In accordance with Section 41 of the Monash University Act 1958, as amended, I submit the report of the council for 1988.

For and on behalf of the council
G H Lush
Chancellor

REPORT OF THE COUNCIL OF MONASH UNIVERSITY FOR THE PERIOD 1.1.88 TO 31.12.88

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THE COUNCIL

Members ex officio

The Honourable Sir George Hermann Lush LLM Melb. — Chancellor
Malcolm Ian Logan BA PhD DipEd Syd. FASSA — Vice-Chancellor

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

Gerard Marshall Vaughan ARMIT DipEd SCV BE MEngSc PhD ARACI MP
Thomas William Wallace MP

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

James Arnold Hancock OBE BCom Melb. FCA AASA
Geoffrey Alistair Knights MA PhD Cantab.
Jan Eric Kolm AO EngChem Prague Tech. Uni. FRACIF AIM FTs
Rachelle Anne Lewitan BA LLB(Hons) Melb.
Helen Marion Nugent BA PhD Qld MBA Harv.
Nigel Wood BEd N.E.

Elected by graduates of the University

Anthony Henry May BEd LLB
Kay Christine Lesley Paterson BA Syd. PhD DipEd MAPS

Elected by the faculties

Marilyn Lee Lake MA Tas. PhD (Arts)
June Margaret Hearm MA PhD Melb. (Economics and Politics)
Winifred McDonell BA MEd DipEd FACE (Education)
Robert John Neil Kinsman BMechE Melb. CEng FIMechE MAustIMM (Engineering)
The Honourable Mr Justice Robert Clive Tadgell LLB Melb. (Law)
Anthony Robert Moore MB MS Melb. MA Cantab. FRACIF FAIM (Medicine)
Hugh Alexander Grayson FMTC CChem FRACIF FIDA FAIM (Science)

Elected by the professors

David Alistair Kemp BA LLB Melb. PhD Yale
William Henry Melbourne BE Syd. PhD DIC Lond. FIEAust FRACS FRGS
Clive Trevor Probyn MA Virginia BA PhD Nott.
Bruce Oswald West BSc Adel. PhD Adel. and Cantab. FRACI

Elected by teaching staff other than the professors

Stella Anne Crossley MA DPhil Oxon.
William Anthony Howard MCom Melb. PhD C'nell
Jennifer Strauss BA Melb.

Appointed by the Minister for Education

Ronald George Ritchie BMechE DipEd Melb. DipMechE Caulfield TC MAdmin FIEAust MACE

Co-opted

The Honourable Joseph Ezra Isaac BA BCom Melb. PhD Lond. FASSA — Deputy Chancellor
Dorothy Ruth Pizsey BA BEd Melb. FACE
Vacant
Vacant

Co-opted from among the deans of the faculties

John Anthony Hay BA PhD W.Aust. MA Cantab. FACE
William Ronald Aylett Muntz BA DPhil Oxon. FRSE
William Angus Sinclair MCom Melb. DPhil Oxon. FASSA
Elected by the non-academic staff
Douglas Raymond Ellis BEc ARMIT

Elected by the students of the University
Sarah Jane Brydon
Ian Thomas Paulsen
Robert Charles Peterson BAppSci SAIT
Secretary: Mr M D Watson

Changes in membership of council during 1988

Members who retired or resigned from office during 1988
Dr P LeP Darvall (non-professorial teaching staff) 1983–88
Mr A C Holmes (undergraduate and diploma students) 1986–88
The Honourable Emeritus Professor J E Isaac (coopted) 1977–88
Mr C J McLeod (undergraduate and diploma students) 1987–88
Professor W R A Muntz (coopted dean) 1987–88
Mr D G Paech (coopted) 1985–88
Mr P A T Williamson (postgraduate students) 1987–88

Members re-elected or re-appointed for a further term of office during 1988
Mr A H May (graduates) 1988–92

Members elected or appointed to council during 1988
Ms S J Brydon (undergraduate and diploma students) 1988–90
Dr S A Crossley (non-professorial teaching staff) 1988–91
Mr D R Ellis (non-academic staff) 1988–90
Professor J A Hay (coopted dean) 1988–89
Mrs W McDonell (Faculty of Education) 1988–90
Mr I T Paulsen (undergraduate and diploma students) 1988–89
Mr R C Peterson (postgraduate students) 1988–89

Vacancies in the membership of council as at 31 December 1988
Three coopted members

The Monash University Council met eight times during 1988, between February and December, with the introduction of a new six-weekly meeting cycle. I chaired each of these meetings.

It was a momentous year for Australian higher education. In turn, we had the VESC discussion paper, Options for the Development of Higher Education Structures in Victoria, the Commonwealth Government’s Higher Education Policy Discussion Paper — the so-called ‘Green Paper’ — and the subsequent ‘White Paper’, culminating in the establishment of the Unified National System of Higher Education. These events heralded the effective demise of the binary system distinguishing between the university and college sectors of tertiary education, and the seeds were sown for the integration of Australia’s sixty-five post-secondary education institutions that will lead, by amalgamation and coordination, to a unified national system of some twenty only major institutions of higher education. Monash will undoubtedly emerge as a significant force in the new system.

Moves were set in train during the year which are likely to see a merger of Chisholm Institute of Technology with Monash University, bringing with it an additional 6000-odd enrolments in engineering, business, humanities and social sciences. Also, Monash entered into an affiliation agreement with Gippsland Institute of Advanced Education in December which will lead within one or two years to University College status and quite possibly full incorporation into the University in due course. This development creates an opportunity for Monash to become involved in the provision of distance education — a provision sanctioned in the Monash University Act 1958 but never pursued. As may be imagined, these developments have taken place within an atmosphere of uncertainty that necessarily accompanies major change. The Vice-Chancellor will no doubt have more to say in this regard in his report.

Monash forged further links with other institutions during the year by entering into affiliation agreements with the National Vision Research Institute, the Plant Research Institute — Burnley, Frankston Hospital, and the Kingston Centre. It is also anticipated that the University will, early in 1989, affiliate with the Australian Management
College, Mt Eliza, paving the way for the award to graduates of that institution of distinctively designated Monash MBA degrees.

As foreshadowed in my last report, the University, by way of the proceedings of a Council committee under my chairmanship, successfully terminated its existing agreement with IVF Australia Pty Ltd relating to the marketing of in vitro fertilisation know-how in the United States and entered into a new agreement providing for the payment to Monash by that company of an annual sum to be applied to IVF research.

At its December meeting, Council received with interest two important documents from the Vice-Chancellor: Resume of Achievements 1988, recording the University’s compliance to date with the prescription set down in its 1987 plan, Monash University — Strategy for the Future; and the 1989 Budget, setting the course for the year ahead within the broad ambit of that same planning prescription.

There was considerable movement within the University’s senior academic ranks during the year. The dean of the Faculty of Arts, Professor J A Hay, was appointed to the new post of Deputy Vice-Chancellor (Academic), while Professor I J Polmear’s post was redesignated as Deputy Vice-Chancellor (Research). The outgoing dean of the Faculty of Engineering, Professor L A Endersbee, was appointed Pro Vice-Chancellor (Special Projects) to assist the Vice-Chancellor in a number of designated areas. New appointments were also made for the deanship of the faculties of Education, Engineering, Law, and Medicine, and moves will be set in train early in 1989 to fill the vacant deanship of the Faculty of Arts.

The need for further funding for erection and maintenance of buildings was emphasised by two matters to which Council was obliged to give attention during the year. The first was the heavy expenditure involved in keeping in serviceable and safe conditions some of the University’s original buildings, of necessity economically constructed. The second was the need to permit the erection on campus of temporary buildings. It can only be hoped that they will be temporary.

Council noted with pleasure awards in the Order of Australia in the Australia Day and Queen’s Birthday honours lists to The Rt Reverend P J Hollingworth AO, Emeritus Professor J D Legge AO, Mrs E R Mahlab AO, and Professor J P Whyte AM, all of whom are former members of Council, and to Ms E Feis AM, director of the University’s Aboriginal Research Centre.

During the year, Council conferred honorary degrees of MSc on Mr Bruce Fuhrer of the Department of Botany, and D Litt on Mr Patrick McCaughey, the former professor and foundation chairman of the University’s Department of Visual Arts. Council also conferred the title of Emeritus Professor upon Professor J P Whyte of the Graduate School of Librarianship and Professor T A Jones of the Department of Music to date from their retirement from the University at the end of the year.

In November, I was elected by my fellow members of Council to a third term as Chancellor, to commence 20 February 1989. Mr J A Hancock was elected to the deputy chancellorship, and I look forward to his support during the next three years.

Lastly I pay tribute to The Honourable Emeritus Professor J E Isaac who at the end of the year stood down from the deputy chancellorship after three consecutive terms, and retired from Council after serving as a coopted member since July 1977. Prior to this, he served the University with distinction as a professor of Economics between 1965 and 1973 before his appointment as a Deputy President of the Australian Conciliation and Arbitration Commission. Professor Isaac’s contribution to Monash has been inestimable, and his wise counsel and gracious manner will be sorely missed on Council.
(in the Faculty of Economics and Politics) attracted Federal funding as key centres for teaching and research. Each of these centres builds on Monash expertise and creates an opportunity for Monash to provide national leadership in an important area.

During 1988 work began on the Science and Technology Park. The work included a major building to be managed by the University and a laboratory for the Commonwealth Serum Laboratories. The success of the Centre for Bioprocess Technology in gaining a major GIRD grant (jointly with the Commonwealth Serum Laboratories) emphasised the importance of the opportunities offered by the Science Park.

We are doing new things to tell young people in secondary schools about Monash. We visited many more schools than we have in previous years and mounted several 'Monash days' when members of our own teaching staff took normal classes with Year 12 students in some of the larger secondary schools. We have also continued our work on the Schools Link Program, visiting schools from which few students have progressed to university. The program's results are encouraging and justify the time and effort we are putting into it.

In accord with our membership of the new Unified National System, we set up a detailed data base for planning student enrolments. The data base projects student numbers by course and by year, taking account of national priorities and reflecting some of our own special skills and experience. It allows us to forecast three years ahead and shows now that we can plan to grow in Engineering, Law, Asian languages, courses related to business, and graduate studies.

Supporting some of the aims of our Strategy for the Future, we put more money, time and hard work into Open Day to meet the great demand among students, parents and the public for information about the University. Our efforts were rewarded with the largest crowd on record.

In this way, as in many others, Monash moved closer to its community. It is strongly placed in 1989 to capitalise on this year's initiatives.

Site and buildings
In 1988, projects completed included the relocation of Buildings Branch Administration and Central Services, restructuring of Administration Offices and the Monash Centre at the new Exhibition Street complex. Work which commenced during the year or earlier and still in progress includes the Monash Science and Technology Park project and construction of the new Microcomputing Laboratory.

Legislation
Five amending Statutes and forty-five new or amending regulations were made in 1988. The regulations included three new Masters degree courses and seven new diplomas. The regulations governing the degree of Bachelor of Engineering were completely re-drafted.

Occupational health and safety
At the beginning of the year the Occupational Health and Safety Committee held its inaugural meeting. During the year this committee began preparation of a number of occupational health and safety policies the first of which, a general OHS policy statement and implementation guidelines, was approved by Council in December 1988.

A series of zone occupational health and safety committees was established throughout the campus and in off-campus locations in such a manner that all staff and buildings are covered by these committees.

The Occupational Health and Safety Branch initiated a number of important hazard assessment surveys including a fire risk management review and a laser use review. The OHS manager collaborated with the Buildings Branch on the risk assessment of the University's laboratory fume cupboards which number close to 400. As a result of these projects the University was successful in obtaining a grant of $1.15 million from the Department of Employment, Education and Training for remedial action on the most urgent items arising out of the fire risk and fume cupboard projects.

More effective case management by the occupational health nurses and the consultant occupational health physician resulted in a considerable decrease, compared to 1987 and 1986, in the number of workplace injuries which led to long term absence from work.

During the year a large number of requests for advice on various OHS matters were dealt with by all members of the branch and a total of eighty-eight workplace assessments were carried out and reported. It was pleasing to see that the services of the branch were in high demand even if this demand placed a strain on resources.

The branch also initiated an extensive training program in basic fire skills which gave the 374 participants who attended hands-on experience of fire extinguisher use. Train-
ing for eighty laboratory, maintenance and security staff was also organised in the use of emergency breathing apparatus. These courses were conducted on campus by the National Safety Council and proved highly successful.

University publishing

The Monash University Publications Committee met on four occasions during 1988. It considered four requests for financial assistance towards the publication of works by Monash authors, agreeing to support three of them. The total funds thereby committed came to $6,739. Actual payments made in 1988 amounted to $6,572, all of this sum arising from commitments made in previous years. During the year there were three volumes published with the assistance of the committee.

The Publications Section produced the customary official publications of the University and provided Monash authors with a variety of publishing services including copy editing, book design and production, and advice on matters relating to negotiations with commercial publishers and printers.

At 3005, the total equivalent full-time (EFT) staff at 30 April 1988 saw a decline to the level of 1985 (3004), after two years of marginal growth (1986: 3023; 1987: 3057). As the numbers of staff classified as teaching and research (957 EFT) and research only (300 EFT) were maintained or rose marginally over 1987 (957 EFT and 286 EFT respectively), the overall reduction reflects lower staffing levels in several other categories.

Tables 1 and 2 illustrate various aspects of the University's staffing distribution at 30 April 1988, as reported to the Department of Employment, Education and Training (DEET).

### Table 1: Equivalent full-time academic staff (excludes research only appointments)

<table>
<thead>
<tr>
<th></th>
<th>Professor/dean</th>
<th>Reader/associate professor</th>
<th>Senior lecturer</th>
<th>Lecturer</th>
<th>Principal tutor</th>
<th>Senior tutor</th>
<th>Tutor</th>
<th>Total</th>
</tr>
</thead>
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<tr>
<td>Arts</td>
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<td>82</td>
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<td>22</td>
<td>206</td>
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<td>Arts</td>
<td>18</td>
<td>14</td>
<td>39</td>
<td>23</td>
<td>2</td>
<td>12</td>
<td>36</td>
<td>144</td>
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<td>Engineering</td>
<td>10</td>
<td>18</td>
<td>39</td>
<td>12</td>
<td>---</td>
<td>7</td>
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<tr>
<td>Law</td>
<td>5</td>
<td>7</td>
<td>23</td>
<td>13</td>
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<td>6</td>
<td>5</td>
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<td>24</td>
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<td>22</td>
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<td>Science</td>
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<td>37</td>
<td>64</td>
<td>27</td>
<td>---</td>
<td>8</td>
<td>14</td>
<td>171</td>
</tr>
<tr>
<td>Other</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>---</td>
<td>3</td>
<td>1</td>
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<tr>
<td>Total</td>
<td>99</td>
<td>135</td>
<td>344</td>
<td>167</td>
<td>3</td>
<td>70</td>
<td>83</td>
<td>901</td>
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<tr>
<td></td>
<td>92</td>
<td>126</td>
<td>346</td>
<td>153</td>
<td>4</td>
<td>61</td>
<td>84</td>
<td>866</td>
</tr>
</tbody>
</table>

During 1988 twelve Chair and three decanal appointments were made. Among the former were four new, three personal and one honorary chair. In addition, two professorial fellows (Professor E W Russell and Professor C Selby-Smith) were appointed to the Graduate School of Management. Professor T C Brown (Social Work), Professor M G Glyne (Personal Chair, Linguistics), Professor D F A Koch (Honorary Chair, Chemical Engineering), Professor P I Rossiter (Materials Engineering), Professor H H Salem (Personal Chair, Medicine), Professor F J W Symons (Telecommunications and Information Technology), Professor T J Triggs (Personal Chair, Psychology) and Professor C R Williams (Dean, Faculty of Law), commenced their appointments in 1988. Professor D N Aspin (Dean, Faculty of Education), Professor B A Barry (Computations Chair of Management), Professor R H Chenhall (Accounting and Finance), Professor H T Cullinan Jrn (Pulp and Paper Technology), Professor R J Pargetter (Philosophy), Professor R Porter (Dean, Faculty of Medicine) and Professor P Zimmet (Diabetes Research), will take up their appointments in 1989.

The recruitment of teaching staff is shown in table 3. Many other offers were made for appointments which begin in 1989. There were also forty-one senior tutors and fifty-two tutors.

Those leaving the University in the year due to resignation, retirement, or expiry of fixed or short-term appointments are shown in table 4. There were also thirty-five senior tutors and fifty-two tutors.

At the end of the year, the title Emeritus Professor was conferred on two retiring professor — Professor T A Jones and Professor J P Whyte.

The University records with regret the deaths of Mr B J Batchelor, Mr W Barker, Dr J G Cunningham, Mr A A Finlay, Mr J Giovio and Mrs E Preston.

The University remains within DEET's 7 per cent limit for staff undertaking outside studies programs.
Degrees and diplomas conferred (as at 31 December 1988)
The following degrees and diplomas were conferred by the University at graduation ceremonies in 1988, the final column indicating the total number of degrees and diplomas awarded since the foundation of the University.

<table>
<thead>
<tr>
<th>Degree and Diploma</th>
<th>Male</th>
<th>Female</th>
<th>Total 1961–88</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>170</td>
<td>407</td>
<td>577 11 552</td>
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<tr>
<td>Bachelor of Arts with Honours</td>
<td>36</td>
<td>68</td>
<td>104 1 944</td>
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<tr>
<td>Bachelor of Social Work</td>
<td>3</td>
<td>28</td>
<td>31 244</td>
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<tr>
<td>Bachelor of Social Work with Honours</td>
<td>—</td>
<td>4</td>
<td>4 191</td>
</tr>
<tr>
<td>Master of Arts</td>
<td>10</td>
<td>7</td>
<td>17 438</td>
</tr>
<tr>
<td>Master of Librarianship</td>
<td>—</td>
<td>4</td>
<td>4 46</td>
</tr>
<tr>
<td>Master of Social Work</td>
<td>2</td>
<td>1</td>
<td>3 21</td>
</tr>
<tr>
<td>Bachelor of Economics</td>
<td>245</td>
<td>201</td>
<td>446 7 095</td>
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<td>Bachelor of Economics with Honours</td>
<td>16</td>
<td>10</td>
<td>26 660</td>
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<tr>
<td>Master of Business Administration</td>
<td>43</td>
<td>10</td>
<td>53 626</td>
</tr>
<tr>
<td>Master of Economics</td>
<td>6</td>
<td>3</td>
<td>9 209</td>
</tr>
<tr>
<td>Bachelor of Education</td>
<td>6</td>
<td>5</td>
<td>11 1 802</td>
</tr>
<tr>
<td>Bachelor of Educational Studies</td>
<td>31</td>
<td>40</td>
<td>71 84</td>
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<tr>
<td>Bachelor of Special Education</td>
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<td>33</td>
<td>39 311</td>
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<tr>
<td>Master of Education</td>
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<td>10 453</td>
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<td>Master of Educational Studies</td>
<td>33</td>
<td>38</td>
<td>71 604</td>
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<td>Bachelor of Engineering</td>
<td>121</td>
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<td>132 1 570</td>
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<tr>
<td>Bachelor of Engineering with Honours</td>
<td>99</td>
<td>13</td>
<td>112 1 834</td>
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<td>Master of Engineering Science</td>
<td>22</td>
<td>5</td>
<td>27 405</td>
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<td>Bachelor of Jurisprudence</td>
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<td>4</td>
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<tr>
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<td>Bachelor of Laws with Honours</td>
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<td>Bachelor of Medical Science</td>
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<td>2 175</td>
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<td>Bachelor of Medicine, Bachelor of Surgery</td>
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<td>92 2 266</td>
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<td>Bachelor of Medicine, Bachelor of Surgery with Honours</td>
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<td>Master of Psychological Medicine</td>
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<td>Master of Public Health</td>
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<td>Master of Surgery</td>
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<td>Bachelor of Science with Honours</td>
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<td>186 3 312</td>
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<td>Master of Environmental Science</td>
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<td>Master of Science</td>
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STUDENT ENROLMENT

The net total undergraduate population increased from 10,495 in the previous year to 10,888. Higher degree enrolments increased from 2,392 to 2,698 and total enrolments of all students from 14,003 to 14,768. Full details on enrolments are given in the table below:

Net enrolments by degree faculty 1988 (as at 30 April)

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| Subtotal                       | 10       | 12  |
The faculty's load increased in 1988 from 2,779 EFTSUs to 3,039.40 EFTSUs. The total load was made up of 2,669.89 OTHD BFTSUs and 369.51 HD EFTSUs. In addition to the target figure, the faculty admitted an additional 51.31 students under the State Government Youth Guarantee Scheme and 17.16 students under the full fee program.

Faculty planning

Many of the planning initiatives of 1987 were put in place during 1988, the priorities reviews undertaken by all departments and centres in the faculty providing the basic data. Thus, the faculty was able to articulate its priorities and strategies within the context of the Monash overall planning exercise. Identifying three areas of conspicuous strength and potential, Australian Studies, Asian Studies and European Studies, enabled the faculty to represent its strengths both to the wider community and to the University as a whole. A most significant consequence of this identification of faculty priorities has been a rapid and coherent growth of inter-departmental and inter-faculty collaboration in the development of new courses and programs.

Probably the faculty's most outstanding achievement during 1988 was the success of the Australian Studies group in winning Monash's first (and, to date, only) Key Centre award for teaching and research. Most of Australia's major tertiary institutions made Australian Studies the highest priority in seeking Key Centre status, so the achievement of Monash's National Centre for Research and Development in Australian Studies was extremely gratifying.

The NCRDAS has already taken some important initiatives, notably the introduction of Australia's first postgraduate course in Australian tourism, a program involving the faculties of Arts, Science and Economics and Politics. A major grant has been made to this program by the Victorian Education Foundation and exciting developments (and additional major funding) are anticipated during 1989-90.
The NCRDAS's success in gaining recognition both within and beyond Monash has been paralleled by the European Studies Centre. Like the Australian Studies group, the European Studies Centre has begun an MA coursework program and received major financial support from the VEF and is looking forward to very significant developments in 1988-90.

The third of the priority areas, Asian Studies, has seen the establishment of the Institute for Contemporary Asian Studies (ICAS). Like the NCRDAS, the ICAS has a coordinating role, bringing together and further developing the wide diversity of Asian teaching and research programs at Monash. Already, ICAS and the NCRDAS have collaborated closely on developing the Australian Tourism course and are expected to play a key role in the further development of tourism studies at Monash.

Honours and graduate students

One problem which emerged from the priorities review exercise of 1987 was the faculty's relatively poor level of honours and graduate enrolments and problems confronting students envisaging joint honours programs. Substantial revision of the regulations governing honours and masters degrees has seen a significant improvement in enrolments in both these areas. Indeed, the intellectual enthusiasm which greeted the introduction of the new masters by coursework regulations led to a large number of new and exiting programs being offered in 1988 and 1989. It is already obvious that coursework rather than thesis is the preferred option of most MA students and it may be that more thesis students will undertake PhDs than has been the case in the past.

The faculty and secondary schools

During 1988, the dean and other members of the faculty made an unprecedentedly large number of visits to schools, outlining the faculty's new priorities, programs and entry requirements. The decision to abolish the old maths or language other than English prerequisite and replace it with a bonus ten marks for all students passing in a language other than English was warmly welcomed in all schools. Indeed, applications for Monash's 1989 Arts intake rose by an extraordinary 1,300, a pattern not reflected elsewhere either at Monash or Melbourne. A further increase in the cut-off points for Monash Arts students is taking them closer and closer to Melbourne Arts' cut-off score. It is worth noting, in this context, that Monash Arts takes almost 45 per cent more school-leavers than Melbourne Arts and that, in 1988-89, for the first time ever, Monash Arts had more first preferences than Melbourne Arts.

Faculty finances

During 1988, the faculty continued its efforts to reverse the financial problems confronting it. The pattern of depending wholly upon freezing academic positions to fund maintenance and equipment has been set aside, as has the disastrous practice of freezing all positions (including Chairs) to cover the cost of incremental creep. A further refinement of budgetary formulae during 1988 saw the indicative staffing profile (70 per cent lecturer, 20 per cent below lecturer and 10 per cent sessional teaching staff) and the 70:30 tenured:untenured ratio augmented by a variable staff:student ratio to account for differences between relatively high-teaching load subjects (such as Japanese, Physical Geography, etc) and relatively-lower teaching load subjects (such as Philosophy, History, etc). A dean's advisory committee on staffing budgets was established to review every departmental allocation and each chairman was interviewed to determine the consequences of the new budgetary arrangements. All staffing allocations were published so that the bases of the allocations were the public property of the faculty.

During 1988, the faculty's finances were aided significantly by funds from the State Youth Guarantee Scheme, overseas fee-paying students, the Victorian Education Foundation, the Commonwealth's Key Centre program and Monash's Academic Development and Research Excellence funds. It is clear that, in these more competitive times, an energetic Arts faculty can succeed in gaining support for at least some of its important initiatives.

Staff

The dean, Professor Hay, announced his resignation from February 1989. He has been appointed Monash's first Deputy Vice-Chancellor (Academic).

Professor Michael Clyne was promoted to a personal Chair in Linguistics, the first such appointment in the Faculty of Arts.

On 31 December 1988, Professors Trevor Jones and Jean Whyte retired from their foundation Chairs in Music and Librarianship, respectively. Professor Whyte was nominated as the first Honorary Research Associate of the National Centre for Research and Development in Australian Studies. Dr Dennis Davison of the Department of English also retired at the end of the year. Professor Peter Spearritt from
Macquarie University and the Research School of Social Sciences was offered the inaugural Directorship of the NCRDAS, his appointment to commence early in 1989. Professor Robert Pargetter, from La Trobe, was appointed to the Chair of Philosophy and Thea Brown to the Chair of Social Work. Unfortunately, after a long delay, the offer of the Chair of Sociology was declined and the Chair has been readvertised. Mrs Mary Maclean was promoted to an Associate Professorship and Dr Conrad Hamann (Visual Arts), Dr Michael Ackland (English), Dr Millicent Vladiv (Slavic Languages), Mr Chris Goddard (Social Work), Dr Nigel Tapper (Geography) and Mr Robert Carew (Social Work) were promoted to senior lectureships.

### FACULTY OF ECONOMICS AND POLITICS

Dean: Professor W A Sinclair MCom MedH. DPhil Oxon. FASSA

Nineteen eighty-eight was a year of expansion for the Faculty of Economics and Politics in terms of both the volume and range of its activities. The faculty was responsive to pressures to provide an increased number of places for Australian resident students and to Commonwealth Government encouragement to admit, in addition, overseas students for payment of a full fee to the University. With respect to the latter the faculty was the first off the mark in the Australian university sector with a small intake of full fee overseas students into the Bachelor of Economics degree in 1987. We have continued to lead the way in this regard by substantially increasing the number of such students into the degree to 140 in 1988. This has been achieved while adhering to standards of entry which are at least equal to the minimum standard of Australian residents. Full fee entry for overseas students has also been extended to other degrees in the faculty and we have identified a quite sizeable demand for suitably qualified students for an MBA degree on this basis.

