TABLE OF CONTENTS

(Information in this Calendar has been brought up to date as at 30th November, 1965, but may be amended without notice by the University Council)

Appendices

APPENDIX 1
University Prizes .... .... .... .... .... .... 5

APPENDIX 2
Graduates and Diplomates of the University .... .... 17

APPENDIX 3
Annual Report of Council, 1964 .... .... .... .... 81
# APPENDIX 1

## UNIVERSITY PRIZES

The following table summarises the prizes awarded by the University at both undergraduate and post-graduate levels. Prizes which are not specific to any School are listed under general. All other prizes are listed under the Schools in which they are awarded.

<table>
<thead>
<tr>
<th>School/Department</th>
<th>Donor/Name of Prize</th>
<th>Value</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>The Sydney Technical College Union Award</td>
<td>£25 0 0</td>
<td>Leadership in the development of student affairs and academic proficiency throughout the course.</td>
</tr>
<tr>
<td></td>
<td>The University of New South Wales Commerce Society</td>
<td>£10 10 0</td>
<td>Academic proficiency throughout Commerce course and leadership in student activities.</td>
</tr>
<tr>
<td></td>
<td>The University of New South Wales Wives Group</td>
<td>£25 0 0</td>
<td>First Year of the Faculties of Architecture, Arts and Commerce—Women full-time students only.</td>
</tr>
<tr>
<td></td>
<td>The University of New South Wales Wives Group</td>
<td>£25 0 0</td>
<td>Common first year—Women full-time students only.</td>
</tr>
<tr>
<td></td>
<td>Wallace Wurth</td>
<td>£100 0 0</td>
<td>General proficiency in Medicine (first award 1967).</td>
</tr>
<tr>
<td>School of Accountancy</td>
<td>The Australian Institute of Cost Accountants</td>
<td>£10 10 0</td>
<td>14.161 Advanced Cost Accounting.</td>
</tr>
<tr>
<td></td>
<td>Chamber of Manufactures of N.S.W.</td>
<td>£5 0 0</td>
<td>14.131 Auditing and Internal Control.</td>
</tr>
<tr>
<td></td>
<td>Esso Australia</td>
<td>£10 0 0</td>
<td>14.102 Accounting II—Part-time students only.</td>
</tr>
<tr>
<td></td>
<td>F. S. Wolfenden Memorial</td>
<td>£10 10 0</td>
<td>14.103 Accounting III.</td>
</tr>
<tr>
<td>School/Department</td>
<td>Donor/Name of Prize</td>
<td>Value</td>
<td>Awarded for</td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------------</td>
<td>-------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Greenwood, Challoner &amp; Co.</td>
<td>£10 10 0</td>
<td>14.502 Commercial Law II.</td>
</tr>
<tr>
<td></td>
<td>Larke Consolidated Industries.</td>
<td>£10 0 0</td>
<td>14.102 Accounting II—Full-time students only.</td>
</tr>
<tr>
<td></td>
<td>Philips Electrical</td>
<td>£10 0 0</td>
<td>14.311 Marketing.</td>
</tr>
<tr>
<td></td>
<td>The Law Book Co. of Australasia Pty Ltd.</td>
<td>Books to the value of £10 10 0</td>
<td>14.101 Accounting I.</td>
</tr>
<tr>
<td></td>
<td>S. R. Brown, Pringle, Wolff &amp; Co.</td>
<td>£10 0 0</td>
<td>14.104 Accounting IV.</td>
</tr>
<tr>
<td></td>
<td>The Taxation Institute of Australia</td>
<td>£10 10 0</td>
<td>14.201 Taxation Law and Practice.</td>
</tr>
<tr>
<td>School of Anatomy</td>
<td>Senior Prize in Practical Anatomy (including Radiological Anatomy)</td>
<td>£10 10 0</td>
<td>Practical Anatomy—Medicine, Year 3.</td>
</tr>
<tr>
<td>School of Applied Geology</td>
<td>Geological Survey of New South Wales</td>
<td>£6 6 0</td>
<td>25.511 Geology I.</td>
</tr>
<tr>
<td>School of Applied Psychology</td>
<td>The British Psychological Society</td>
<td>£5 0 0</td>
<td>A Stage 3 Psychology subject selected by Head of School.</td>
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<tr>
<td>School of Architecture and Building</td>
<td>Alex Rigby</td>
<td>£52 10 0</td>
<td>Master of Building—Distinguished graduate. Building Diploma, Stage 5.</td>
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<tr>
<td></td>
<td>Archibald Howie Memorial</td>
<td>£7 7 0</td>
<td>Building Diploma, Final Stage—2 prizes.</td>
</tr>
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<td></td>
<td>The Australian Institute of Builders</td>
<td>£25 0 0</td>
<td>School Prize Fund—Subject selected by Head of School.</td>
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<tr>
<td></td>
<td>Board of Architects of New South Wales</td>
<td>£20 0 0</td>
<td>Design subjects of last stage of Architecture diploma.</td>
</tr>
<tr>
<td></td>
<td>Byera Hadley Testimonial</td>
<td>£5 5 0</td>
<td>Architecture and Building courses—subjects selected by Head of School.</td>
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<tr>
<td></td>
<td>Chamber of Manufactures of N.S.W.</td>
<td>£5 0 0</td>
<td></td>
</tr>
<tr>
<td>Name of Prizewinner</td>
<td>Prize Fund</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Dunlop Rubber Australia Ltd.</td>
<td>£26 5 0</td>
<td>Architecture, Year 3.</td>
<td></td>
</tr>
<tr>
<td>Frank W. Peplow</td>
<td>£12 0 0</td>
<td>Church Architecture.</td>
<td></td>
</tr>
<tr>
<td>The Institute of Quantity Surveyors (Australia)</td>
<td>£15 15 0</td>
<td>Quantity Surveying—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>James Hardie</td>
<td>(i) £50 0 0 (ii) £20 0 0</td>
<td>General Proficiency—Architecture degree. Building, Year 1.</td>
<td></td>
</tr>
<tr>
<td>Marley Reliance Industries</td>
<td>£25 0 0</td>
<td>Architecture, Year 1.</td>
<td></td>
</tr>
<tr>
<td>Master Builders' Association of New South Wales</td>
<td>£100 0 0</td>
<td>School Prize Fund—subjects selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>Royal Australian Institute of Architects</td>
<td>£25 0 0</td>
<td>Architectural Design and allied subjects in last two years of Architecture course.</td>
<td></td>
</tr>
<tr>
<td>R. Still Memorial (Australian Institute of Quantity Surveyors)</td>
<td>£10 10 0</td>
<td>Quantity Surveying—subject selected by Head of School.</td>
<td></td>
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<tr>
<td>W. A. Nelson</td>
<td>£30 0</td>
<td>Studio project—Architecture, Year 4 (1965 then alternate years only).</td>
<td></td>
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<tr>
<td>Joseph Auto-Hot Pty, Ltd.</td>
<td>£300 0 0</td>
<td>Architecture, Final Year.</td>
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<tr>
<td>William King McLean</td>
<td>£2 2 0</td>
<td>Building Construction and Theory of Structure—first three stages.</td>
<td></td>
</tr>
<tr>
<td>E. O. Tout Memorial</td>
<td>£10 10 0</td>
<td>17.301 Botany I and 17.302 Botany II.</td>
<td></td>
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| School of Biological Sciences | | |

<table>
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<tr>
<th>School of Business Administration</th>
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</thead>
</table>

<table>
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<tr>
<th>Name of Prizewinner</th>
<th>Prize Fund</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>John Storey Memorial</td>
<td>(i) £50 0 0 (ii) £30 0 0</td>
<td>Thesis. General Proficiency, Year 2.</td>
</tr>
<tr>
<td>F. W. Williams</td>
<td>£21 0 0</td>
<td>Financial Management.</td>
</tr>
<tr>
<td>P. C. Boon</td>
<td>£20 0 0</td>
<td>General Proficiency, Year 1.</td>
</tr>
<tr>
<td>School/Department</td>
<td>Donor/Name of Prize</td>
<td>Value</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-------------------------------------------------</td>
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<tr>
<td>School of Chemical Engineering</td>
<td>Chamber of Manufactures of N.S.W.</td>
<td>£5 0 0</td>
</tr>
<tr>
<td></td>
<td>Dunlop Rubber Australia Ltd.</td>
<td>£26 5 0</td>
</tr>
<tr>
<td></td>
<td>Esso Australia</td>
<td>£10 0 0</td>
</tr>
<tr>
<td></td>
<td>The North Shore Gas Co. Ltd.</td>
<td>£5 5 0</td>
</tr>
<tr>
<td></td>
<td>Petroleum Refineries (Australia) Pty. Ltd.</td>
<td>£31 10 0</td>
</tr>
<tr>
<td></td>
<td>Shell</td>
<td>£31 10 0</td>
</tr>
<tr>
<td></td>
<td>Simon-Carves (Australia) Pty. Ltd.</td>
<td>£10 10 0</td>
</tr>
<tr>
<td>School of Chemical Technology</td>
<td>Australian Paper Manufacturers Ltd.</td>
<td>£10 10 0</td>
</tr>
<tr>
<td></td>
<td>Colonial Sugar Refining</td>
<td>£10 10 0</td>
</tr>
<tr>
<td></td>
<td>Morganite</td>
<td>£50 0 0</td>
</tr>
<tr>
<td></td>
<td>Stauffen Chemical Co. (Aust.) Pty. Ltd.</td>
<td>£10 10 0</td>
</tr>
<tr>
<td>School of Chemistry</td>
<td>Australian Chemical Holdings Ltd.</td>
<td>£10 10 0</td>
</tr>
<tr>
<td></td>
<td>Australian Glass Manufacturers Co. Pty. Ltd.</td>
<td>£2 2 0</td>
</tr>
<tr>
<td></td>
<td>Chamber of Manufactures of N.S.W.</td>
<td>£5 0 0</td>
</tr>
<tr>
<td>Institution/Bequest</td>
<td>Amount</td>
<td>Purpose</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>--------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>C.S.R. Chemicals</td>
<td>£50    0 0</td>
<td>Chemistry Honours.</td>
</tr>
<tr>
<td>Drug Houses of Australia Ltd.</td>
<td>£5    5 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td>George Wright</td>
<td>£5    5 0</td>
<td>2.001 Chemistry I—Full-time students only.</td>
</tr>
<tr>
<td>Inglis Hudson Bequest</td>
<td>£3    0 0 (approx.)</td>
<td>2.611 Organic Chemistry I.</td>
</tr>
<tr>
<td>Merck, Sharp &amp; Dohme (Aust.) Pty. Ltd.</td>
<td>(i) £26 5 0</td>
<td>2.002 Chemistry II.</td>
</tr>
<tr>
<td></td>
<td>(ii) £26 5 0</td>
<td>2.003 Chemistry III.</td>
</tr>
<tr>
<td>The Nestlé Co. (Aust.) Ltd.</td>
<td>£2    2 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td>Parke Pope</td>
<td>£5    5 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td>Science Association</td>
<td>£10   10 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td>Smith, Kline &amp; French</td>
<td>£25   0 0</td>
<td>General Proficiency—Food and Drug Analysis Graduate Diploma.</td>
</tr>
<tr>
<td>Tooheys Ltd.</td>
<td>£2    2 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td>Tooth &amp; Co. Ltd.</td>
<td>£2    2 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td>Unilever</td>
<td>£10   10 0</td>
<td>2.34 Physical Chemistry III.</td>
</tr>
<tr>
<td>V. S. Rawson</td>
<td>£5    5 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td>School/Department</td>
<td>Donor/Name of Prize</td>
<td>Value</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| School of Civil Engineering    | Association of Consulting Structural Engineers of New South Wales | (i) £10 0 0 and books to the value of £15 0 0  
(ii) £10 0 0 and books to the value of £15 0 0 | General Proficiency—Structures (full-time students).  
General Proficiency—Structures (part-time students). |
|                               | Chamber of Manufactures of N.S.W.                      | £5 0 0                                                              | Civil Engineering—subject selected by Head of School.                                             |
|                               | Dunlop Rubber Australia Ltd.                           | £26 5 0                                                            | Civil Engineering, Year 3.                                                                        |
|                               | Freyssinet                                              | Books                                                               | 8.126G Prestressed Concrete.                                                                     |
|                               | Water Board Gold Medal                                  | Medal                                                               | 8.64A Public Health Engineering.                                                                  |
| Department of Drama            | Fourth Centenary Shakespeare                           | £10 0 0                                                            | Essay on Shakespearean topic.                                                                     |
| School of Economics            | The Economic Society                                    | £3 3 0 and one year’s membership of Economic Society.               | Economics, Final Year/Stage.                                                                     |
|                               | The Statistical Society of N.S.W.                       |                                                                     | Statistics—General Proficiency throughout course.                                               |
|                               | Unilever                                                | (i) £10 10 0  
(ii) £10 10 0  
(iii) £10 10 0  
(iv) £10 10 0  
(v) £10 10 0 | 15.101 Economics I.  
15.102 Economics II.  
15.103 Economics III.  
15.104 Advanced Economic Analysis.  
15.401 Business Statistics. |
<p>| School of Electrical Engineering| A.E.I. Engineering Pty. Limited                        | £2 2 0                                                              | School Prize Fund—subject selected by Head of School.                                            |
|                               | British General Electric Pty. Ltd.                     | £1 1 0                                                              | School Prize Fund—subject selected by Head of School.                                            |
|                               | Chamber of Manufactures of N.S.W.                      | £5 0 0                                                              | School Prize Fund—subject selected by Head of School.                                            |</p>
<table>
<thead>
<tr>
<th>School of English</th>
<th>New South Wales Association of University Women Graduates</th>
<th>£5 0 0</th>
<th>English Essays—Women students only.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Fuel Technology</td>
<td>Institute of Fuel</td>
<td>£15 15 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td></td>
<td>Shell</td>
<td>£31 10 0</td>
<td>School Prize Fund—year selected by Head of School.</td>
</tr>
<tr>
<td>School of Highway Engineering</td>
<td>Le Tourneau-Westinghouse</td>
<td>£125 0 0</td>
<td>General Proficiency—Highway Engineering, Master of Technology degree.</td>
</tr>
<tr>
<td>School of Hospital Administration</td>
<td>The Connie Ratcliffe Memorial</td>
<td>£10 10 0</td>
<td>General Proficiency—Hospital Administration.</td>
</tr>
<tr>
<td>Department of Industrial Arts</td>
<td>A. W. Wonders</td>
<td>£5 5 0</td>
<td>General Proficiency in course for the degree of Bachelor of Science in Industrial Arts.</td>
</tr>
<tr>
<td>Department of Industrial Engineering</td>
<td>Chamber of Manufactures of N.S.W.</td>
<td>£5 0 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td></td>
<td>Crane Copper and Aluminium</td>
<td>£75 0 0</td>
<td>Industrial Engineering, Year 3.</td>
</tr>
<tr>
<td></td>
<td>Duly and Hansford Ltd.</td>
<td>£5 5 0</td>
<td>Industrial Engineering, Stage 6.</td>
</tr>
</tbody>
</table>

