

for us to initiate research programmes utilizing the high magnetic field facility, energized by the homopolar generator at the A.N.U., Canberra.

Research in electron spin resonance and non-linear optics benefited from the presence of Dr. J. M. Spaeth of II. Physikalisches Institut der Technischen Hochschule, Stuttgart, on a post-doctoral research fellowship of the German National Scholarship Foundation, and Dr. H. Morawitz from I.B.M. Research Laboratories, California, on a Department of Supply post-doctoral grant.

Mr. G. J. Troup's monograph, "Masers and Lasers", which has recently been published in Russian and German, is now being prepared for publication in Italian. Professor Street has been awarded a D.Sc. by the University of London.

#### *Department of Psychology*

Teaching in Psychology I (Science) and Psychology IIA (Arts) was begun during 1966 with enrolments of 17 and 56 respectively.

Following A.R.G.C. grants of \$19,680 (1965) and \$5,190 (1966) a Neuropsychology unit has been established. This is accommodated in the Medical School.

There is now an establishment for 12 academic staff as against 7 in 1965. Technical and clerical staff have been increased by 4 and 2 respectively.

#### *Department of Zoology and Comparative Physiology*

Professor A. J. Marshall has accepted a personal research chair in zoology and it is expected that the vacant position of professor of zoology and chairman of the department will be filled in 1967.

A new appointee, Dr. P. R. V. Nayudu (lecturer), arrived in May. Dr. Nayudu is establishing senior courses and research work in experimental embryology.

The department has continued to broaden the curriculum offered to third and fourth year students, thus allowing them some scope within which to develop their interests. However, we continue to feel somewhat hampered in our teaching efforts due to the lack of a biological field station where students may be brought into closer contact with the complexities of natural populations of plants and animals.

The use of the biological reserve, "Snake Gully", has increased as more research projects dealing with the ecology and behaviour of native species have begun. A joint project with the zoology department of Sydney University on the uncaged population of possums in Snake Gully is under way. A notable addition to the reserve is a series of observational cages to hold native cats.

The department has benefited by two visiting scientists spending their sabbatical years with us: Dr. B. N. Brattstrom, California State College at Fullerton, and Dr. R. E. MacMillen, Pomona College, California.

Two members of the department, Dr. I. A. E. Bayly and Dr. W. D. Williams, left on study leave and will be working at Yale and Waterloo Universities respectively.

#### *Computer Centre*

The working hours for the Computer Centre's Control Data 3200 computer doubled in 1966 to reach 250 hours per month, even though the computer's speed was substantially increased by the addition of a floating-point arithmetic unit. There are over 180 regular users among university staff and research students, and more than 250 students and staff who attended programming courses during the year also used the computer.

A government grant of \$160,000 for the next triennium has enabled equipment to be ordered to extend the 3200 so that after April 1967 it will have a 32,000-word memory, two small disc drives, four magnetic-tape units, a 1,000-line-per-minute printer and punched-card and paper-tape facilities. A small PDP 8 computer has also been ordered and this will be used to control remote teleprinter terminals with access to the 3200, using an operating system being developed by the Computer Centre. Automatic plotting facilities will also be available using a 30-inch Calcomp plotter which has been purchased by the Economics department and will be installed in the Computer Centre.

#### *Library (Librarian: Mr. E. H. Clark, B.A. Melb., F.L.A.A.)*

By the end of 1966, the University library had grown to approximately 231,000 volumes. 5,524 periodicals were being currently received.

Stock was distributed as follows: the main library (125,000 volumes), the Hargrave Library for the physical sciences and engineering (32,000), the law library (29,000) and the bio-medical library with 21,000 volumes on the Monash campus, 7,000 at the Alfred Hospital, 1,500 at Queen Victoria Hospital, and further small collections at Prince Henry's, Fairfield, and Royal Park Hospitals.

As expected, space in the first stage of the bio-medical library building was outgrown within its first year of operation. A.U.C. allocations for the coming triennium have suggested that a measure of relief here, as well as in the main library, where crowding is also

becoming critical, and the Hargrave Library, which will be relieved by the erection of a law school, incorporating the law library, should be forthcoming shortly. In the meantime, conditions for staff and students will be extremely difficult.

Loans for the year were as follows:

	Staff	Student	Total
Main Library	19,985	126,647	146,632
Hargrave	15,387	21,058	36,445
Bio-Medical			
(a) Monash	13,402	13,691	27,093
(b) Alfred	5,640	3,655	9,295
(c) Queen Victoria	1,083	409	1,492
<b>Totals</b>	<b>55,497</b>	<b>165,460</b>	<b>220,957</b>

Photocopying services were extended during the year by the installation of a further machine in the bio-medical library. Prints produced for staff and students amounted to 155,566, for the University as a whole.

At end of 1966 the total library staff was 105.

Through the inter-library loan service, 10,046 items were obtained from other libraries. Our indebtedness is clear when it is noted that our loans to other libraries amounted to only 1,043 volumes.