The faculty also commenced the provision of off-shore education in 1988. Twenty-one students were admitted to the Bachelor of Economics degree program at Sunway College in Kuala Lumpur, Malaysia. Four first year subjects were taught by staff appointed to Sunway College in association with the staff teaching those subjects at Monash. The Sunway College students sat the same examinations as students at Monash with a pass rate comparable with that here and a number of students obtaining results above the Monash average. The successful students will move to Monash to commence their second year of the degree in 1989.

A new degree, the Bachelor of Information Systems, was added to the faculty’s undergraduate offerings in 1988 for the first time since the faculty began its operations with the Bachelor of Economics degree. The Bachelor of Information Systems is an innovative program in which students are sponsored by scholarships funded by a group of businesses and institutions and which includes a substantial component of industry-based learning. The degree marks a heightened emphasis in the faculty on the application of computing systems to business and on the integration of teaching information systems into an education for management. To facilitate this development, a new Department of Information Systems has been established under the chairmanship of Professor M Kreinin of Michigan State University and Professor A Pagan of the University of Rochester.

A major development has taken place in the field of public sector management. The Public Sector Management Institute, established in 1987 as part of the Graduate School of Management of the faculty, has been successful in attracting a grant of over $1 million from the Commonwealth Government’s National Public Sector Management Study Fund, in addition to other financial contributions. The institute now has major concentrations of scholarly expertise in communications and health policy and management under the leadership of Professor Henry Ergas and Professor Chris Selby-Smith respectively. Professor Bill Russell has been appointed to a Chair of Public Administration funded by the State Government and he is supported by the continued association with the institute of Professor David Corbett.

The Graduate School of Management, which is under the Directorship of Professor A H M Fels, has been moving on a number of other fronts. The establishment of a Centre of International Business is a recognition of the need for management education in Australia to be more outward looking than it has been. We also see it as a link with the increased number of overseas students associated with the full fee paying program. A highly successful conference bringing together an outstanding collection of international expertise on management was organised during the year by Dr M C Knowles.

Research work in the faculty has benefited from its being associated with a number of groupings of academic staff in addition to the Graduate School of Management. The Centre of Policy Studies has maintained its prominence as a result of the continuance of its work on key issues of economic policy. A newly-established Centre of Research in Accounting and Finance has enhanced the research performance in that field of study. The Department of Econometrics has been given high international ranking for research into theoretical econometrics led by Professor M L King. Two distinguished visitors who were of particular interest to a number of fields of study in the faculty were Professor M Kreinin of Michigan State University and Professor A Pagan of the University of Rochester.
Nineteen eighty-eight began badly as far as the faculty's relations with the University are concerned. Firstly, after the deans had approved the development of a proposal for a three-faculty key centre for research and teaching in the area of science and mathematics teaching (a bid we now know would almost certainly have succeeded), the proposal lapsed due to lack of cooperation from the departments concerned in Science and Engineering. Secondly, despite the presence in the faculty of the only ARC program grant in education in Australia, a strong proposal from that group of scholars was not awarded by the Vice-Chancellor one of the ten Research Excellence Grants for 1988. Finally, in a list of more than twenty or so significant 'winners' by Monash in 1987/88 prepared to promote the University in the public arena, not one project from Education was mentioned despite the ARC program grant, a major drug education evaluation project, major commissioning in the history of education field, and a number of other externally recognised contributions of the faculty's worth.

The year closed with the news that more staff than ever before had been supported by ARC, by the Monash Research Fund, and a Research Excellence Grant for 1989 was at last given to the science education trio with the program grant from ARC. We had also learnt that the Victorian Education Foundation would support the very important and challenging invitation the faculty had accepted from the Faculty of Engineering to develop and provide semester-long bridging courses in physics and chemistry for students deficient in these subjects, but who were now being sought and welcomed into engineering studies. Finally the day before the University closed we learnt that the bid the Vice-Chancellor had made on behalf of the faculty to host a major initiative in fitness and health education in schools was to be supported by the Victorian Health Promotion Foundation with $680 000 over a three year period.

The months in between these very negative beginnings and positive endings also had ups and downs as the rest of this report will chronicle briefly.

Students
Enrolments in nearly all of the faculty's courses were stronger than in 1987 and there was no difficulty in meeting our target — indeed, like the other faculties, we were over enrolled and this put pressure on a number of staff, notably some of the psychologists and the science methods staff in the DipEd program.

The higher degree programs continued to attract large numbers of students, and it is the strength and quality of these that provide such a distinctive character to this faculty when it is compared with others. Seventeen students completed their PhD studies, a record number for the faculty, and most likely more than a quarter of the national output. In the masters programs thirteen students completed research theses for the MEd and sixty-five completed the coursework and individual project for the MEd Studies.

Teaching
The new initiatives in teaching that I reported last year have all been sustained and the foreshadowed ones did occur. With a school-based program at Scoresby High School and combined and cooperative teaching in the main program (for Teaching and Learning, and for Social Foundations of Schooling) the Diploma in Education course is very different from what it was even four years ago. These reforms largely stemmed from the evaluation and planning conferences involving all the students and staff that were initiated about that time. Enthusiasts are always necessary for effective change, and in this case, the tutors and senior tutors in the faculty are prominent among those whom we should acknowledge and thank.

With great pleasure I report the excellent progress that has occurred this year in relation to the program in the Krongold Centre and its use as a major resource for teaching students in special education and educational psychology. Drs Stewart Sykes and Norman Nettleton are to be congratulated on their leadership of the cooperative work between the Krongold and Elwyn Morey Child Study Centres which, in 1989, will join together as the Monash Institute for Child and Adolescent Studies — an exciting prospect indeed.

Staff
Two Staff who have played very significant roles took early retirement in 1988. Mr Graham Wallington has been the senior technician for many years and has seen us through from some isolated uses of audio-visual and tv equipment to a faculty, almost every part of which is or can be involved with new technologies for teaching, research and administration. I thank him for his loyalty and leadership of a small but essential group of staff. Mr Claude Sironi takes over the leadership after an internal review of the group's work. Mr Wyn Owen has been for many years a central figure in the teaching of psychology for pre-and-post-service teachers and will be sorely missed in this role.

FACULTY OF EDUCATION
Dean: Professor P J Fensham AM MSc Melb. PhD
Brist. and Cantab. DipEd FRACI FASSA ABPsS AAPsS

Doom and Resurrection, a book by the Czech theologian, Hromadka, influenced me greatly as a student. Its title is an apt phrase to associate with my last year as dean of what is still undoubtedly the premier faculty of education among the Australian universities.
He was also for a period subdean, and for a very significant time in the evolution of the MEdSt degree chaired its course committee.

Dr Diana Davis who led the development of post graduate teaching and research in English language with distinction for well over a decade left in November to take up the Chair of English Language Education at James Cook University.

A number of changes also occurred among the general staff and in this group, Mrs Lorraine Elliott's much appreciated efforts as secretary to Professor Richard Selleck and to Group 3, and Mrs Sharon Cook's contribution to the running of the Education Building's affairs and to the enrolment and ongoing concerns of countless students are highlights to note.

Dr Colin Evers and Dr Neville King gained promotion to senior lecturers and, in the strong case presented for each, their contributions to quality teaching and curriculum innovation were very evident. It is pleasing also to report that Dr Richard Gunstone was promoted to associate professor — further evidence that this university-wide, competitive procedure does include serious recognition of quality teaching and professional contributions beyond the university, as well as first rate scholarship. Dr Leo West, a member of HBARU and a continuing collaborator in the faculty's supervision and research, was also promoted at this level.

Projects

Three of the four Academic Development Projects to which I referred last year have developed very satisfactorily. The Monash Parent-Teacher Education Centre continued to offer educational services to hundreds of parents and teachers and is self-funding with a budget of about $100 000 per annum. The School-Based Decision Making and Management Centre attracted several major overseas contracts and strengthened its links with oaceo. Dr Chapman and her assistants are to be congratulated on the balance they have achieved between the domestic and international scenes in their research and developmental work. The feasibility study into a new course in the fields of educational administration and policy that was conducted by Dr Judith Chapman, Dr Lawrence Angus and Mr Vern Wilkinson has been the basis for a major new teaching initiative. Dr Angus and Dr Evers engaged a number of colleagues to prepare the detailed documentation which won approval within and beyond the Faculty for the establishment of a new degree course, the Master of Educational Policy and Administration.

Several other projects gained support in 1988 from ADP. Two of these, explorations of aspects of distance education and of possibilities in the health education field, were not only of interest in their own right to the faculty's developments, but became more widely significant as the university moved to explore relations first with Chisholm Institute of Technology and then Gippsland Institute. As these relations develop in 1989 we in the faculty will be well prepared to optimise the possibilities for collaboration since both these institutions have primary teacher and nurse education and Gippsland-Monash have put in a bid for status as a Distance Education Centre under the rationalisation. A third of particular note is the development of a new diploma course for 1989 in the teaching of English as a second language. Mr Jim Wheeler is to be congratulated on the rapidity with which this development has occurred and the way he responded to, and built on the presence of a large cohort of Chinese postgraduate students in this field.

I also had the opportunity to chair in its first year the emergence of the Monash Language Teaching Centre — a most important and strategic development for the University. Ms Robyn Kindler, a staff member for a number of years in the faculty and a close collaborator with Mr Wheeler in the tescou area, has been appointed director of the new centre and completed successfully the tricky but essential step in gaining elcos status for its programs.

The Alumni Association had its first full year of operation and ran a program of events that attracted modest but appreciative attendances. In November, Dr Paul Gardner and Ms Joan Salman and their enthusiastic committee must have been delighted with the hilarious and joyful evening that marked the faculty's twenty-fifth anniversary, the end of my term as dean, and the launching of a fund to support postgraduate student research. Dr John Theobald became the first staff member to have had twenty-five years service.

Research

I have already mentioned the research of our many higher degree students. Among staff there has been continuation of a high level of research activity and a number of projects have been completed. Staff have increasingly sought and obtained support and funding for new projects, some of which are in quite new directions for the person concerned. For some staff, 1988 saw their first success of this sort in the external arena. These research interests are quite diversified and each year I have highlighted only one or two areas rather than try to present a long catalogue.
Drs Stewart Sykes' and Caroline Grbich's work on adolescent girls with disabilities in relation to the work force is worthy of noting because it is the first substantial project to be associated with the Krongold Centre since its return to the faculty.

Among the books published in the year, *Learning Science* (Blackwells, Oxford) by Professor Richard White, and *Development and Dilemmas in Science Education* (Falmer Press, London) to which the four investigators of the ARC program grant contributed, are indicative of the very high reputation internationally the science education research group has won.

**Conclusion**

1988 has seen the beginning of a number of new and dubiously wise directions in Australian higher education — larger (through amalgamations) universities, corporate funding management as the way to run them, research measured and driven by external funding, and by funding teaching by results. These will loom large on the scene for 1989 and beyond. The little experience I had in the faculty of having to begin to implement such things in 1987 and 1988 raised more concerns that good practices and scholarship may be threatened, than reassurance that they would solve problems that obviously needed remedy. For example, I had begun to see good scholars being deflected from their most effective research because they were 'needed' (as I observed in Britain) to bring in the large funds that were available for less significant (in the longer term) projects. Again, the patterns of widespread participation in decision making that we had developed over more than a decade in the faculty were increasingly impossible to operate as information, responses and decisions were required on time scales that ignored the worth of such practices.

We shall need to remain vigilant to recognise what is important to preserve while being prepared to shed those old practices that are unhelpful and to welcome those new ones that are helpful to continued excellence of teaching and research.

Over the last seven years I have received from my colleagues, both academic and general, much support and encouragement in the many things we have done together. To them, I wish to express my deep gratitude. As I rejoin their ranks I would like to wish my successor, Professor David Aspin, my best wishes and support as he leads us into this very new sort of university scene.

**Deanship**

In March, Professor Lance Endersbee, who had served twelve years in the post, was succeeded by Professor Peter Darvall. The faculty owes a great debt to Professor Endersbee, and much of the recognition and reward enjoyed by the faculty in 1988 is for initiatives taken as a result of his leadership. Professor Endersbee was appointed to the position of Vice-Chancellor (Special Projects) in April. The faculty wish him well in that post.

The CTEC review of engineering

A separate report on the findings of this review has already been submitted to Council. The staff of the faculty can be very proud of their achievements. Some think that it will be difficult to maintain this momentum, but the bustling energy and enthusiasm in the faculty indicates that we may hope to do even better.

Re-accreditation by the Institution of Engineers, Australia

The re-accreditation process, requiring us to provide a great quantity of information about the faculty, followed hard on the heels of the CTEC review. All five departments had their BE degrees re-accredited and provisional accreditation accorded to the combined degrees BE/BEc and BE/LLB. Again, such criticisms as were made will provide incentive for improvement in our courses and teaching methods, though constrained by increasing student/staff ratios.

Semesterisation and unitisation of the BE course

During 1988, the faculty reorganised all its undergraduate and master's courses to be taught and examined on a semester basis in 1989. Passing will no longer be by years, but by accumulation of credit points for individual subjects with a satisfactory cumulative weighted average. The BE course will be much more flexible (and we hope not quite so daunting) as a result. Supplementary examinations and some of the more cumbersome student administrative procedures will be eliminated.
This restructuring required a massive effort by many academics and administrators in the faculty, and their commitment to the project is admired. Associate Professor Paul Grundy had much to do with initiating the changes.

The changes had long been discussed in the faculty, but were finally precipitated by the move to a University-wide semester timetable. There has also been a liberalisation of entry prerequisites, with the intention of attracting a greater number of talented students. Appropriate bridging courses, supported by the Victorian Education Foundation, are also being introduced.

The new arrangements have prompted the creation of an independent data base, accessible through networked PCs in the faculty office, for the selection, charting, and assessment of individual student progress.

New engineering building

One of the greatest difficulties faced by the faculty, and one which has been exacerbated by our success in attracting research funds and scholars, has been to provide office and laboratory space. The need for a new large building was recognised in the early seventies, and has become quite acute since. A group of assessors from DEET could see for themselves how crowded the faculty had become when they visited during the year.

In November the Federal Government announced that one of the approved building projects for higher education was our long-awaited 'Engineering Building 7', which will accommodate mostly the Department of Civil Engineering, allowing a reorganisation of the other departments in the existing buildings. The Commonwealth grant of $5.51 m will be supplemented by funds for the Australian Pulp and Paper Institute and from the University for an examination hall-cum-teaching area, to put together a total building 'package' worth $8.42 m (1988 dollars).

The efforts of the comptroller, Mr P B Wade, and of the manager of the Planning and Analysis Branch, Mr P Beilby, in putting together this package and following through with the representations required, are gratefully acknowledged. Some new space will be a great morale booster for the faculty.

New institute and centres

The University has entered into an agreement with the Pulp and Paper Manufacturers' Federation of Australia for the creation of the Australian Pulp and Paper Institute attached to the Department of Chemical Engineering, to be funded largely by the federation (some $3.5m over 7 years) and also by the University and the Victorian Education Foundation. The institute will conduct teaching and research in pulp and paper technology. This development is a tribute to the vision of the federation and the hard work of Professor Potter and his colleagues, with laudable cooperation from the CSIRO Division of Forestry and Forest Products.

The establishment by the faculty of centres for advanced materials technology, for offshore engineering and for machine condition monitoring were also approved by Council during the year. The Centre for Intelligent Robotics was approved at the end of 1987.

Honours and awards

Associate Professor F Lawson was appointed as a concurrent professor of the Northeast University of Technology, Shenyang, China. (He is also an honorary research professor of the Institute of Chemical Metallurgy of the Chinese Academy of Sciences.)

The Batty Medal of the RACI was awarded to Professor N D Koch. Professor N W Murray was awarded an Honorary Doctorate of Engineering by the University of Essen.

Associate Professor R McPherson and Dr G N Heintze won the Burnshah Award for the best paper at the fifteenth International Conference on Metallurgical Coatings, San Diego, April 1988.

Dr M Walmsley was the winner of the G T Murray memorial prize sponsored by the Institute of Professional Engineers, New Zealand Auckland Branch for the best paper presented by a graduate.

Conclusion

1988 was a year of achievement, change and recognition for the Faculty of Engineering in spite of deterioration in staff/student ratios and decreasing resources per funded student place. The collective goodwill and willingness to do more than a fair share is a most inspiring thing.

These reports inevitably deal mostly with the activities of academic staff. The unsung heroes are the technical, secretarial and administrative staff on whose ingenuity and productivity we so firmly rely. I congratulate all staff who contributed so generously
under pressures and stringencies which at times are quite severe. I respect and admire them.

Some performance indicators 1988

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1Plus one DEng
2Shared with other departments and/or institutions in greater or smaller amounts

Introduction

In the course of 1988, the Faculty of Law sought to advance at least three objectives: (1) to consolidate its position as one of the pre-eminent law schools in this country, (2) to respond to changes occurring both within the University and the outside world, and (3) to prepare the way for sound future initiatives.

In 1987 the CTEC Committee on the Discipline of Law produced its report, Australian Law Schools: A Discipline Assessment for the Commonwealth Tertiary Education Commission. The report reflected very favourably on the Monash Faculty of Law, the majority of initiatives urged for consideration by other law schools being in fact based upon developments that have taken place at Monash. In 1988, a faculty committee chaired by Professor Francis Trindade prepared a response to all aspects of the CTEC report. This response was approved by the faculty board and was presented to the University for transmission to the Department of Employment, Education and Training.

During the course of the year a number of faculty papers were prepared outlining the faculty’s response to the Vice-Chancellor’s document Strategy for the Future (1988). The Research Committee, chaired by Acting Professor Carney, prepared a document Research Strategy which was adopted by the faculty as its basic plan for research development. A paper prepared by Mr Richard Fox, Issues Paper on Teaching, was similarly approved by the faculty as part of its continuing process of reassessment and evaluation of teaching. Mr Arie Freiberg also prepared a paper, Performance Indicators and Faculty Profiles, exploring the issues involved in developing performance indicators suitable for the discipline of Law.

In 1988 the faculty sought to integrate closely its own development within the framework of the general University strategy prepared by the Vice-Chancellor and adopted by the University Council. Thus, in the early part of the year, the faculty’s decision, taken in 1987, not to take full fee paying overseas students, was reversed. Plans to include the faculty within the University’s twinning agreement with Sunway College, Kuala Lumpur, are well advanced. In recognition of the University’s commitment to planned development in selected areas, and in appreciation of the needs of the profession and the aspirations of students, the faculty has increased its intake for 1989 from 300 to 350. The faculty, in conjunction with the University and with Australian Government funding, has set up a National Centre for Cross-Cultural Studies in Law.
Plans are in hand, with the University Computer Centre, for the establishment of a computer laboratory in the Faculty of Law.

I assumed office as acting dean in April 1988, and was appointed dean in October. I have found the past year both enjoyable and immensely satisfying. I am grateful for the support and cooperation I have received from all members of staff involved in the administration of the faculty, and in particular, the assistant registrar (Law), the administrative officers, the subdeans and their staff, my executive assistant and my secretarial staff. I am grateful also for the assistance and support I have received from all members of the University administration. Finally, a particular debt of gratitude is owed to Professor P L Waller who acceded to my request that he become my associate dean. His experience and thoughtful advice has been invaluable in enabling me to negotiate the difficulties inherent in a change of deanship.

Statistics

Actual staff appointments as at 31 December 1988 totalled sixty-five (ie fractional and full-time) academics (including staff on leave without pay but not casual staff). Student enrolments are shown in the marginal table.

Research

The environment for the conduct and funding of research was in a state of flux during much of 1988. Despite the understandable concern on the part of faculty that research in the humanities in general, and the law in particular, would be devalued, there were notable achievements by the faculty during the year.

One of those achievements was in delineating broad areas of research excellence and development within the faculty, in the course of preparing the research profile data required by the Department of Employment Education and Training. Preparatory work undertaken in recent years on such issues as a faculty research strategy document and performance indicators in law, coupled with a strong record of attracting external grants and of publications, found the faculty well placed to undertake this forward planning, and to tie it in with the Monash Strategy for the Future.

Research during 1988 was concentrated in these indicative areas of strength and development. They include work in the fields of: criminal law and administration (including forensic law, criminology, law and medicine and the law of evidence); commercial law (including companies and securities, banking, trade practices, taxation, intellectual property, insurance, restitution, customs and trade law); community law (including social security, family law, civil rights, clinical legal studies, mental health and crosscultural legal studies); public law (including constitutional and administrative law, citizenship law, courts and the judiciary, environmental and planning law); torts compensation and safety law (including occupational safety, prevention and rehabilitation law); and law technology and computing (including industrial property, the impact of technology on the environment and workplace, and computer assisted research aids). External funding in excess of $390 000 was attracted during the year to support aspects of the research program. The bulk of these funds was attracted from the private sector, bodies such as the Victoria Law Foundation and specialist Commonwealth research grant programs.

Overall 1988 was a year of consolidation and planning. Publications and developments in train provide a solid foundation for sustained performance.

Graduate studies

During 1988 the faculty added a fifth general graduate diploma, the Diploma in Legal Studies, to the existing graduate diplomas in Commercial Law, Family Law, International and Comparative Law and Taxation Law. The diploma programs are available to candidates from other disciplines, such as social workers, teachers, accountants and economists. A new specialised masters degree in Taxation Law, also available to non-lawyers, was added to the program in 1988.

In 1988 a total of 251 students were enrolled in the graduate program, including twenty-five from overseas countries. Forty-one candidates successfully completed their courses of study — one PhD, twenty LLMs and twenty diplomas.

Clinical program

The clinical legal education program continues to play an important role in the faculty's curriculum. It was commended in the CRIC report. New staff have been recruited and student support remains high. The change in the University calendar to semester teaching does provide some problems for the summer semester program but staff are considering a number of options for varying the subjects taught over summer.
Law alumni

As a result of an extensive membership drive, the membership of the Monash University Law Alumni Inc. doubled during 1988. The alumni now has in excess of 360 members. This number represents approximately 10 per cent of all Monash University Faculty of Law graduates.

Centre for Commercial Law and Applied Legal Research

Seminar and workshop program

The centre conducted an extensive seminar and workshop program in 1988. The areas covered included taxation, company law, trade practices, banking law, EEC law, alternative dispute resolution and product liability.

The centre also conducted a summer school in February 1988 and organised a number of in-house presentations in Melbourne and Sydney involving its distinguished visitors.

Research prizes

- Coudert Brothers banking law prize: As a result of a national essay competition conducted at the end of 1987/early 1988 this prize was awarded to Ms Dianne Everett. Ms Everett, who is a senior lecturer in law at Macquarie University, was formally presented with the prize of $2 000 by the Chief Justice of New South Wales, Sir Laurence Street, during a dinner hosted by Coudert Brothers at the Sydney Regency on 10 August. Ms Everett’s essay has been published in a monograph form by the Law Press in its Research Monograph Series.

- Commercial law prize: To encourage research and writing in the area of commercial law the centre has decided to offer periodically a prize of $1 000 to the winner of an essay competition in this area. The first such competition was conducted early in 1988 and a prize of $1 000 was awarded to Mr James Elliot for a revision of his honours thesis on freedom of information. It is expected that Mr Elliot’s paper will be published in the Monash Law Review.

Research

- Product liability: Judd Epstein and Aviva Goldman completed for the centre a study of product liability. This project was commissioned by the Victorian Government’s Regulation Review Unit as part of a national examination of Australian law in this area being coordinated by the Australian Law Reform Commission.

- Alternative dispute resolution: Since taking up his appointment at the Equal Opportunity Commission Julian Riekerd has been able to work on this project on a part-time basis only. However, with the completion of a number of interviews in Sydney during August, his research will be completed and it is expected that a draft report will be ready for consideration by the project’s advisory committee early in 1989.

- Australian legal literature index: The centre has currently funded work by Mr Tim Pinos and Ms Rosemary Bunnage to establish a computerised information retrieval system for Australian legal literature. When established, legal practitioners and scholars will have access to the system through Monash University computers. The index is expected to be fully operational early in 1989.

Law library

The law library staff worked under extreme pressure this year, but were nevertheless able to provide the full range of services which the library’s clientele have come to expect. In the second half of the year, four long-serving members of staff resigned, and injuries reduced the level of staffing by one and one half positions for over three months. During the librarian’s absence on long-service leave, Rosemary Bunnage and Mary-Ann Kelly served as acting law librarian, and acting deputy law librarian respectively. Unfortunately, because of the faculty’s summer teaching program, library staff do not enjoy the easing of pressure experienced by the other branch libraries during the summer ‘vacation’. It is a matter of some concern that no allowance has ever been made for this factor, in determining the library’s staff establishment.

The establishment of LINK (Lawyers’ Information Network) has given the library the opportunity to make its indexing services available online to both Monash students and staff and to external users who are subscribers to the LINK network. The new service, ALLI (Australian Legal Literature Index), has been developed by Rosemary Bunnage with the assistance of Tim Pinos and the Computer Centre. Mary-Ann Kelly is responsible for the current indexing. Access to ALLI will be free for Monash users, and its availability through a terminal in the library will take some of the pressure off the library’s reference staff.
Monash University Law Review

Volume 13 (Nos 3 & 4) of the Law Review was published early in the year. The volume contained three of the plenary session papers delivered at the 1987 AULSA Conference hosted by the Faculty of Law. Volume 14 (Nos 1 & 2) has just been published. Planning is under way for a special anniversary issue to celebrate the twenty-fifth anniversary of the Law School in 1989. The student editors of the Law Review during the year were Graham Thomson and Eric Windholz. H P Lee and Marilyn Pittard continued to serve as the faculty advisers.

Wilfred Fullagar Memorial Lecture

The seventeenth Wilfred Fullagar Memorial Lecture was delivered by Professor R M Goode, OBE (Director, Centre for Commercial Law Studies, Queen Mary College, University of London, and Commonwealth Banking Corporation Visiting Professor in Banking Law) on 9 August 1988. His lecture was entitled The codification of commercial law.

Faculty professional activities

The faculty continues to be strongly represented on professional bodies both at an international, national and state level.

