulated Fund</i>	<u>130,527</u>
	<i>Represented by:</i>	
	FIXED DEPOSITS	
20,000	Principal	15,000
601	Accrued Interest	727
<u>20,601</u>		<u>15,727</u>
	LOANS TO STUDENTS	
82,837	Long-Term	97,134
4,305	Short-Term	3,807
1,765	Accrued Interest	2,559
<u>88,907</u>		<u>103,500</u>
<u>17,657</u>	CASH AT BANK	<u>11,300</u>
<u>127,165</u>	<i>Assets</i>	<u>130,527</u>

(20) ASSISTANCE TO STUDENTS IN NEED FUND  
STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
231,000	Commonwealth Government Grant	—
4,290	Interest on Fixed Deposits	9,363
—	Interest on Loans	303
—	Bank Interest	300
<u>235,290</u>	<i>Total Income</i>	<u>9,966</u>
	<i>Less</i>	
	EXPENDITURE	
67,756	Grants paid to Students during the year	16,007
—	Loans converted to Grants during the year	1,073
246	Sundry Expenses	—
<u>68,002</u>	<i>Total Expenditure</i>	<u>17,080</u>
<u>167,288 (S)</u>	DEFICIT FOR THE YEAR	<u>7,114</u>

(21) BALANCE SHEET AT 31 DECEMBER 1974

1973 \$		1974 \$
	ACCUMULATED FUND	
—	Fund at 1 January 1974	167,288
	<i>Less</i>	
167,288 (S)	Deficit for the year	7,114
<u>167,288</u>	<i>Total Accumulated Fund</i>	<u>160,174</u>
	<i>Represented by:</i>	
	FIXED DEPOSITS	
125,000	Principal	115,000
3,716	Accrued Interest	5,266
<u>128,716</u>		<u>120,266</u>
	LOANS TO STUDENTS	
33,563	Principal	31,402
—	Accrued Interest	197
<u>33,563</u>		<u>31,599</u>
5,255	CASH AT BANK	8,309
	<i>Less</i>	
246	Creditor	—
<u>5,009</u>		<u>8,309</u>
<u>167,288</u>	<i>Assets</i>	<u>160,174</u>

## SUPERANNUATION AND PENSION SCHEMES

(22) "A" SUPERANNUATION SCHEME (STATUTE 3.6 SECTIONS  
9.3 AND 18.3)STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
	INCOME	
5,626	Members' Contributions	6,160
10,808	University's Contributions	12,239
8,392	Income from Investments	13,099
11,037	Proceeds of Matured Policies	22,379
<u>35,863</u>	<i>Total Income</i>	<u>53,877</u>
	<i>Less</i>	
	EXPENDITURE	
—	Payment on Retirement	14,039
<u>35,863</u>	SURPLUS TRANSFERRED TO ACCUMULATED FUNDS	<u>39,838</u>

## (23) "A" SUPERANNUATION SCHEME — DISABILITY PENSIONS FUND

STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
	INCOME	
35,662	Members' Contributions	39,542
7,597	Income from Investments	12,105
<u>43,259</u>	<i>Total Income</i>	<u>51,647</u>
	<i>Less</i>	
	EXPENDITURE	
—		—
<u>43,259</u>	SURPLUS TRANSFERRED TO ACCUMULATED FUNDS	<u>51,647</u>

## (24) "B" SUPERANNUATION FUND

STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973		1974
\$		\$
	INCOME	
1,859	Forfeiture of University's contributions on resignation of members with under six years' service	1,237
93	Income from Investments	242
<u>1,952</u>	<i>Total Income</i>	<u>1,479</u>
	<i>Less</i>	
	EXPENDITURE	
—		—
<u>1,952</u>	SURPLUS TRANSFERRED TO ACCUMULATED FUNDS	<u>1,479</u>