The library has again received gifts from many sources. The Council's appreciation of these gifts has been conveyed to the donors.

## 7. STUDENT ENROLMENT

Once again Council is able to report a further substantial increase in enrolments of students. The net total undergraduate population increased from 3,906 in the previous year to 5,254, an increase of 1,348 or 35%. Postgraduate enrolments increased from 210 to 372 and gross enrolments from 4,283 to 5,924. Despite the substantial increases in undergraduate enrolments where community pressures are greatest, there were still substantial numbers of applicants who gained admission neither to Monash University nor to the University of Melbourne. It is hoped that the additional places which will be made available by La Trobe University in 1967 will reduce the gap between supply and demand. Full details of enrolments are given in the accompanying tables.

## Distribution of Students by Faculty, Year, Sex and Full- or Part-time

### Gross Enrolments as at July 31

Faculty & Year	FULL-TIME			PART-TIME			TOTAL		
	M	F	T	M	F	T	M	F	T
Arts I	331	470	801	225	170	395	556	640	1196
II	206	297	503	92	76	168	298	373	671
III	150	187	337	25	32	57	175	219	394
IV	23	9	32	—	—	—	23	9	32
<b>Total Arts</b>	<b>710</b>	<b>963</b>	<b>1673</b>	<b>342</b>	<b>278</b>	<b>620</b>	<b>1052</b>	<b>1241</b>	<b>2293</b>
Eco. & Pol. I	305	57	362	94	12	106	399	69	468
II	213	33	246	42	1	43	255	34	289
III	117	12	129	26	2	28	143	14	157
IV	8	—	8	—	—	—	8	—	8
<b>Total Eco. &amp; Pol.</b>	<b>643</b>	<b>102</b>	<b>745</b>	<b>162</b>	<b>15</b>	<b>177</b>	<b>805</b>	<b>117</b>	<b>922</b>
Engineering I	159	1	160	—	—	—	159	1	160
II	114	1	115	3	—	3	117	1	118
III	65	1	66	2	—	2	67	1	68
IV	38	—	38	—	—	—	38	—	38
<b>Total Engineering</b>	<b>376</b>	<b>3</b>	<b>379</b>	<b>5</b>	<b>—</b>	<b>5</b>	<b>381</b>	<b>3</b>	<b>384</b>
Law I	131	13	144	4	2	6	135	15	150
II	129	14	143	5	1	6	134	15	149
III	77	14	91	2	—	2	79	14	93
<b>Total Law</b>	<b>337</b>	<b>41</b>	<b>378</b>	<b>11</b>	<b>3</b>	<b>14</b>	<b>348</b>	<b>44</b>	<b>392</b>
Medicine I	134	24	158	—	—	—	134	24	158
II	122	25	147	—	—	—	122	25	147
III	105	17	122	—	—	—	105	17	122
IV	85	18	103	—	—	—	85	18	103
V	62	6	68	—	—	—	62	6	68
VI	27	4	31	—	—	—	27	4	31
<b>Total Medicine</b>	<b>535</b>	<b>94</b>	<b>629</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>535</b>	<b>94</b>	<b>629</b>
Science I	229	57	286	16	10	26	245	67	312
II	170	42	212	22	2	24	192	44	236
III	89	26	115	—	2	2	89	28	117
IV	24	3	27	—	—	—	24	3	27
<b>Total Science</b>	<b>512</b>	<b>128</b>	<b>640</b>	<b>38</b>	<b>14</b>	<b>52</b>	<b>550</b>	<b>142</b>	<b>692</b>
<b>Gross Total Undergraduate</b>	<b>3113</b>	<b>1331</b>	<b>4444</b>	<b>558</b>	<b>310</b>	<b>868</b>	<b>3671</b>	<b>1641</b>	<b>5312</b>
Adjustment for students enrolled in more than one course	52	3	55	1	2	3	53	5	58
<b>Net Total U/graduate</b>	<b>3061</b>	<b>1328</b>	<b>4389</b>	<b>557</b>	<b>308</b>	<b>865</b>	<b>3618</b>	<b>1636</b>	<b>5254</b>
Educ. Dip. Bach.	84	84	168	35	10	45	119	94	213
Bach.	2	—	2	67	16	83	69	16	85
<b>Total Education</b>	<b>86</b>	<b>84</b>	<b>170</b>	<b>102</b>	<b>26</b>	<b>128</b>	<b>188</b>	<b>110</b>	<b>298</b>
Master Ph.D.	90	36	126	53	27	80	143	63	206
Ph.D.	152	14	166	—	—	—	152	14	166
<b>Total P/graduate</b>	<b>242</b>	<b>50</b>	<b>292</b>	<b>53</b>	<b>27</b>	<b>80</b>	<b>295</b>	<b>77</b>	<b>372</b>
<b>Total Students</b>	<b>3389</b>	<b>1462</b>	<b>4851</b>	<b>712</b>	<b>361</b>	<b>1073</b>	<b>4101</b>	<b>1823</b>	<b>5924</b>