- Professor Enid Campbell: *Constitutional Commission (till 30 June); *Executive Committee, Academy of Social Sciences in Australia; *Chair of Law Electoral Committee, ANU.
- Associate Professor H B Connell: #Disciplinary Appeal Board of Australia Post and Telecom; Council to Commission of Inquiry on Nauru (till June).
- Mr R G Fox: Consultant to the Victorian Law Reform Commission.
- Associate Professor L McCredie: *(Vic.) Council of Legal Education, *Academic Course Appraisal Committee of COLE; *Council of Leo Cussen Institute; #Disciplinary Committee of the Victorian Curriculum Assessment Board; Snr Vice-President, Board of Management Victorian Royal Institute for the Blind.
- Dr C G Powles: *Springvale Legal Service Board of Directors; *Monash-Oakleigh Legal Service Management Committee.
- Professor M C Pryles: *International Trade and Business Committee Law Council of Australia; *Law Institute of Victoria; *American Law Institute; Adviser on International Disputes Resolution to the Australian Centre for International Commercial Arbitration.
- Professor P L Waller: #Standing Review and Advisory Committee on Infertility; Part-time Commissioner, Law Reform Commission of Victoria; *Victoria Law Foundation and Executive Committee; *Walter and Eliza Hall Institute of Medical Research, Ethics Committee.
- Professor C G Weeramantry: Vice-President, International Association of Lawyers Against Nuclear Arms (IALANA).
- Professor C R Williams: *Mental Health Review Board.

*Member
#Chair

Students

The total number of EFTSU in the Faculty at 30 April 1988 was 1 658. There were 863 medical undergraduates distributed as follows: Year 1: 156; Year II: 145; Year III: 134; Year IV: 141; Year V: 141; Year VI: 145.

Staff

Staff comprised 206 members of academic staff, 155 technical staff and sixty-four clerical staff. Clinical teachers included some 200 visiting medical staff and 106 full-time hospital staff in affiliated hospitals and approximately 350 general practitioners.
Honours and distinctions

Professor BG Firkin was awarded the inaugural Pitney Travelling Fellowship of the Haematology Society of Australia. The fellowship involves Professor Firkin in lectures and seminars in the various States of the Commonwealth.

Professor RV Short was awarded an Honorary Doctorate of Science by the University of Guelph in Canada.

Professor GD Thorburn was appointed a Christensen Visiting Fellow at St Catherine’s College, Oxford, for the period April-June 1989.

Dr AO Trounson was invited to deliver the opening lecture for the twenty-fifth anniversary of Organon’s involvement in medical research in Amsterdam on November 4, 1988.

Professor EC Wood was awarded the third International Axel Munthe prize in reproduction. The prize is considered one of the most prestigious international awards in the field of reproduction.

Postgraduate courses

The following short postgraduate courses were conducted by the faculty in 1988:

- Understanding the menopause and its consequences (Centre for Reproductive Biology); annual public lecture ‘Sex and society’ (Centre for Reproductive Biology); Vasectomy and its reversal (Centre for Reproductive Biology); Contraception today (Centre for Reproductive Biology); Pre-part 1 in obstetrics and gynaecology (Centre for Reproductive Biology); The infertile couple (Centre for Reproductive Biology); Cot death: what do we know in 1988? (Centre for Reproductive Biology); STD’s spreading the word and not the disease (conducted jointly with Family Planning Association of Victoria) (Centre for Reproductive Biology); NHMRC workshop on the menopause and related issues (Centre for Reproductive Biology); Recombinant DNA techniques workshop (Department of Microbiology); Understanding modern biotechnology (Department of Microbiology); Microbiological techniques workshop (Department of Microbiology); Back pain and spinal manipulation (Department of Community Medicine); Monash University international refresher course, Port Douglas (Department of Community Medicine); Introductory research workshop (Department of Community Medicine); Scoliosis anti-smoking workshops (Department of Community Medicine); Monash Medical Faculty annual update course for general practitioners (Department of Community Medicine); Ethical problems in medicine (Departments of Medicine and Surgery); Psychoanalysis — individual, group, organisation (Department of Psychological Medicine); Psychoanalytic psychotherapy: theory, practice, research (Department of Psychological Medicine); Psychoanalysis and psychopathology (Department of Psychological Medicine); The communicative approach to psychoanalytic psychotherapy (Department of Psychological Medicine); Introduction to Freud (Department of Psychological Medicine).

Teaching hospitals

- Kingston Centre: The centre has been available to the faculty for undergraduate training in geriatric medicine for several years but the relationship between the University and centre was formalised through the completion of an agreement of affiliation in 1988. The opportunity now exists for the University to take part in regional planning for care of the elderly in association with Caulfield Geriatric and Rehabilitation Hospital and the Kingston Centre.

- Monash Medical Centre: Shortly after the new centre at Clayton was commissioned the need for further beds became obvious. Planning for the relocation of Prince Henry’s Hospital and University departments of Medicine, Surgery and Psychological Medicine is at an advanced stage. An externally funded Chair of Developmental Psychiatry has been established and the appointee will also hold appointment as director of a centre for developmental psychiatry.

- The Agglomerated Alfred, Royal Southern Memorial and Caulfield Hospitals: An extensive reorganisation of service units is underway permitting the establishment of a trauma centre and a heart transplantation unit at Alfred Hospital. Following its successful appeal it is expected that a cancer centre including a second principal radiotherapy centre will also be established at Alfred Hospital and all facilities for the establishment of a professorial unit including office, teaching and research accommodation for academic and support staff are to be provided at the hospital by the Health Department Victoria.

- Heatherton Hospital: Although not yet formally affiliated with Monash University, following an agreement between Monash University and the Office of Psychiatric Services in the Health Department Victoria a Chair of Psychogeriatrics has been established at the hospital and advertised. The professor will hold appointment as regional director of Psychogeriatric Services.
• **Frankston Hospital** During 1988 the board of management of the hospital formally agreed to enter into negotiations with Monash University directed towards affiliation, subject to resources being made available by the Health Department Victoria for the establishment of a clinical school. Together with the Monash Medical Centre and the Dandenong and District Hospital, Frankston Hospital will be involved in the establishment of integrated regional services in various specialty areas.

• **Dandenong Hospital** As with Frankston Hospital, Dandenong Hospital will require support from the Health Department Victoria in establishing the physical facilities required for the establishment of an effective clinical school. Both hospitals have included in their hospital agreement submissions to the Health Department estimates of the funding needed for this purpose.

• **Box Hill Hospital** In 1988, in preparation for implementation of a new affiliation agreement with effect from 1 January 1989, the hospital released accommodation to University departments of Medicine, Surgery and Community Medicine in addition to space already occupied by the Department of Obstetrics and Gynaecology. Student residential and common and locker room accommodation was also made available. Funding for an externally funded Chair of Medical Oncology, for an associate professorship in Community Medicine, and part-funding for a Chair of Medicine has been provided by the hospital which is also proceeding with the construction of a lecture theatre and new library.

• **Mont Park Psychiatric Hospital** Following agreement with the Office of Psychiatric Services for the establishment of an externally-funded Chair of Forensic Psychiatry at Mont Park Hospital, where the professor will also hold appointment as director of Forensic Psychiatry Services, it will be necessary for the University to enter into an agreement of affiliation with the hospital where all facilities for the establishment of a professorial unit are to be provided by the Health Department Victoria as in the case of Heatherton Hospital.

**Report of the Committee of Inquiry into Medical Education and Medical Workforce**

The report is a comprehensive one and is likely to have a far reaching influence on undergraduate and postgraduate medical education. Recommendations of immediate interest to the faculty include retention of present levels of intake into medical schools, within a further review in five years’ time, and a formalised involvement by the University in intern and post-intern training. The problem of funding for clinical schools in teaching hospitals which had been addressed in the faculty submission to the inquiry has also received attention from the committee.

**Research funding**

Funds obtained by the faculty in 1988 for new and continuing projects totalled $8 140 135, comprising $3 898 233 from the NHMRC, $446 578 for ARCS, $319 033 from the University Special Research Fund and $3 476 291 from other sources. In addition the faculty received $60 000 from the University Academic Development Fund and $290 000 from the University Research Excellence fund.

**Student numbers**

Following the trend of the last few years, the total faculty student enrolment increased again in 1988 to 2 631 from 2 582 in 1987 and 2 343 in 1986 (expressed in EFTSs). The 1988 figure includes the faculty’s first intake of full-fee paying overseas students, although there were only seven of these, and also a total of sixty-nine students admitted and funded under the State Youth Guarantee Scheme. The State Government has now funded students under the latter scheme for the last three years.

The increase in student numbers is confined to undergraduate students, the graduate student numbers having remained virtually unchanged. As referred to in my last report, the faculty accepted a record number of new students in 1987, which severely tested our capacity barriers, particularly in terms of laboratory space. The wave of new 1987 students moved into second year in 1988 and encountered a number of newly-imposed second year subject quotas, predominantly in the biomedical sciences. The potentially difficult situation was, fortunately, diffused quite effectively by the introduction of a new major second year subject, Genetics 203, into which subject about 100 students enrolled, thus releasing pressure on subjects in allied fields.

In spite of the increased 1988 enrolment target, the 1987 peak intake flowing through to second year restricted the faculty to enrolling somewhat fewer first year students in 1988. As previously reported, however, and now even more keenly felt...
since the Government announced its plan to expand undergraduate student numbers further, there is considerable concern in the faculty in regard to the pressure to enrol more and more students. Whilst the faculty should be able to take all the students its 1989 target suggests, it is quite possible that it simply will not have enough laboratory places in areas such as Chemistry and Biology to cope with the first year numbers that could be expected already in 1990 or 1991, if the Government enunciated expansion plan is followed. It is now urgent to consider the ramifications of such expansion. Do we simply insist that we cannot take any more students until we have had substantially augmented funding to extend our laboratory facilities? Or, do we attempt to radically change work practices — eg, by running more out-of-normal hours practical classes? Perhaps we should restructure the BSc program so as to reduce the number of laboratory hours taken by the students? It is important for the future of the faculty, the future of our students and even for science itself that we make soundly based academic judgements in this matter, but we must also be prepared to be realistic about budgetary limitations.

Undergraduate teaching

**Genetics 203**

Only one new subject was added to the range of subjects offered by the faculty in 1988, namely Genetics 203. The Department of Genetics has offered a third year major subject for many years, but with the great increase of genetic knowledge and the impact this is sure to have in biology, medicine and industry, the department felt the need to propose that the discipline be taught in the form of a major second year subject. Whereas it had been estimated that the subject would attract some forty to fifty students in the first year, it proved much more popular, with 101 students enrolled as at 30 April. As outlined in the section on student numbers, the new subject absorbed a lot of biologically inclined students who otherwise would have chosen subjects with capacity problems at second year level, such as biochemistry, chemistry, microbiology and physiology.

Moves towards semesterisation and course restructuring

Following the decision at University level to introduce a semester based calendar format as from 1989, quite a deal of discussion took place in the faculty during 1988 on the possibility of the faculty moving to a 'true' semester system and the implications of this. In order to achieve a greater degree of coordination across the faculties than has hitherto been the norm at Monash, a central University committee was also set up to look at the University-wide implications of moving to a semester based on a points system.

Within the Faculty of Science, however, little concrete progress was made in relation to this issue during the year, possibly because the move to a semester system was associated with a couple of different proposals aimed at restructuring the BSc course. By the end of the year, I had come to the conclusion that the faculty needed to address the issues in two stages: firstly we should endeavour to simply translate the current course structure into a points based structure which can operate on a semester basis; secondly, after sorting out the implications of the first move, we should look seriously at the structure of the BSc program, with a view to responding to changing circumstances.

In terms of restructuring our undergraduate teaching, it may be desirable to offer several discernible streams of BSc studies, with or without distinguishing titles. If we were to do this, we could better manage the flow of students to ensure that places were filled where we have spare capacity, which would maximise the use of established resources and minimise the need for unpalatable subject quotas which now face students admitted to the BSc course. It would also appear likely that the offering of separate BSc programs might aid the 'marketing' of our programs, both in terms of attracting full-fee overseas students, and as high quality as possible Australian students.

Other teaching developments

During 1988 the faculty was involved in discussions with the Faculty of Engineering in regard to that faculty restructuring and semesterising its offerings, to be effective as from 1989. Several changes to the chemistry, mathematics and physics service courses were agreed, primarily at departmental level. Discussions took place and arrangements were made for the launching of special bridging programs in the abovementioned disciplines to assist Faculty of Engineering students who no longer would need to have complied with the full set of prerequisites which for so long had been required by that faculty. The faculty also assisted the Faculty of Engineering in assessing the viability of the relevant service subjects being offered at Sunway College in Malaysia. The possibility of selected BSc subjects also being offered at the above college, to enable prospective Malaysian students taking the first year of a BSc course in Kuala Lumpur prior to coming to Monash in the second year, was investigated. However, at this stage,
given the current relatively difficult employment market in Malaysia for science graduates, it was eventually agreed to leave the idea in abeyance for the time being.

Graduate teaching and research

Master of Biotechnology

This new coursework higher degree program attracted a small first intake of students who commenced late in 1987. Towards the end of 1988, a couple of students had completed all course requirements and should be able to graduate early in 1989. The course, which aims to provide interdisciplinary training in biotechnology, is controlled and coordinated through the Faculty of Science, but it is based primarily on expertise and other resources available in the faculties of Engineering (Chemical Engineering) and Medicine (Biochemistry and Microbiology), with a small input from the Department of Genetics. Teaching support and other assistance is also coming from the CSIRO (Division of Biotechnology).

Apart from special funding from the University Academic Development Fund, the course also attracted, during 1988, a three year grant from the Victorian Education Foundation, totalling $210 000. The 1990 and 1991 portions of this grant are conditional upon further industry support being secured for the course.

On the basis of a survey of the first cohort of students, and on the experience gained by the teaching staff, the course structure has been modified somewhat, ready for a new intake of students to begin in late February 1989. The administrative and legislative provisions for the course have also been reviewed and it is expected that the course regulations will be amended accordingly, early in 1989.

New teaching/research centres

In July the faculty supported a proposal to establish a centre for professional psychology, primarily aimed at facilitating interdisciplinary research and professional training in areas of professional psychology. Whereas the centre was envisaged more naturally to be affiliated with the Faculty of Medicine than with Science, it would involve several members of staff of the Department of Psychology as well as staff from the Faculty of Education. The new centre would initially be supported by an Academic Development Fund grant and outside funds.

A proposal to establish a Monash centre for dynamical meteorology was accepted by the University late in the year. The intention is that the centre be established as a teaching and research group to provide a strong identity and a natural base for further developing the Monash interactions in this area with the Bureau of Meteorology and the CSIRO Division of Atmospheric Research. The centre would be based primarily on the Geophysical Fluid Dynamics Group of the Applied Mathematics Section of the Department of Mathematics, which has evolved as a teaching and research group with increased emphasis in dynamical meteorology. Some input from the Department of Geography and other physical sciences departments could also be expected.

The faculty board also recommended the establishment of a centre for computational mathematics, which will provide a focus and identity for research, consultancy and possibly short courses in this area. The centre will partly provide a resource which can assist University research workers with a range of physical problems, but it will focus on the mathematical and computational problems underlying the numerical solution of such problems. The centre would also seek to provide support for, and report on, the acquisition of computing equipment suitable for handling complex physical problems. It is expected that the centre will attract outside grants and that it will provide consultation services and short courses on a fee paying basis. In the last few years quite a number of new centres have been established in the University. Their organisational integration into the University structure has been under consideration by the Committee of Deans. It is clear that their aims and purposes vary and that their organisational form and status cannot follow the one mould. It is, however, important to define, perhaps differently from case to case, how a centre would relate to the rest of the University fabric — ie, to the departments and faculties, how it should be placed in competing for any University resources — eg, equipment, scholarships, and whether or not it should be able to run award courses and enrol students, etc.

Research support

The table below shows the funds received from the ARC, the Monash Special Research Grant Scheme and from other, external, sources during 1988. Additionally, the faculty also received research funding support from the new University Research Excellence Fund and the Vice-Chancellor's Academic Development Fund. In terms of faculty research activity the total support from these sources was $190 000 for the 1988 calendar year.
### Staffing

Continued budgetary constraints have ensured that there have been no significant changes in the overall staffing numbers of the faculty, in spite of the increases in recent years in student numbers.

Action was taken during the year to fill three Chairs, two associated with the reorganisation of Biology within the faculty and the other in Applied Mathematics. It is anticipated that the vacancies, only one of which represents a new Chair, will be filled during 1989.

In mid-year, the role of associate dean was assumed by Professor W A Rachinger, upon completion of the now customary period of three years in this post by Professor B O West. Both Associate Professor I D Rae and Dr D R Irvine continued during the year in their respective roles of chairman of the Committee on Undergraduate Matters and chairma of the Committee on Graduate Matters. The office of subdean was replaced by a half-time position of academic adviser, which was filled by Mrs N H Williams who had previously served as subdean for a few years.

### Biology reorganisation

Following discussions initiated in 1987, and meetings of relevant groups of academic and other staff, aimed at rationalising and strengthening teaching and research in the biological sciences within the faculty, Council approved a recommendation from the faculty board in September 1988 for the reorganisation of the faculty structure concerned with biology teaching and research.

The recommendation provided for the emergence of two new departments, namely a Department of Botany and Zoology and a Department of Genetics and Developmental Biology, out of the previous three departments: Botany, Genetics and Zoology. As part of the plan the University also approved the establishment of a new Chair of Developmental Biology which would be advertised along with an existing Chair vacancy in Botany. The new organisational model is seen to respond to needs for increased activity in the general field of molecular biology, without sacrificing the longstanding Monash interest in 'whole-organism' biology. The viability of teaching and research in the biological sciences concerned would be enhanced and the task of attracting and holding high quality staff is anticipated to be easier as a consequence of the reform.

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The Computer Centre experienced a generally successful year in 1988 with the computing facilities provided to the University for the most part meeting the demand for services, the exceptions involving undergraduate courses as the deadlines for assignments approached and research computing as the VAX 8700 became fully loaded. The outstanding events for 1988 were:

- the decision to acquire the UNISYS PALS system for the library,
- the introduction of networked personal computers for teaching computing,
- extension of the undergraduate computing laboratory by some sixty places for workstations,
- arranging for the acquisition of personal computers for laboratories in the faculties of Economics, Law and Education,
- the ordering of some sixty Apple Mac computers and 130 personal computers for extending teaching facilities in 1989,
- the establishment of a computer imaging laboratory in collaboration with Earth Sciences using Apple Mac II computers with colour graphics and associated equipment.

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**THE COMPUTER CENTRE**

Director: C J Bellamy BE N.Z. PhD Syd.
the commencement of typing and introductory courses for undergraduates on a fee-paying basis,

- the provision of access to Leading Edge's Cray XMP supercomputer on favourable terms and access to the Fujitsu VP 100 supercomputer at the Australian National University,

- decommissioning of one third of the n7800 computer system and

- planning for the introduction of computing to the first year Engineering course in 1989.

Staff of the Computer Centre collaborated with staff from the library to seek tenders for and evaluate commercially available computer-based systems for the library. This turned out to be a time-consuming undertaking, involving travel to the United States of America to evaluate some of the systems tendered. After a very thorough evaluation, the decision was made to purchase the PALS system from UNISYS. The computer is to be delivered in April 1989 when the process of conversion from the existing systems running on the n7800 and VAX computers will commence. It is expected that the online public access catalogue (OPAC) will be accessible to patrons of the Monash libraries through computer terminals in the libraries and via the MONET network by the middle of 1989. The full facilities of the PALS system will not be operational until early in 1990. The project will have a major impact on the activities of the centre. It introduces yet another make and model of computer to be supported and requires a significant amount of installation and testing work. Removal of the library's computing from the n7800 computer is an important step toward getting to the point where the n7800 can be decommissioned or at least replaced by a much smaller computer which will be less costly to operate. The introduction of PALS will also free some VAX computer resources to be used for other purposes.

Personal computers were introduced for teaching at the beginning of 1987. While they were generally successful, they were not without their problems, the main ones being the difficulty in providing students with copies of the software and data they required while at the same time making sure that the terms of licences were not violated. The fifty personal computers made available for student use by the centre in 1987 provided good reason for staff to note the advantages of multiuser computers which provided for access to common files and have good operating system services. It rapidly became clear that there were significant advantages to be gained from interconnecting sets of personal computers using thin-wire Ethernet technology to link them to computers which held common files. This was done at the beginning of 1988. After resolving a number of technical difficulties and developing software to provide access to shared printers, the Novell networking software was used successfully.

The state of computer technology and the price of equipment makes it clear that networked personal computers and more elaborate 'workstations' will provide the basis for much of the computing carried out at Monash in the future. One problem which this development brings with it is that there is no convenient way to record who is using equipment and for how long. Consequently our current system of accounting for the use of multiuser computing facilities no longer gives a complete picture of the way in which the University's computing resources are being used. After calling for tenders for personal computer workstations at the end of 1988, some 130 UNISYS personal computers (IBM AT compatible EGA graphics) and fifty-six Apple Mac Plus computers were ordered before the first semester in 1989.

The problem of providing additional space for the Department of Computer Science was solved by the Faculty of Science amalgamating funds from a number of sources and constructing a building extension. The centre contributed $100 000 to the project in exchange for additional space adjacent to the ground floor of the undergraduate computing laboratory. About thirty of the additional places available for workstations have been allocated for Apple Mac Plus computers and the remaining thirty will be used for more advanced workstations to be acquired during 1989.

As demand for personal computers to be used by students in 1989 exceeded by far the ability of the centre to provide them, faculties were asked to consider an arrangement whereby they contributed about one third of the cost of personal computers to be located in space provided by the faculty. As a result, laboratories were planned for 1989 for the faculties of Economics, Law and Education. The arrangement provides for the Computer Centre maintaining and supporting the laboratories as a facility accessible to members of the University as a whole, but with the faculty concerned and its students having first call on the laboratory to which it has contributed. It is expected that this policy will be followed in developing additional facilities in other faculties.

The use of computers for processing images in colour captured initially by photography or on video tape has become important to a number of disciplines. Following an approach by the Department of Earth Sciences, which had been using Apple Mac II computers and colour graphics for recording, analysing and generating images, the centre agreed to collaborate in setting up a computer-imaging laboratory located in the department and to be accessible to staff from other departments. When fully oper-
support academic activities. The rise in the cost of consumables is partly a consequence of the timing of major orders for paper stock.

Monash has not been able to afford to buy a supercomputer or even a machine of reasonably high performance which would provide a world standard tool for those researchers with large scale computing problems. To try to compensate for this in the past, some computer time has been purchased on the csiro’s Cyber 205 computer and used with mixed success. The remoteness of the machine and poor data communication facilities have been major obstacles. The installation of a Cray xmp supercomputer by Leading Edge in Melbourne provided the opportunity to install a 48 kilobit per second data communication link at a reasonable cost, to provide direct access from vax computers at Monash to the Cray computer. In addition, provision has been made in the centre’s 1989 budget to buy approximately $40 000 of computer time at favourable rates. A boost to large scale computing came from the Australian National University which allocated some sixty hours of time on its Facom VP 100 supercomputer to Monash free of charge.

After almost nineteen years of relying on computer equipment and software provided by Burroughs (now unisys), the University is working toward phasing out its Burroughs computing service. The load on the n7800 computer has been reduced substantially by organisational changes, allowing all teaching and research activities. It will be further reduced when the library moves to using the unisys PALS system (which operates on a computer of Sperry/Univac origins). So far there are no firm plans to introduce an alternative to the mars accounting system which runs on the n7800 but the reduction in load on the system has allowed about one third of the machine to be taken out of service to save power and provide space for the new computer for the library.

A new and substantial demand for computing resources arises in 1989 with the introduction of computing to the first year Engineering course which will involve some 500 students taking a one semester subject equally divided over the two semesters. This is to be catered for by using networked personal computers (unisys IBM AT compatible with EGA colour graphics) which were ordered at the end of the year.

The possibility of the University amalgamating with the Chisholm Institute of Technology and the Gippsland Institute of Advanced Education led to a joint submission being made to DESERT for $1 143 000 to provide the computer facilities needed to operate a common library system plus high speed data communication links for voice, data and video communication between the three main campuses. Analysis of the needs of the three institutions showed that amalgamation would result from the amalgamation made it clear that there were economies to be achieved through the use of some common computer facilities and adequate communication services. This applied whether the three institutions formed a closer working relationship or were fully amalgamated. Should amalgamation proceed, the centre anticipates a need to invest a significant amount of effort to rationalise computing facilities and services.

A total computing budget of $2 997 200 (non discretionary funds) was distributed to departments for the purchase of computing services from the centre. All departments received the allocations requested. The allocation was approximately the same as for 1987. It should be noted that the allocation makes no allowance for the use of the networked personal computers in the computing laboratories supported by the centre which account for a significant growth in the amount of computing.

<table>
<thead>
<tr>
<th>1987</th>
<th>1988</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries and associated costs</td>
<td>1 758 123</td>
</tr>
<tr>
<td>cisro computer time</td>
<td>2 729</td>
</tr>
<tr>
<td>Cray xmp computer time</td>
<td>9 827</td>
</tr>
<tr>
<td>Consumables</td>
<td>178 170</td>
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<tr>
<td>Equipment purchased</td>
<td>1 202 872</td>
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<td>Software</td>
<td>55 948</td>
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<td>Building and site work</td>
<td>101 620</td>
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<td>450 365</td>
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<td>62 301</td>
</tr>
<tr>
<td>3 242 136</td>
<td>50 716</td>
</tr>
<tr>
<td></td>
<td>2 746,689</td>
</tr>
</tbody>
</table>

The marginal table shows the breakdown of the expenditure of the centre in 1987 and 1988 into a few broad categories.

The large increase in the cost of software is accounted for partly by the acquisition of an Ultra licence for the vax 8700 to allow the mosis and iris systems to be run on that machine and partly by the growing demand for a more extensive range of software to support academic activities. The rise in the cost of consumables is partly a consequence of the timing of major orders for paper stock.
The $101,620 for building services and construction includes $100,000 as the centre’s contribution to construction work for the Faculty of Science, through which it gained a sixty seat extension to the undergraduate computing laboratory. This amount was met from recurrent funds as an accounting convenience to offset recurrent funds received for maintenance services.

Delays in ordering a computer system for the library resulted in a reduction in the amount spent on equipment from $1,202,872 to $450,365 though there was an amount of $929,156 which was committed but unspent at the end of the year, making the total spent or committed $1,379,521.

The Computing Research and Development Fund gained income from the sale of computer time on the P7800 computer, an activity which has now ceased. Unfortunately an alternative source of income to the fund has not been found. Though a total of $228,200 was allocated to research and development projects over a three year period, no projects have got to the point where they have yielded sufficient income to make a contribution to the fund.

The centre continued to invest effort in the further development of the MONET local area network. By the end of the year the design of new equipment to provide 19,200bps asynchronous communication channels and a number of other facilities had been completed and production prototype equipment was operating. The new equipment will allow the MONET system to be progressively upgraded to meet new requirements and its life extended for a number of years. It will also position the centre to embark upon the development of communications equipment which will take advantage of the Telecom Integrated Subscriber Data Network (ISDN) and interface to the University’s Plessey PABX. Unfortunately, the efforts of Racal Electronics in the marketing of MONET have not been very successful and the commercial prospects of MONET in that area are not encouraging. Perhaps ironically, at the time when MONET’s commercial prospects are waning, patent number 572511 was awarded to the inventors in September 1988.