Crane Copper and Aluminium | (i) £40 0 0 | Electrical Engineering, Year 3. |
<p>| English Electric Co. Ltd. | £10 10 0 | Power Apparatus and Systems Option or Utilisation and Control Option. |
| I.R.E.E. Fisk | £30 0 0 | Electrical Engineering—Thesis and Seminar. |
| J. Douglas MacLurcan | £5 5 0 | School Prize Fund—subjects selected by Head of School (3 prizes). |
| Morganite | £50 0 0 | School Prize Fund—subject selected by Head of School. |
| Standard Telephones and Cables Ltd. | £2 2 0 | Electrical Engineering—year or stage selected by Head of School (1965 then alternate years only). |
| School Prize Fund—subject selected by Head of School. |</p>
<table>
<thead>
<tr>
<th>School/Department</th>
<th>Donor/Name of Prize</th>
<th>Value</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Mathematics</td>
<td>School of Mathematics</td>
<td>(i) £10 0 0</td>
<td>10.121 Pure Mathematics II (Higher). 10.001 Mathematics I.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ii) £10 0 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Statistical Society</td>
<td>£3 3 0</td>
<td>General Proficiency—Theory of Statistics subjects.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ii) £10 0 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iii) £10 0 0</td>
<td></td>
</tr>
<tr>
<td>School of Mechanical</td>
<td>Babcock and Wilcox of Australia Pty. Ltd.</td>
<td>£10 10 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td>Engineering</td>
<td>Chamber of Manufactures of N.S.W.</td>
<td>£5 0 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td></td>
<td>Cockatoo Docks and Engineering Co. Pty. Ltd.</td>
<td>£2 2 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td></td>
<td>Colonial Sugar Refining</td>
<td>£10 10 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td></td>
<td>Dunlop Rubber Australia Ltd.</td>
<td>£26 5 0</td>
<td>Mechanical Engineering, Year 3.</td>
</tr>
<tr>
<td></td>
<td>Esso Australia</td>
<td>£10 0 0</td>
<td>Mechanical Engineering, Year 1.</td>
</tr>
<tr>
<td></td>
<td>Ford</td>
<td>£10 0 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
</tr>
<tr>
<td></td>
<td>Staedtler</td>
<td>£25 0 0</td>
<td>General Proficiency—Mechanical Engineering, Year 2.</td>
</tr>
<tr>
<td>School of Medicine</td>
<td>The Australian College of General Practitioners</td>
<td>£10 10 0</td>
<td>Case History Study—Medicine, Year 5 or Year 6.</td>
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<tr>
<td></td>
<td>FRATA</td>
<td>£50 0 0</td>
<td>Essay on a clinical or scientific aspect of alcoholism.</td>
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<tr>
<td></td>
<td>W. G. Telleson Memorial</td>
<td>£15 15 0</td>
<td>Written and Clinical Examinations, Year IV.</td>
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<tr>
<td>School of Metallurgy</td>
<td>Amount (£)</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Austral Bronze Co. Pty. Ltd.</td>
<td>5 0 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>Australian Aluminium Co. Ltd.</td>
<td>5 5 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>The Australian Institute of Metals</td>
<td>12 12 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>Australian Welding Institute</td>
<td>5 0 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>Boiler Inspectors' Association</td>
<td>10 10 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>The Broken Hill Proprietary Co. Ltd.</td>
<td>5 0 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>Chamber of Manufactures of N.S.W.</td>
<td>5 0 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>The Eagle and Globe Steel Co. Ltd.</td>
<td>5 5 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>The Electrolytic Refining and Smelting Co. of Australia Pty. Ltd.</td>
<td>5 0 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>Electrolytic Zinc Co. of Australia Ltd.</td>
<td>5 5 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
<td></td>
</tr>
<tr>
<td>R. H. Myers</td>
<td>10 0 0</td>
<td>Metallurgy, Year 1.</td>
<td></td>
</tr>
<tr>
<td>Zinc Corporation Ltd.</td>
<td>10 10 0</td>
<td>School Prize Fund—subject selected by Head of School.</td>
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</table>

<table>
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<tr>
<th>School of Obstetrics and Gynaecology</th>
<th>Amount (£)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F. J. Brown Memorial</td>
<td>10 0 0</td>
<td>Final Written and Practical Examinations in Obstetrics and Gynaecology.</td>
</tr>
<tr>
<td>Gordon Lowe Memorial</td>
<td>25 0 0</td>
<td>Clinical Obstetrics and Gynaecology.</td>
</tr>
<tr>
<td>School/Department</td>
<td>Donor/Name of Prize</td>
<td>Value</td>
</tr>
<tr>
<td>------------------------</td>
<td>--------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Department of Optometry</td>
<td>Australian Optical Co. Pty. Ltd.</td>
<td>£10 10 0</td>
</tr>
<tr>
<td></td>
<td>Australian Optometrical Association</td>
<td>£10 10 0</td>
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<td>Chamber of Manufactures of N.S.W.</td>
<td>£5 0 0</td>
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<td>Arthur Cocks &amp; Co. Ltd.</td>
<td>£5 5 0</td>
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<td>Corneal Lens</td>
<td>£10 10 0</td>
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<td>Optical Products Pty. Ltd.</td>
<td>£10 10 0</td>
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<td>The Opticians &amp; Optometrists’ Association of N.S.W.</td>
<td>£10 10 0</td>
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<tr>
<td>School of Physics</td>
<td>G. P. Falls</td>
<td>£10 0 0</td>
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<td>Physics Staff</td>
<td>£25 0 0</td>
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<tr>
<td>School of Political Science</td>
<td>Australian Institute of Political Science</td>
<td>£15 0 0 and one year's subscription to the &quot;Australian Quarterly&quot;.</td>
</tr>
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<td></td>
<td>Politics</td>
<td>£10 10 0</td>
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<td>The Sydney Morning Herald</td>
<td>£21 0 0</td>
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<tr>
<td>School of Textile Technology</td>
<td>J. B. Speakman</td>
<td>£10 0 0</td>
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<td>School of Textile Technology</td>
<td>R. J. Webster</td>
<td>£50 0 0</td>
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<tr>
<td>School of Traffic Engineering</td>
<td>Veteran Motorists of Australia</td>
<td>£10 0 0</td>
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<tr>
<td>School of Surgery</td>
<td>Frank Gerbode Graduation</td>
<td>£50 0 0</td>
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<td>School of Wool Technology</td>
<td>Henry H. York &amp; Co.</td>
<td>£25 0 0</td>
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<td>School of Wool Technology</td>
<td>Parkes Wool Promotion Committee</td>
<td></td>
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</tbody>
</table>
APPENDIX 2

GRADUATES AND DIPLOMATES OF THE UNIVERSITY

The following is a list as at 30th November, 1965, of persons who have been admitted to degrees and diplomas of the University since its incorporation in 1949.

HONORARY GRADUATES

Lieut.-Colonel Sir Charles Bickerton Blackburn, O.B.E., D.Sc. 1952
Frank Symonds Bradhurst, D.Sc. 1955
John Joseph Cahill, D.Sc. 1955
William Edward Clegg, D.Sc. 1955
Arthur Denning, D.Sc. 1957
Robert James Heffron, D.Sc. 1955
Norman Edward Jones, D.Sc. 1955
William George Kett, D.Sc. 1957
James Kenneth MacDougall, D.Sc. 1955
Francis Mackenzie Mathews, D.Sc. 1962
Sir Leslie Harold Martin, Kt., C.B.E., D.Sc. 1963
Sir Maurice Alan Edgar Mawby, D.Sc. 1955
Robert Kenneth Murphy, D.Sc. 1957
The Rt. Hon. The Viscount Nuffield, O.B.E., D.Sc. 1952
Marcus Lawrence Elwin Oliphant, D.Sc. 1952
Cobden Parkes, C.B.E., D.Sc. 1958
William Francis Sheahan, D.Sc. 1960
Sir Colin York Syme, Kt., D.Sc. 1960
Sir Robert Joseph Webster, C.M.G., C.B.E., M.C., D.Sc. 1962

GRADUATES

DOCTOR OF SCIENCE

Angyal, Stephen John Charles, 1964

DOCTORS OF MEDICINE

Logan, Geoffrey Gibson, 1965
Mishkel, Maurice Alan, 1964
Stokes, Gordon Stewart, 1964

§ Deceased
APPENDIX 2

DOCTORS OF PHILOSOPHY

Achmad, Sjamsul Arifin, 1964
Allen, John Ronald, 1960
Amigo, George, 1963
Arrowsmith, Robert James, 1963
Ausburn, Kenneth John, 1963
Bach, John Percival Spence, 1964
Backhouse, James Roy, 1958
Baker, Leslie Alan, 1964
Baker, Stanley Charles, 1958
Barnes, Geoffrey Thomas, 1958
Basden, Kenneth Spencer, 1961
Batterham, Thomas James, 1962
Bell, Kevin Hilton, 1964
Bennett, George, 1965
Betz, Eric, 1965
Bevan, John Althorp, 1963
Bonamy, Stanley Edward, 1961
Bowling, Keith McGregor, 1955
Brettle, Horace Joseph, 1958
Briggs, William Robert, 1956
Bryson, Alexander, 1957
Buchanan, Robert Hawkins, 1955
Burdon, Russell George, 1961
Burley, Terence Martin, 1963
Burrows, Keith Meredith, 1964
Cairns, Robert Charles, 1955
Cambev, Leslie Alan, 1960
Carmichael, Alexander John, 1959
Celtans, Gerard John, 1964
Chorlton, Stanley Harold, 1965
Clampett, John Brenner, 1965
Clark, Doreen Veronica, 1965
Cleary, Graham James, 1965
Cole, Edward Ritchie, 1960
Collins, John David, 1964
Connors, Francis Leslie, 1958
Conolly, John Robert, 1963
Courtney, John Lawrence, 1957
Cranmer, Venn, 1957
Craven, Brian Raymond, 1962
Croft, James Bernard, 1965
Crowden, Ronald Keith, 1961
Csanydy, Gabriel Tibor, 1958
Davies, Evan Edwin, 1965
Davis, Brian Keith, 1962
Dintenfass, Leopold, 1962
Draper, Laurence Moreton, 1963
Dunlop, John Ian, 1965

Edwards, Ronald Alexander, 1964
Ernst, Ian Thomas, 1965
Fielding, Peter Eric, 1957
Figgis, Brian Norman, 1956
Ford, Douglas Lyons, 1959
Ford, Geoffrey Hunter, 1962
Gero, Stephan Dov, 1963
Ghosh, Debabrata, 1960
Gilby, Alestion Ross, 1956
Gilham, Peter Thomas, 1957
Giutronic, John Eric, 1963
Gregor, Ian Kelvin, 1964
Haggarty, George James, 1963
Hanson, Morgan Alfred, 1965
Harris, Clive Melville, 1955
Harris, Iestyn James, 1963
Hart, Richard John, 1964
Hatherly, Max, 1963
Hatwalne, Vinod Kumar Ganesh, 1959
Hayes, John William, 1964
Herzog, Anthony, 1965
Hinterberger, Hertha, 1961
Hopkins, Edward Goodman, 1955
Hoskins, Bernard Foster, 1962
Hoskinson, Ronald Milton, 1962
Johnston, Arthur Kerr, 1957
Judd, Trevor Leopold, 1959
Keane, Austin, 1956
Kennard, Colin Harold Leslie, 1961
Kenny, Peter, 1963
Kingston, John Vincent, 1965
Kirchner, William George, 1963
Kokot, Ernest, 1961
Kornis, Gabriel, 1962
Laurenson, Eric Marwick, 1964
Law, Siu Wah, 1964
Lawrence, Laurence James, 1956
Lee, John William, 1961
Livingstone, Stanley Edward, 1955
Lloyd, Peter James, 1964
Lockyer, Trevor Norman, 1963
Loughnan, Frederick Charles, 1959
Low, Angus Henry, 1961
Lowenthal, Gerhard Clause, 1962
Madden, Barry George, 1964
Madgwick, George Graham, 1957
Magnuson, Eric Alfred, 1957
Maguire, Mary Helen, 1956