## SUPERANNUATION AND PENSION SCHEMES

## (25) "C" SUPERANNUATION FUND

STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
18,402	Members' Contributions	20,844
18,402	University's Contributions	20,844
7,782	Income from Investments	11,663
<u>44,586</u>	<i>Total Income</i>	<u>53,351</u>
	<i>Less</i>	
	EXPENDITURE	
19,713	Refunds on Retirement	11,663
2,951	Refunds on Resignation	—
<u>22,664</u>	<i>Total Expenditure</i>	<u>11,663</u>
<u>21,922</u>	SURPLUS TRANSFERRED TO ACCUMULATED FUNDS	<u>41,688</u>

## (26) GENERAL SUPERANNUATION SCHEME

STATEMENT OF INCOME AND EXPENDITURE  
FOR THE YEAR ENDED 31 DECEMBER 1974

1973 \$		1974 \$
	INCOME	
123,621	Members' Contributions	207,421
246,431	University's Contributions	443,347
71,877	Income from Investments	118,752
11,184	Value of Policies of members transferring from "B" Scheme	9,629
<u>453,113</u>	<i>Total Income</i>	<u>779,149</u>
	<i>Less</i>	
	EXPENDITURE	
1,630	Pensions Payments	1,299
58,479	Lump Sum Payments	62,192
2,469	Premiums on Policies transferred from "B" Scheme	422
<u>62,578</u>	<i>Total Expenditure</i>	<u>63,913</u>
<u>390,535</u>	SURPLUS TRANSFERRED TO ACCUMULATED FUNDS	<u>715,236</u>

(27) CONSOLIDATED BALANCE SHEET  
FOR SUPERANNUATION AND PENSION SCHEMES  
AT 31 DECEMBER 1974

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

\$	1973 \$		\$	1974 \$
		ACCUMULATED FUNDS		
		<i>"A" Superannuation Scheme</i> (Statute 3.6 Sections 9.3 and 18.3)		
102,960		Funds at 1 January 1974	138,823	
<u>35,863</u>		Surplus for the year	<u>39,838</u>	
	138,823			178,661
		<i>"A" Superannuation Scheme— Disability Pensions Fund</i>		
110,459		Fund at 1 January 1974	153,718	
<u>43,259</u>		Surplus for the year	<u>51,647</u>	
	153,718			205,365
		<i>"B" Superannuation Fund</i>		
786		Fund at 1 January 1974	2,738	
<u>1,952</u>		Surplus for the year	<u>1,479</u>	
	2,738			4,217
		<i>"C" Superannuation Fund</i>		
129,176		Fund at 1 January 1974	151,098	
<u>21,922</u>		Surplus for the year	<u>41,688</u>	
			192,786	
		Less Sum transferred to the General Superannuation Scheme	<u>16,230</u>	
<u>—</u>	151,098			176,556
		<i>General Superannuation Scheme</i>		
1,062,860		Fund at 1 January 1974	1,453,395	
<u>390,535</u>		Surplus for the year	<u>715,236</u>	
		Transfer from "C" Superannuation Fund	<u>16,230</u>	
	<u>1,453,395</u>			2,184,861
	<u>1,899,772</u>	<i>Total Accumulated Funds</i>		<u>2,749,660</u>
		<i>Represented by:</i>		
		INVESTMENTS		
1,063,692		Fixed Interest Securities, at lower of cost or par	1,472,503	
<u>631,257</u>		Ordinary Shares, at cost	<u>929,905</u>	
		(Market Value— 31 December 1974 \$532,037 31 December 1973 \$473,371)		
		Property and Mortgage Unit Trusts, at cost	<u>336,084</u>	
	1,694,949			2,738,492
		CURRENT ASSETS		
211,953		University Current Account	16,677	
		Less Members' Contributions on hand at 31 December (await- ing remittance to life offices)	<u>5,509 Cr.</u>	
<u>7,130 Cr.</u>	204,823			11,168
	<u>1,899,772</u>	<i>Net Assets</i>		<u>2,749,660</u>