Work continued on the development of a Telephone Information Management System (TIMS). Sufficient components of the system have been completed to meet the basic needs of the University and several other organisations which also use the Plessey ISDN PABX. Without the funding which would come from early commercial support for the project, progress has been slow, being determined by the amount of time otherwise busy staff have been able to allocate to it. Work will continue with a view to completing a commercially viable product in 1989.

The centre has for many years worked on aspects of timetabling and the allocation of students to classes to minimise clashes. An acute awareness of the University’s problems in allocating space and constructing a satisfactory timetable led to some time being spent in assessing the feasibility of developing a computer-based system for generating timetables for both the normal teaching activities and examinations. Substantial progress is expected to be made on this in 1989.

The year saw many changes to the administration of the Library. Mr Brian Southwell retired in June, 1988, after serving Monash University Library for twenty-seven years, of which sixteen were as University librarian. The University owes a debt of gratitude to him for his contributions to the development of what is arguably one of Australia’s finest academic libraries.

I assumed office on 5 September 1988 and one of my first tasks was to undertake a management review, with the primary objective of increasing the effectiveness of the library’s services to the University community through better coordination of activities and fairer distribution of library resources. This reorganisation coming at the same time as the general staff salary classification review placed great strains on the staff. And the fact that most staff coped with these developments quite well is a tribute to their resilience, cooperative spirit and positive attitude to change.

Library finances

Finacially, the library was in a better shape than in previous years largely because of stringent economies, salary savings from delays in filling staff vacancies, rationalisation in the appointment of temporary staff, and the strength of the Australian dollar. As a result there were no major cancellations of periodicals, and it was possible for the library to make up some of the lost ground of previous years at least in the area of monograph acquisition.

With the appointment of the new collection management librarian and the establishment of the Vice-Chancellor’s Committee on Library Acquisitions Policy, a realistic start was made on the development of a comprehensive collection development policy for the library as a whole. One problem that remains unresolved is that of funding for centres, especially where they cross faculty boundaries, or can be seen as overlapping with departmental requirements.
Collection

The stock of the library grew to 1,381,861 volumes at the end of the year, an increase of 49,845 volumes (31,443 titles) over 1987. On the other hand, the total number of current periodical titles was reduced from 14,075 to 13,941 reflecting a net loss of 134 periodical titles.

A number of important acquisitions helped to strengthen the Swift collection. These included the purchase of *The Consolidator* by Daniel Defoe (London, 1705), one of the sources upon which Swift drew for *Gulliver's Travels; Miscellaneous Poems*, edited by David Lewis, (London 1726), which contains the first appearance in print of two of Swift's poems; and a group of items from Pickering and Charto. These items were purchased with financial assistance from the Friends of Monash University Library, the Vice-Chancellor's Fund and the Dean of Arts Fund. Another significant acquisition was a collection of approximately 1,200 Australian novels purchased from Grants Bookshop, and paid for partly from the Burchill Fund.

A number of significant donations of books were received. Among these were almost 600 books donated by Mr L. Shaw for the Australian Children's Book Collection; two Polish collections (history, literature, politics) from Mr S. Robe and Mrs R. Orzech, totalling 1,400 items; a collection of 1,000 Chinese books presented by the Government of the People's Republic of China; a fine collection on Mauritius presented by Mrs Marise Dalais; a collection of literary classics donated by Emeritus Professor W. A. G. Scott, and numerous individual gifts.

Conservation

Thus far, insufficient attention has been paid to the need to preserve and conserve the library collection for posterity. There is adequate evidence to show that parts of the collection are deteriorating through heavy usage and poor conservation practices. The lack of an adequate conservation policy could well negate the years of effort that have gone into the building up of the excellent library collection. Consequently, towards the end of 1988, it was decided to commission a conservation consultant, Mr. Eric Archer, to study the situation at Monash and to produce a report with appropriate recommendations. This report is expected to be submitted in early 1989, and will set the framework for what is hoped will be an effective conservation policy for the University library.

Library computer system

After exhaustive study, the Library Automation Project Management Committee finally decided to recommend the acquisition of the PALS library system marketed by Unisys Australia. Installation of the system should commence in February 1989, and it is hoped that an online public access catalogue (OPAC) will be made available to the University community in mid 1989. The other major modules of the system — cataloguing, circulation, serials, acquisitions, and management information — will be introduced progressively over the following twelve months. The new system will benefit not only the library, but also the whole University community by providing improved access to the collections, better budgetary control, more relevant information for better collection management, and better information for determining budget allocations and for the selection of books and periodicals. It will lead to increased usage of the library as well as savings in the time of academic staff and students. These savings can be expected to contribute directly to an improvement in the research and teaching environment of Monash University.

Technical services

The staff were under considerable pressure to increase productivity. Both cataloguing and acquisitions came through with flying colours, with cataloguing showing an increased output of 19 per cent and acquisitions 10 per cent.

Reader services

Usage of the library dropped slightly with loans totalling 692,583 compared with 711,592 in 1987. This drop was however compensated by an increase in the number of reference inquiries handled, especially by the law library. Inter-library loan transactions also showed a slight drop, particularly in terms of requests from outside bodies to Monash, undoubtedly reflecting partially the deteriorating status of Monash's periodicals collection.

Three notable services were introduced in 1988. The first was the establishment of the ALII (Australasian Legal Literature Index) database service, mounted on LINK (Lawyers' Information Network) and made available online to all users for a fee. This service was initiated by the law library which has the responsibility of maintaining and updating the database. Use statistics so far are small but encouraging. The second
service was the introduction of a number of CD-ROM databases (e.g., CDATA, Modern Language Association Bibliography, Dissertation Abstracts, Life Sciences Collection, Medline and so on) in the main and biomedical libraries for use by staff and students. The acquisition of CD-ROM databases by the other branch libraries is under consideration. A third service was the development by the Hargrave library of a computerised system (with the assistance of a fourth year Electrical Engineering student) to advise users about information sources in electrical engineering. Called SELIAS (Electrical Engineering Literature and Information Advisory System), this system has the potential of being expanded to cover other subject areas, thus enhancing reference and reader education work in the library.

Space

Space and security continued to be problems in the library. These problems were compounded by the loss of the bag room to the Key Centre for Australian Studies, because that area had been earmarked to accommodate a new circulation desk in the main library for the online circulation system. The library Space Allocation Committee was reactivated in 1988 to consider requirements for storage of library materials and to improve space planning in general.

Cooperation

The library continued to play an active role in cooperative activities in Victoria and nationally, by participation in CAVAL and ACIS. CAVAL’s initiatives in trying to establish a joint off-campus store for less used library materials in Victoria was particularly attractive since such a facility would help to alleviate the space problems faced by the library.

SESTICON (South Eastern Scientific and Technical Information Consortium) continued to flourish and plans for rationalising holdings of current serials, standards and expensive reference materials are underway.

The biomedical library continued to provide support to the various hospitals affiliated to Monash. The decision to upgrade the Box Hill Hospital into a major teaching hospital for Monash in 1989 also had library implications, but it was decided to defer a decision as to the kind of support that could be provided to the Box Hill Hospital until the new year.

Amalgamation

The decision to affiliate the Gippsland Institute of Advanced Education with Monash University led the library to initiate formal meetings with the staff of Gippsland IAIE library with the objective of establishing an agenda for future cooperation and collaboration. Subjects discussed included methods of improving communications, the long term loan of library materials, reciprocal borrowing, staff rotation, exchange and training. Preliminary meetings were also held with the staff of Chisholm Institute of Technology library, although no firm decision relating to amalgamation with that institution had been made yet.

Staff development

The Staff Development Committee finally got off the ground in mid-1988 and was principally concerned with approving applications from staff for financial support to attend courses, conferences and seminars. The committee is being revamped so that it can work more closely with the human resources management librarian to plan a more systematic staff development program.

Concluding remarks

Nineteen eighty-eight has been a year of dramatic changes for the library, particularly in staffing and organisational matters. Four major developments, all occurring at the same time, have had a tremendous impact on the workload and morale of the staff — the issue of amalgamation, the general staff classification review, the impending introduction of the online integrated library system, and the library management review. In spite of the stresses and strains, staff continued to work cheerfully and with dedication. The need is now for the library to develop a strategic plan and clear goals for the future, so that its development and services will mesh in more harmoniously with the objectives and future directions of the University.
Centre for Continuing Education

The result of the addition, in 1987, of a second program coordinator to the centre's staff was a significant increase in the overall program. The engineering/technologies component increased from six activities in 1987 to ten in 1988, with several new topics being introduced, many of which will be repeated in future years.

The Welfare program, for welfare and health care professionals, remained at the same level of eleven activities for the year but was augmented by an innovation which may have far-reaching effects. The centre initiated a series of 'Human services round table' seminars, exploring interactions between the higher education system and the social and community services (SACS) industry. The third of these round tables resulted in significant recommendations on the role of the higher education system in relation to the newly created State SACS Industry Foundation, being conveyed to the relevant Minister. Further seminars in this series are planned for 1989.

Individual activities which are not within any one major program increased in number from six to nine. Interesting additions were weekend workshops on home-based businesses and the company directors' course, already offered through other institutions but initiated at Monash for the first time in 1988.

The languages program, organised in collaboration with the Language Centre, was not a financial success. It had been ailing for some years, largely due to the increase in alternatives available from other providers whose cost structures enable them to offer lower class fees. It was decided not to continue this program in 1989; some re-planning of the format may result in a more viable new program in subsequent years.

Two major developments affected the centre's operation of Normanby House, the residential conference centre which it manages. The first was the decision of the University to construct new offices for the centre at Normanby House. These were completed just before the end of the year and provide considerably improved accommodation for our staff. The second was the decision to locate the University's new ELCOS (English Language Intensive Courses for Overseas Students) venture at Normanby House in 1989, taking over most of the available meeting rooms for its classrooms. This move will considerably reduce the income earned by conference activities within the building and it remains to be seen whether this can satisfactorily be replaced by rentals relating to the ELCOS operation and income from its resident students. Consideration of the future use of Normanby House is on the 1989 agenda of the University's Development Committee.

At the Vice-Chancellor's request, a role statement and business plan for the centre was developed early in the year. Decision on whether or not to implement this document's proposals has been deferred, mainly due to a far-reaching decision made by the Professorial Board in the latter part of the year to institute an enquiry into the University's role in adult and continuing education. The broad terms of reference of this enquiry will enable the committee undertaking it to survey the University-wide scene of provision in this field and its place in the overall profile of the University; from this will follow an assessment of the future role and functions of the Centre for Continuing Education.

Centre for Migrant and Intercultural Studies

Nineteen eighty-eight was an extremely busy year for the centre with which five of the University's faculties are now affiliated — Arts, Economics and Politics, Education, Law and Medicine. Ten seminars were held, some at the Clayton campus of the University and some in the University's city premises, representing a new strategy in the centre's attempts to build links between the University and the community. Topics covered by the seminars included Australia's immigration policy, the legal aspects of the FitzGerald report and the development of Government policy on multiculturalism.

Two successful one-day conferences were held — the first on the Chinese in Australia and the second on the Asian immigration debate. Papers from each of these conferences were published in the centre's Working Papers series.

During the year, the Commonwealth Government awarded the Australian-Greek Fellowship to the centre in order to sponsor the visit of Dr Eleni Stamiris, director of the Mediterranean Women's Studies Institute in Athens. Dr Stamiris was the principal focus of two full-day workshops on women of the Mediterranean in Australia.

The centre was also successful in obtaining significant funding from the Commonwealth Department of Employment, Education and Training to establish a new national centre for the development of teaching community languages and cross-cultural communication in professional education. This project will develop curriculum and materials over the next three years.

The centre's two continuing publications, the Journal of Intercultural Studies and the Working Papers series continue to publish material of high quality with a wide readership.

**Centre of Policy Studies**

**Major research projects**

Major research projects undertaken by the centre in 1988 were: analysis of options for the taxation of individuals, businesses and superannuation, including the development of models and databases for evaluating the comparative revenue, distributional and efficiency implications of the options; evaluation of major government expenditure programs, including housing and tertiary education, and assessment of policy options; studies of the ownership, management and operation of public enterprises; economic assessment of government intervention in accident compensation schemes, with emphasis on workers' compensation; evaluation of the Victorian Equity Trust; economic analysis of pricing and investment policy options for the rail transport of bulk minerals.

Funds for these and other projects were roughly half from commissioned research received by the centre from private sources and half from a University Special Research Grant and the Faculty of Economics and Politics. In addition to funding staff and facilities within the centre, part of these funds have been used to assist the research activities of other members of the faculty and some other researchers in Australia.

**Other activities**

The National Priorities Project continued to commission the Centre of Policy Studies to produce *Spending and Taxing*, volumes on taxation and spending reform, and the 1988 volume (published by Allen and Unwin) was launched in Canberra in May 1988.

All staff members presented seminars at Australian universities, other professional association meetings and to meetings of business associations and groups on a variety of research topics undertaken at the centre. The centre continues to place special emphasis on communicating results of university research to potential users in government, business and the general community.

During 1988, considerable time was spent by members of the centre, and especially by the director, in responding to requests for background information about contemporary economic and social policy issues from the media, from politicians of all parties and from the general public. These activities, together with an extensive program of distribution of centre publications are an integral component of the centre's charter to provide a bridge between academic research and potential users of that research in the wider community.

**Graduate School of Environmental Science**

In 1988 the number of units taught by the Graduate School was twenty-three and with other relevant units across the campus the number of units available for selection by candidates was eighty-five (thirty-nine listed in the 'Details of courses 1988' were unavailable for various reasons).

The course on Applied Ecology and Conservation was offered to undergraduates of the Engineering Faculty.

Interest in the MEnvSc and DipEnvSc courses continues and a high standard of applicants were available from which to select candidates.

<table>
<thead>
<tr>
<th>Enrolment information</th>
<th>MEnvSc</th>
<th>DipEnvSc</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FT</td>
<td>PT</td>
</tr>
<tr>
<td>Enrolled December 1987</td>
<td>24</td>
<td>80</td>
</tr>
<tr>
<td>Number of applicants 1988</td>
<td>36</td>
<td>27</td>
</tr>
<tr>
<td>Total enrolled 30/4/88</td>
<td>12</td>
<td>77</td>
</tr>
<tr>
<td>Total interrupted/withdrawn</td>
<td>1</td>
<td>14</td>
</tr>
<tr>
<td>Graduated 1988</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Total enrolled December 1988</td>
<td>11</td>
<td>59</td>
</tr>
</tbody>
</table>

**Research**

Seventeen candidates have been involved in project work for which the research reports and minor theses will be submitted in early 1989. Topics studied were:

- The management of cytotoxic biomedical wastes
• Thailand — rural water supply and sanitation
• Management of the common wombat in north east Victoria
• Residential development in the Dandenong Ranges
• Bunurong Marine Park management plan

As well as being involved in supervision of the above research teams, staff have undertaken research into:

• Environmental education, environmental impact assessment and recycling of domestic wastes (Mr I Thomas)
• Appropriate technology and context education and general system theory (Mr F Fisher)
• Effects of soil compaction on early growth of forest species, cost sharing options for salinity control and land capability assessment for rehabilitation (Mrs A Lindsay)
• Theory, methodology and practice of environmental planning, social-theoretical approaches to the analysis of environmental policies and politics, policy strategies for a sustainable society and politics of energy policy issues in Victoria (Mr T Blake)
• Community awareness of salinity and living with appropriate technology (Mr P Cock)

The staff of the school served in a variety of capacities outside the University — as members of community centres, educational advisory committees and committees advising government departments. As usual the staff pursued an active program of submissions to public inquiries, reports to statutory authorities, and papers to conferences of high standing.

Higher Education Advisory and Research Unit

The Higher Education Advisory and Research Unit (HABARU) began with an education research officer in 1966 and with this appointment Monash University became the third Australian university to establish a unit to investigate and assist with problems of teaching and learning.

The main aim of HABARU is the improvement of the quality of education in the University. The unit seeks to achieve this aim through support and advisory services to academic staff in all departments and faculties, either individually or through the organisation of appropriate short courses, on matters related to teaching approaches, assessment, course design and evaluation; research into all aspects of tertiary education; provision of information about innovations and research in higher education in the Faculty of Education.

HABARU is a centre independent of all faculties; the director is responsible to the Vice-Chancellor. The director is a member of the professorial board.

Full details about HABARU activities and research can be found in the director's annual reports, which are included in the papers of the professorial board and the research report of Monash University, or by contacting the Director, Associate Professor Terry Hore.

Educational Technology Services

On 1 May 1988 Educational Technology Services (ETS) came under the administrative control of the Registrar's department. ETS had five major tasks to achieve in 1988. These were:

• to provide high quality educational technology services in support of the teaching, research, administration, public service and public relations activities of the university;
• to manage and provide support services in the Rotunda lecture theatres;
• to provide audio services in the Robert Blackwood Hall;
• to generate $75,000 income from external sources ($50,000 in 1987);
• to generate $5,000 income from internal sources through the provision of equipment maintenance and installation services for audio visual equipment.

With the exception of the management function in the Rotunda (still under review), all of these tasks were achieved in 1988. The number of services provided by ETS staff rose dramatically during 1988, the increase being more than 30 per cent in comparison with 1987 and just on twice the number provided in 1981 with the same staff establishment. Desk top publishing services, computer graphics and other graphics services are growing rapidly, yet the University is still rapidly falling behind other sectors of the community in the use of this technology because the University lacks an integrated
high quality computer graphics imaging and reproduction facility. ETS has been actively campaigning for such a facility to be located on the Monash campus for the last three years.

A new edition of ETS Guide was distributed to all academic staff and cost centres during 1988. This publication outlines the range of services provided by ETS to support the various activities of the University.

A series of television programs produced at ETS for the MCTP project during 1987 and 1988 has proved immensely successful. By the end of 1988 over 700 sets of the programs had been distributed throughout Australia and many copies have also been sent overseas with a view to developing a market in New Zealand, the USA, Japan and Europe.

The equipment and manpower resources in ETS were stretched beyond capacity in 1988. The pressure came partly as a function of increased student numbers, fewer support staff and teaching staff and inadequate funding of equipment for teaching support services over many years.

ETS like other support services on the campus, is experiencing increased workloads and insufficient resources (manpower and equipment) to meet the demands being placed on the department. Also, like other technically based services, ETS is suffering skill attrition because the University salaries and career structures are not competitive with other sectors of the economy.

In spite of the difficulties outlined above, the good will and hard work of the ETS staff made 1988 a most successful and satisfying year for the department.

UNIVERSITY FACILITIES

Alexander Theatre

The year was one of great activity for the Alexander Theatre. Over the year there was a total of 386 performances for a total estimated audience of 146,000.

The Alexander Theatre Committee continued with its policy of presenting live theatre for both the University and the outside community, offering a total of eight productions. Such productions accounted for 214 performances for a total audience of 71,475. During the year there were three international productions: Goldcrest Productions Sooty Down-Under (UK); Mermaid Theatre of Nova Scotia Just-So-Stories (Canada); and Eric Bass Autumn Portraits — adult puppet presentation (USA). These productions were well received and enhanced the overall program of the theatre considerably.

The Alexander Theatre maintained its leading role in the presentation of theatre for children. The very popular activity for children The Saturday Club reached a record membership of 3,200 parents and children who attended a total of forty-two performances. Of particular note is the Alexander Theatre's involvement in the presentation of an original Australian musical production for children The Ark of Oz. This was written and produced by Jill Morris, a well-known theatre critic and author of children's literature. It was presented with considerable technical support from the theatre and was well received with warm critical acclaim.

The year saw a healthy increase in the use of the theatre by University-based groups. Two academic departments and four student groups presented theatrical productions (thirty-two performances and forty-one rehearsals). In addition, ten faculty and University-oriented groups presented a total of twenty-four lecture/seminar sessions. Non-theatrical usage resulted in the theatre being used on thirty-three occasions for lectures, conferences and seminars.

Community involvement continued with numerous schools, musical groups, dramatic companies and dance academies making use of the theatre's facilities. These groups bring approximately 64,767 people on to campus each year, enabling families and school students to become familiar with the University and its environment.

The theatre was again host to the Music Theatre Guild Awards Presentation Night which is the annual focus of all music theatre groups in Victoria. During the year negotiations were completed for the theatre to be host in 1989 for the dramatic equivalent, the Waverley Festival of Theatre which is the only festival of community theatre in the state.

Continuing with its campaign to foster professional theatre on the campus, the Alexander Theatre Committee has completed negotiations with Melbourne's Playbox Theatre Company to extend the season of two of their productions to the Alexander Theatre. This is an exciting development and, if supported by University and community audiences, will result in a new direction for the theatre.

Careers and Appointments Service

Nineteen eighty-eight was another challenging and exciting year for the Careers and Appointments Service. It saw the first full year of operation of the Student Recruitment Centre. Increased staff resources enabled us to participate in a record number of activi-
ties involving schools. A growing interest has developed in running both year 11 and 12 school camps on campus with input from academic staff, careers advisers in the Careers and Appointments Service and members of the University Counselling Service. The halls of residence and Normandy House provide accommodation at reasonable rates.

Monash was represented at the Young Australia Expo held in July for one week at the Exhibition Building. Over 40,000 school students attended the Expo. The third residential Junior University Program on the Monash campus included over 350 participants from more than 150 schools in Victoria and Southern NSW. A record number of participants attended the Monash seminar for school principals, year 12 coordinators and careers teachers. The Schools Link Program entered its third year of funding from the Australian Government and special admissions were made to all faculties including Medicine and Law.

The mature age direct entry scheme at Monash has been expanded with the aim of attracting more better quality applicants to courses. Significantly more students under this scheme were admitted to courses in 1989 than in previous years.

Plans continue for the development of a major resource centre on the Monash campus and one on a smaller scale in the Downtown Centre.

Emphasis on our work with undergraduate students continued throughout the year. A major seminar organised by the Society for Undergraduate Computer Science Students was held mid-year involving several graduate recruiters. A program of meetings with academic staff in all departments of the University was commenced in 1988 and will continue.

A strong demand for graduates by employers was evident in 1988. Our contacts with employers have been developed further and several graduate recruiters not previously involved in the campus interview and employer information programs made their first visit to Monash. The annual conference of careers advisers and employers was held in south Australia; about 200 participants were present including many more employers than careers advisers. The Australian Association of Graduate Employers (AAGE) was formally established this year.

Our efforts in refining graduate destinations data as a means of assisting students in career and course decision making have been continued. The Careers and Appointments Service was a centre for the Course and Job Explorer developed by the Ministry of Education for use by secondary school students on personal computers.

External Relations and Alumni Affairs

The department was established in late 1987 with the aim of creating a climate of support, both moral and monetary, for Monash University. In its first year of operation the department functioned in three broad areas: public relations, alumni relations and fund raising. Underpinning these are the two major areas of publicity and promotion and of database management and development. Public relations' activities included:

- liaison with communities external to Monash (philanthropic trusts, corporate sector, local communities and councils, parliamentary representatives, members of the diplomatic corps, university auxiliary groups and emeritus staff);
- the organisation of visits to Monash by VIPs, community groups and of special events held at Monash;
- the introduction and preparation of the quarterly document Visitors to Monash, a summary of visiting academics and experts;
- arranging for Monash staff to address community groups.

The department initiated increased contact with Monash alumni through:

- assisting decentralised alumni groups with the development and maintenance of the register of records, the preparation of individualised letters, the provision of mailing lists and labels, the tracking of ‘lost’ graduates;
- the establishment of an on-campus informal network of alumni groups;
- the preparation of a resource manual for alumni groups and of a monthly bulletin setting out events for the next three months;
- the organisation of receptions for alumni in Perth, Brisbane, Kuala Lumpur, Singapore and Hong Kong, with informal networking in USA, Germany, Netherlands, Japan and Korea;
- the introduction of a Monash alumni ID card and information kit containing details of travel and hotel concessions;
- the conduct of a graduates’ ‘perception survey’, the results of which will be available in 1989.

Investigations were begun to consider an appropriate entity for any alumni umbrella
organisation. In this connection, constructive, close contact was maintained with the Monash Association of Graduate Students.

The department's fund raising activities focused primarily on the annual library appeal which was revamped. The on-going task of preparing letters of thanks to individuals and organisations for gifts and grants was streamlined. This was a busy first year of operation accomplished by a small team which, in addition to the director, comprised an administrative officer, secretary, clerk and occasional casual clerical assistance. The publicity and promotion work was effectively undertaken by a freelance journalist.

Monash University Bookshop

Nine staff resigned during 1988 and two more gave notice late in the year of resignations which took effect in January 1989. These resignations, in a staff of eighteen or nineteen had a severely destabilising effect, which was exacerbated by the difficulty of finding suitable replacements amid the unrealistic salary policies and personnel practices imposed by the University without regard for the needs of a commercial operation.

The fact that Bookshop sales increased by 15 per cent (to just under $3 million) and profits by 16 per cent (to $197 000) is evidence of the extraordinary efforts of the key staff in coping at times when the business was either understaffed or largely staffed by raw recruits.

These key staff are confident of receiving the annual handout of congratulations. They are not confident of receiving any more substantial reward.

Religious Centre

The members of the chaplaincy team for 1988 were the Rev.Fr Ephraem Chiifley OP the Roman Catholic Chaplain; the Rev. Philip Huggins, Ecumenical Chaplain; Pastor Peter Piitzner, Lutheran Chaplain (part-time) and Mr Saul Fust, Jewish Chaplain (also part-time).

The annual University service was held on 10 March at 1.10pm. The speaker was Bishop Peter Hollingworth, with music provided by Mrs Merrowyn Deacon and the University Choral Society. The service was well attended and was followed by refreshments in the Narthex.

The Rev. Huggins leads a team of organisers who are working hard towards the Fifth Assembly of the World Conference on Religion and Peace, to be held at Monash towards the end of January 1989. This conference is to be opened by the Prime Minister, and it is expected that some six hundred international delegates will participate representing the major world religions.

Our tenth recital series took place during the year. The fourteen concerts of fine music presented a varied range of instruments and voices, using local, interstate and overseas artists. The luncheon recitals attract warm support and are gaining in repute. The Ronal Sharp organ in the large chapel is now ten years old and we have planned a re-fit and re-voice of pipes, where necessary, in June next year. The work is in the hands of Mr Robert Heatley, whose firm maintains the organ.

The library located in the chaplain’s offices in the Union now numbers approximately 1 000 books on comparative religions, ethical, Jewish, theological and church history themes. There is steady borrowing.

The pattern of regular services of worship established in previous years has continued during 1988 with a developing emphasis on private prayer and meditation in the chapels, study groups, teaching seminars and two lecture series. This has been facilitated by the relocating of organ practice to early or late in the day with teaching in the early evenings.

Robert Blackwood Hall

Throughout the Bicentennial year the Robert Blackwood Hall was used for a total of 434 functions (inclusive of rehearsal sessions), of which 177 had University involvement — ie, graduations, examinations, etc.