§ Deceased
GRADUATES OF THE UNIVERSITY

DOCTORS OF PHILOSOPHY—continued

Manurung, Firman, 1965
McCartney, Eric Robert, 1956
McConnell, Jack Foster, 1958
McDonald, Neil Robert, 1965
McHugh, Dennis Joseph, 1957
McKay, Maxwell Herbert, 1965
McKenzie, Elwyn Donald, 1963
McManus, Raghnall Walter, 1961
Moran, Vincent John, 1962
Morton, Allan James, 1964
Napier, Keith Hamilton, 1961
Newman, Wolfgang Max, 1965
Nichol, Alan William, 1965
Norman, Joseph Rangott, 1959
Norton, Gary Peter, 1965
O'Brien, Keith George, 1959
Oedjoe, Djoeriaman, 1965
Parry, Lindsay George, 1965
Pickering, William Frederick, 1960
Pinkerton, Donald Malcolm, 1962
Pollard, Howard Frank, 1963
Ralph, Raymond Keith, 1958
Ratcliffe, John Spurgeon, 1960
Rayner, Edward Oswald, 1962
Reichel, Alex, 1963
Richardus, Petrus, 1963
Roberts, Alan William, 1962
Roberts, Euan Maurice, 1959
Robins, Robert George, 1958
Roper, Geoffrey Harold, 1956
Rose, Ivan Lincoln, 1961
Ryan, Keith Donald, 1963
Salasoo, Inno, 1963
Schoenborn, Benno Paul, 1962
Schofield, Philip John, 1964
Shanahan, Gregory James, 1962
Sheasby, John Seymour, 1964
Shelton, Bertram, 1963
Shipp, Erik, 1964
Skinner, John Norman, 1962
Smart, Ronald George, 1962
Soemitroadi, K. Ng. Bambang, 1963
Soeparman, Entol, 1965
Solich, Werner Andreas, 1964
Solomon, David Henry, 1959
Stanton, Kenneth Neil, 1965
Stephens, Frederick Selwyn, 1963
Stephenson, Neville Charles, 1961
Sullivan, John Leslie, 1961
Sutton, Gervaise John, 1956
Swinbourne, Ellice Simmons, 1960
Tallis, George Michael, 1965
Tao, Shu Jen, 1964
Tate, Max Edwin, 1961
Taylor, John Charles, 1963
Tetaz, John Robert, 1956
Thompson, Colin John, 1964
Thornton, Barry Stephen, 1960
Tirrell, Roy, 1962
Tschoegl, Nicholas William, 1959
Walker, William Raymond, 1963
Wallwork, Greig Richard, 1960
Warne, Slade St. John, 1964
Warner, Noel Alfred, 1958
Warner, Ronald Kenneth, 1955
Warrener, Ronald Norman, 1960
Werner, Ronald Louis, 1957
Whitfield, Frank Brierley, 1963
Wilkins, Coleridge Anthony, 1963
Wood, Alec Edward, 1963
Wulff, Hans Eberhard, 1965
Young, Ronald Jerome, 1958
Zahid, Mohammad Saeed, 1957
Zeitlin, Adela, 1965

MASTERS OF ARCHITECTURE

Daniels, Eric Charles, 1965
Greenslade, Anita Barbara, 1957
Kollar, Laszlo Peter, 1963
Phillips, Ralph Oswald, 1956
Woolard, Frank, 1961

MASTERS OF ARTS

Braggott, Edwin John, 1964
Elliott, Gordon Charles, 1963
Irwin, Peter George, 1965
McMinn, Winston Gregory, 1961*
Robinson, Ross, 1963
Young, Irwin Edward, 1963

*Honours Class I. Awarded under original regulations. Under current regulations the degree is not graded.
MASTERS OF BUILDING
Cooper, Arthur Ashley, 1964

MASTERS OF BUSINESS ADMINISTRATION
Goth, John, 1965
Spry-Bailey, Philip, 1965

MASTERS OF COMMERCE
Fisher, Ross Graham, 1963
Lay, U Bo, 1963
Muchtar, Sofjan, 1963
Ninh-Van-Tu, Peter, 1963

MASTERS OF ENGINEERING
Balint, Peter Stephen, 1959
Bason, Peter Thomas, 1964
Baxter, Robert Ian, 1964
Beale, Jack Gordon, 1965
Betz, Eric, 1957
Bofinger, Harold Edward, 1962
Bonner, Maxwell George, 1965
Boonyaprabhatsorn, Patipan, 1964
Borchardt, Henry Alexander, 1961
Boughton, Walter Charles, 1965
Bowland, Kenneth Clive, 1964
Bridger, Kenneth Ralph, 1964
Brown, Hilton Russell, 1961
Bryant, Raymond Alfred, 1957
Burdon, Russell George, 1954
Chandler, Geoffrey Arnold, 1964
Chinn, Henry Ronald, 1963
Choga, Andrew, 1964
Clarke, Richard Henry, 1964
Close, John Frederic Campbell, 1965
Coulter, Charles Garth, 1962
Douglas, Arthur Gordon, 1960
Dudgeon, Colin Raymond, 1965
Faulkes, Kenneth Alan, 1958
Frisch-Fay, Robert, 1961
Glucharoff, Todor, 1958
Gould, Bernard William, 1959
Gruner, Lucian, 1963
Harrison, Harry, 1961
Hattersley, Ralph Thomas, 1961
Hind, Edward Colvyn, 1961
Howard, David Trewella, 1963
Jenkins, Jack Lachlan, 1962
Jumikis, Thomas, 1965
Lancaster, Barry John, 1964
Lau, William Tsun Fong, 1961
Learmonth, John Robert, 1964
Longfoot, John Elms, 1962
Loo, Sonny Gabriel, 1964
Magnusson, David John, 1962
Maguire, Ken Hector, 1959
Matthews, Warren Arthur, 1961
Medina, Leo, 1959
Nettleton, Alan Frank Stewart, 1959
Nightingale, Derek Thomas, 1960
O'Connor, Desmond Conroy, 1960
Parker, Geoffrey John, 1961
Randall-Smith, Thomas Carl, 1965
Reddy, Dabala Rajagopal, 1964
Redman, Stephen John, 1962
Reizes, John Arthur, 1965
Richardus, Petrus, 1960
Robertson, Robert George, 1965
Ryan, Paul William, 1958
Saeed-ud-Din, 1957
Saiva, Guntars, 1964
Salvo, Eluderio Sevilla, 1961
Sapsford, Charles Matthew, 1958
Scholer, Harry Albert Theodore, 1960
Sekhon, Manjit Singh, 1962
Shearman, Ian Henry, 1964
Shrivastava, Krishna Kumar, 1955
Smith, Algernon Fletcher, 1962
Stanton, Kenneth Neil, 1961
Stuart, Anthony Graham, 1964
Sullivan, Philip Albert, 1962
Thosby, Peter Wentworth, 1965
Tinh, Tran Kiem, 1963
Toomey, John Joseph, 1961
Turner, Harold James, 1961
Upfold, Robert William, 1961
GRADUATES OF THE UNIVERSITY

MASTERS OF ENGINEERING—continued
Van Der Werf, Peter, 1964
Wallis, Raymond Allan, 1954
Warner, Robert Falcon, 1957
Watkinson, Eric, 1959
Watson, Keith Kingsford, 1959
Weiss, Kurt, 1958
Welch, Geoffrey Baldwin, 1957
Williams, Ewart George, 1960
Wong, Kwan Yui, 1963
Wood, Ian Ruthven, 1958
Woodhead, Ronald William, 1957
Yang, John Tong, 1964

MASTERS OF HOSPITAL ADMINISTRATION
Crowley, Paul Bertram, 1965

MASTERS OF SCIENCE
Ahmed, Waheed, 1962
Albani, Alberto Domenico, 1965
Alfredson, Peter George, 1964
Algie, John Edgar, 1961
Anand, Jagdish Chandar, 1955
Anderson, Anders John, 1958
Anderson, John Ragnar, 1953
Angyal, Stephen John, 1961
Arman, Masly, 1963
Armstrong, John McDougall, 1958
Aylward, Gordon Hillis, 1954
Ayscough, Frederick William, 1957
Baillie, Malcolm George, 1961
Baker, William Ernest, 1963
Balasubramaniam, Eliathamby, 1965
Ball, Judith Helen, 1964
Baqar, Syed Ali, 1962
Barbour, Robert Gavin, 1958
Barker, Norman Thomas, 1960
Barnes, John Edward, 1965
Barrett, Jack, 1963
Basooki, 1965
Batley, Graeme Edward, 1964
Bayliss, Peter, 1963
Beckmann, Peter, 1955§
Belcher, Charles Brian, 1963
Bellingham, Andrew Irwin, 1961
Bender, Veronika Judith, 1963
Bendit, Ernest George, 1955
Boland, James Norman, 1965
Bolliger, John Edward, 1963
Bowen, Leonard Oswald, 1954
Branch, Stuart Innes, 1965
Brian, Harry Hamilton, 1964
Brisley, Warren, 1962
Brockhurst, Peter John, 1965
Brown, John Keith, 1964
Browne, James David, 1964
Buchsbaum, Nicolas, 1964
Burke, Morris, 1963
Chapman, Ralph Edward, 1963
Chiswell, Barry, 1960
Choudhry, Mohammed Siddique, 1958
Clancy, Brian Edward, 1959
Connors, Francis Leslie, 1954
Conolly, John Robert, 1960
Cook, James Lindsay, 1959
Cooke, Colin Garland, 1957
Cooper, Anthony, 1963
Cornford, Pamela Athalie, 1960
Costoulas, Aristotle John, 1958
Cowell, Norman David, 1961
Craig, Donald Chadwick, 1964
Craske, John David, 1964
Craven, Brian Raymond, 1959
Crawford, Brian Raymond, 1964
Cudmore, Joseph Francis, 1964
Cullen, James Sylvester, 1963
Curthoys, Geoffrey Carlton, 1959
Davies, Jean Isabel, 1961
Davis, Peter Stanislaus, 1962
Davis, Ronald Bruce, 1963
Dintenfass, Leopold, 1958
Dircks, Alexander Douglas, 1963
Donegan, Henry Arthur, 1955
Duckworth, Valerie Frances, 1964
Dworjanyn, Orest, 1963
Elbourne, Ronald George Pomeroy, 1964
Elliott, David, 1965

§ Deceased
MASTERS OF SCIENCE—continued

Ewers, William Hector, 1963
Farrington, Keith John, 1962
Fletcher, Harold Oswald, 1957
Florence, Trevor Mark, 1961
Flynn, Thomas Desmond, 1958
Ford, Douglas Lyons, 1954
Fowler, Douglas George, 1964
Fowler, Herbert, 1956
Garnett, John Lyndon, 1954
Gatehouse, Bryan Michael, 1956
George, Eric Paul, 1965
Ghosh, Sucharita, 1964
Gohain, Annada, 1959
Golding, Henry George, 1957
Golightly, David Rankin, 1960
Gregor, Ian Kelvin, 1959
Griffin, Russell John, 1960
Griffith, June Clare, 1956
Grimmett, Stanley, 1963
Guest, Graeme Beresford, 1963
Haken, John Kingsford, 1962
Halass, Steven, 1965
Hall, Francis Michael, 1960
Hall, Lennard Robert, 1958
Haly, Alan Robert, 1958
Hanscomb, John Robert, 1963
Hansen, Norman Reginald, 1956
Harper, Kevin Anthony, 1961
Harrington, Rodney Bernard, 1962
Harris, Bruce, 1960
Harris, Robert William, 1963
Harry, John Raymond, 1963
Hart, Richard John, 1961
Hatherley, Max, 1956
Hattersley, David Edwin, 1965
Hay, William James, 1965
Hellyer, Robert Owen, 1958
Henderson, John Barry, 1962
Hewitt, Bernard Robert, 1957
Hill, David Deveril, 1965
Ho, Raymond Kwong Yau, 1965
Holland, Bruce Owen, 1961
Hooper, Thomas Leslie, 1962
Howarth, Walter James, 1962
Huggins, Paul, 1960
Hughes, Thomas William, 1957
Humphreys, Frank Reginald, 1957
Hunt, Charles Henry, 1959
Ip, Hung-Kwong, 1965
Irwin, Robin Carol, 1958
Jasifi, Epi, 1963
Johnston, Gordon Basil, 1960
Joyce, Linton Glen, 1965
Kalotas, Thomas Michael, 1965
Kapur, Narinder Singh, 1955
Karihaloo, Aitar Krishen, 1964
Kennedy, John Patrick, 1961
Kennon, Noel Frederick, 1960
Kerr, Andrew Colin, 1963
Keys, Lewis Henry, 1961
Khandekar, Vasudeo Narayan, 1964
Kidman, Antony David, 1964
Kiek, Sidney Noel, 1965
King, Dianne, 1965
Kirchner, William George, 1955
Klavinis, Janis Evalds, 1962
Ko, Maung Ko, 1963
Laik, Elmar, 1961
Lambert, John Alexander, 1963
Lark, Prosper David, 1957
Lederer, Josef, 1956
Le Marne, Alan Ernest, 1963
Levan, Nhan, 1962
Lock, Laurence Charles, 1961
Lockley, Harry David, 1957
Lockyer, Trevor Norman, 1960
Lowenthal, Gerhard Clause, 1958
Lynch, Alban Jude, 1958
Lynch, Barbara Joy, 1964
Macara, Brenda Jean, 1965
Macey, Michael John Kempster, 1964
Maggs, David Frederick, 1963
Maher, Thomas Patrick, 1964
Malin, Anthony Samuel, 1962
Maloney, John Edgar, 1962
Mann, Kenneth, 1963
Manners, Vincent John, 1965
Marsden, Kenneth Hulme, 1959
Martin, Cyril Maxwell, 1953
Martin, Ewan Cameron, 1959
Matthews, Ralph William, 1962
May, James Richard, 1961
McBrien, Basil Patrick, 1963
McFarlane, John Douglas, 1963
McGilchrist, Clyde Arnold, 1963
McKenzie, Peter John, 1959
McKern, Howard Hamlet, 1957
McLaren, Keith Gerrard, 1960
McLennan, John Ewen, 1964
McMichael, Oliver Clements, 1965
GRADUATES OF THE UNIVERSITY