We can be well satisfied with the participation the Hall played throughout the Bicentennial year. It hosted most of the visiting international youth choirs and orchestras together with a number of celebrities such as Yehudi Menuhin, James Pegler and the Royal Canadian Mounted Police Band.

Although the number of schools making use of the hall decreased, by comparison with former years, twenty-four did in fact stage theirgraduations, speech night or concert in the hall. Most of the schools which did not use the hall were involved in Bicentennial functions in other venues.

It was disappointing to see the Melbourne Symphony Orchestra remove their concert series from the hall after so many years. It was said that the move was made in the hope of attracting new audiences. On-going contact with the ABC general management...
has produced no positive or optimistic results for the concert series return in future years.

**Students' Grants and Loans Committee**

Requests for loans totalling $194,290.40 were received from seventy-eight students. Of these, the committee approved seventy-five loans totalling $166,386.00 and one grant of $1,000.00. A further $67,023.26 was loaned to 190 students on a short-term basis for the purpose of assisting with the payment of the HEAC and amenities fee for their 1988 enrolment.

During the year an additional $105,500 was made available under the Commonwealth Government Special Assistance to Students Program, bringing the total of all funds administered by the committee to $1,027,873. Of that amount $462,658 was on loan or committed at 31 December 1988.

Due to the expected cessation of funding from the Commonwealth Government, the Students’ Grants and Loans Committee has embarked on a project to establish a new policy for approval and repayment of loans so that funds will always be available to those in need.

**University Counselling Service**

The past year has been an extremely busy year for the University Counselling Service. Stability in staffing and challenging demands on the service have led to a creative work environment. However, excellent work satisfaction has been tempered by increasing demands for one-to-one counselling and for various consultative activities. The number of students and staff utilising the service for one-to-one counselling increased to over 1,000 clients. Group work centred mainly around study skills, assertiveness and stress management, whilst seminars and workshops centred mainly on study skills and orientation programs (over 800 students participated in the group work, seminars and workshops). The counsellors provided lectures in the faculties of Education, Arts and Medicine. Two counsellors were heavily involved in providing communication, assertiveness and career planning workshops for the Staff Development Branch.

The major problems presented by clients centred around personal concerns with identity, study skills, relationship difficulties and educational/vocational issues.

**University Health Service**

Nineteen eighty-eight was perhaps characterised by its stability in that there were no long periods when the service worked short staffed. This was fortunate, as there was a significant outbreak of flu in the winter.

With the proximity of the new Monash Medical Centre and the many specialists, including pathologists, who have moved into the Clayton area, it was decided to discontinue doing venepunctures for pathology as this procedure had been adding to the overloading of the sister. From December 1988 it was also decided not to continue with the consultant gynaecologist who visited every fortnight.

In 1988, 7,138 individuals made 20,925 consultations. Of these consultations 5,152 were made by staff and 15,347 were made by students.

**University Housing Service**

The University Housing Service had approximately 4,000 requests from students for assistance, varying in scope from finding suitable accommodation to advising on tenants’ rights. The majority of students sought accommodation either on or very close to campus and consequently there was considerable demand for the South East Flats. The improved public transport servicing the University helped applicants to find accommodation in areas where the unavailability of direct access routes in the past made this impossible.

Properties in the area are continuing to be bought by the public not for investment purposes and this makes the number of rooms to be let very limited. There are some houses available for groups of students but practically no flats. The rental charges are considerable, due particularly to the relatively small number of properties available and their high market value. The greatest difficulty continues to be experienced in finding rooms suitable for students in houses, at reasonable prices and in areas serviced by direct transport. A great many overseas students require housing and those who are married find it especially difficult to secure suitable accommodation at an affordable price.

The number of flats/houses available on a short-term basis to visiting and newly appointed staff is limited and all those who were able to be accommodated were appreciative of this facility. Occupancy rates were satisfactory but budgetary provisions had to be made to refurbish a number of these units over the next two years. The dedication of staff concerned kept the units at a functional peak at all times.
STUDENT ACTIVITIES

The Union — administration and general

In 1988 the Union operated on an expenditure budget of $2 174 846 derived from an amenities fee of $266 for full-time students and $167 or $116 for part-time students. From the combined Union and Sports and Recreation Association budgets, a surplus of $243 464 carried forward from 1987 was held in reserve and later used to modify the amenities fee increase in 1989. Through the joint finance committee for student amenities, 22 percent of the revenue from the amenities fee was allocated to the amenities development fund, in line with the usual practice. In addition, the joint finance committee moved an additional $200 000 into the development fund from surplus recurrent funds carried forward from 1987. This supplement was considered to be warranted in view of extraordinary demands on the development fund for capital works.

Subscription rates for optional membership of the union and the sports and recreation association were increased by either 3 percent or 10 percent dependent on the category of membership.

The development program was dominated by the social centre project. When the final plans for this project were nearing completion, a member of the union board contested the board's long-term and otherwise unanimous decision to include a licensed facility in the social centre. The member persuaded the board to put the matter to a referendum of all union members. To the surprise of the board and of many union members, the membership voted strongly against the inclusion of a licensed facility and the board was bound by that decision. After modifications to the project, the building contract for the social centre and passenger lift was finally let to george T. Jackson Pty Ltd. Building work is scheduled for completion early in 1989. The new social centre will comprise a modernised main dining area and kitchen for daily use and will accommodate student, staff and private functions. The passenger lift will serve three floor levels and will fulfill a long-term need for improved access to the union building for people with disabilities. The all-up cost of the combined projects is $1.28 million.

Renovation works included refurbishment of the former grill room which has been renamed the west end caf, extension of the union shop and (early in 1989) enclosure of two balconies on the north side of the building. Additional fire safety measures, requested by the university, are in progress. Additional security measures, including protection of computer equipment, were carried out under a special budget allocation. As part of an ongoing anti-litter campaign, in 1988 the union engaged additional cleaning staff to collect litter inside and outside the building over the lunch period, on a daily basis. In all applicable union areas, personal computers, printers and appropriate work-station furnishings were introduced or updated, and computer programs were custom-designed for student employment and the arts and crafts centre. The Ventura desk-top publishing system was purchased for "lot's "wife" and for use in several union departments.

Most commercial areas enjoyed a record trading year, particularly the renovated catering outlet, the function catering service, the union shop, and the health foods shop. The combined food services—the catering department, health foods shop and wholefoods restaurant—returned a surplus which exceeded the budget expectations.

An inquiry into the role of the union within the university, authorised by the university council, was conducted by associate professor H.B. Connell. The report of the inquiry was submitted to council in October 1988 and council proposes to deliberate on it early in 1989, after receiving comments/submissions from interested parties. Professor Connell has recommended changes in the structure of the union and in the composition of the union board which, if adopted, will significantly change the present representative system under which the union is governed and will tend to distance the practical business of the board from student politics. While awaiting the outcome of this inquiry, the board has upgraded the status of the mature and part-time student and overseas student associations by funding them directly as independent rather than affiliated groups, and has accepted master of public health students at the Alfred hospital as a budgetary unit. It has also arranged that, as far as possible, incoming board and committee members take up office on 1 January each year.

Nineteen eighty-eight has seen major growth in the provision and subsidising of childcare by the union. A mothers' craft nurse was engaged for several hours per week to assist with the child-minding facilities in the union, the union subsidy to the monash student creche cooperative was increased to $38 000, the subsidy period for both graduate and undergraduate students was extended to cover the 1988/89 vacation period and school holiday program for the children of students and staff were organised by the child care coordinator in June and September.

In the staffing area new positions were created for a mature and part-time student coordinator (part-time), assistant student welfare officer (part-time), a word processing supervisor, junior assistants in the catering and student employment offices and, as from 3.1.89, a human resources officer (part-time). The mas research assistant position was reinstated and, as from 1988, the mas honorary secretary and mas activities chair-
person positions will change from voluntary to paid positions. Attention was given to the relationship between professional staff members and the student committees with which they work — and guidelines for acceptable working relationships were documented. Many of the Union staff positions were included in a review of salary classifications which was conducted by the University.

Student theatre benefited from increased office space and from the ongoing services of an innovative and energetic coordinator. Thanks to her work, theatre activity extended past the four established performing arts clubs to the wider campus community. Students not normally associated with theatre were drawn into the lunchtime theatresports or into a playwriting competition. Audiences for club productions in the Union Theatre and the Alexander Theatre were at a record level. Workshops in various theatre skills were held, giving students exposure to professional techniques. By the end of the year there was a move to restructure student theatre to broaden the groups represented on the administrative committee — with the result that the structure of student theatre on campus is to be reviewed early in 1989.

Computerisation in the Student Employment Office enabled the processing of a record number of job vacancies (17,617) without increasing the staffing level. It also increased the accuracy and dimension of statistics. The Student Welfare Office benefited from computerisation and from new and more attractive premises.

In summary, 1988 was a year in which several student organisations grew in strength and status and the need for salaried staff to coordinate these organisations was recognised by the Union Board.

Clubs and Societies
During 1988 Clubs and Societies continued to service approximately 120 clubs. The executive of the Clubs and Societies Council continue to hold bi-weekly meetings where distributions of grant monies are confirmed and passed on to clubs for such things as social functions, annual dinners and capital equipment. All the services in the Clubs and Societies offices are used to the limit (eg photocopying, typewriters, etc) and any assistance that can be given to clubs with difficulties is dealt with by the very competent staff. The Clubs and Societies computer has been updated to make the system a quicker, more efficient one for both staff and executive members.

Arts and Crafts Centre
During 1988 the Arts and Crafts Centre continued to compete for a share of the arts and crafts 'leisure' dollar. This is not an easy task in these days of economic instability. The centre maintained its high standards and is formulating strategies that will help it to grow and to provide recreation courses and workshops that students, staff and members of the public will continue to enjoy.

Monash Association of Students (MAS)
Nineteen eighty-eight saw a revitalised MAS involved in the National Union of Students (NUS) campaigns against the Higher Education Administration Charge. The higher education debate grew into discussions on the Federal Government's White Paper and MAS was involved in many debates and forums on its merits and shortcomings. MAS Activities really lived up to its name in 1988. The Activities Committee organised many well attended Union Nights (particularly during Orientation Week), a sell-out Commencement Ball and resurrected Green Week, which featured large scale student participation. MAS was thus a high profile force on campus in 1988, and hopes to continue in the same vein in 1989.

Monash Association of Graduate Students (MAGS)
Nineteen eighty-eight was a year in which the Monash Association of Graduate Students worked very hard to contribute to the debate on, and to influence the many changes to higher education proposed by the Federal Minister for Employment, Education and Training, as well as to continue to represent and promote the interests of the postgraduates of Monash University on their own campus.

A full committee of fifteen was elected at the annual general meeting in May. In cooperation with the executive officer and the two support members of staff, this committee has insured the continuation of the services which Monash postgraduates, academic and administrative staff have now come to expect from the association — information, consultation, advocacy, support and social amenity.

MAGS was also very active in preparing submissions to the Minister in response to the discussion paper on higher education, the 'Green Paper', the Wran Report on funding
of higher education (introducing the graduate tax) and the policy document, the
'White Paper'. The association also lobbied delegates to the ALP national conference,
supporting the continuation of the policy of free tertiary education.

The climate of general uncertainty which prevailed during the year led to a very large
increase in the number of personal and telephone enquiries from postgraduates con­
cerned about the consequences for their future study of the various proposed changes to
the organisation and funding of higher education.

The major undertaking of the association for the year was the MAGS conference —
Postgraduate study — its value and purpose. The conference attracted top-level speakers
including Dr Gregor Ramsey, chairman of the Higher Education Council, Department
of Employment, Education and Training; Mr Fergus Ryan, chairman of the Australian
Careers Council; Mr Laurie Carmichael, Trades Hall Council representative on NHEET;
Mr John Kett, executive manager, liability management, ANZ Bank; Mr Kenneth
Davidson, Senior political/social commentator, The Age; contributors from Monash
— the Vice-Chancellor, Professor Mal Logan, the dean of Arts, Professor John
Hay, the chairman of Physics, Professor Fred Smith, the director of the Careers
and Appointments Service, Mr Lionel Parrot and the equal opportunity coordinator,
Dr Margaret James.

MAGS also prepared submissions on study accommodation for postgraduates in the
Faculty of Arts, housing for postgraduates on campus, fair treatment of postgraduate
demonstrators and tutors, extension of the childcare subsidy for postgraduate users of
the Monash Student Creche Cooperative, the inquiry into the role of the Union, the
value of the Monash Graduate Scholarship stipend and the initiation of a fund to help
fund postgraduate attendance at interstate and overseas conferences. In addition, MAGS
assisted the national postgraduate association (cAPA) with several surveys and prepared a
major report on the funding and organisation of postgraduate associations.

Postgraduates participated to the fullest extent in the decision making processes of
the University through their representatives on Council, Professorial Board and the
various policy committees. The regular newsletter Magneti continued to provide infor­
mation and a link between all postgraduate students and their association, especially those
studying part-time. The annual handbook Compass expanded its offerings of feature
articles and information from the departments on postgraduate study options. Three
major social functions were held — the annual general meeting/dinner dance, the
orientation alfresco lunch and the rock and roll dinner dance, providing relaxation and
an opportunity to make new friends.

The MAGS committee and staff appreciate the continued support of the Union Board
and the Warden of the Union as well as the good will and cooperation of the academic
and administrative staff of the University, all of which provide invaluable help to MAGS
as it strives professionally to represent the postgraduate students of Monash Univer­
sity.

Monash University Sports and Recreation Association

The association has continued to expand its facilities, range of activities and member­
ship. The total membership of the association including various categories of subscrib­
ing members is now around 20 000 and this is placing such strain on some resources that
consideration may have to be given to imposing quotas in some of the categories.

Facilities

The extension to the recreation hall was completed toward the end of the year. Monash
now has one of the few international sized indoor hockey pitches in the State. The
additional space has also enabled the association better to service those members —
especially overseas students — for whom the sports complex is a real social centre
especially evenings, weekends and holidays.

The sports centre control desk and the general office were expanded and upgraded.
Work has commenced on extending the weight training and pavilion social rooms and
is due for completion in February.

As far as capital developments are concerned the only major projects of the master
plan which still remain on the drawing boards are a synthetic surface hockey field, an
extension to the swimming pool and an all-weather athletics track.

The range of activities will continue to broaden as the association responds to the
diverse physical recreation tastes of members.

During the year the Association took over the sports goods shop which had formerly
been privately leased. The hours and range of goods have been extended as a further
service to members.

Sporting achievements

As usual Monash was represented in the majority of inter university championships
held during the year. Successes were achieved in men’s soccer and women’s badminton,
and creditable placings obtain in a number of other contests. The men’s rowing viii won
the first three mile boat race held between Australian universities, thus winning the right to represent the Australian universities in the inaugural World Boat Race held in Brisbane. This race was won by Cambridge with Monash finishing fifth of the eight crews competing.

Six students were chosen to represent the Australian Universities Sports Association in representative fixtures, two in men’s soccer, two in women’s soccer, one in men’s cricket and one in netball.

Staff contribution

Beth Leggo, one of the original staff members, took early retirement during the year. In recognition of her considerable contribution to the development of the association from 1965 to 1988 she was awarded life membership of the association. This is the second only such membership awarded to date.

Australian Government

ARTS, SPORT, ENVIRONMENT, TOURISM AND TERRITORIES, DEPT OF Feasibility study for the extension of public lending rights scheme to educational libraries, Professor J P Whyte (Graduate School of Librarianship) — $12 000

AUSTRALIAN ADVISORY COUNCIL ON LANGUAGE AND MULTICULTURAL EDUCATION
Analysis of the 1986 census data, Associate Professor M Clyne (Linguistics) — $4 600

AUSTRALIAN ANTARCTIC DIVISION Food requirements, growth and early mortality of Antarctic petrels and comparisons with sympatric southern fulmars near Davis, Professor J M Cullen (Zoology) — $12 926

— Studies of the effects of feral rabbits and native fauna on terrestrial vegetation, Macquarie Island, Dr N D Hallam (Botany) — $1 399

— Macquarie Island aerobiology and wind climate (Phase 3), Dr J Peterson (Geography) — $1 613

AUSTRALIAN INSTITUTE OF NUCLEAR SCIENCE AND ENGINEERING
Extension of AINSE scholarship for Mr D J Cookson, Dr T R Finlayson (Physics) — $10 191

AUSTRALIAN NATIONAL PARKS AND WILDLIFE SERVICE Reproductive output and recruitment of Norfolk Island long-billed white-eye and scarlet robin, Professor J M Cullen (Zoology) — $9 607

— Investigation into the effects of landcrabs on the structure of rainforests (Phase I), Dr D J O’Dowd (Zoology) — $13 000

— Study of the diet of the little penguin in waters off the Victorian coast (Phase 1), Professor J M Cullen (Zoology) — $8 000

— Study of the diet of the little penguin in waters off the Victorian coast (Phase 2), Professor J M Cullen (Zoology) — $13 300

— Research into chlamydiosis in natural populations of the koala in Victoria, Associate Professor A K Lee (Zoology) — $22 500

AUSTRALIAN ROAD RESEARCH BOARD Parking feasibility, Dr W Young (Civil Engineering) — $2 000

— Design perception — reaction time for Australian roads, Dr T J Triggs (Psychology) — $2 351

AUSTRALIAN TELECOMMUNICATIONS AND ELECTRONICS RESEARCH BOARD
Improving metastable reliability of digital systems, Mr L Kleeman (Electrical and Computer Systems Engineering) — $4 500

— Frequency domain digital echo canceller for international communications link, Dr K Pang (Electrical and Computer Systems Engineering) — $2 500

— Measurement of occupational exposure to electromagnetic fields, Dr M Salzberg, Professor J J McNeil and Dr V Delpizza (Social and Preventive Medicine) — $4 000

— Viscosity of heavy metal glasses and their influence on fibre drawing characteristics, Dr T Sridhar (Chemical Engineering) — $5 000

— Postgraduate scholarship in telecommunications for Mr A Uhlherr, Dr D R MacFarlane (Chemistry) — $7 000

AUSTRALIAN WATER RESEARCH ADVISORY COUNCIL Fellowship stipend for Dr A Duncan, Dr R C Bayly (Microbiology) — $33 316

— Design guidelines for stable channels and waterways (87/05), Associate Professor R G Mein and Dr R J Keller (Civil Engineering) — $9 607

— Capacity sharing for surface water storages (87/14), Dr G P Codner (Civil Engineering) — $6 991

— The effect of physical disturbance on stream communities of different substrata (85/03), Dr P S Lake (Zoology) — $34 689

AUSTRALIAN WOOL CORPORATION Development of gene probes that can be used for the differential diagnosis of ovine footrot, Dr J I Rood (Microbiology) — $32 471
<table>
<thead>
<tr>
<th>Research Scholarship/Microstructural Observations</th>
<th>Supervisor/Professor/Principal Investigator</th>
<th>Grant Amount</th>
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<tbody>
<tr>
<td>Postgraduate research scholarship for Mr S Billington, Dr J I Rood (Microbiology)</td>
<td>$25,970</td>
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<td>Supervisor’s project fee in respect of postgraduate research scholarship - D McGillivray, Dr B Adler (Microbiology)</td>
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<td>for publication costs of <em>Rational expectations and efficiency in futures markets</em>, Dr B Goss (Economics)</td>
<td>$1,750</td>
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<td>Investigation of the physiological basis of the reaction of sheep to novel wool harvesting techniques, Professors G D Thorburn and D G Lampard (Physiology/Electrical Engineering)</td>
<td>$23,165</td>
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<td>Investigation of the physiological basis of the reaction of sheep to novel wool harvesting techniques, Professors D G Lampard and G D Thorburn (Electrical Engineering/Physiology)</td>
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<td>Postgraduate research scholarship for D Harris, Dr B A Goss (Economics)</td>
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<td>Supervisor’s project fee in respect of postgraduate research scholarship - D Harris, Associate Professor K R McLaren (Economics)</td>
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<td>Forecasting the price of Australian wool Dr B A Goss (Economics)</td>
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<td>$27,269</td>
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<td>Assessment of the suitability of wear resistant retention coatings on the comb and cutter components of wool shears, Associate Professor R McPherson and Dr C C Berndt (Materials Engineering)</td>
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<td>BUREAU OF METEOROLOGY RESEARCH CENTRE</td>
<td>Research scholarship for Mr P Mullenmeister, Dr D Karoly (Mathematics)</td>
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<td>BUREAU OF MINERAL RESOURCES (GEOLOGY AND GEOPHYSICS)</td>
<td>Postdoctoral fellowship for Dr I Sluiter, Professor M Williams (Geography)</td>
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<td>CSIRO Microstructural observations of brittle sliding and wear, Professor G S Lister and Dr M Jessell (Earth Sciences)</td>
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<td>Hormonal control of ovarian development of the Australian sheep blowfly <em>Lucilia Cuprina</em>, Dr B Roberts (Zoology)</td>
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<td>Production and characterisation of plasma-sprayed and ceramic coatings for prosthetic use, Dr C C Berndt (Materials Engineering)</td>
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<td>Rheology and performance of oil-in-water emulsions in timber, Dr C Tiu (Chemical Engineering)</td>
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<td>The physiological basis of dehydration tolerance in tropical crop and forage legumes, Dr D Gaff (Botany)</td>
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<td>Solid state nmr as a probe of coal structure, Associate Professor J F Mathews and Professor W R Jackson (Chemical Engineering/Chemistry)</td>
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<td>Hydrolysis of rare earth alkoxydes and aryloxydes for the production of oxidation catalysts, Dr G B Deacon (Chemistry)</td>
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<td>Synthesis of ground backscatter ionograms using computed systems of rays, Dr J A Bennett (Electrical and Computer Systems Engineering)</td>
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<td>Movements, water turnover, metabolic rates, breeding energetics and dietary changes in a field population of marsupial <em>Dasyurus hallucatus</em>, Dr J Nelson (Zoology)</td>
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<td>Acoustic echo canceller for teleconference systems, Dr K P Pang (Electrical and Computer Systems Engineering)</td>
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<td>The application of chromium (III) hydrolytic oligomers in leather tanning, Dr L Spiccia (Chemistry)</td>
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<td>Composite cathode materials for glow discharge electron beams, Dr R C Tobin (Physics)</td>
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<td>Determination of the change in background atmospheric oxygen concentration to establish the relative contributions of fossil fuel combustion, Dr R T Gregory (Earth Sciences)</td>
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<td>Studies of free radical chemistry applied to the synthesis of some C-Terminaly crowded, non-tautomerisable quinone methides, Dr D J Collins (Chemistry)</td>
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<td>Flow past surface-mounted obstacles, Professor B R Morton (Mathematics)</td>
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<td>The nutritional quality of eucalypt foliage for arboreal marsupials, Drs G D Sanson, W J Foley and A K Lee (Zoology)</td>
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<td>CSIRO – DIVISION OF GEOMECHANICS Cyclic loading on soils and foundations, Associate Professor I Donald (Civil Engineering)</td>
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<td>COMMONWEALTH DEPARTMENT OF EDUCATION Balance of 1987 special education program grant, (Krongold Centre)</td>
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<td>COMMONWEALTH SCHOOLS COMMISSION National inservice teacher education, Mr L C Ingvarson (Education)</td>
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COMMONWEALTH SERUM LABORATORIES Synthesis of certain bismuth compounds, Dr G B Deacon (Chemistry) — $58 188
— towards costs of interferon research by Dr H K Nielsen, Professor A W Linnane (Centre for Molecular Biology and Medicine) — $3 800
— for CSL/Monash University collaborative research venture, Professor M T W Hearn (Biochemistry) — $58 469

COMMONWEALTH TERTIARY EDUCATION COMMISSION Supplementary grant for 1987 for Monash Special Research Centre of Excellence, Professor M G Porter (Centre of Policy Studies) — $1 700
— A comparison of writing abilities of first year history undergraduates 1974-1984, Mr G B V Taylor (Higher Education Advisory and Research Unit) — $1 500

COMMUNITY SERVICES AND HEALTH, DEPT OF Dietary change and cardio-vascular risk in Asian migrants in Melbourne, Professor M L Wahlqvist (Medicine — Prince Henry’s Hospital) — $8 754
— Role of carbohydrate in the expression and function of hiv envelope gp 120/41, Drs P A Gleason and J McCluskey (Pathology and Immunology) — $57 240
— Health insurance decision processes and choice, Mr C A Burrows (Accounting and Finance) — $7 286
— Glialoma case — control study, Dr M R Salzberg (Social and Preventive Medicine) — $20 252
— Development and assessment of a community health care based screening program, Professor J J McNeil (Social and Preventive Medicine) — $27 725
— Expanded public health program, Professor J J McNeil (Social and Preventive Medicine) — $213 366

CONSERVATION, FORESTS AND LANDS, DEPT OF Assessment of interactive effects of drought, fire and flood on shrub-lands, heath and woodlands at Wyperfeld National Park, Dr T P O’Brien (Botany) — $1 150
— Dietary preference and population dynamics of the western grey kangaroo, Dr G D Sanson (Zoology) — $400

DEFENCE, DEPT OF Curing of polysulphide sealants, Professor B O West (Chemistry) — $31 000

EMPLOYMENT, EDUCATION AND TRAINING, DEPT OF National research fellowship for Dr G Heinze, Associate Professor R McPherson (Materials Engineering) — $2 184
— National research fellowship for Dr M Hedger, Professor D M De Kretser (Anatomy) — $28 574
— for the establishment of the Centre for Community Languages and cross-cultural communication, Associate Professor P Hanks (Centre for Migrant and Intercultural Studies) — $100 000
— for the establishment of the National Centre for Research and Development in Australian Studies, Professor J A Hay (Dean of Arts) — $176 000
— National research fellowship for Dr E Bakshi, Dr K S Murray (Chemistry) — $32 715
— National research fellowship for Ms C Lees, Dr A Bodi (Administrative Studies) — $27 771
— National research fellowship for Mr P Mineely, Dr D R Macfarlane (Chemistry) — $41 379
— The production of heritage handbook and fieldwork skills, Professor G J Davison (History) — $19 225
— for the establishment of a National Centre for cross-cultural studies in Law, Associate Professor T Carney and Professor C R Williams (Faculty of Law) — $90 005
— National research fellowship for Dr D Nero, Dr P Nagley (Biochemistry) — $29 155
— National research fellowship for Dr D S Cram, Dr R A Skurray (Microbiology) — $29 173
— National research fellowship for Dr B J C Perera, Dr R Keller (Civil Engineering) — $29 248
— Taxonomy and reproduction selected genera of the dictycales (phaeophyta), Drs J A Phillips and M N Clayton (Botany) — $32 000
— National research fellowship for Dr F H Whetton, Professor M A J Williams (Geography) — $29 085
— National research fellowship for Mr J Grinrod, Professor M A J Williams (Geography) — $23 355
— National research fellowship for Mr L XI-Guang, Professor O E Potter (Chemical Engineering) — $23 355
— Law — Aboriginal and ethnic communities, Professor R Baxt (Law) — $16 215
— National research fellowship for Dr G Shaw, Professor R V Short (Anatomy) — $34 899
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<td>Relationship between environmental light/visual mechanisms including cone pigments in inshore to open ocean coral fishes, Professor W R A Muntz and Dr D McB Williams (Science)</td>
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<td>National research fellowship for Mrs V Padhanaban, Associate Professor F Lawson (Chemical Engineering)</td>
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<td>Environment and Planning, DEPT OF The study of Piccaninnine Ponds, Dr N D Hallam (Botany)</td>
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<td>Industry, Technology and Commerce, DEPT OF Harmonic balancer (Torsional vibration damper), Dr L Koss (Mechanical Engineering)</td>
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<td>Automation of the raw materials handling in corrugated fibroboard plant, Associate Professor P Dransfield (Mechanical Engineering)</td>
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<td>Mid-infrared optical fibres, Associate Professor P L Rossiter (Materials Engineering)</td>
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<td>A high transition temperature superconductor and energy storage device, Associate Professors P L Rossiter and R McPherson (Materials Engineering)</td>
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<td>Particles in non-newtonian fluids, Dr P H T Uhlerr (Chemical Engineering)</td>
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<td>Development of techniques for the production and characterisation of opto-electronic materials and devices, Professor B O West, Associate Professor R S Dickson and Dr G B Deacon (Chemistry)</td>
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<td>Machine perception in a robotics context, Professor R A Jarvis (Electrical and Computer Systems Engineering)</td>
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<td>Literary Arts Board for production and distribution of report on library acquisitions of Australian creative writing, Professor J P Whyte (Graduate School of Librarianship)</td>
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<td>Primary Industry and Energy, DEPT OF (NERD&amp;D) Flow improvers for waxy crudes and distillates, Dr G A Holder (Chemical Engineering)</td>
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<td>Modelling of coal liquefaction reactions, Dr T Sridhar (Chemical Engineering)</td>
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<td>Hydrocarbon reservoir quality in the Cooper Eromanga Basins, Mr V J Wall (Earth Sciences)</td>
<td>$5 938</td>
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<td>Dispersion of atmospheric discharges in complex terrain and stability, Professor W H Melbourne (Mechanical Engineering)</td>
<td>$284 937</td>
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<td>Reserve Bank of Australia – Rural Credits Development Fund Effect of soil compaction on early growth of selected species in tall closed forest of Southern Victoria, Mrs Andrea Lindsay (Graduate School of Environmental Science)</td>
<td>$9 785</td>
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<td>Worksafe Australia – National Occupational Health and Safety Committee Support of a part-time senior lecturer in Occupational Health for the Master of Public Health course, Professor J J McNeil (Social and Preventive Medicine)</td>
<td>$12 190</td>
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Australian Research Grants Scheme

**Arts**

**Anthropology and Sociology**

**Professor J S Kahn** Social change and the role of the indigenous middle class in Malaysia and Indonesia — $10 000

**Centre for Bibliographical & Textual Studies**

**Associate Professor W Kirsop** Australian bookselling and publishing history — $7 500

**Centre of South East Asian Studies**

**Associate Professor D P Chandler** The transformation of Cambodian politics and society 1945–1979 — $3 650

**Dean of Arts**

**Professor J A Hay** The critical reception of K S Prichard’s works 1920–1988 — $9 000
English

Dr H H R Love Biographical study of James Edward Neild (1824-1906) — $5 000
Dr H H R Love Scribal publication in seventeenth century England — $5 000
Associate Professor W B Steele A critical edition of Kangaroo by D H Lawrence — $5 000
Dr P A Nestor The letter in nineteenth century women's fiction — $5 100

Geography

Professor M A Williams and Dr D A Adamson Late Cainozoic environments — five
million years ago to present — $76 219
Dr K B O'Connor The location of recent economic activity within Australia — $8 500
Dr S A P Kershaw and J A Peterson Quaternary history of the Western Plains,
Victoria — $9 500
Dr A P Kershaw The vegetation and environmental history of North-eastern Aus­
tralia — $13 500

History

Dr I F S Copland Popular support for the Pakistan movement in Kashmir, 1930 and
1948 — $2 000
Professor G J Davison A history of urban Australia to 1900 — $12 000
Dr F W Kent The society of renaissance Florence — $5 000

Indonesian and Malay Studies

Ms B L Hatley Modern drama and traditional regional theatre in Indonesia — $8 500

Japanese Studies Centre

Professor J V Neustupny Communicative interaction in Australian-Japanese contact
situations — $7 000

Slavic Languages

Professor G J Marvan Contrastive lexicology of the Slavic languages — $5 000
Dr M J Pavlyshyn Ukrainian theatre in Australia since 1948 — $5 000

Econometrics

Professor M L King and Dr M A Evans Specification error in econometric models —
$18 000

Economic History

Dr A E Dingle Biography of Ann Currie — $5 000

Economics

Dr D K Fausten Income-mobility of international capital movements — $14 000

Education

Monash Child Study Centre

Professor M E Poole Improving the education, work and life choices of young girls
and women — $26 700
Professor R T White, Dr R F Gunstone and Professor P J Fensham Teaching and
learning science in schools — $38 195
Dr P Gronn J R Darling — a study in leadership — $8 000
Dr G C Leder Students' processing of teacher explanations in mathematics classes —
$8 000

Engineering

Dr T Skidmore Studies of extensional flow of liquids — $18 000
Professor O E Potter Chemical engineering of liquid phase organic oxidations —
$11 200
Professor O E Potter High velocity gas-solid fluidisation — a fundamental study of
gas-solids contact efficiency — $10 000
Associate Professor P Lawson Studies in extractive metallurgy — $36 825
Dr G A Holder Kinetic studies of the generation of hydrogen sulphide by microbial
slimes in contact with sulphate-containing water and wastewater — $18 000
Civil Engineering

Professor N W Murray Development and experimental verification of a method for designing crashworthy structures — $25,209
Dr P L Darvall Softening hinges in concrete beams and frames — $27,375
Associate Professor P Grundy Effect of moving loads on deck structures — $14,000

Electrical and Computer Systems Engineering

Professor R A Jarvis Intelligent sensory-based robotics — $38,000

Materials Engineering

Associate Professor B A Parker The mechanical behaviour of microcrystalline alloys — $23,368
Dr C C Berndt Deformation mechanisms of thermally sprayed coatings — $15,900
Dr G H Edward Deformation mechanism mapping of polymers — $7,000
Drs J R Griffiths and Z H Stachurski Analysis of isothermal and nonisothermal transformation — $7,000
Associate Professor R McPherson Plasma synthesis of non-oxide ceramic powders and their sintering characteristics — $57,000
Dr B C Muddle Rapidly quenched aluminium alloys containing rare earth elements — $32,874
Professor I J Polmear Development of aluminium alloys with improved performance at elevated temperatures — $9,346
Dr P F Thomson Prediction of the profile of hot-rolled steel slab after edge-rolling — $7,000

Mechanical Engineering

Professor W H Melbourne Aerodynamic instabilities loading and response of bluff bodies in a turbulent flow — $34,989
Drs L L Koss and R J Alfredson Correlation of power variables and applications to vibration and acoustics — $16,000
Dr Y C Lam Effects of residual stress on fatigue crack growth — $8,180

Law

Professor R Baxt The role of directors in corporate governance — $15,000
Associate Professor T Carney Limits of the law addressing social issues — $15,000
Mr C R Williams Evidence — A definitive textbook of the Australian law of evidence — $10,000

Anatomy

Professor R V Short The control of reproduction in female marsupials — $65,477

Biochemistry

Professor M T W Hearn Studies with novel microparticulate matrices for the high performance hydrophobic electrostatic and affinity chromatography of biomacromolecules — $30,000
Dr W D Comper Hydrodynamics of the interstitium — $18,000
Drs J R Underwood and H M Geysen Definition of the specificity of anti-nuclear autoantibodies in health and disease using synthetic peptides — $14,000
Associate Professor H B Lukins, Dr P Nagley and Professor A W Linnane Structure and assembly of mitochondrial membranes — a biochemical genetic focus on the yeast ATP synthase complex — $48,163
Associate Professor B N Preston and Dr W D Comper Diffusive and convective transport in biological and model multicomponent systems — $29,000

Centre for Molecular Biology and Medicine

Dr P Nagley Expression of natural and synthetic genes coding for hydrophobic proteins targeted to mitochondria — $23,000

Microbiology

Dr R A Skurray Molecular analysis of the conjugative F plasmid — $19,000
Physiology
Dr M Weiss The adrenocortical special zone in possum trichosurus vulpecula — $25 000

Associate Professor R A Westerman Small cutaneous nerve function — mechanisms of prickle and itch — $26 145

Science

Botany
Dr J Beardall The role of nitrogen limitation in induction of CO2 concentrating mechanism in microalgae — $24 639
Dr M N Clayton Studies on the reproductive biology of brown algae — $26 000
Dr J Beardall Isolation and characterisation of the CO2 concentrating mechanism of microalgae and cyanobacteria — $8 877

Chemistry

Associate Professor R S Dickson Mixed metal clusters — their formation structures and reactivity — $5 000

Professor R D Brown and Dr P D Godfrey Molecules in space — phase 3 — $87 500

Dr D J Collins Studies of enolic ortho esters — $13 500
Dr G B Deacon Syntheses of organometallics and organoamidometal compounds by decarboxylation reactions — $5 000

Dr B M Gatehouse and Professors B O West and W R Jackson Crystal and molecular structure determination — $100 000

Dr B M Gatehouse Crystal chemistry of the solid state — $5 000

Dr R F C Brown and F W Eastwood Development of the benzene to fulvenecarbone rearrangement — $12 000

Pyrolytic generation of transient organic molecules — $17 497

Professor R D Brown Weak interstellar masers — $10 000

Dr G B Deacon Lanthanoid and actinoid chemistry — $18 000

Drs P D Godfrey and R J S Morrison Molecular structures in electronically excited states — $5 000

Dr R J S Morison Laser multiphoton ionization spectroscopy of beam cooled free radicals — $20 000

Professor W R Jackson and Dr P Perlmutter New synthetic methods involving organometallic catalysis — $12 500

Dr K S Murray Magnetic properties of inorganic and bioinorganic compounds — $23 000

Dr P Perlmutter New synthetic vaccines based on simulated antigen surfaces attached to synthetic porphyrin templates — $28 975

Associate Professor I D Rae Thermal degradation of deuterium-labelled vinyl polymers — $5 000

Professor B O West Studies of oxo and imido bridged heterobimetallic complexes — $10 000

Professor R L Martin New inorganic materials — $16 000

Computer Science

Professor C S Wallace Capability based multi-processor — $7 000

Professor J N Crossley and Dr J Jaffar Logic programming with interfaces — $18 000

Dean of Science

Professor W R Muntz A behavioural and optical study of visual resolution and sensitivity in cephalopods — $2 000

Earth Sciences

Dr G A Houseman Numerical simulation of the evolution of sedimentary basins formed by extension of the lithosphere — $10 000

Dr R T Gregory Stable isotope studies of archean hydrothermal systems, Pilbara block, Western Australia — $24 000

Professor G S Lister and Dr A Gladwell Extension tectonics and the thermomechanical evolution of metamorphic core complexes — $24 000

Dr G S Lister The physics of large-scale flow in hot polycrystalline masses — $37 763

Dr I A Nicholls Petrology/Geochemistry of active calc-alkaline volcanos, Java, Indonesia — $8 000

Dr D R Gray Structural and tectonic evolution of the Tasman organic zone in Northern Tasmania — $30 835

Drs P V Rich and T H Rich Evolution of the higher vertebrates with emphasis on Australasian taxa — a palaeo-biochemical approach — $10 000
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<td>Genetics</td>
<td>DR R A Cas Mineralised submarine felsic volcanic successions — eruptive processes,</td>
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<td>Dr J P Cull Geophysical constraints on crustal evolution — $4 950</td>
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<td>Drs P V Rich and T H Rich Intrasrif biota, sedimentary successions and climates of</td>
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<td>Australia's Southern margin in the late mesozoic — $23 000</td>
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<td>Genetics</td>
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<td>Dr S W McKernine Genetic variation in alcohol tolerance and alcohol dehydrogenase</td>
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<td>Genome organisation in pseudomonas</td>
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<td>Dr D R Smyth and Ms A L Lavelle A DNA sequence element dispersed through the</td>
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<td>genomes of lilium species</td>
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<td>Dr D J Karoly Southern hemisphere circulation features associated with equatorial</td>
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<td>Professor B R Morton Deflected jets — $12 000</td>
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<td>— Entrainment into cumulus clouds — $11 500</td>
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<td>Dr R K Smith The North Australian cloud line — $16 000</td>
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<td>Associate Professor J D Cashion and Dr R J Pollard A study of the structure and</td>
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<td>magnetic properties of solids using the mossbauer effect — $39 156</td>
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<td>Dr T R Finlayson Studies of pre-transformation effects and their role in the kinetic</td>
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<td>physical and mechanical properties of alloys — $24 200</td>
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<td>Dr T J Hicks Magnetism in atomically random systems — $30 437</td>
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<td>Drs T J Hicks and J R Davis Polarisation analysis of diffuse neutron scattering —</td>
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<td>F Ninio Vibrational modes and lattice stability solids — $21 312</td>
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<td>and conflict in decision making and learning — $24 100</td>
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<td>Professor R H Day Perceptual processes involved in visual illusions — $24 100</td>
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<td>Dr D J O'Dowd The role of domatia on Australian rainforest plants — plant-mite</td>
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<td>mutualism? — $15 492</td>
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**National Health and Medical Research Council**

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<td>Medicine</td>
<td>Anemia in Vanuatu and the relationship between thalassaemia and malaria — $46 096</td>
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<td>Dr D K Bowden</td>
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<td>Retinal degeneration and regeneration following damage to the optic nerve — $24 887</td>
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<td>Dr J B Kerr Local hormonal control of testicular function — $27 134</td>
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<td>Drs P D Temple-Smith and H Teichvali Structural and functional studies of cilia in</td>
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<td>Dr M B Renfree 1988 special research fellowship — $63 475</td>
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<td>Biochemistry</td>
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<td>Professor D A Lowther and Dr M S Baker Role of hydrogen peroxide in models of</td>
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<td>Professor M T Hearn Biochemical and biological studies with fibroblast growth</td>
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Professor D A Lowther and Dr M S Baker: Cellular protection against oxyradical damage during ageing — $29 646

Associate Professor S Marzuki, Professor F L Mastaglia and Dr W M Carrol: Expression of human mitochondrial genome — molecular pathology of human disorder — $37 148

Drs C J Handley, H C Robinson and S E D'Souza: Molecular structure and organisation of articular cartilage proteoglycan — $30 506

Drs C J Handley and H C Robinson: Role of growth factors in the repair of articular cartilage — $34 092

Drs L Austin, H Arthur and L J Roberts: Control of oxygen free-radical damage in muscular dystrophy — $36 775

Professor M T Hearn: Structural, biological and immunological studies with glycoprotein hormones — $81 552

Professor M T Hearn: Kinetic studies on unfolding/refolding pathways of pituitary protein hormones — $27 830

Drs L Austin, J G Watterson and Professor M T Hearn: Molecular control mechanisms in peripheral nerve regeneration — $59 304

Professor D A Lowther, Drs J S Bartholomew and A Sriratana: Entry of pmn elastase into cartilage and decreased chondrocyte metabolism — $27 499

Centre for Biomedical Simulation

Drs J B Chapman and T O Neild: Centre for Biomedical Simulation — $29 911

Centre for Early Human Development

Drs I R Cooker, P J Berger and A M Walker: Development of the respiratory system in the fetus from very early in gestation — $27 944

Drs A O Trounson, L Wiltson and I Kola: Embryonic biopsy for diagnosis of genetic and developmental defects — $62 058

Drs A O Trounson, D R MacFarlane, I Kola and A H Sathananthan: Cryopreservation of mammalian eggs and embryos — $59 878

Drs A O Trounson, R V Hyne, P D Temple-Smith and Mr G Southwick: Development of new techniques for treatment of severe male infertility — $60 915

Drs P J Berger and A M Walker: Initiation and control of ventilation in the newborn lamb — $65 385

Drs I Kola and A O Trounson: Teratogen effects on preimplantation mouse embryos — $29 073

Drs A M Walker and J Fleming: High frequency ventilation in neonatal pulmonary hypertension conditions — $30 836

Dr A M Walker: Cardiac structure and function after preterm birth — $73 215

Centre for Molecular Biology and Medicine

Associate Professor S Marzuki, Drs G L McMullen and Professor A W Linnane: Antipeptide antibodies specific to individual subtypes of human interferon — $29 776

Professor A W Linnane, Drs R J Devenish and B F Cheetham: Characterisation of acid labile alpha interferon — $54 779

Professor A W Linnane, Drs P J Tutton and I R Mackay: The effect of novel interferons on human melanomas in vitro and in vivo — $118 822

Associate Professor S Marzuki and Dr R J Devenish: Primary biliary cirrhosis — molecular genetic studies of yeast reactive antigens — $59 628

Professor A W Linnane and Dr B F Cheetham: Interferon action — the use of murine interferon-a analogs in vitro and in vivo — $69 069

Geriatric Medicine

Professor N Christophidis: Endogenous thiol pools and effects of treatment in arthritis and related disorders — $26 505

Medicine — Alfred Hospital

Professor B G Firkin: Role of blood platelets and coagulation factors in normal homeostasis and disease — $282 301

Dr S M Jarm 1988 medical postgraduate research scholarship — $17 619

Medicine — Prince Henry's Hospital

Dr N W Boyle 1988 C J Martin fellowship — $58 447

Dr R Buchbinder 1988 medical postgraduate research scholarship — $15 399

Drs S R Holdsworth and P G Tipping: Regulation of macrophage activation in experimental glomerulonephritis — $84 816

Dr D Langton-Joy 1988 Medical postgraduate research scholarship — $15 399

Drs R Iansik and M K Horne: A study of the motor function of the basal ganglia-cortical loop — $63 292
Microbiology

Dr J K Davies The genetics of phase and antigenic variation in neisseria gonorrhoeae — $27 953
Dr R A Skurray Molecular and genetic analysis of antibiotic resistance in staphylococci — $62 743
Dr R A Strugnell 1988 C J Martin fellowship — $28 537
Professor E G Westaway and Dr P J Wright Cloning, sequencing and expression of flavivirus genes — $62 004
Professor E G Westaway Molecular biology of flavivirus kunjin — gene function in replication and immunity — $48 279
Dr B Adler and Professor S Faine Identification and characterisation of protective antigens of leptospira — $75 551

Obstetrics and Gynaecology

Dr J Kumar 1988 Overseas visiting postgraduate research scholarship — $24 239
Dr P A Rogers, Professor W A Walters and Dr C R Murphy In vivo and ultrastructural studies on implantation and uterine receptivity — $38 018

Pathology and Immunology

Dr R L Boyd and Professor J W Goding Phenotypic and functional analysis of thymic stromal cell complexes — $38 837
Dr E B Benson and Professor J W Goding Studies of IGA regulation — $38 988
Dr P A Gleeson and Professor J W Goding Structure and function of the oligosaccharide chains of transferrin receptor — $31 107
Dr B H Tooh The gastrin receptor pernicious anaemia — $26 628
Gastric microsomal autoantigen and pernicious anaemia — $43 486
Dr J McCluskey and Professor J W Goding Production, purification and analysis of secreted MHC class I antigens — $36 049

Pharmacology

Drs J N O’Neil, M E Story, G M Handberg and J D Paul Adrenoceptors and uterine contractility — regulation by hormones, pregnancy and nerves — $54 410

Physiology

Drs G S Taylor and R A Bywater Electrophysiology of colonic neurones — $32 657
Drs U Proske and D L Morgan Measurement of stiffness of intact tendon over a wide range of tensions — $15 070
Dr A R Luff Motor unit sprouting in young and old muscle — $26 943
Drs U Proske and J E Gregory Muscle receptors — afferent responses reflex action and central projections — $75 731
Dr L M Aitken The representation of auditory space in the cerebral cortex — $53 552
Professor M E Holman and Dr H C Parking Ion channels in visceral smooth muscle — $44 242
Professor G D Thorburn Fetal growth, functional development and parturition — $487 436
Drs C L Gibbs and I R Wendt Biochemical and energetic effects of volume and pressure overload hypertrophy — $37 236
Drs S M Rees and J A Rawson Vulnerability of the developing brain in experimental growth retardation — $49 739
Professors M E Holman and G D Thorburn Control of uterine motility during pregnancy and parturition — $44 395
Professor R A Westerman, Dr R E Widdop and Professor P Zimmet Neurovascular function in diabetes mellitus, non-invasive tests — $29 716
Ms K A Dickson 1988 biomedical postgraduate scholarship — $10 345
Dr J A Rawson Control and modification of cerebellar circuits by climbing fibres — $20 026
Dr R J Lang and Professor M E Holman Patch clamp studies of receptor-channel interactions in smooth muscle — $47 379
Drs U Proske and D L Morgan The muscle’s previous history determines the size of the stretch reflex in man — $28 786
Dr T O Neild Action of neuropeptide y on arterioles — $56 020
Drs C L Gibbs and I R Wendt Basal and active metabolism of smooth and cardiac muscle — $80 110

Surgery — Alfred Hospital

Professor P E O’Brien Role of the microcirculation in protection of the gastric mucosa — $24 217

50
Surgery — Prince Henry's Hospital

**Professor V C Marshall, Drs P Jablonski and D F Scott** A new solution for organ preservation — $30 419

**Genetics**

**Professor B W Holloway, Drs A F Morgan and L V Asch** Genetics of mucoid pseudomonas aeruginosa strains from cystic fibrosis patients — $35 251

**Dr V Krishnapillai and P J Coloe** DNA probes for the identification of campylobacter jejuni — $30 740

**Physics**

**Dr P P Phakey, Professor W A Rachinger and Dr H Orans** In-depth and surface remineralisation of tooth enamel — $33 069

**Psychology**

**Dr W R Webster** Functional mapping of auditory and visual system with 2-deoxyglucose and glucose — $33 185

**Zoology**

**Dr J N Nelson and D P Crewther** Neural development in the marsupial native cat — $31 447

Centre for Human Bioethics

**Professor P A Singer, Dr H Kuhse and Ms E Gaze** Bioethical issues in the use of human fetal tissue embryos and gametes — $63 559

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**Victorian Government**

**Agriculture and Rural Affairs, Dept of (Plant Research Institute)** Postgraduate scholarship for Ms Kamakshi Padmanabhan, Dr P Merriman (Microbiology) — $4 500

**Coal Corporation of Victoria** Structure and reactivity of Victorian brown coal, Professor W R Jackson (Chemistry) — $77 773

**Dandenong Valley Authority AWRAC partnership research program: Design guidelines for stable channels and waterways (87/05), Professor R G Mein (Civil Engineering)** — $4 263

**Health Department Victoria** Evaluation of pilot school community based drug education, Dr J Northfield (Education) — $42 000

**Industry, Technology and Resources, Dept of Developing a pre-business plan for the NMR spectrometer, Dr J R Pilbrow (Physics)** — $17 001

**Law Department, Victoria** Support for the Chair of Forensic Medicine, Professor S M Cordner (Forensic Medicine) — $157 987

**Melbourne and Metropolitan Board of Works AWRAC partnership research program: Design guidelines for stable channels and waterways (87/05), Professor R G Mein (Civil Engineering)** — $4 263

— Sewer infiltration model and control strategy for management of flow in the Melbourne sewerage system, Dr K P Dabke and Associate Professor R G Mein (Electrical/Civil Engineering) — $6 400

**Ministry for Planning and Environment for Monash precinct study, Dr K O'Conner (Vice-Chancellor's Department)** — $20 000

**Premier and Cabinet, Dept of MacFarlane Burnet biomedical research scholarship for Ms K Burgess, Dr G Jenkin (Physiology)** — $10 768

**Road Construction Authority** Repeated load triaxial testing of pavement materials, Dr A K Parkin (Civil Engineering) — $3 600

**Road Traffic Authority Sponsorship of Accident Research Centre, Dr A P Valcan (Accident Research Centre)** — $147 700

— Energy absorbing structures for heavy vehicles, Professor N W Murray (Civil Engineering) — $26 000

— for RRT telephone survey, (Accident Research Centre) — $5 000

**Rural Water Commission of Victoria AWRAC partnership research program: Design guidelines for stable channels and waterways (87/05), Professor R G Mein (Civil Engineering)** — $4 263

**State Electricity Commission, Victoria** A high transition temperature superconductor and energy storage device, Associate Professors P L Rossiter and R McPherson (Materials Engineering) — $12 763

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TRANSPORT ACCIDENT COMMISSION Sponsorship of Accident Research Centre, Dr A P Valcan (Accident Research Centre) — $195 400
— Evaluation of the effect of establishing the Alfred Hospital Trauma Centre, Dr A P Valcan (Accident Research Centre) — $3 500
— Injury profiles of pedal cyclist casualties wearing and not wearing helmets, Associate Professor F T McDermott (Surgery — Alfred Hospital) — $114 300
V L I N E Investigation of railway bridge design, Associate Professor P Grundy (Civil Engineering) — $15 000
W A T E R R E S O U R C E S V I C T O R I A, D E P T OF AWRAC partnership research program: Design guidelines for stable channels and waterways (87/05), Professor R G Mein (Civil Engineering) — $4 263
— Salinity research in northern Victoria, Professor M A J Williams (Geography) — $9 900