MASTERS OF SCIENCE—continued

Melouney, Harold Francis, 1954
Miklouho-Maclay, Robertson Wentworth de, 1956
Minty, Edward James, 1961
Mirza, Meftahul Ahmed, 1955
Moorhead, David Ronald, 1964
Muir, Andrew, 1963
Murdock, John Sylvester, 1962
Mustard, David Alan, 1965
Naylor, Robert, 1960
Newburn, John Milton, 1962
Nicholson, Frank David, 1965
Ninio, Freddie, 1962
Norton, Gary Peter, 1962
O'Brien, Reginald William, 1964
Oedjoe, Djoeriaman, 1961
Oglethorpe, Bruce James, 1961
O'Neill, Dermott Kevin, 1958
Ormay, Miklos Kalman, 1961
Ozcan, Kazim, 1957
Ozols, Gunars, 1961
Park, Thomas Michael, 1964
Parry, Lindsay George, 1955
Pickering, William Frederick, 1956
Pitt, John Ingram, 1965
Powning, Rodney Francis, 1953
Pullin, James Anthony, 1965
Ramm, Eric John, 1963
Ratcliffe, John Spurgeon, 1957
Rauf, Abdur, 1956
Rayner, Edward Oswald, 1957
Reece, Ian Harold, 1961
Reynolds, Judith Louise, 1962
Rigby, Bernard John, 1957
Rileigh, Albert Kenneth, 1965
Ritchie, Arthur Sinclair, 1962
Robins, Robert George, 1955
Robinson, Phillip, 1964
Roper, Geoffrey Harold, 1953
Roulston, William James, 1958
Rubin, Burah Robert, 1964
Rudzats, Richards, 1963
Sadler, William Robert, 1959
Schulz, Ronald Arthur, 1965
Schwartz, Alfred, 1958
Scott, George Everly, 1959
Serjeant, Eldon Percy, 1962
Shanahan, Gregory James, 1960
Sharry, Leo Francis, 1965
Silberstein, Bernard, 1964
Simes, Henry Victor, 1961
Simpson, John Robert, 1963
Smith, Keith Lyne, 1963
Smith, Malcolm Bruce, 1961
Soemarno, 1964
Solomon, David Henry, 1955
Spedding, Peter Lee, 1960
Sreemulanathan, Harihara, 1955
Standish, Nicholas, 1963
Steele, Maxwell Campbell, 1956
Stevenson, Brenda Jean, 1959
Sugowdz, Galina, 1955
Sullivan, John Leslie, 1956
Sutton, Gervaise John, 1953
Tallis, George Michael (Dr.), 1963
Taneja, Gopi Chand, 1954
Taylor, James Harding, 1961
The, Kwat Je, 1962
Thomson, Joseph Alexander, 1962
Todd, Donald Douglas, 1964
Turner, Kevin Stuart, 1960
Veeraburus, Manas, 1963
Villaroel, Leon Juan, 1960
Wall, Geoffrey Craig, 1963
Waterman, Hanneke, 1958
Waugh, John Blake, 1957
Weckslers, Oscar Sneir Salman, 1962
Weiler, Hans, 1956
Weiss, Paul William, 1965
Werner, Ronald Louis, 1953
Whichello, Kenneth Edgar, 1960
Whiffen, Neville Albert, 1956
Whitfield, Frank Brierley, 1960
Willatt, Stephen Thomas, 1964
Williams, John Francis, 1961
Williamson, William Harold, 1957
Winter, George, 1957
Wong, Ching Lien, 1965
Young, Brian Charles, 1965
Young, Sydney Sze Yih, 1956
Zaki, Mahmud, 1962

§ Deceased
APPENDIX 2

MASTERS OF TECHNOLOGY

Afzal, Ahmad, 1965
Akhtar, Khalid Mahmud, 1965
Andreassend, David Charles, 1965
Archer, Norman John, 1965
Austin, Terence William, 1963
Austria, Rodrigo, 1965
Betts, Neville Oswald, 1964
Bicevskis, Andrejs, 1965
Binns, Michael Roger, 1962
Birzulis, Aldis Janis, 1965
Black, Donald John, 1964
Blake, John Barrymore, 1962
Bonthorne, James Dean, 1964
Brewster, Ian James, 1965
Brodie, Hugh David, 1964
Brown, John Vernon, 1965
Buckley, Douglas John, 1961
Bunton, Robert Brian, 1961
Burnett, Bierzynski Ignacy, 1964
Byrne, John Denis, 1964
Carter, Thomas Arnold, 1965
Carters, Peter, 1962
Casey, Peter William, 1961
Catchpoole, Alan David, 1965
Ceniza, Bienvenido, 1965
Chang, Kin Koon, 1964
Chawla, Tara Chand, 1962
Chen, Malcolm Mien Chee, 1962
Chen, Peter Yo Pin, 1965
Choy, Gay, 1962
Choy, Hon Tim, 1962
Choy, Thomas Tak Cheung, 1965
Choy, Way, 1963
Christmas, Raymond William, 1965
Clancy, Kenneth George, 1963
Clark, William Keith, 1961
Clarke, Albert George, 1961
Clissold, Carne Maurice, 1962
Conner, John Martin, 1961
Cook, David Charles, 1963
Cornell, Michael Alexander, 1964
Cram, Anthony Adrian, 1961
Crowe, John Gordon, 1961
Ding, Gar Day, 1961
Donovan, Peter John, 1964
Evans, Peter John Anthony, 1965
Fenwick, John Robert, 1963
Finger, Erik Franz Ferdinand, 1964
Fisher, Ronald Benjamin, 1960
Foong, Ka Nim, 1963
Forydce, William Alexander, 1963
Foster, John, 1962
Fraser, John Bruce, 1961
Gander, Brian John, 1962
Gerrard, Charles Mervyn, 1964
Gonzalez, Delfin, 1965
Graham, Peter, 1961
Gray, Robert Alfred, 1963
Gregg, Peter Stewart, 1960
Griffiths, Robin Bransom, 1962
Gurley, Colin Richard, 1965
Hall, Alan James, 1964
Haynes, John Frederick, 1961
Hazzard, James Edward, 1965
Headford, Peter William, 1963
Herschtal, Ludwig, 1964
Hinwood, Jonathan Barry, 1962
Ho, Wah Chiang, 1963
Holt, Neil Douglas, 1963
Holy, Zdenek Josef, 1964
Hope, Ian Gordon, 1965
Hurd, Frank William, 1961
Ida, Aziz Ahmad, 1965
Ings, Noel Leslie, 1964
Ivering, John, 1965
Jabbour, Sami Khalil, 1964
Johnstone, Clifford Owen, 1963
Jones, Peter George, 1965
Kaballa, Algis, 1960
Kandiah, Kumarasivam, 1961
Kennedy, Allan George, 1963
King, Frederick Joseph, 1961
Kneebone, Douglas Craig, 1963
Knox, David Wykeham, 1964
Ko, Chew Kai, 1962
Koo, Hock Khean, 1964
Krishna Swamy, Tirumala Bukkapatnam, 1960
Kwong, Sze-To, 1963
Lam, Kui-Kwong, 1965
Lee, Choong Woh, 1962
Leong, Harry Jung-Wing, 1962
Ling, Ching Sang, 1963
Longrigg, John Christopher Hemsley, 1965
Lukey, John Doak, 1964
MacBride, James Richard Michael, 1960
Major, Norman Grant, 1962
Mallesch, Peter Harold John, 1965
Manton-Hall, Arthur William, 1962
Marin, Nicasio, 1961
Marshall, Gordon Lyle, 1961
GRADUATES OF THE UNIVERSITY

MASTERS OF TECHNOLOGY—continued

Marshall, Ronald James, 1964
Mateffy, Stephen Alexander, 1962
McAdam, David Victor, 1965
Messner, John Pitt, 1963
Mills, John Edward, 1962
Mok, Kee Pan, 1963
Monks, Philip Egerton Harry, 1961
Morris, Robert William James, 1965
Navarro, Eppie Cano, 1963
Nicholls, Maxwell James, 1961
O'Brien, Terence Ignatius, 1965
O'Kelly, Peter Anthony, 1965
O'Loughlin, Emmett Michael, 1960
Oppy, Edmund Thomas, 1961
Pak-Poy, Patrick Gerald, 1960
Pathmanathan, Sabharatnam, 1963
Pe, Antonio, 1965
Perry, Robert George, 1962
Pike, Russell Edward, 1962
Quaynor, Herbert Opare-Addo, 1963
Raffaele, Joseph, 1960
Ranganna, Ganganna, 1961
Ray, Keith Morris, 1963
Reddy, Dabbala Rajagopal, 1961
Royal, Donald Norman, 1965
Russell, William Francis, 1963
Sanchez, Emiliano Baluyot, 1964
Simpson, John Roger, 1962
Shadwell, Thomas Graeme, 1961
Shattock, John William, 1962
Siddiqi, Muhammad Akram, 1965
Siyali, Mohinder Singh, 1962
Snow, Bryson Keith, 1961
Spinks, Norman Joseph, 1963
Spitzkowsky, Colin William, 1963
Storr, Eric David, 1965
Swami, Shanmugam Arumuga, 1961
Swanson, Bruce McKenzie, 1962
Tainsh, John McArthur, 1962
Tan, Jin Lee, 1962
Tao, Shu-Jen, 1962
Tchelet, Moshe, 1962
ten Brummelaar, Theo, 1961
Thomas, Charles William Govan, 1964
Tognetti, Keith Phillip, 1964
Toomath, John Battersby, 1964
Toppller, Jeno Frank, 1962
Trickett, Graham George, 1964
Tsang, Gee, 1965
Vidler, Garrie Joffre, 1963
Walker, John Allan, 1965
Warren, Eric George, 1964
Waslin, Nelson Alex, 1961
Watts, Dean Lachlan, 1963
Wheeler, Richard Carrington, 1964
Wijesinghe, Thilakaratne, 1963
Wilson, Denis Patrick, 1964
Wiltshire, Neville Duncan, 1964
Win, Paw, 1962
Wong, Kwai Wah, 1965
Wotherspoon, Robert John, 1962
Yang, Kwai-Sang, 1964

BACHELORS OF ARCHITECTURE

Adams, Gordon Stuart, 1960**
Adcock, Bernard Leighton, 1963
Allen, Darryl Rawdon, 1965**
Allen, David Bradley, 1957
Ashton, David Myles, 1963
Ashton, William Winter, 1960
Atkin, Philip Maurice, 1964
Aynsley, Richard Michael, 1965*
Bastock, Graeme Frederick, 1964
Baxter, John Denis, 1965
Beardsmore, Trevor Gordon, 1965
Behne, Stuart Edmond, 1958**
Bennett, Graham Frederick, 1963**

* Honours Class I    ** Honours Class II

Boss, Adrian, 1965
Bourke, John Giles, 1965
Bracs, Gunars, 1963
Brawn, Graham Wesley, 1962**
Breden, Ian Richard Squire, 1965**
Brogan, John Murray, 1963**
Brogan, Richard Ian, 1964**
Brookes, Christopher James Stuart, 1965
Brothers, Michael Charles, 1965
Browne, Gardner Leigh, 1964
Buhrich, Clive Peter, 1964
Buivids, Edwin, 1965**
APPENDIX 2

BACHELORS OF ARCHITECTURE—continued

Butler, Paul William, 1965
Cahill, Patrick Edward, 1964
Carr, Donal Pattison, 1965
Cashell, Mervyn Michael, 1965
Ceprynski-Ciekawy, Andrzej
Kazimierz Marian, 1961
Chan, Edwin Chin Tan, 1958**
Chappelow, Raymond Arthur, 1963**
Charlton, Kenneth Donald, 1965
Chen, Lawrence Li-Chih, 1957
Ch'ng, Poh, 1965
Chou, John Tai Ping, 1964**
Clinton, Ronald Peter, 1961
Colman, James Stanley, 1957
Courtney, John Michael, 1963
Coward, Philip Michael, 1960
Cowdroy, Robert McLeod, 1965
Dalton, Peter John, 1965**
Danks, Geoffrey Richard, 1963**
Davis, Ronald John, 1964**
Devine, Ronald Harry, 1957
Dorrough, Athol Terrence, 1962**
Doyle, John Hamilton, 1963
Drake, Barrie Lawrence, 1958**
Drezins, Aivars Leonids, 1964
Dunn, Richard Barry, 1964
Ellis, Barry Scott, 1962**
Ezzy, Ian Edward, 1965**
Firkin, Warren, 1965
Fisher, Bruce Allan, 1965
Foo, Alexius Kee Fong, 1961
French, Graham James, 1962
Fuller, George Gordon, 1958**
Glasson, Gilean, 1964**
Greenslade, Anita Barbara, 1955†
Greig, Barry John, 1965
Greste, Juris, 1959**
Guest, George William, 1962
Hamaker, Emanuel Hendrikus, 1965
Hanly, David Thomas, 1960
Harvey, Antony James, 1965
Hay, Graeme, 1962**
Ho, John Lung Tat, 1960
Hodges, Harold John, 1960**
Hoffmann, John Robert, 1964
Holland, Graham Edward, 1963
Houghton, Keith Stuart, 1960**
Howes, Raymond Keith, 1963
Karklins, Arnis, 1961
Koo, Hock Yeow, 1965*
Kringas, Christopher, 1959**
Kringas, George Peter, 1963
Lake, John Andrew, 1963
Lester, Alfred Nathan, 1964**
Lane, Terence William, 1965
Langstaff, Alan McGregor, 1965
Lehmann, Noel Fergus, 1965
Leung, Edwin Chung-Ching, 1963**
Lewicki, Michael Nicholas, 1963
Littlemore, David Anthony, 1962*
Liu, Thai Ker, 1963†
Lodens, Ilmars Karlis, 1956*
Lowe, Colin Arthur, 1963
Lynch, Brian Patrick, 1964
Mack, Edward Carrington, 1958
Mander Jones, David Rhys, 1960
Marelli, Hans Karl, 1961*
Maron, Guy Claude Charles, 1962
Martin, Francis William, 1965
McKay, Ian David, 1955
McManus, Patricia Frances, 1965
McNamara, Arthur, 1963*
Meadows, Ronald, 1955
Meyer, Robert Werner, 1960
Mezdreis, Arnolds, 1957**
Michalandos, Nicholas, 1965
Ming, Charles Ka Fook, 1964
Mitchell, Jon Patrick, 1963
Moor, Derek Vernon, 1959
Moorcroft, John Frederick, 1965
Moore, John Dudley, 1956
Moore, Robert Frank, 1964
Morris, Donald David, 1962**
Morton, Neville John, 1965
Mutton, John William, 1965**
Myers, Peter William, 1965
Newman, Kenneth Moreton, 1955
Newman, Philip Moreton, 1965
Nicholas, John Sutton, 1964**
Owers, Robert Charles, 1963
Parrott, Diane Jacynthe, 1960
Perey, Robert Adrian Henry, 1965**
Perm, Vladimir, 1957**
Phelan, Robert James, 1965**
Pollack, Henry, 1964**
Ray, David William, 1960**

* Honours Class 1  ** Honours Class II  † University Medal
GRADUATES OF THE UNIVERSITY

BACHELORS OF ARCHITECTURE—continued

Reedman, Leslie Arnold George, 1961**
Rice, Kevin James, 1955*
Robertson, Lindsay Francis, 1960**
Rodd, Brent Tremayne, 1964
Roeheck, Joan, 1964
Roth, John, 1960*
Sabolch, Bela Emery, 1960
Sheather, Graeme Douglas, 1964
Sheedy, Sidney David, 1962
Smart, Graeme Gilbee, 1960
Sobolevskis, Richards Haralds, 1964
Statzenko, George, 1958**
Stone, George Barry, 1958
Suters, Brian John, 1962†
Tanner, Richard Gordon, 1962
Taylor, Bruce Merrick, 1962**
Thompson, Christopher Richard, 1965
Thorvaldson, Finn Christopher, 1961
Thorvaldson, Sven Daniel, 1965**
Tomaszewski, Michal Krzysztof Fortunat, 1964
Trankels, Valentins Ivars, 1963
Trevena, Lindsay Allan, 1963
Trinder, David Frederick, 1962
Tunin, Boris Christopher, 1961
Twitchett, William Arthur Philip, 1961
Veenstra, Alan Anno, 1963
Vote, Bruce Kent, 1964
Wilson, Neil Frederick, 1963
Witts, Phillip Walter, 1964
Wong, Wai Ying, 1957
Woo, Raymond Kok Chew, 1965
Wyllie, Donald Russell, 1963
Yong, Kain Chung, 1965
Yow, Sze Wun, 1963
Yuen, Helen, 1964

BACHELORS OF ARTS

Adcock, Sylvia Grace, 1964
Addison, Kerry Joan, 1964
Aicock, Enid Margaret, 1965
Aldersey, Richard Aubrey, 1964
Allen, Stanley, 1963
Alley, Leigh, 1962
Anderson, Colin Robert, 1963
Anderson, James Ross, 1963
Anderson, John Stanley, 1965**
Andrew, Merrilyn Jane, 1965
Andrews, Barry Geoffrey, 1964**
Annesley, Michael John, 1965
Archer, Arthur George, 1963**
Archer, John Malcolm, 1964
Armstrong, Henry Roderick Albert, 1965
Atherton, John Raymond, 1960**
Aus, Margaret Jean, 1963
Aw, Dennis Hong-Lim, 1965
Baillie, Raymond John, 1964
Baker, Lauretta Anne, 1964**
Baldwin, Marie Rose, 1961
Bale, Emily Joan, 1965
Balks, Denise Elaine, 1964
Banfield, Brian Melville, 1962
Banks, Enid May, 1965
Barnwell, Norman Edgar, 1965***
Bartholomew, Geoffrey, 1960
Bastian, Anne, 1965
Beck, Michael Massey, 1964
Belford, Irene Janice, 1961
Benham, Dawn Mary, 1963
Bennett, Norman Ross, 1963
Bentley, Geoffrey Robert, 1961
Bidstrup, Graham James, 1965
Bignill, Kenneth Robert, 1961
Birthistle, Brendan Thomas, 1965
Blackburn, Robyne Patricia, 1965***
Blunden, Thomas William, 1961**
Bohringer, Jeanette Marjorie, 1964
Bond, David Grant, 1963
Bowe, Annette Marjorie, 1960
Bray, Betty Evelyn, 1963
Breakwell, Helen Elizabeth, 1965**
Brentnall, Robyn Austin, 1964
Brice, Janet May, 1963**
Broadbent, Patricia, 1964
Brown, Doreen Bronwyn, 1961

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
APPENDIX 2

BACHELORS OF ARTS—continued

Brown, Eileen Barbara, 1963
Brown, John Matthew, 1961*
Brown, Lionel Henry, 1962
Brown, Marian Elsbeth, 1960
Brown, Susan Elaine, 1965
Buchhorn, Anna Zofia, 1962
Bullerwell, Judith Claire, 1960**
Burke, Beverley Anne, 1964
Burt, Dorothy Anne, 1965
Buxton, Ann, 1964
Caillot, Marc, 1965**
Caldwell, John Archibald Wayne, 1962
Callen, Marie Bernadette, 1962
Callen, Mary, 1960
Camden, Jacqueline Rose, 1963
Cameron, Brian Edward, 1965
Campbell, Kerrie Elizabeth, 1965
Carter, John Edward, 1961***
Cashmere, John Joseph, 1964*
Caskey, Sandra Clare, 1961
Chew, Lee-Kiang, 1965
Chew, Peck Geok, 1964
Chignell, Lesley Anne, 1965
Chow, Joseph Wah Seng, 1965
Cicolini, Leo, 1963
Clack, Marie Eleanor, 1960
Clarke, Alan Thorn, 1964
Clarke, Alexander Marshall, 1963*
Clarke, Judith Anne, 1965**
Cliff, Leonard William, 1965**
Coates, James Robert, 1965
Cocks, Michael Richard, 1965
Cohen, Philip, 1965
Collits, Terence John, 1961
Comerford, Mabel Mary, 1963
Conners, Noel Thomas, 1963
Cook, Jeanette Deidre, 1963†
Cook, Paul Clifford, 1963
Cooper, Jennifer Ann, 1965
Cooper, Robert Gordon, 1965
Cornish, Peter John, 1965
Corr, Lance Cameron, 1961
Cranfield, Clifford Alan, 1965
Croft, Julian Charles, 1961
Crosbie, Maureen, 1964
Crothall, Marion Mildred, 1961**
Crowley, Irene Margaret, 1964

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal

Cummings, Lois, 1964
Currey, Aphra Nell, 1961
Cuthbert, Alexander Walker, 1960
D'Abrera, Bernard Launrice, 1965
Dan, Victoria, 1963
Davidson, Vivienne Enid, 1965
Davis, Geoffrey Malcolm, 1965
Davis, Janise Anne, 1965
Davis, Lyndall Kay, 1965
Davis, Ronald John, 1961***
De Plevitz, Loretta Ruth Amelia, 1964
Dibley, Pamela Joy, 1963**
Dick, Mary Carmel, 1961
Dickinson, Etta Gwen, 1964
Donaldson-Evans, Lancelot Knox, 1962**
Donegan, Brian Frederick, 1964
Dornan, Lynn Alexander, 1964
Douglas, Mai, 1965
Doyle, Catherine Mary, 1965
Doyle, Wendy Gai, 1962
Drinan, Frances Margaret, 1963
Driscoll, Jessie Alice, 1961
Duggan, Allen Dion, 1964
Dyer, Donald Allen, 1964
Eastcott, Leslie Raymond, 1965
Edden, Kenneth Roy, 1961
Ellenor, Keith Ronald, 1965
Elvidge, Norman Charles, 1965**
Emanuel, Robyn Monroe, 1965
Emery, Diana Leonie, 1964
Evans, Warren Thomas, 1965
Farrell, Judith Patricia Mary, 1962
Farrell, Kathleen Patricia, 1960
Felton, Kay, 1965†
Ferrett, Ruth Lorraine, 1962
Firkin, Helen Clare, 1965
Fisher, Darrell Graeme, 1961
Flanagan, Kay Frances, 1962
Flynn, Catherine Helen, 1964
Foley, Gerard William, 1965
Foulkes, Rosalind, 1964
Fowler, Fay Anne, 1964
Gardner, Michael George, 1965
Geary, John Joseph, 1960**
Geyer, Robert John, 1964
Gibbs, Brenda May, 1961
Gibbs, Rodney Allan Stewart, 1964
GRADUATES OF THE UNIVERSITY

BACHELORS OF ARTS—continued

Gilbert, Wendy Renée, 1962
Goffet, Natalie, 1965
Goodacre, Lionel John, 1963
Grady, John James, 1960* 
Grady, Mabel Frances, 1960
Graham, John Robert, 1964
Gray, James Lindsay, 1965
Gray, Patricia Jacqueline, 1965
Green, Pamela Anne, 1962
Greenland, Samuel Osborne, 1963
Greenwood, Joy Emma, 1962
Groenewegen, Michiel, 1965
Guest, Beverley, 1965
Guy, Denis Maxwell, 1965
Haberl, Othon, 1964**
Hales, Doris Edna, 1962
Hallett, Ronald Walter, 1965
Handel, Jeffrey John, 1965
Hannan, Keith Ronald, 1965
Hanzic, Nicola Mary Hughes, 1965
Hargreaves, Rosemary, 1965
Harrington, Prudence, 1965
Harrison, Timothy William, 1965
Hart, Ian Ernest, 1963
Harvey, Ruth Bonita, 1963
Hassall, Anthony John, 1964**
Henry, Rusheen Ellen, 1964
Hepp, Johanna Wilhelmina, 1965
Hestelow, Amy Lillian, 1964
Hofman, Brian Anthony, 1965
Holden, Colin Anthony, 1962
Holmes, Marcia Kay, 1964
Holt, John Michael, 1962
Hook, William Charles, 1965
Hopkins, Edward Harold, 1964
Hughes, Jannese Elizabeth, 1964
Hughes, Max William, 1965**
Hughes, Susan Lesley, 1964
Hume, Carmel Josephine, 1965
Humphreys, Gordon Davies, 1963**
Humphreys, Janice Lily, 1960
Hurley, John Laurence, 1962
Hunter, Geoffrey Brian, 1964
Ingram, Errol James, 1965
Irondon, David James, 1965
James, David Edward, 1964*
Jarrett, Arline Narelle, 1963
Jeffery, Ann Margaret, 1962
Jobson, Stephanie Claire, 1964
Johns, Richard, 1964
Johnston, Margaret Raie, 1964
Jonas, William James Albert, 1963**
Jones, Glennie, 1960
Jones, Graham Charles, 1962*
Jones, Judith Anne, 1964
Jones, Margaret Elaine, 1962
Kazis, Vita Olga, 1964
Kelly, Barry Thomas, 1961
Kelly, Robert Andrew, 1960*
Kennedy, Brian Ernest, 1964*†
Kent, Judith Ann, 1965
Kerr, Patricia Margaret, 1964
Kinder, Josephine Kate, 1963
King, Rosemary Anne, 1965
Kingston, Peter Stannett, 1965
Klim, George, 1965**
Knott, Pamela Dorothy, 1964*
Koh, Guak Yan, 1965
Korevaar, Teunis Jan Geerit, 1964
Kraemer, Yvonne, 1960
Krivans, Severins, 1962
Krywoszyja, Halina, 1965
Laffy, Marie Therese, 1962
Lance, Robyn Margaret, 1964
Lang, Ross James, 1965
Latham, Paul John, 1965
Lawrence, Wendy Kay, 1963
Lee, Kevin Hargreaves Patrick, 1964*
Lewis, Milton James, 1962†
Lieberman, Rachael, 1961*
Lindgren, Kevin Edmund, 1962
Ling, Janice Margaret, 1963
Linnertson, Hazel Anne, 1964
Lizdenis, Violeta Joan, 1964
Long, Foo Yee, 1964
Long, Patrick Winston, 1965
Longworth, Kenneth James, 1962
Lorton, Margaret Mary, 1964
Lovett, George Alfred, 1964
Lupton, Gillian Mary, 1964*†
Lynch, Beverly Anne, 1964
MacDonald, Heather Jean, 1960
Maddock, Charles David Alexander, 1964**
Manning, Diana Kathleen, 1964
Manser, Beverley Anne, 1962