Trusts, foundations and charitable organisations
ANGLISS (VICTORIA) CHARITABLE FUND, THE WILLIAM Renal ischemia and reperfusion injury in isolated perfused kidney, Dr W D Comper (Biochemistry) — $2 000
ANTI CANCER COUNCIL OF VICTORIA PhD research scholarship for Mr K Nelson-Reed, (Chemistry) — $13 942
— New platinum and palladium complex anti-cancer agents, Drs G B Deacon, I Roos and L Wakefin (Chemistry) — $61 030
— Effects of cisplatinum on blood and tumour glutathione correlations with toxicity and efficacy, Drs N Christophidis and J Zalcberg (Geriatric Medicine) — $21 000
— Analysis of thymic stromal elements in normal and neoplastic states, Drs R L Boyd and H A Ward (Pathology and Immunology) — $28 000
— Postgraduate medical research fellowship for Dr M Buckley, (Pathology and Immunology) — $33 720
— Gastric receptor — the cytoskeleton and gastrointestinal neoplasm, Associate Professor B H Toh (Pathology and Immunology) — $33 000
— Mutant human interferons in topical treatment of cancer, Professor A W Limnane and Dr I R Mackay (Molecular Biology and Medicine) — $20 000
— Membrane proteins of human plasma cells, Professor J W Goding (Pathology and Immunology) — $52 800
ARTHRITIS FOUNDATION OF AUSTRALIA Movement of proteoglycans in degenerative articular cartilage, Dr W D Comper (Biochemistry) — $750
— Mechanisms of cartilage degradation in experimental arthritis, Professor D A Lowther (Biochemistry) — $500
— Proteoglycan catabolism in normal and degenerative articular cartilage, Dr C J Handley (Biochemistry) — $4 500
— Mary Paxton Gibson scholarship for Mr Chee Keng Ng, Dr C J Handley (Biochemistry) — $9 902
— Myeloperoxidase and acute inflammatory arthritis, Dr M S Baker and Professor D A Lowther (Biochemistry) — $4 000
ARTHRITIS FOUNDATION (USA) Fellowship stipend for Dr J McCluskey for project: Analysis of chimeric class II class I mac gene products, Professor J W Goding (Pathology and Immunology) — $42 274
ASTHMA FOUNDATION OF VICTORIA Cellular mechanisms underlying desensitisation of patients with allergic rhinitis and asthma, Drs R M Puy, E M Benson and D Czarny (Pathology and Immunology) — $9 300
— The role of neurogenic inflammation in asthma, Dr R D Helme (Medicine — Prince Henry's Hospital) — $9 400
AUSTRALIAN BRAIN FOUNDATION Ocular motor control in motor neurone disease, Dr I Williams (Medicine — Prince Henry's Hospital) — $9 000
AUSTRALIAN KIDNEY FOUNDATION Mechanisms of glomerular injury induced by deposited antibody, Dr S R Holdsworth (Medicine — Prince Henry's Hospital) — $5 000
AUSTRALIAN KOALA FOUNDATION Reproductive hormones in koalas from populations with different reproductive success, Dr I R McDonald (Physiology) — $2 000
— Detection of antichlamydial antibodies in koala serum, Dr G F Cross and Mr J Bashiruddin (Microbiology) — $1 500
— Chlamydiosis in wild population of koalas in Victoria, Associate Professor A Lee (Zoology) — $3 000
AUSTRALIAN ROTARY HEALTH RESEARCH FUND Upper airway and respiratory responses to prolonged nasal obstruction in lambs during sleep and wakefulness, Dr R Harding (Physiology) — $10 000
AUSTRALIAN TOBACCO RESEARCH FOUNDATION Postgraduate research scholarship for Mr G Coppola, Professor M T W Hearn (Biochemistry) — $10 987
Smoking in the initiation of immune pulmonary injury, Dr S R Holdsworth (Medicine - Prince Henry's Hospital) — $20 000

Role of polymorphonuclear cell derived oxy radicals in the repair phase of models of emphysema, Professor D A Lowther and Dr M S Baker (Biochemistry) — $37 773

Effect of tobacco smoking on lung angiogenic factors, Professor M T W Hearn and Dr J Bertolini (Biochemistry) — $35 522

AUSTRALIA/JAPAN FOUNDATION, The Communication strategies in Australian/Japanese business negotiations, Marriott, Ms H (Japanese) — $5 700

BACK PAIN RESEARCH FOUNDATION Analysis of the upper limb tension test in patients and cadavers, Dr P Selveratnam and Associate Professor E Glasgow (Anatomy) — $500

BROCKHOPP FOUNDATION LIMITED, The Jack Inhibition of tumour vascularisation by antibodies to heparin binding growth factors (hbgr), Drs J Underwood, J Bertolini and Professor M T W Hearn (Biochemistry) — $3 800

The role of pituitary peptides in the testis, Dr G P Risbridger and Miss J Clements (Anatomy) — $13 000

1988 research fellowship for Dr N F Bright, Professor V Marshall (Surgery - Prince Henry's Hospital) — $24 000

To support the centre's melanoma research project, (Centre for Molecular Biology and Medicine) — $25 000

Respiratory muscle development in the fetus and newborn structure function and susceptibility to fatigue, Dr A M Walker (Centre for Early Human Development) — $3 000

Eye movements in the detection of motor neurone disease and as an index of the severity of the disease, Dr I M Williams (Medicine - Prince Henry's Hospital) — $5 000

Ultrastructural studies in human post-menopausal endometrium following steroid replacement therapy, Dr P A W Rogers (Centre for Early Human Development) — $26 144

BUCKLAND FOUNDATION, THE WILLIAM The isolated perfused kidney as a model of ischemic acute renal failure, Dr W D Comper (Biochemistry) — $6 800

Hypertension in the elderly, Dr C Silagy (Community Medicine) — $7 000

The role of pituitary peptides in the testis, Dr G P Risbridger and Miss J Clements (Anatomy) — $13 084

Congenital and acquired nystagmus — the effect of contact lenses and of auditory feedback on nystagmus intensity, Dr I Williams (Medicine - Prince Henry's Hospital) — $6 500

Molecular cloning of autoantigens targeted in human autoimmune gastritis, Dr B Toh (Pathology and Immunology) — $6 490

Establishment of a monoclonal production facility, Dr J R Underwood and Professor M T W Hearn (Biochemistry) — $7 500

Characterisation of the cellular signals for protein sorting and secretion — implication for production of recombinant molecules in high yield, Dr I A Gleeson (Pathology and Immunology) — $8 000

COLLIER CHARITABLE FUND for use in Department of Mechanical Engineering — $1 500

for use in Department of Romance Languages — $750
for use in Graduate School of Environmental Science — $1 152
for use in Department of Visual Arts — $795
for use in Department of Zoology — $1 401
for use in Department of Mathematics — $3 174
for use in Department of Paediatrics — $3 000
for use in Department of Japanese — $3 228

FELTON BEQUESTS COMMITTEE, THE An evaluation of normality of female mice treated with anti-cancer drug before pregnancy, Dr I Kola (Centre for Early Human Development) — $8 000

HALLENGEIN CHARITABLE FUND, ROSE E towards salary costs for technician in IVF research program, Dr P A W Rogers (Centre For Early Human Development) — $3 000

INGRAM TRUST, M A Reproductive energetics of the burrow-nesting rainbow bee-eater, Dr A Lill (Zoology) — $780

Role of stress in the high mortality associated with capture and captivity in the platypus, Dr I R McDonald (Physiology) — $1 000

Dispersal of rainforest trees by small fruit bats, Dr J E Nelson (Zoology) — $1 000

ISOBEL HILL BROWN CHARITABLE TRUST Early identification of children at risk for future reading/spelling disabilities — a longitudinal study, Dr J Glenister (Education) — $700

KILLION DIABETES FOUNDATION To evaluate the functional role of CD4 antigen in T-cell activation, Dr J McCluskey (Pathology and Immunology) — $3 000
LITTLEWOOD COMBINED CHARITIES CLUB, JEAN to purchase of equipment for hypertension research, Dr B P McGrath (Medicine — Prince Henry’s Hospital) — $3 000

MMS HYPERTENSION RESEARCH FUND for hypertension research, Associate Professor B P McGrath (Medicine — Prince Henry’s Hospital) — $37 702

MYER CHARITABLE TRUST, E B Effects of insulin-like growth factors in the growth retarded neonatal rat, Dr R Frampton (Paediatrics) — $2 200

NATIONAL HEART FOUNDATION OF AUSTRALIA Cardiovascular responses to exercise in heart failure, Associate Professor B P McGrath (Medicine — Prince Henry’s Hospital) — $25 604

— Biofeedback training for heart rate reactivity control, Dr C F Sharpley (Education) — $24 000

— Research scholarship for Ms M Tare, Dr H C Partington (Physiology) — $9 466

— Modification of hyper-reactivity in type A subjects, Dr K V Jones (Psychological Medicine — Prince Henry’s Hospital) — $23 826

— Studies of low density lipoprotein receptor in patients with arteriosclerosis, Professor J Goding (Pathology and Immunology) — $35 724

— for use in Primary Care Research Unit, (Community Medicine) — $535

POTTER FOUNDATION, THE Ian for research, Professor M T W Hearn (Biochemistry) — $10 000

— for research, Dr E Benson (Pathology and Immunology) — $5 000

RAMACIOTTI FOUNDATIONS, CLAYE and VERA towards expenses of visit of Dr I D Morris, Professor D M De Kretser (Anatomy) — $3 500

— Nociceptor activity and dilation of pial blood vessels on the feline cord dorsum, Associate Professor R A Westerman (Physiology) — $10 000

RESEARCH FUND FOR EARLY HUMAN DEVELOPMENT towards research, Dr A M Walker (Centre for Early Human Development) — $12 000

ROTHMANS FOUNDATION Rothmans fellowship to assist in development of postgraduate studies in Australian universities, Dr J Doyle (Mathematics) — $28 500

SUDDEN INFANT DEATH RESEARCH FOUNDATION Amniotic fluid volume and fetal lung development, Dr R Harding (Physiology) — $3 000

— Catecholamine and serotonin neurones in the brainstem of fetal and newborn lambs, Dr D W Walker (Physiology) — $3 000

— Postgraduate research scholarship for Stephen A Joseph, Dr D W Walker (Physiology) — $8 884

— Postgraduate research scholarship for Catherine L Coulter, Dr I C McMillen (Physiology) — $8 884

— Salivary cortisol — an index of hypoaxemic stress in the new born infant, Dr I C McMillen (Physiology) — $3 000

— Susceptibility of newborn respiratory muscles to fatigue, Dr P J Berger (Centre for Early Human Development) — $3 000

— Sleep, arousal and thermal stress in the newborn lamb, Dr A M Walker (Centre for Early Human Development) — $14 180

SUNSHINE FOUNDATION Force feedback for an electrically powered prosthetic limb, Dr B A Russell (Electrical and Computer Systems Engineering) — $1 350

TRUSTEES OF THE NATIONAL LIBRARY OF NEW ZEALAND A bibliographic study of nineteenth century New Zealand newspapers, Dr R Harvey (Graduate School of Librarianship) — $4 000

UTAH FOUNDATION Purification and characterisation of T cell lymphokines that regulate IGA secretion, Dr E Benson (Pathology and Immunology) — $6 178

VICTORIA LAW FOUNDATION Aboriginal communities law curriculum materials, Dr T R Baxt (Law) — $9 947

— Child abuse tracking, Acting Professor T Brown (Social Work) — $13 874

WADDELL TRUST, C H & C E Renal ischaemia and reperfusion injury in isolated perfused kidney, Dr W D Comper and Professor E F Glasgow (Biochemistry) — $3 000

WHITE, ESTATE OF THE LATE ANNA M Early identification of children at risk for future reading/spelling disabilities — a longitudinal study, Dr J Glenister (Education) — $750

Industry and commerce

ACI INSULATION Heat flow through ceilings and roofs of buildings, Associate Professor A Williams (Mechanical Engineering) — $2 500

ACL BEARING COMPANY Research into aluminium bearings with improved mechanical properties, Associate Professor B A Parker (Materials Engineering) — $3 375

ANZ BANK — DP OPERATIONS towards costs of two Monash information systems scholarships — $16 000
ABBOTT AUSTRALASIA PTY LTD Clinical studies M86-008 Abbott 56268 versus Penicillin V and M87-003 comparative study of Abbott 56268 and Ampicillin, Professor N E Carson (Community Medicine) — $13 074

ARTHUR ANDERSEN & CO towards cost of Monash information systems scholarship — $8 000

ASTRA PHARMACEUTICALS PTY LTD for nutrition research, Professor M L Wahlqvist (Medicine — Prince Henry’s Hospital) — $1 500

AVSPEc Pty Ltd towards research, Professor M T W Hearn (Biochemistry) — $600

AUSTRALIAN ASSOCIATED BREWERS, THE Structural alterations in the brain in relation to alcohol intake, Dr S C Phillips (Anatomy) — $19 629

AUSTRALIAN ASSOCIATED SMELTERS Zinc alloy sheet produced by strip casting, Dr B Parker (Materials Engineering) — $5 417

AUSTRALIAN CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION Microbiology of enhanced biological uptake of phosphorus from sewage, Dr R C Bayly (Microbiology) — $20 000

AUSTRALIAN DRUG DEVELOPMENT LIMITED Synthesis, testing and development of antiasthma and antidiabetic drug, Professors A L Boura and W R Jackson (Pharmacology/Chemistry) — $160 000

— Synthesis testing and development of synthetic peptides and peptide analogues showing insulin-like activities and relevance to treatment of diabetes, Professor M T W Hearn (Biochemistry) — $50 000

AUSTRALIAN MINERAL INDUSTRIES RESEARCH ASSOCIATION LIMITED Condition monitoring of mineral processing machinery, Mr J S Stecki (Mechanical Engineering) — $60 075

— Hydrothermal mobilisation, transport and deposition of platinum group elements, Dr M Bloom (Earth Sciences) — $18 900

AUSTRALIAN PAPER MANUFACTURERS towards cost of Monash information systems scholarship — $8 000

AUSTRALIAN WELDING RESEARCH ASSOCIATION Assessment of creep damage in weldments of pressure vessel steels operating at 480 to 540 degrees Celsius, Dr B C Muddle (Materials Engineering) — $11 283

BHP GOLD MINES LIMITED Research scholarship for Dr W H Jay, Associate Professor F Lawson (Chemical Engineering) — $11 026

BIOTECHNOLOGY AUSTRALIA PTY LTD Inhibin research, Professor D M De Kretser (Anatomy) — $82 243

— Infertility research collaboration, Professor D M De Kretser (Anatomy) — $150 000

BROKEN HILL ASSOCIATED SMELTERS PTY LIMITED, THE Research scholarship for Miss S Y Lee for project: Chloride-sulphate leaching kinetics of chalcocite type materials, Associate Professor F Lawson (Chemical Engineering) — $2 471

— Research scholarship for Mr Nan Li for project: Kinetics of the reduction of arsenic V to arsenic III with sulphur dioxide, Associate Professor F Lawson (Chemical Engineering) — $14 249

BROKEN HILL PROPRIETARY COMPANY LTD, THE Sponsorship of Monash information systems scholarships — $16 000

BRUCE SMALL ENTERPRISES Research into child abuse, Mr C R Goddard (Social Work) — $10 000

BURONGA HILL PTY LTD Growth of yeast contaminates at low pressure, Drs G F Cross and J May (Microbiology) — $6 000

CRA SERVICES LIMITED for Mathematics Education Research Centre, Dr D Blane (Mathematics Education Centre) — $25 000

CELGENE CORPORATION Genetics of gram-negative micro organisms, Professor B W Holloway (Genetics) — $71 304

COLES MYER LTD Sponsorship of Monash information systems scholarships — $16 000

COMALCO RESEARCH CENTRE Scholarship for second year of PhD studies for Mr P K Sharp, Dr J Griffiths (Materials Engineering) — $16 095

COOPER S AND LYBRAND (ACT) PTY LTD Sponsorship of Monash information systems scholarship, $8 000

DATAC SOFTWARE PTY LTD Sponsorship of Monash information systems scholarship — $4 000

DATATECH PTY LTD 1988 grant for controlled release technology project, Professor W R Jackson (Chemistry) — $36 000

DAVID BULL LABORATORIES PTY LTD Platinum anti-cancer compounds, Dr G B Deacon (Chemistry) — $15 000

DIGITAL EQUIPMENT CORPORATION (AUSTRALIA) PTY LTD Sponsorship of Monash information systems scholarship — $8 000

ELECTRICITY SUPPLY ASSOCIATION OF AUSTRALIA Wind tunnel facility, Professor W H Melbourne (Mechanical Engineering) — $50 400
Planning and design of controls on an overall system basis to achieve small disturbance stability whilst properly accounting for load characteristics, Dr C Berger (Electrical and Computer Systems Engineering) — $17 000

Calibration of the Victorian lightning location system, Dr D B Geisner (Electrical and Computer Systems Engineering) — $3 200

Noise reduction for power station main and reheat steam piping, Dr L L Koss (Mechanical Engineering) — $15 300

Search for precursors of electrical failure of polyethylene insulant in medium-voltage power distribution cable, Dr R J Fleming (Physics) — $11 360

Energy storage systems based on superconductivity technology, Associate Professor W J Bonwick (Electrical and Computer Systems Engineering) — $33 000

ESANDA FINANCE CORPORATION LTD Sponsorship of Monash information systems scholarships — $8 000

ESSEX LABORATORIES PTY LTD for research by the Department of Community Medicine, Professor N E Carson (Community Medicine) — $9 000

ESSO AUSTRALIA LTD for use in Department of Chemical Engineering — $2 000

— for use in Department of Electrical and Computer Systems Engineering — $2 000

— for use in Department of Mechanical Engineering — $2 000

— for use in Department of Civil Engineering — $2 000

— for use in Department of Materials Engineering — $2 000

HOECHST AUSTRALIA LTD Hoechst polymer research scholarship for Ms Fugen Daver, Associate Professor B W Cherry (Materials Engineering) — $5 000

IBM AUSTRALIA LIMITED Sponsorship of Monash information systems scholarships — $32 000

ICI AUSTRALIA OPERATIONS PTY LTD Research scholarship for Mr H Jacobs, Professor W R Jackson (Chemistry) — $5 712

Biodegradation of hexachlorobenzene, Professor B W Holloway (Genetics) — $77 569

Fibre optic chemical sensors, Professor D G Lampard (Electrical and Computer Systems Engineering) — $30 795

— Sponsorship of Monash information systems scholarship — $8 000

JENNINGS INDUSTRIES PTY LTD Sponsorship of Monash information systems scholarship — $8 000

KALGOORLIE MINING ASSOCIATES for pilot isotope study, (Earth Sciences) — $7 500

MACDONALD MEDICAL PTY LTD for use by Primary Care Research Unit, (Department of Community Medicine) — $75

MAY AND BAKER AUSTRALIA PTY LTD Rheumatology research, Dr P Ryan (Medicine — Alfred Hospital) — $2 500

MAYNE NICKLESS COMPUTER SERVICES Sponsorship of Monash information systems scholarship — $8 000

MELBOURNE RESEARCH LABORATORIES (BHP) Research scholarship for Mr P H Cheang, Associate Professor R McPherson (Materials Engineering) — $11 907

— Research scholarship for Ms P Wasenaar, Associate Professor R McPherson (Materials Engineering) — $22 877

METROPOLITAN TRANSIT AUTHORITY Sponsorship of Monash information systems scholarships — $16 000

MOBIL OIL AUSTRALIA LTD Sponsorship of Monash information systems scholarships — $16 000

NCR AUSTRALIA PTY LTD Sponsorship of Monash information systems scholarship — $8 000

NATIONAL AUSTRALIA BANK Sponsorship of Monash information systems scholarships — $16 000

NATIONAL MUTUAL LIFE ASSOCIATION Sponsorship of Monash information systems scholarships — $16 000

NILCRA CERAMICS PTY LTD LIMITED Creep and static fatigue of mgpsz, Dr J R Griffiths (Materials Engineering) — $5 791

NIXDORF COMPUTERS PTY LTD Sponsorship of Monash information systems scholarship — $8 000

NUTRA SWEET COMPANY, THE Nutrition research, Professor M L Wahlqvist (Medicine — Prince Henry’s Hospital) — $7 023

PHARMACIA (AUSTRALIA) PTY LTD Development of new hplc applications for the separation of proteins and peptides, Professor M T W Hearn (Biochemistry) — $30 000
QLone Limited: Development of new procedures for the purification of monoclonal antibodies, Professor M T W Hearn (Biochemistry) — $23 692
Repsco Information Services: Sponsorship of Monash information systems scholarships — $16 000
Reserve Bank of Australia—Economic and Financial Research Fund: Financing government — 200 years of money, debt and taxation, Professor M G Porter (Centre of Policy Study) — $25 452
Roche Products Pty Ltd: Costs of clinical trial in female patients with uncomplicated UTI, Professor N E Carson (Community Medicine) — $7 500
Scherer Pty Ltd: R P Nutrition research, Professor M L Wahlqvist (Medicine — Prince Henry's Hospital) — $23 300
Smith Kline and French Laboratories (Aust) Ltd: Sponsorship of video disc education program, Professor N E Carson (Community Medicine) — $5 000
Swiss Aluminium Limited: Research scholarship for project: Strip coating of aluminium, Associate Professor B A Parker (Materials Engineering) — $17 670
Vivian Nominees Pty Ltd: Towards costs of research, Dr P Temple-Smith (Anatomy) — $1 400
Western Mining Corporation Limited: to support teaching in the Department of Earth Sciences — $3 000
Westpac Banking Corporation: Sponsorship of Monash information systems scholarships — $16 000
Worksafe Australia: Brain tumor case control study, Professor J J McNeil (Social and Preventive Medicine) — $10 000

Others

Alfred Hospital—Peter Grant Hay Research Fund: Transferrin receptors in proliferative diseases and tumours of skin, Professor J W Goding (Pathology and Immunology) — $24 000
— Effect on somatostatin angiogenesis in experimental chronic tumours, Professor P E O'Brien (Surgery — Alfred Hospital) — $15 045
— Development of techniques for autologous and heterologous skin culture and grafting, Associate Professor J P Masterton and Mr Wale (Surgery — Alfred Hospital) — $10 500
— Evaluation of tumour spread and tumour burden in patients with cutaneous T cell lymphoma by immunophenotyping, Dr E Benson (Pathology and Immunology) — $16 750
— Life preservation and liver transplantation, Mr C Christophi and Mr McInnes (Surgery — Alfred Hospital) — $11 250
American Cyanamid Company: Study of microheterogenous forms of cyonemiai recombinant bovine somatotropin, Professor M T W Hearn (Biochemistry) — $20 685
Benham, Mr and Mrs (UK): for muscular dystrophy research, Dr L Austin (Biochemistry) — $20
Caughey, T A and T K: to muscular dystrophy research, Dr L Austin (Biochemistry) — $50
Chisholm Institute of Technology: Centre for Stream Ecology, Dr P S Lake (Zoology) — $47 010
Clarke and Family, Carol A: for muscular dystrophy research, Dr L Austin (Biochemistry) — $50
Dracou, Dr G B: for use in the Department of Chemistry — $200
Dick, Mr and Mrs T J: for muscular dystrophy research, Dr L Austin (Biochemistry) — $20
DuPont De Nemours & Co (USA), E I Riser reactors, Professor O E Potter (Chemical Engineering) — $54 740
Eamsiri, Miss A: Coal research, Professor W R Jackson (Chemistry) — $2 880
Family Health International Research (USA): Contraceptive effects of breastfeeding, Professor R V Short (Physiology) — $19 680
Ferris, Mr and Mrs C: for hypertension research, (Medicine — Prince Henry's Hospital) — $30
Fuller, N L and P T: for muscular dystrophy research, Dr L Austin (Biochemistry) — $750
Garvan Institute of Medical Research: Influence of hormones in the growth of human malignant melanomas, Dr D H Barkla (Anatomy) — $20 484
German Shepherd Dog Club (Ballarat Branch): Thir to muscular dystrophy research, Dr L Austin (Biochemistry) — $2 000
Gordon, H and U: for muscular dystrophy research, Dr L Austin (Biochemistry) — $20
Griesmayr, O and B M: for muscular dystrophy research, Dr L Austin (Biochemistry) — $50
GRIFFITHS, DR AND MRS J R Research scholarship for Mr S Chew, Dr J R Griffiths (Materials Engineering) — $6 000

GURUSINGHE, MS ASHTA for muscular dystrophy research, Dr L Austin (Biochemistry) — $3 000

HARRISON, J P for muscular dystrophy research, Dr L Austin (Biochemistry) — $5

HEALY, R L for muscular dystrophy research, Dr L Austin (Biochemistry) — $200

HEALY, RICHARD A for muscular dystrophy research, Dr L Austin (Biochemistry) — $500

IVF FRIENDS for research in Centre for Early Human Development, Dr A O Trounson (Centre for Early Human Development) — $4 500

IRWIN, MRS L for hypertension research, (Medicine — Prince Henry’s Hospital) — $50

IRWIN, MR AND MRS K for hypertension research, (Medicine — Prince Henry’s Hospital) — $100

IRWIN, MRS M E for hypertension research, (Medicine — Prince Henry’s Hospital) — $1 000

KINGSTON CENTRE Reimbursement of expenses of running Monash Geriatric Centre, (Faculty of Medicine) — $23 850

KIRKPATRICK, MRS M K for muscular dystrophy research, Dr L Austin (Biochemistry) — $100

LANE, A AND M for muscular dystrophy research, Dr L Austin (Biochemistry) — $30

LAW REFORM COMMISSION OF VICTORIA for phase 2 of project: Child sexual assault, Professor T C Brown (Social Work) — $7 874

MACQUARIE UNIVERSITY Genetics of pre-eclampsia/eclampsia, Dr S P Brennecke (Obstetrics and Gynaecology) — $5 000

—— Geometric and isotopic constraints on bulk mass transfer in deformed low-grade metasediments — Central Goldfields Victoria etc, Dr R T Gregory (Earth Sciences) — $16 000

MANSIE, D T & S L for use by Primary Care Research Unit, (Community Medicine) — $100

MAXWELL, F C & L A for muscular dystrophy research, Dr L Austin (Biochemistry) — $50

MAXWELL, K for muscular dystrophy research, Dr L Austin (Biochemistry) — $50

McPARTLAND, MR AND MRS P for muscular dystrophy research, Dr L Austin (Biochemistry) — $50

MEDICAL RESEARCH CENTRE (PRINCE HENRY’S HOSPITAL) for Monash University postgraduate scholarships, Professor D M De Kretser (Anatomy) — $20 061

MEE, MR AND MRS W A for hypertension research, (Medicine — Prince Henry’s Hospital) — $50

MONASH MEDICAL CENTRE Use of anti-sense RNA to study the roles of hsp 70 and calmodulin in early embryos, Dr I Kola (Centre for Early Human Development) — $6 500

—— for research in the Department of Paediatrics — $2 600

MONASH MEDICAL SERVICES donation for gastro-intestinal research, Dr J Hansky (Medicine — Prince Henry’s Hospital) $6 924

—— donation for hypertension research, Dr B P McGrath (Medicine — Prince Henry’s Hospital) — $2,137

MURRAY-DARLING FRESHWATER RESEARCH CENTRE Postgraduate research studentship for Mr O Scholz, Dr N D Hallam (Botany) — $7 380

NATIONAL GEOGRAPHIC SOCIETY (USA) The ghastly blank — stage 4, Dr P V Rich (Earth Sciences) — $35 510

NATIONAL LIBRARY OF AUSTRALIA Student of the holdings of Australian literature in Australian libraries, Professor J P Whyte (Graduate School of Librarianship) — $5 000

NEWTON-JOHN, MRS C for hypertension research, (Medicine — Prince Henry’s Hospital) — $50

NEUROSCIENCES GROUP — MONASH to muscular dystrophy research, Dr L Austin (Biochemistry) — $528