* Honours Class I  ** Honours Class II  † University Medal
**APPENDIX 2**

**BACHELORS OF ARTS—continued**

Markham, Maureen, 1960
Marks, Gregory Cecil, 1963
Marsh, Malcolm Ian, 1965
Maskey, Rosemary, 1960
Mathieson, Wendy Laraine, 1963
Maughan, Elizabeth Narelle, 1962
May, Helen Louise, 1965**
McCann, Robyn, 1963
McCormack, Marlene, 1963
McGregor, Lynne Frances, 1965
McInnes, Kerry Vincent, 1965
McIntosh, Heather Adelaide, 1964**
McMahon, Loretta Margaret, 1963
McMahon, Patricia Ann, 1961
McNab, Leonard Lethbridge, 1961
McNamara, Maree Margaret, 1962
McPherson, Robyn June, 1965
Meder, Marie Ingeborg, 1964
Meeth, Deslee Coral, 1964
Menzie, John Andrew, 1965
Milgate, Shirley Ann, 1964
Milner, Jessica Ruth, 1965**
Mingay, John Warren, 1964
Mitchell, James Thomas, 1963
Mobbs, Sandra Rose, 1965
Monkey, Warren James, 1962
Mooney, Maureen Josephine, 1965
Moore, John William, 1961
Morgan, Loretta Elsie, 1964
Morris, John William, 1964**
Mountford, Judith Beverley, 1964**
Muir, Elisabeth Helen, 1965
Mulconry, Gregory, 1965
Murphy, Lawrence Patrick, 1965
Murphy, Mark Frederick, 1963
Murray, Cynthia Robin, 1963
Murray, Raymond William, 1964
Murray, Wendy, 1962
Musto, Graeme Harley, 1964
Neville, Denise Marie, 1961
Neville, Richard Clive, 1964
Newton, Douglas, 1965
Newton, Robert Graham, 1965*†
Ng, Poey Siong, 1965
Ng, Yan Chung Jonathan, 1964
Nicholls, Robert Grant, 1965*
Nielson, Jack, 1961
Niland, Philip Edward, 1962**

*Honours Class I  **Honours Class II

Norris, James Winston, 1965
O’Griain, Christine Elizabeth, 1965
O’Donohue, Terence Markham, 1964
O’Neill, Michael John, 1962
Ooi, Kim Huat, 1964
Opitz, Valerie Therese, 1963
Osadchy, Lydia, 1965
O’Shea, Patrick Grant George, 1960
Palmer, Bruce Stewart, 1963
Pang, Lucy Lee Chin, 1963
Papworth, Phillip Gary, 1964
Parkinson, Mira Evelyn, 1965
Pascoe, Margaret, 1962
Payne, Robert William, 1960
Pears, Geraldine Elizabeth, 1960
Pellow, Garry Wayne, 1965
Penfold, Judith Lorraine, 1962
Perronnet, Maree Catherine, 1963
Petherbridge, Robert Joseph, 1962
Petrigrew, David James, 1965
Platt, Pamela, 1965
Plumridge, Margaret Anne, 1963
Polkinghorne, Bronwyn Ann, 1964
Pollard, Dianne Ruth Blemell, 1964
Popov, Alexander, 1965
Powell, Anne Geraldine, 1964
Prince, Harold James, 1960
Proctor, Brian John, 1961
Pryor, Travorce Young, 1965
Rabbit, Mary Elizabeth, 1964
Rabbit, Michael John, 1960
Radford, Barbara, 1963
Rapp, Darcy Leon, 1963
Rapppit, Sheena Margaret, 1965
Rattur, Salvia, 1964
Reader, Dorothy Elizabeth, 1965
Reay, Logan John, 1962
Ree, Anne Estelle, 1964
Rees, Carolyn Rosemary, 1965
Rees, Kevin Wilfred, 1964
Renwick, Ada, 1962*†
Reynolds, Kevin James, 1962
Reynolds, Sandra Anne, 1965
Rice, Helen Josephine, 1960
Richter, Margaret Dorothea, 1965
Roberts, Brian Charles, 1965
Robertson, Michael William, 1965
Robertson, Robin Louise, 1960

† University Medal
GRADUATES OF THE UNIVERSITY

BACHELORS OF ARTS—continued

Robins, Margaret Narelle, 1963
Rochester, John Alexander, 1963
Rocks, Janice Anne, 1963
Rogers, Derek David, 1965
Rogers, Judith Anne, 1963
Rolfe, Kay, 1961
Ross, Margaret Mary, 1962
Rowe, Frances Mary, 1962
Rudman, Mary Vanessa, 1964
Rummery, Mary Elizabeth, 1962
Russell, Yvonne, 1961
Rutherford, Noel, 1962*
Sakker, Rachelle, 1964
Sams, Gwenda Rosemary, 1963
Sawkins, Peter, 1963
Scanes, Malcolm, 1964
Schiess, Glenda Kay, 1965
Scott, Maurice Bainbridge, 1964
Sharman, Carole Jean, 1963
Sheedy, Brian Patrick, 1961
Sheehan, Kay Maree, 1965
Shepherd, Ian Clarence, 1964
Sheriff, David John, 1961*
Sherriff, Kay Ashton, 1964
Sieber, John Joseph, 1963
Slattery, Anne Maria, 1965**
Slaven, Leslie Raymond, 1963
Small, Kenneth John, 1963
Snee, Allen James, 1962
Smith, Kay Margaret, 1965
Smith, Malcolm Lawrence, 1965**
Smith, Owen Benaud, 1965
Smith, Patricia Ann, 1963
Smith, Patricia Margaret, 1963
Smithies, Heather Caroline, 1963
Snelling, Peter Ernest, 1963
Solomon, Julie, 1963
Sommerville, Sharon Margaret, 1964
Southern, George William, 1962
Southward, Ramon William, 1961
Speering, Geoffrey Ross, 1964
Spencer, Graham, 1961†
Stanton, Lorraine Thelma, 1965
Stauroulakis, Panayiota, 1965
Stevenson, Andrew Wentworth, 1964
Stewart, Joan Rosemary, 1964**
Stewart, John Prescott, 1965
Stewart, Kenneth Alexander, 1964**

Stewart, Robert George, 1962
Stock, Roslyn Louise, 1962
Stuckey, Carolyn Ann, 1965
Sweeney, Brian John, 1962* *
Sykes, Wendy Nola, 1964
Symes, Eileen Jill, 1960
Taper, Michael John, 1962
Tattersall, Dianne Wendy, 1965
Taylor, Joan, 1964
Taylor, Sarah Elizabeth, 1962
Telfer, Ross Alexander, 1964
Temple, Kathleen Frances, 1961*
Tennant, Barbara Joyce, 1965
Teo, Chin Kiok Katherine, 1964
Thompson, Elaine Margaret, 1961
Thompson, John James, 1960
Thomson, Philip, 1962†
Thorpe, Bruce Burton, 1965
Thurgar, Penelope Anne, 1964
Thursby, Christine Helen, 1964
Tolley, Katherine Sue, 1965
Toomey, Lorraine Ellen, 1961
Tranter, Janice Maree, 1964
Towner, Errol Grey, 1963
Tresidder, Warren David, 1964
Trudgeon, Hilton Nelson, 1962
Tucker, Anthony Francis, 1965
Turner, Kay Lorraine, 1965
Van Der Veen, Theo Tiete Foppe, 1964
Wagner, Maxine Sophie, 1965
Wall, John Desmond, 1964
Wallace, Ann Maria, 1963
Wallace, Katherine Susan, 1962
Walls, Virginia Anne, 1965
Walmsley, Leo Benedict, 1961
Walmsley, Maree Louise, 1964
Walsh, Gerard, 1961
Walsh, Richard Bruce, 1965
Ward, Reginald John, 1962
Warfield, Ian Theodore, 1965
Warner, Penelope Ann, 1965
Waterhouse, Annabel, 1961
Watson, Andrew, 1964
West, Trevor Frederick, 1964
Whalan, Paul Russell, 1965
Wiblin, Margaret Grace, 1965
Wiggins, Robyn Dawn, 1964

* Honours Class I  ** Honours Class II  
† University Medal
APPENDIX 2

BACHELORS OF ARTS—continued

Williams, Peter Michael, 1963**
Williamson, Margaret Dawn, 1965
Willson, Jennifer Florence, 1964
Wilson, Judith Margery Jane, 1961
Winney, Noel Raymond, 1965
Woodhouse, Robin Adele, 1965
Woodward, Judith Marilyn, 1965**
Woolley, Barbara Joan, 1961
Woolley, Janice Anne, 1962
Wynter, Michael Rodney, 1965
Young, Alexander Walter, 1960**
Yuen, Wai Leung, 1964

BACHELORS OF BUILDING

Beat, Thomas Ballantine, 1965*
Boot, David Arthur, 1964
Clark, Nicholas James, 1965
Conen, Jeffrey Graham, 1964**
Connery, Garry Michael, 1965
Donnelly, Roger Paul, 1965
Groves, David Arthur, 1965
Hanna, George William, 1963**
Harrold, Graham Clifford, 1965
Henwood, Nelson Leslie, 1965
Kapp, Ernest Edward, 1965**
Miller, Roger Mark Anthony, 1963
Mosman, Warwick Darrell, 1965**
Mottram, Kenneth Roy, 1964**
Read, Terence Earl, 1965
Richter, Graham John, 1965*
Smith, Peter Charles, 1965
White, Paul Francis, 1965

BACHELORS OF COMMERCE

Aboud, Peter Nicholas, 1965
Abrahams, Alan Geoffrey, 1963
Adams, Rex Lyle, 1965
Aiken, Maxwell England, 1963
Alexander, William Michael, 1962
Ali, Sri Kustiah, 1962
Allen, Margaret Louise, 1961
Allen, Thomas William, 1965*
Antoniak, Robert Bogdan Arcadius, 1964
Anderson, Alan William Godfrey, 1964
Arnold, Noel Walter Owen, 1963
Avery, Langer Edward, 1959
Avery, Ralph Telfer, 1963
Aw, Dennis Hong-Lim, 1963
Ayers, Anthony Pelham, 1961
Ayers, Raymond Robert, 1963
Bach-Mai, Ho Thi, 1963
Back, Robert David, 1963
Bailey, Robert Burton, 1963
Ball, Raymond George, 1960
Baptist, Edward Frederick, 1960
Barnes, Robert Lloyd, 1962
Barnett, Violet Lillian, 1961
Barnsdall, David Grosvenor, 1961
Barto, Louis, 1962
Batchelor, Wallace MacDonald, 1963**
Batley, Ronald Frederick, 1965
Batty, Kevin Lawrence, 1963
Baumert, Kurt, 1961
Baumert, Ronny, 1964
Baillie, William Peter, 1964
Barton, Andrew Leslie, 1964
Barton, Keith Edwin, 1964
Baylis, Anthony Martin Lorimer, 1963
Beachley, Graham Rex, 1963
Beaver, Terence John, 1965
Berecry, Barry Laurence, 1961
Bergman, Peter Ward, 1963
Berntsen, Reginald Joseph, 1960
Bersten, Ian Jeffrey, 1960
Best, Ronald Ernest, 1965
Bible, Richard Philip, 1962
Binh Son, Le Thi, 1960
Birchall, Sydney Frank, 1965
Bird, James William, 1965
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<td>Blackadder, Edwin John</td>
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*Honours Class I  **Honours Class II  †University Medal  §Deceased
### APPENDIX 2

**BACHELORS OF COMMERCE—continued**

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*Honours Class I  **Honours Class II

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GRADUATES OF THE UNIVERSITY 35

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Karpin, David Simon, 1964**
Kells, Geoffrey Victor, 1964**
Kemeny, Andrew, 1965
Kenderes, Michal, 1964
Keulemans, Tony, 1964**
Khuanphorn, Pruthigrari, 1964
King, Alan John, 1962
King, Brian Franklin Vernon, 1962
King, Graham Murray, 1964
King, Heinz Max, 1961**
Kinghorn, John Alan, 1964
Kirby, James Stewart, 1964
Klas, George Miroslav, 1964
Klingen, Leonard Gerard, 1965
Knight, Grantley Robert, 1964
Kofoer, Peter Henry, 1963***
Kok, Fook Choon, 1963
Kolivos, George, 1959
Konstas, John Demetrius, 1962
Kovac, Marjan, 1964
Kwan, Chai Seong, 1964
Kyle, Peter Edward, 1964
Lamothe, Leonard Robert, 1965**
Lance, Graham Kingsley, 1964
Landahl, Peter Robert, 1963
Larkey, James Victor, 1964
Latona, William John, 1963
Lau, Brian Kim Kwong, 1961
Lee, Anna Yu Hsien, 1964
Lee, Leong Hin, 1964
Lee, Paul Soo Hing, 1964
Lee, Walter Wah, 1962
Leentjes, Pieter, 1965
Leipzig, Eugene, 1962
Le Marchant, Ross Colin, 1963
Lester, David Elsworth, 1965
Leung, Bruce Kwok Chuen, 1964
Leung, Therese Shui Kun, 1962
Lever, James William, 1962
Levey, John Robert, 1962
Lewis, Brian Wallace, 1962***
Liew, Lucas Kim Voon, 1962
Lilburn, Bruce Victor, 1965
Lindley, Geoffrey Kenneth, 1964
Lindstrom, Robert Harry, 1964**
Livermore, Brian John, 1961
Livermore, Ramon Edwin Dixon, 1963
Lo, Hing Chuen, 1964
Logan, John Graham, 1965*
Long, Lance Frederick, 1965
Lovett, Phillip Arthur, 1963
Low, Peng Chow, 1964
Lucas, Gawaine Hamilton, 1963
Lucas, Robin William, 1962
Lutchich, Michael, 1964
Lyttle, Barry Robert, 1964
MacDonald, Leslie Allan, 1965
MacGregor, Ernest Donald John, 1963
Mackay, William, 1961
Mackertich, Ivan, 1962
MacLachlan, Ian Gibson, 1963
Macleod, Michael Fenton, 1965
Maddox, Richard Peter, 1963
Maitland, Florence Claire, 1962
Maloney, Reginald Robert, 1963
Malouf, Roger Noel, 1964
Malouf, Samuel, 1959
Mann, Robert Graeme, 1965
Manning, John Beresford, 1963
Maple-Brown, Robert Lee, 1965
Mar, Gordon Stanley, 1962
Marks, Noel Gordon, 1963
Marshall, Duncan Andrew William, 1961
Martensz, Johann Adrian, 1965
Martin, Albert Spencer, 1965
Marx, Gary Alfred, 1963
Mason, Rodney James, 1963
Matthews, Peter Sydney, 1964
McBride, John Charles, 1965
McCann, Jack Edwin, 1962
McCarty, Timothy James, 1964
McCOnville, Charles Joseph, 1962**
McCorry, David John, 1964
McDonald, Barry Donald, 1962
McDonald, Donald Benjamin, 1961
McDonald, Duncan Malcolm, 1963
McDonald, John Roderick, 1964
McDonnell, David Alexander, 1965
McEvoy, Kevin Thomas, 1961
McFadzean, Samuel John, 1963

*Honours Class I  **Honours Class II  ***Honours Class III  †University Medal
APPENDIX 2

BACHELORS OF COMMERCE—continued

McGaurr, Arthur Darcy, 1963
McGregor, Allan Bruce, 1960
McLean, Malcolm Henry, 1964
McLeod, Graham Angus, 1965
McMillan, John Norman Bretnall, 1962
McNeill, Alexander Lachlan, 1961
McVicker, Kevin James Leslie, 1962
Melick, John Patrick, 1964
Meyer, Thomas Richard Walter, 1964
Middleton, Donald Maurice, 1960
Middleton, John McKenzie, 1961
Miller, Kenneth Hilton, 1963
Miller, Malcolm Conrad, 1964*
Miller, Robert Dieter, 1963
Milner, Douglas Humphrey, 1959
Milthorpe, John Kevin, 1964
Miner, Malcolm John, 1965
Mitchell, Paul Michael, 1963
Mitchell, Warren Richard, 1964
Moore, Alan Roland, 1963**
Moore, John Ashton, 1965
Moran, William Edwin, 1963
Morley, Brian Albert, 1965
Morris, John Lindsay, 1962
Morse, Michael John, 1964
Moser, Oskar, 1964
Moss, Constantinos, 1963
Mossie, Richard James, 1965
Moylan, John Philip, 1962
Moyle, Melville, 1962
Muchtar, Sofjan, 1961
Mudge, David Howard, 1963
Muhs, Richard Christian, 1962
Mulligan, Terence Robert, 1965
Murphy, Noel John, 1965
Neilson, Denis Peter, 1962
Nelmes, Adrian Palmer, 1962
Newman, Graham Robert, 1965
Newton, Anthony John, 1962
Ngoc, Tran Luong, 1960
Nicey, Brian George, 1965
Nicholls, Gordon Frederick, 1963
Nicholls, John Robert, 1962
Nicholls, Noel Maxwell, 1964
Niland, John Rodney, 1963**
Ninh Van Tu, Peter, 1960
Nixon, John Robert, 1962
* Honours Class I  ** Honours Class II

Noad, Brian McKinnon, 1960
Noone, Peter Laurence, 1963
Norton, Allan Henry, 1964
Norton, Paul Edward Paton, 1963
O'Brien, Edward, 1962
O'Donnell, Bernard Richard, 1964**
Oliver, Bruce, 1960
O'Neile, Michael John, 1964
Ong, Chin Chye, 1962***
Orr, Alan Milton, 1964
Orrock, Donald Charles, 1962
Osborne, Kevin Edward, 1962**
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O'Toole, Frederick Stewart, 1963
Owens, John Arthur, 1962
Page, Ernest Thomas, 1962
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Parry, Keith Stanley, 1963
Pass, John James, 1963
Patasius, Vytautas Jonas, 1962
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Pearsall, David Leslie, 1963
Pearson, Oliver David, 1964
Peterkin, Leonard Sidney Raymond, 1962
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Philips, Timothy John, 1964**
Phillip, Tibor Janos, 1963
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Pickles, Geoffrey James, 1965**
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Platt, Roy Hamilton, 1961
Po, Pui Leung, 1964
Pogany, Peter Paul, 1965
Polkinghorne, Nevis Owen, 1964
Pollard, Reginald Neville, 1964
Polovineo, Mirko, 1964
Portley, Leslie, 1959
Poulos, Archibald George, 1964
Powers, Beaumont Ward, 1961
Prescott, John Barry, 1962
Preston, Ronald Lionel, 1962
Price, Jeffrey Charles, 1964
Quinlan, John Victor, 1964
Rath, John Linden, 1964

*** Honours Class III  † University Medal
Grads of the University

Bachelors of Commerce—continued

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Robson, James Colin, 1965
Rogers, Robert Wallace, 1960
Ronis, Imants Jekabs, 1963
Rose, Paul Gerald, 1961
Rose, Stanley William, 1965
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Rowe, Phillip Steven, 1960
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Russell, Alan John, 1964
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Ryan, Colin Francis, 1963
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Saunders, Trevor Raymond, 1962
Scott, Michael, 1963
Scott, Thomas Norman, 1965
Seamonds, Morris, 1965
Segaert, Robert Paul, 1965
Sheffield, Leslie Harry, 1959
Shepherd, Glyn Frank, 1963
Shepherd, Graham Joseph, 1964
Sietsma, Adrian William, 1964
Skelton, Trevor David, 1965
Sliogeris, Vytenis, 1963
Sloan, Robert William, 1963
Smith, Douglas Raymond, 1964
Smith, Shane Anthony, 1962
Smithson, Norman Leslie, 1963
Smooather, Leslie Clarence Athol, 1962
Southwell-Keely, Michael, 1963
Sprogis, Nikolajs, 1963
Staniland, Michael Ralph, 1964
Stannmore, Kenneth Edward, 1964
Stanley, Phillip Michael, 1961
Stephens, Raymond Barrington, 1964
Stephenson, Graham George, 1965
Stevenson, Geoffrey Alan, 1965
Stokes, Peter, 1965
Stone, Barry Joseph, 1963
Sutherland, Robert Hugh, 1963
Sutton, Robert Clive, 1963
Talty, Michael Gordon, 1963
Talty, William Watson, 1962
Tan, Kay Thiam, 1964
Tan, Siak Tee, 1965
Tan, Yeow Ngoh, 1965
Taylor, Richard James, 1965
Taylor, Vincent James, 1962
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Teo, Lan Chua, 1964
Teo, Song Ann, 1965
Terry, Christopher Stephen, 1964
Tesseyman, John Vernon William, 1965
Thackray, Howard William, 1962
Thanh, Pham Chi, 1963
Thomson, Alexander Robert, 1965
Tien, Cung Thuc, 1962
Tisdell, Clement Allan, 1961
Tisdell, Kenneth William Le Roy, 1964
Tsang, Siew Wai, 1965
Turnbull, Ronald James, 1962
Turner, Peter Hildreth, 1964
Ure, Richard Michael, 1965
Vagg, Terence Robert, 1965
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Wagener, William Henry, 1961
Wakely, William Bruce, 1965
Walker, Kevin James, 1963
Walker, Robert Graham, 1964
Walmsley, Paul Francis, 1963
Walsh, James Robert, 1962
Ward, Bryan Reginald, 1965
Watters, Richard Brian, 1965

* Honours Class I  ** Honours Class II
† University Medal
APPENDIX 2

BACHELORS OF COMMERCE—continued

Watts, Ian Russell, 1964
Webb, Richard Brian, 1963
Wee, Heng Thong, 1964
Welch, John Alan, 1964
Wells, Brian John, 1965
Westbury, Allyson Charles, 1965
Weston, William Lewis, 1964
Whitelock, Brian Jesse, 1964
Wilkinson, John Francis, 1965
Wilkinson, Ross, 1965
Williams, Geoffrey Lloyd Cook, 1963
Williams, Ian Besley, 1964
Williams, Robert Bernard, 1964
Willis, Kenneth Albert, 1963
Wilson, Barrie Norman, 1963
Wilson, Eric Warren, 1963
Wilson, Graham Frederick, 1963
Wilson, Ross Kenneth, 1963
Wise, David Lawrence, 1965

Witham, Ronald James Greer, 1961
Wong, Toh Ming, 1965
Woodger, John David, 1965
Woods, James Gregory, 1963
Worner, Ian Claude, 1964
Worrall, Iain Edward, 1965
Wright, Phillip Louis, 1962
Wright, Robert Brien, 1962
Yates, Colin Bruce, 1962
Yates, Geoffrey Edmonds, 1965
Yee, Chang, 1962
Yee, Malim, 1965
Yeo, Yong Siang, 1965
Yong, Robert Tze-Khiong, 1962
Young, Judith Anne, 1962
Young, Robert Keith, 1962
Young, Wayne Edwin Leighton, 1964
Zamzami, Amran, 1961

BACHELORS OF ENGINEERING

Adam, Peter John, 1963***
Adams, William Francis, 1965
Adcock, Eric Francis, 1959**
Ahmad, Riaz, 1963
Ainsworth, John Leslie, 1960
Aizstraits, Osvalds, 1964
Algie, John Edgar, 1957
Allaburton, Robert, 1963
Allen, Arthur Francis, 1955**
Allen, Philip Frank, 1963
Allomes, Graham Colin, 1965**
Allsopp, Lindsay Bede, 1964***
Ambler, Alan Raymond, 1961
Ambrose, Charles Walter, 1957
Andersen, John Charles Victor, 1964
Anderson, Basil Wolfe, 1953
Anderson, Robert George, 1965
Anderson, William Omrah, 1960
Andrews, Graham, 1961
Ang, Arthur, 1957
Angel, Harold Stuart, 1961
Anh, Phan Ba, 1963**
Arbon, Leonard Fulton, 1963
Archard, Colin, 1963
Archer, Norman John, 1962

*Honours Class I  **Honours Class II  ***Honours Class III
GRADUATES OF THE UNIVERSITY

BACHELORS OF ENGINEERING—continued

Baker, John Morton, 1952
Baker, Leslie Herbert, 1961*
Baker, Lloyd Sydney, 1953**
Baker, Ronald William, 1963
Baker, Stanley Howard, 1959
Baker, Stanley Kenneth, 1964**
Bakewell, John Canvin, 1963
Balint, Peter Alfred Michael, 1965
Bamford, William Edward, 1959**
Barada, Uldis, 1959**
Barker, Charles Richard, 1961
Barr, Noel Foster, 1959
Barrett, Robert George, 1964
Barrett, Ross Douglas, 1965
Barton, Keith Adrian, 1964
Barwood, Timothy Spencer, 1960
Basoeki, 1960***
Bason, Peter Thomas, 1954**
Bass, Graham Lindsay, 1965
Batchelor, Robert Alexander, 1962**
Bates, Robert Ernest, 1964
Bayliss, Peter, 1960
Baxter, Robert Ian, 1957
Beard, John Russell, 1957
Beardwood, Peter John, 1960*
Beath, James Norman, 1955*
Beaton, John Charles, 1962
Beatty, Leslie John, 1959
Beaumont, Ross Cameron, 1965
Bell, Andrew John, 1954
Bell, James, 1961**
Bender, Robert Albert, 1961
Benjamin, Raymond Edward, 1959**
Benn, Alan Charles, 1964
Bennett, Charles, 1956
Bennworth, Neal Edward, 1965
Benton, Kenneth William, 1964**
Berzins, Guntis, 1960*
Best, Ross Edwin, 1963
Bigeni, John Joseph, 1964**
Birt, Norman Leslie, 1964
Birzulis, Aldis Janis, 1959
Bishop, Eldred William, 1960
Black, Allan Norman, 1963
Blackman, William Harley, 1961
Blatchford, Rex Vincent, 1965***
Bliss, Peter John, 1965
Bloxham, William Henry, 1955