OFFICE OF NAVAL RESEARCH, DEPT OF NAVY — USA Mechanisms of tropical cyclone motion, Professor B R Morton and Dr R K G Smith (Mathematics) — $187 888

PRIMARY INDUSTRIES, DEPT OF (QUEENSLAND GOVERNMENT) The role of foototoxins of plant origin in foetal development and lamb survival, Dr D Walker (Physiology) — $11 435

PRINCE HENRY’S HOSPITAL 1988 shared NH&MRC program grant for project: Reproductive endocrinology, Professor D M De Kretser (Anatomy) — $279 539

PRITCHARD, B AND J for muscular dystrophy research, Dr L Austin (Biochemistry) — $50

PRITCHARD, D I AND J A for muscular dystrophy research, Dr L Austin (Biochemistry) — $50
PRITCHARD, W K AND M J for muscular dystrophy research, Dr L Austin (Biochemistry) — $40

ROYAL AUSTRALIAN COLLEGE OF SURGEONS RACS Foundation Kelly memorial research scholarship for Dr S Skinner, Professor P E O'Brien (Surgery — Alfred Hospital) — $14 036

ROYAL AUSTRALIAN COLLEGE OF GENERAL PRACTITIONERS, THE Non-metropolitan hospital internships/residencies, Professor N E Carson (Community Medicine) — $4 000

— Research and development of computer assisted teaching programs, Professor N E Carson (Community Medicine) — $19 957
— Computer assisted practice systems, Professor N E Carson (Community Medicine) — $11 000

— Smokescreen, Dr C Silagy (Community Medicine) — $2 750

SYMINGTON, M R AND MRS A J for muscular dystrophy research, Dr L Austin (Biochemistry) — $50

UNIVERSITIES SPACE RESEARCH ASSOCIATION USA Bulk entrainment into cumuli growing through wind shear, Professor B R Morton (Mathematics) — $7 033

UNIVERSITY OF NEW ENGLAND, THE Responses of insects to fluctuating temperatures, Dr B Roberts (Zoology) — $4 700

UNIVERSITY OF NEW SOUTH WALES, THE Dielectrophoresis and electric fusion in fertilisation and embryogenesis, Dr A Trounson (Centre for Early Human Development) — $7 500

UNIVERSITY OF OXFORD payment of grant to cover costs of work undertaken for joint research program, Dr D K Bowden (Anatomy) — $10 141

URBAN WATER RESEARCH ASSOCIATION OF AUSTRALIA Microbiological studies of enhanced removal of phosphate from sewage, Drs R C Bayly and J W May (Microbiology) — $28 000

VAUGHAN, M for muscular dystrophy research, Dr L Austin (Biochemistry) — $50

WALLIS & ASSOCIATES, I G 1987 National research fellowship for Mr T Pollock, Associate Professor J B Hinwood (Mechanical Engineering) — $5 000

WOOD, MRS AND MRS C C for hypertension research, (Medicine — Prince Henry's Hospital) — $100

WORLD HEALTH ORGANISATION grant-in-aid for Dr G F Gonzalez-Rengifo, Professor D M De Kretser (Anatomy) — $2 580

— grant to cover laboratory expenses for Dr Randanan Bandaso, Mr Qin Jin-xi and Dr Tong Jian-sun, Professor D M De Kretser (Anatomy) — $7 296

General donations and bequests

ANZ Bank for use in Careers and Appointments Service — $500
ANZ BANKING GROUP LIMITED Sponsorship of course on international business environments — $15 000
ABORIGINAL AFFAIRS, DEPT OF for use by Monash Orientation Scheme for Aborigines — $13 470
ABRAMS, I D to student assistance fund — $175
ADAMS, P R for use in Department of Paediatrics — $150
ALEX COOBAY AND ASSOCIATES for use in Krongold Centre for Exceptional Children — $25
ALEXANDER, A R AND R towards costs of publication of hlx newsletter (Microbiology) — $12
ALEXANDER, RUTH D for use in Department of Civil Engineering, Professor E M Laurensen (Civil Engineering) — $1 000
ANDREW D PTY LTD for use in Krongold Centre for Exceptional Children — $30
ANDREW, EMERITUS PROFESSOR R R to staff silver jubilee gift to University art collection — $25
ANGLISS CHARITABLE FUND, THE WILLIAM for use by Centre for Molecular Biology and Medicine — $2 000
ANGLISS (VICTORIA) CHARITABLE FUND, THE WILLIAM for use in Krongold Centre for Exceptional Children — $7 000
ANONYMOUS towards costs of purchase of tvp and associated equipment, (Obstetrics and Gynaecology) — $2 164
— 1987 prize for economic statistics — $100
ARTHUR ANDERSEN & CO 1987 prize in Business Finance — $200
— for use in Careers and Appointments Service — $3 000
— 1987 prize in Electronic Data Processing — $200
ASSOCIATION OF UKRAINIANS IN VICTORIA Financing of Ukrainian lectureship for 1988, (Slavic Languages) — $25 000
AUSTRALIA COUNCIL for poetry readings, (English) — $1 400
AUSTRALIA COUNCIL – PERFORMING ARTS BOARD for costs of airfare for visiting teacher — Professor Steven Field, Dr M J Kartomi (Department of Music) — $2 020
AUSTRALIA COUNCIL – VISUAL ARTS/CRAFTS BOARD for touring of Robert Hunter paintings exhibition for Monash University Gallery — $5 200
— for the exhibition of Robert Hunter paintings in the Monash University Gallery — $9 824
AUSTRALIAN INTERNATIONAL DEVELOPMENT ASSISTANCE BUREAU Postgraduate supplementary funding scheme for Ms Ramdani, Dr B Alder (Microbiology) — $2 250
— Postgraduate research funding for Mr Perry Ong, Associate Professor A K Lee (Zoology) — $4 000
AUSTRALIAN MEDICAL ASSOCIATION 1988 Australian Medical Association prize — $1 000
— 1987 Australian Medical Association prize — $1 000
AUSTRALIAN PSYCHOLOGICAL SOCIETY 1987 prize in fourth year Psychology — $150
AUSTRALIAN ROAD RESEARCH BOARD for use in Careers and Appointments Service — $100
AUSTRALIAN SOCIETY OF ACCOUNTANTS 1987 prize in first year Accounting — $250
— 1987 prize in second year Accounting — $250
AUSTRALIAN VICE-CHANCELLORS COMMITTEE Travel grant for Dr H P Lee for travel to Singapore, (Law) — $5 000
AUSTRALIA/JAPAN FOUNDATION, The travel costs for Ms A Tokita, (Department of Japanese) — $500
— for student travel to Japan, (Department of Japanese) — $40 665
— for use in Japanese Music Archives, (Music) — $200
BCLV for use by Centre for Molecular Biology and Medicine — $50
BHP NOMINEES PTY LTD 1987 bhp prize in second year Materials Engineering — $400
BHP COMMUNITY TRUST Contribution to costs of the James McNeill Room — $30 000
— 1986/1987 bhp prizes in first year Engineering — $400
BHP COMPANY LIMITED for use in Department of Mechanical Engineering — $500
BP AUSTRALIA LTD to MOSA students' welfare fund, (Monash Orientation Scheme for Aborigines) — $25 000
BTR NYLEX LIMITED 1987 prize in Materials Engineering — $200
— 1987 Vacation work report prize — $50
BAKER, ESTATE OF THE LATE THOMAS for use by Centre for Molecular Biology and Medicine — $60 000
BAXTER, DR R G for use in Department of Community Medicine — $100
BAXTER CHARITABLE TRUST, PERCY for use in the Centre for Reproductive Biology — $5 000
— for the purchase of equipment in Centre for Early Human Development — $5 000
BAXTER, DR R G for use in Department of Community Medicine — $100
BERKMAN, MR AND MRS G for use in Krongold Centre for Exceptional Children — $25
BENNETTS, MR K W to Robert Blackwood Hall harpsichord appeal fund — $84
BIOENGINEERING AUSTRALIA PTY LTD for research in Human and Biomedical Engineering — $50
Buckland Foundation, The William towards purchase of new emergency vehicle, (Central Services) — $8 000
BURLINGTON, SISTER ELIZABETH to Elizabeth Burchill fund, (Arts) — $5 000
BUREAU OF METEOROLOGY for use in Geophysical Fluid Dynamics laboratory — $2 000
Butterworths Pty Ltd royalties on third edition of the publication Stock markets and the securities industry — law and practice, (Law) — $400
— for use in Careers and Appointments Service — $100
CIG MEDISHIELD 1987 prize in Obstetrics and Gynaecology — $100
CALLISTER, MRS WINSOME to Winsome Callister award — $150
<table>
<thead>
<tr>
<th>Organization/Group</th>
<th>Description/Grant Details</th>
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<tr>
<td>Carlton and United Breweries Limited</td>
<td>for use in Careers and Appointments Service — $250</td>
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<tr>
<td>Caulfield Hospital</td>
<td>salary costs for Professor N Christophidis, (Geriatric Medicine) — $65 852</td>
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<tr>
<td>Ceramtech Ltd</td>
<td>1987 Brenco Services prize in fourth year Materials Engineering — $150</td>
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<tr>
<td>Chandler &amp; Macleod Consultants Limited</td>
<td>1987 prize in Administration — $250</td>
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<td>Chandler, Associate Professor D P</td>
<td>to Cyril Skinner travel fellowship fund — $100</td>
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<tr>
<td>Chan, Dr C K</td>
<td>to Monash University Medical School jubilee fund — $121</td>
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<tr>
<td>Chong, Dr G C</td>
<td>for use in Faculty of Medicine — $1 000</td>
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<tr>
<td>Chubb Fire</td>
<td>for use in Careers and Appointments Service — $50</td>
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<tr>
<td>City of Oakleigh</td>
<td>Grant for use in Monash/Oakleigh Legal Service, (Faculty of Law) — $3 500</td>
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<td>City of Springvale</td>
<td>for use in Careers and Appointments Service — $100</td>
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<td>Clark, Professor A C L</td>
<td>for use in Department of Paediatrics — $506</td>
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<td>Cleveland Limited</td>
<td>1986 &amp; 1987 Comalco Limited prizes in Materials Engineering — $600</td>
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<td>Committee for Chaplaincies for Tertiary Institutions</td>
<td>Contribution towards costs of chaplains office at Monash University — $1 250</td>
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<td>Committee for Melbourne</td>
<td>towards costs of International Geographical Union Commission meeting, (Geography) — $500</td>
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<td>Commonwealth Bank of Australia</td>
<td>for visit of Professor R Goode, (Centre for Commercial Law and Applied Legal Research) — $10 000</td>
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<td>Commonwealth Industrial Gases Limited</td>
<td>towards costs of advertising 1988 Open Day — $300</td>
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<tr>
<td>Community Services and Health, Dept of (NH&amp;MRC)</td>
<td>donation for workshop on menopausal health, Professor D M De Krecser (Centre for Reproductive Biology) — $16 027</td>
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<tr>
<td>Connective Tissue Society</td>
<td>for use in Department of Biochemistry — $364</td>
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<tr>
<td>Control Data</td>
<td>1987 prize in Computer Engineering and Software — $250</td>
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<td>Coombes, Mr A N</td>
<td>for use in Department of Medicine — Alfred Hospital — $500</td>
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<tr>
<td>Coopers &amp; Lybrand (ACT) Pty Ltd</td>
<td>1987 prize in Accounting and Finance — $250</td>
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<td>— for use in Careers and Appointments Service — $800</td>
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<td>Copolov, Dr D</td>
<td>for use in Department of Psychological Medicine — $450</td>
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<tr>
<td>Coppel, C A</td>
<td>to Cyril Skinner travel fellowship fund — $50</td>
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<tr>
<td>Corporate Lawyers Association of Victoria</td>
<td>1987 Corporate Lawyers prize — $300</td>
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<td>Cottman, Estate of the Late W T</td>
<td>for use in Faculty of Medicine — $6 081</td>
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<td>Crisp, Professor J D C</td>
<td>towards cost of commissioning portrait of Sir Louis Matheson — $50</td>
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<td>Crossley, J N</td>
<td>for use by Monash University, (Monash University Gallery) — $25</td>
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<td>Da Costa, K and H</td>
<td>to Cyril Skinner travel fellowship fund — $20</td>
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<tr>
<td>Daniel, Dr R</td>
<td>for use in Department of Psychological Medicine — $400</td>
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<td>Davis, Estate of the Late Dr Morris</td>
<td>Bequest from the estate of the late Dr Morris Davis — $1 000</td>
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<td>Defence, Dept of</td>
<td>for use in Careers and Appointments Service — $95</td>
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<td>Delouitte Haskins and Sells</td>
<td>for use in Careers and Appointments Service — $1 000</td>
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<td>Diabetes Symposium Research Fund</td>
<td>for use in Department of Biochemistry, Dr M Gould (Biochemistry) — $2 557</td>
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<td>Digital Equipment Corporation (Australia) Pty Ltd</td>
<td>1987 prize in Computer Engineering — $300</td>
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<td>Dissanyake, Mr and Mrs M</td>
<td>for use in Krongold Centre for Exceptional Children — $50</td>
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<tr>
<td>Donald, K</td>
<td>for use in Aboriginal Research Centre — $50</td>
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<tr>
<td>Downey, B</td>
<td>for use by Centre for Molecular Biology and Medicine — $20</td>
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<tr>
<td>Dudley, Professor M</td>
<td>to staff Silver Jubilee gift to University art collection — $246</td>
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<td>Duusbury's Pty Ltd</td>
<td>for use in Careers and Appointments Service — $545</td>
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<td>Eastwood, Dr F W</td>
<td>to Robert Blackwood Hall harpsichord appeal fund — $140</td>
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<td>Eggleston Memorial Trust, Elizabeth</td>
<td>for use in Aboriginal Research Centre — $4 250</td>
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<td>Eggleston, Estate of Elizabeth Moulton</td>
<td>for use by Mosa students' welfare fund, (Monash Orientation Scheme for Aborigines) — $10 000</td>
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<tr>
<td>Eldridge, P J</td>
<td>to Cyril Skinner travel fellowship fund — $10</td>
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</tbody>
</table>
EMPLOYMENT, EDUCATION AND TRAINING, DEPT OF for Aboriginal study assistance scheme, Professor M C Ricklefs (Monash Orientation Scheme for Aboriginals) — $63 996
— 1988 Schools Link Project, Mr B Barwood (Careers and Appointments) — $30 000
— for Public Sector Management Institute study fund, Professor A Fels (Graduate School of Management) — $377 000
— 1988 special assistance to students grant — $107 200
— extension program for Monash Orientation Scheme for Aboriginals, Professor A I Brown (Monash Orientation Scheme for Aboriginals) — $30 000
— for operating costs, Professor M C Ricklefs (Monash Orientation Scheme for Aboriginals) — $21 870
ENGHAM, N B and E A for use in Krongold Centre for Exceptional Children — $50
ENRIGHT, M to Cyril Skinner travel fellowship fund — $15
ERNST AND WHINNEY SERVICES Pty 1987 Ernst and Whinney prize in Accounting — $200
ESS EX LABORATORIES Pty Ltd for use in Department of Social and Preventive Medicine — $20 000
FAINE, MRS S to MOSA students welfare fund, (Monash Orientation Scheme for Aboriginals) — $6 000
Faine, Professor S towards costs of publication of ilix newsletter, (Microbiology) — $13
FEDERATED CLERKS UNION OF AUSTRALIA for use by Centre of Molecular Biology and Medicine — $6 000
FERNANDEZ, MR AND MRS J A for use in Krongold Centre for Exceptional Children — $50
FIRKIN, PROFESSOR B G for use in Department of Medicine (Alfred Hospital) — $12 500
FLETCHER, N AND B for use by Centre for Molecular Biology and Medicine — $20
FLINDERS CHRISTIAN COMMUNITY COLLEGE for use in Careers and Appointments Service — $25
Ford Motor Company of Australia Ltd 1987 Ford prize in third year Mechanical Engineering — $100
— for use in Careers and Appointments Service — $400
FOREIGN AFFAIRS, DEPT OF for share of visit of Mr N I Rogov from Russia, (Slavic Languages) — $6 907
FOSTER, R for use by Centre for Molecular Biology and Medicine — $20
FOULCHER, K R to Cyril Skinner travel fellowship fund — $100
FULLER, N L AND P T to Jack and Marie Healy memorial fund, (Biochemistry) — $750
— for muscular dystrophy research, Dr L Austin (Biochemistry) — $70
GHD Pty Ltd for use in Careers and Appointments Service — $50
GMC MANAGEMENT CONSULTING GROUP for use in Careers and Appointments Service — $50
GARTNER FAMILY TRUST, N B for use in Krongold Centre for Exceptional Children — $2 000
GARTON, P AND A for use in Krongold Centre for Exceptional Children — $40
GENOME CONFERENCE 1989 for use by Centre for Molecular Biology and Medicine — $133
Gippsland Institute of Advanced Education Consultancy fees, Ms E Fesl (Aboriginal Research Centre) — $2 548
GLAXO Australia Pty Ltd towards costs of posters for Medical School open day, (Medicine) — $300
— for use in the Department of Community Medicine — $1 000
GOULD, ASSOCIATE PROFESSOR M K to Robert Blackwood Hall harpsichord appeal fund — $72
GRANT, MRS J for use in Krongold Centre for Exceptional Children — $20
GREENHILLS FOUNDATION LTD to MOSA students’ welfare fund, (Monash Orientation Scheme for Aboriginals) $10 000
GUTTERIDGE, HASKINS AND DAVEY Pty Ltd for use in Careers and Appointments Service — $250
— 1987 Gutteridge, Haskins and Davey prize in Water Engineering — $100
HARDJADIBRATA, Mr R to Cyril Skinner travel fellowship fund — $50
HARRIS, L J towards costs of commissioning portrait of Sir Louis Matheson — $50
HEALTH DEPARTMENT, VICTORIA Reimbursement of salary costs for Professor B Singh, (Psychological Medicine — Royal Park) — $86 254
HEALTH INSURANCE COMMISSION Sponsorship of Public Sector Management Institute for 1988, Professor C Selby-Smith (Centre of Policy Studies) — $10 000
HEALY, G AND T to Jack and Marie Healy memorial fund, (Biochemistry) — $500
Healy, Kevin J to Jack and Marie Healy memorial trust fund — $1 600
HEALY, RICHARD A to Jack and Marie Healy memorial trust fund — $500
HEFFY, MA P G to Robert Blackwood Hall harpsichord fund — $164
HENRY, PROFESSOR A S to Cyril Skinner travel fellowship fund — $10
HILLGROVE, ESTATE OF THE LATE PHYLLIS Initial distribution from the Estate for Phyllis Hillgrove scholarship fund — $70 000
HODDER, H L for use in Krongold Centre for Exceptional Children — $10
HONEYWELL LTD for use in Careers and Appointments Service — $250
Hu, J to Cyril Skinner travel fellowship fund — $100
IBM AUSTRALIA LIMITED 1987 prize in Theoretical Computer Science — $200
— 1987 prize for third year Electrical Engineering — $200
— 1987 prize for excellence in Marketing — $200
— 1987 prize in third year Electrical Engineering — $200
ICAL LIMITED for use by Centre for Molecular biology and Medicine — $500
ICI AUSTRALIA LIMITED Reimbursement of salary paid to Professor A Baklien, (Chemistry) — $44 941
— 1988 ICI Australia prize for vacation work report $100
— 1987 ICI/ANZ vacation work report prize $100
— Consulting fees, Professor W R Jackson (Chemistry) — $2000
IVF FRIENDS for use in Centre for Early Human Development — $500
INDUSTRY, TECHNOLOGY AND COMMERCE, DEPT OF Grant for Masters of Engineering Science course, Professor R A Jarvis (Electrical and Computer Systems Engineering) — $50 000
— contribution to expenses of visit by Dr Gliko from ussr. Dr J P Cull (Earth Sciences) — $2 767
— Travel grant for Professor P L Rossiter — $503
INDUSTRY, TECHNOLOGY AND RESOURCES, DEPT OF Special travel grant for Professor W Stohr (visitor from Vienna) — $500
— Offshore engineering grant, Associate Professors P Grundy and J B Hinwood (Faculty of Engineering) — $19 000
— for use in Department of Geography, Dr C A Maher (Geography) — $500
INFERTILITY MEDICAL CENTRE for use in Centre for Early Human Development — $2 474
INGHAM, S M to Robert Blackwood Hall harpsichord appeal fund — $16
INSTITUTE OF CHARTERED ACCOUNTANTS IN AUSTRALIA 1987 prize in Accounting — $300
INTERNATIONAL COMMODITIES CLEARING HOUSE LTD 1987 ICCH prize for best research paper in EC582 — Hedging and Uncertainty, (Economics and Politics) — $500
INTERNATIONAL DEVELOPMENT PROGRAM FOR AUSTRALIAN UNIVERSITIES AND COLLEGES Incentive grant for Dr A G Pitt, (Medicine — Alfred Hospital) — $500
— for purchase of equipment for unibraw, (Physics) — $1 500
— Incentive grant for Dr M A B Deakin, (Mathematics) — $500
— Grant for purchase of equipment for bsbp program, Dr B Roberts (Zoology) — $10 000
— Grant for cost of autoclave components for Mr N Bangun, Professor W R Jackson and Associate Professor R S Dickson (Chemistry) — $1 910
— Incentive grant for Professor J Crossley, (Mathematics) — $2 000
— Incentive grant for Professor W Rachinger, (Physics) — $2 000
— Incentive grant for Dr K T Thompson, (Physics) — $500
— Incentive grant for Dr B Roberts, (Zoology) — $1 000
— Incentive grant for Professor J Warren, (Zoology) — $2 000
— Tuition fees for masters preliminary program (Mr Yusuf Sutaryono), Dr B Roberts (Botany) — $2 500
— Tuition fees for masters preliminary program (Mr Edi Basuki), Dr B Roberts (Zoology) — $2 500
— Incentive grant for Associate Professor A Williams, (Mechanical Engineering) — $2 000
JANDEL Pty Ltd for use in Centre for Molecular Biology and Medicine — $7 500
JONES, S L & GLEESON-JONES, DR A to L J Gleeson memorial prize fund — $150
KPMG FEAT MARWICK HUNGERFORDS 1987 prize in Accounting — $200
— 1987 prize in MA635 Administrative Policy — $250
KARTOMI, H I AND M to Cyril Skinner travel fellowship fund — $25
KEKS, DR N for use in Department of Psychological Medicine — $450
KELLER, DR E R to Cyril Skinner travel fellowship fund — $40
KELLER, R J AND J L for use in Department of Civil Engineering — $1 200
KENNEDY, DR B E to Cyril Skinner travel fellowship fund — $25
KENWOOD, A & P to Cyril Skinner travel fellowship fund — $30
KRON-COHEN, MR BRIAN donation to ARC of royalties derived from the publication Ab origines and the law, Aboriginal Research Centre — $213
KING, MR and MRS F to MOSA students’ welfare fund, (Monash Orientation Scheme for Aborigines) — $200

KINNON, M for use in Krongold Centre for Exceptional Children — $250

KIRKOF, ASSOCIATE PROFESSOR W for use in main library — $50

KISHIDA, Ms T to Cyril Skinner travel fellowship fund — $10

La TROBE UNIVERSITY 1988 grant for Key Centre for Statistical Sciences — $46,768

LAURENSON, PROFESSOR E M for use in Department of Civil Engineering — $600

LAW BOOK COMPANY LTD, The Royalties from sale of law books — $26

LEGAL AID COMMISSION Grant for Monash/Oakleigh Legal Service, (Faculty of Law) — $16,303

LEGGO, Miss B towards costs of commissioning portrait of Sir Louis Matheson — $100

LIBRARY ASSOCIATION OF AUSTRALIA for use by Department of Librarianship — $30

LINBURGER MAGPIES LADIES AUXILIARY for use in Centre for Molecular Biology and Medicine — $30

LINDSAY, F for use by Monash University, (Monash University Gallery) — $25

LIONESS CLUB OF MORIALMOUTON for use by Centre for Early Human Development — $100

LIONS CLUB OF TRARALGON for use by Centre for Molecular Biology and Medicine — $100

LIONS INTERNATIONAL DIABETES INSTITUTE – ROYAL SOUTHERN MEMORIAL HOSPITAL for use by Centre for Molecular Biology and Medicine — $4,380

LORDWYCKS, K A for use in main library — $50

Lorenz, Mrs J for use in Krongold Centre for Exceptional Children — $200

Lyons, Mr J F for use in the Faculty of Law — $200

MDEC PTY LTD for use in Careers and Appointments Service — $25

MACPHERSON AND KELLEY, SOLICITORS for use in Faculty of Law — $100

MACKEE, J A C to Cyril Skinner travel fellowship fund — $50

MACQUARIE STAFF CONSULTANTS PTY LTD for use in Careers and Appointments Service — $25

MANAGEMENT AND BUDGET, DEPT of Grant in support of the Chair of Public Sector Management, Professor A Fels (Public Sector Management Institute) — $50,000

MARSHALL RICHARDS AND ASSOCIATES for use in Careers and Appointments Service — $25

MARTIN, PROFESSOR R L to staff silver jubilee gift University art collection — $25

MASSARIK, H to Cyril Skinner travel fellowship fund — $50

MAZZONELLI, J M towards cost of publication of ILIX newsletter, (Microbiology) — $12

McCANCE, I for use in Department of Physiology — $1,800

McDONELL, DR J A to Cyril Skinner travel fellowship fund — $20

McINNIS, I E 1987 McInnes prize in Clinical Subjects — $200

MINISTRY FOR PLANNING AND ENVIRONMENT Registration fee for Geographic Congress for Dr C A Maher — $500

MINISTRY OF EDUCATION 1988 grant under special education program, Dr S Sykes (Krongold Centre) — $89,072

MINSTER ELLISON for use in Careers and Appointments Service — $150

MOBIL OIL AUSTRALIA LTD for use in Careers and Appointments Service — $1,200

MONASH EX-COMMITTEE CLUB for use in Monash University library — $200

MONASH MEDICAL MOTHERS’ AUXILIARY for use in the Department of Community Medicine — $1,000

— for purchase of equipment and books for the biomedical library, (Library) — $1,000

MONASH MEDICAL SCHOOL towards upgrading of conference room, (Community Medicine) — $5,000

MOORE, MR and MRS D for use in Krongold Centre for Exceptional Children — $3,000

MOORE, MRS VERA for use in Krongold Centre for Exceptional Children — $98

MOORE, R N AND F M to MOSA students’ welfare fund, (Monash Orientation Scheme for Aborigines) — $10

MUNICIPAL OFFICERS ASSOCIATION for use in Centre for Molecular Biology and Medicine — $100

MUNICIPAL OFFICERS ASSOCIATION (QLD) for use in Centre for Molecular Biology and Medicine — $100

MUNICIPAL OFFICERS ASSOCIATION (SA AND NT) for use in Centre for Molecular Biology and Medicine — $50