* Honours Class I    ** Honours Class II

Boadle, Mervyn Edwin, 1964
Bodisco, Joseph, 1963
Body, David Neil, 1958
Bofinger, Harold Edward, 1958
Bogdanovics, Gvido Pavils, 1965
Boland, Maurice Adrian, 1959
Boland, Michael John, 1962**
Boleyn, Douglas Alan, 1965***
Bond, Hugh Gayton, 1964
Bond, Robert Geoffrey, 1960
Bonner, Maxwell George, 1960
Bonnitcha, Frank, 1960
Bonthorne, James Dean, 1959
Booker, Malcolm Noble, 1960
Bow, Norman, 1963
Bowers, Frederick Peter, 1963
Bowman, Alistair Stuart, 1958
Bowrey, Ronald Graham, 1964*
Boyle, Anthony Francis, 1959
Boyle, Bede Edward, 1964
Boyle, John Francis, 1964
Boyle, Trevor Rodney, 1959
Bradley, Donald Lance, 1964***
Bradley, Ian Ashe, 1965
Bradley, Ian William, 1964*
Brady, Colin James, 1957
Brady, John Travers, 1957
Bramble, Allan Graham, 1965*
Brand, Maxwell Graham, 1964
Brennan, Edward, 1962
Brett, John Frank, 1961
Brew, John Richard, 1965
Brewer, Donald Spencer, 1960
Bridge, Russell Quinlin, 1963†
Bridle, Michael Herbert, 1961**
Brissett, Robert George, 1961
Britt, Peter Thomas, 1963
Britten, Donald Barrie, 1955**
Broad bent, Robert Leonard, 1961
Broadbridge, William Henry, 1961
Broadley, John Raymond, 1965
Brook, Raymond Owen, 1964**
Brodie, Hugh David, 1957
Brook, Joseph Frank, 1938
Brookes, John Douglas, 1953
Brooks, James Junior, 1954**
Brown, Alan Raymond, 1962
Brown, Austin Warren, 1965

*** Honours Class III    † University Medal
APPENDIX 2

BACHELORS OF ENGINEERING—continued

Brown, Ian Powell, 1958**
Browne, Lindsey Edwin, 1957
Brunker, Rowley Lance, 1960***
Buccoliero, Lorenzo, 1963
Buchanan, James Alex, 1960
Buchhorn, Dominic Paul, 1962
Buchhorn, Richard James, 1954**
Budd, Warwick Roland, 1964***
Budden, Francis John, 1962
Budge, Ian Lindsay, 1954
Budiardjo, Raden Mas Sajid, 1961
Bull, Nathaniel George, 1963
Bunton, Robert Brian, 1960**
Burgess, Lawrence Wesley, 1964
Burgess, Richard John, 1965
Burling, Malcolm George, 1964***
Burn, Henry Livingstone, 1954
Burnett, Keith James, 1965
Butler, Geoffrey Donald, 1958**
Butler, Paul William, 1956
Butt, Graham Kenneth, 1962
Byrne, Geoffrey David, 1959
Bywater, Robert Patrick, 1963
Caddy, Douglas John Laidlaw, 1964***
Caddy, John Arnold, 1964***
Cady, George, 1963
Cady, John, 1955
Callinan, Francis Joseph, 1964
Cameron, Hugh Creed, 1964
Campbell, Colin Lorne, 1960
Campbell, Grahame David, 1965
Campbell, Kerry Holford, 1962
Campbell, Wesley, 1963
Cantrill, Peter William, 1962
Carlson, Douglas John, 1965
Carlyle, James Vincent, 1959
Carmichael, Alexander John, 1952**
Carrington, William Bernard John, 1962
Carr-Boyd, Peter Murray, 1960
Carter, Bertram Cedric, 1965
Carter, Eric Arthur, 1965**
Carter, Herbert Thomas, 1959
Carters, Peter, 1959
Casey, Brian Gregory, 1957**
Casey, Kevin Bernard, 1960
Casey, Peter William, 1955

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal

Cashman, John Desmond, 1962***
Cashman, John Harold, 1962
Cashman, Sydney John, 1954
Cau, Truong Tieu, 1964
Chambers, Arthur John, 1965*
Chan, Chai Keung, 1963
Chan, Franklin Bing Shu, 1964
Chan, Gabriel Kai Fan, 1963***
Chan, Hon Chee, 1961
Chan, Yoke Lock, 1965
Chandler, Geoffrey Arnold, 1958
Chang, Kin Koon, 1963***
Chapman, Douglas Paul, 1956
Chapman, Laurence Harry, 1964
Chapman, Robert Fuller, 1952
Chapman, Robert Henry, 1962
Charlton, Willis Herbert, 1963†
Chen, Malcolm Mien, 1957
Chen, Paul Pao-Sun, 1961
Cheng, Michael Ying-Ngai, 1964
Cheong, Karm Lun, 1964
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Chiang, Kwok-Wah, 1965
Chick, Malcolm Willis, 1965
Chin, Anthony Nyen, 1957
Chinn, Henry Ronald, 1960*
Chiswell, Peter, 1955
Chou, Tai Choong, 1958
Choy, Gay, 1954
Choy, Hon Tim, 1961**
Christian, Bruce Harold, 1962
Christie, Barry James, 1963
Christie, Ronald David, 1961
Chu, Hin Lai, 1963
Chu, Pak Lim, 1963***
Chua, Chin Hwa, 1964
Churches, Alexander Eric, 1964*
Churchill, Brian Spencer Winston, 1965**
Clack, Robert Amos, 1963
Clancy, Kenneth George, 1957**
Clark, Alexander Lyndsay Gale, 1964
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* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
BACHELORS OF ENGINEERING—continued

Davison, Clem Newton, 1953*  
Davison, Ian, 1961  
Deall, John Agnew, 1960  
Dearden, Charles Leon, 1965  
De Ferranti, Noel Lancelot, 1953**  
Dembecki, Januzy Adam, 1955†  
Dendang, Jan Pieter, 1961  
Dennett, Malcolm James, 1962  
Dennett, Ronald George, 1965**  
Deutschbein, Ernest Alan, 1965**  
Devine, John David, 1965  
Devine, Warren Richard, 1961  
De Vos, John Garthneill, 1954  
Dew, David Henry, 1964  
Dewar, Paul Michael, 1963*  
Diemar, Philip Nicholas, 1965***  
Dilley, Warwick John, 1963  
Dillon, George John, 1965  
Doak, Brian, 1965***  
Dockrill, Bruce George, 1965  
Donald, Graham Charlesworth, 1961  
Donald, Wallace William, 1960  
Donovan, John Anthony, 1954  
Dorahy, Dennis Joseph, 1960  
Doran, John Leo, 1959  
Douglas, Arthur Gordon, 1953**  
Dowd, Russell Geoffrey, 1963  
Downey, Dennis Adrian, 1961**  
Downey, John Phillip, 1958  
Dowrie, James Mott, 1956  
Doyle, John Francis, 1963  
Drake, Darryl Ashley, 1958  
Dransfield, Peter, 1961**  
Drew, Roger Sumner, 1961  
Drew, William Ross, 1965*  
Dudgeon, Colin Raymond, 1954*  
Duff, Stanley Lynn, 1963***  
Duffy, Rodney Michael, 1960  
Duggan, Thomas Joseph, 1963  
Duncan, Ian Robertson, 1963  
Duncan, John Charles, 1952  
Duncan, Ronald Stewart, 1955  
Dunk, Robert Edward, 1964  
Dunk, Sidney Albert, 1953  
Dunlop, Joseph, 1964**  
Durez, John, 1965*  
Durick, Kevin Patrick, 1964  
Durkin, Owen Charles, 1960

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
BACHELORS OF ENGINEERING—continued

Felkins, Bernard Patrick, 1961
Fennell, Lance Sidney, 1957
Fenton, Arthur Stanley, 1962
Fenwick, John Robert, 1961
Field, Walter George, 1962†
Fietz, Trevor Regis, 1956*
Finch, Raymond Christopher, 1963
Findlay, Kenneth Francis, 1952
Fischer, Peter Brian, 1963
Fishburn, Bruce Ronald, 1964
Fisher, Bruce Gordon, 1965
Fisher, Terrence William, 1963
Flakelar, David Francis, 1959
Fletcher, Norman George, 1965
Fletcher, Ronald Joseph, 1954
Flynn, Kevin John, 1963
Foong, Ka Nim, 1962
Forbes, Alexander Ian, 1962
Forbes, Cecil Frederick, 1953
Forrest, John Leslie, 1962
Forsythe, John Harold, 1952**
Foster, Colin Edwin, 1963
Foster, William John, 1959
Fozzard, Allan Victor, 1965
Fraser, Graham Melwyn, 1964**
Fredericks, Brian Roland, 1961
Freeland, Colin William, 1954**
French, Robert, 1965
Frenda, Gundo Albert, 1961**
Friend, Richard John, 1965
Frost, Raymond John, 1956**
Frost, Vadim Alexander, 1963**
Fu, Chiao Shen, 1956**
Fuller, Kenneth Ronald Stephen, 1961
Fulton, Kenneth Charles, 1963
Fulton, Thomas Michael, 1961
Fung, Hon-Ying, 1963
Fung, Keith Yuk Kee, 1961
Furley, Robert John, 1964***
Gall, Richard William, 1961
Gallagher, Kenneth Bede, 1959
Gallagher, Terence Michael, 1962*
Gallant, John Edwin, 1962
Gan, Thomas Eng Siew, 1958
Garden, Malcolm Andrew, 1962
Gardiner, John Winston, 1964

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal  § Deceased
APPENDIX 2

BACHELORS OF ENGINEERING—continued

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Hyde, Robert James, 1962
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Ip, Yun Wing, 1963
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Irving, Leonard Sylvester, 1964
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Ivers, Geoffrey Ainsworth, 1958**
Jackson, Ivan Victor, 1961
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Jaggar, Frank Edwin, 1957
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James, John Francis, 1964
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Jan, Kevin, 1956
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Jeans, Paul Edward, 1965
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Jeffery, Douglas Graham, 1962
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Jenkins, Brian Selby, 1965**
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Jessop, Peter Edwin, 1958
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Johnson, James Harcourt, 1961
Johnson, John Barry, 1964**

*Honours Class I  **Honours Class II  ***Honours Class III  † University Medal
APPENDIX 2

BACHELORS OF ENGINEERING—continued

Knight, Hugh Bentley, 1963
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Kradzins, Juris Eizens, 1961
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Kugaevsky, Alexis, 1961
Kuras, Norbert, 1962
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Lau, Wing-Pak, 1963
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Lee, Geok Tong, 1963
Lee, Siaw Phin, 1956
Lee, Stanley George, 1963
Lee, Thomas Woon, 1956
Lee, Yow Ching, 1965
Leeser, Robert Claus, 1956
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Liew, Herman Kim Seng, 1963
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Lindus, John Christopher, 1965***
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Lloyd, John Milton, 1961
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Logan, Ronald Joseph, 1962
Logothetis, Demetrios, 1963
Loke, Wan Foo, 1960
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Love, Milton Patrick, 1962
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Lui, Sze Ho, 1963
Luks, Robert William, 1963
Lumsden, John, 1962*
Lunsmann, Hinrich Nicolaus Fritz, 1961
Lyell, Andrew, 1965**
MacDessi, Peter Joseph, 1965
MacDonald, Ian Maxwell, 1965

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
BACHELORS OF ENGINEERING—continued

MacDougall, Duncan Norman, 1957**
MacKenzie, Colin John, 1960
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Magnusson, David John, 1957**
Mah, Khing Kong, 1962
Maino, Raymond John, 1958
Makki, Zoelkarnain, 1962
Malamo, Claude Remus, 1962
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Mangunwidjojo, Augustinus Purnama, 1962
Mann, Edward Alan, 1956
Manning, Geoffrey Edmund, 1965
Manton-Hall, Arthur William, 1953*
Marcheff, John, 1964
Marr, Donald William, 1958
Marshall, Ronald James, 1960
Martín, John Frank, 1965
Martin, Warren Harold, 1963**
Mason, Phillip John, 1963
Matas, Evald, 1961
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May, Robert George, 1963
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McAdam, David Victor, 1961**
McAdoo, Gregory Nelson, 1963
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* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
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*Honours Class I  **Honours Class II  ***Honours Class III  †University Medal
GRADUATES OF THE UNIVERSITY

BACHELORS OF ENGINEERING—continued

Oxenford, Warren Gilbert, 1962**
Ozols, Valdis, 1962
Page, Ernest Thomas, 1957
Page, William George, 1952
Painton, Graham James, 1964
Palmer, Wilford Terry, 1964**
Palumbo, John, 1965
Panozzo, Livio, 1956
Parker, Malcolm Alfred, 1963
Parr, Colin Robert, 1958
Parsons, Graham Wills, 1961
Partridge, Alan Arthur, 1955
Paterson, John Lindsay, 1957
Paton, Brian Anthony, 1963
Patrick, Malcolm Douglas, 1965
Payten, Maxwell Campbell, 1959
Pearce, Henry Frederick, 1964
Pearce, Noel, 1956
Pearson, David Stuart Henry, 1960
Pearson, Kenneth, 1964**
Pengilley, Cecil John, 1954**
Penhall, Brian William, 1955**
Penn, Ralph, 1965
Petersen, Robert Keith, 1954**§
Phillips, Peter James, 1963
Pickford, Geoffrey Claude, 1963
Piddock, John Barrie French, 1962**
Pierce, Eric William Thomas, 1958
Pierce, John Harold, 1958
Pietor, John Barrie French, 1955
Piggott, Terry Leicester, 1957
Piira, Paul, 1959
Pilgrim, David Herbert, 1953†
Pillay, Ratnam Kandaswamy, 1956**
Pines, Michael Thomas, 1956
Pinkerton, William James, 1965
Pittaway, Ian Henry, 1960
Pittaway, Malcolm Lyle, 1956**
Planner, John Henry, 1958
Podger, John David, 1962
Pok, Sheung Foo, 1959
Pok, Sheung Yee, 1958
Poole, Christopher James, 1964
Popplewell, Thomas Rex, 1965
Porter, John Robert, 1965
Potter, Darryl John Leslie, 1965***

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal  § Deceased

D
BACHELORS OF ENGINEERING—continued

Richardson, Graham Murray, 1962**
Riding, Kenneth Wilmot, 1958
Rigby, Geoffrey Raymond, 1965*
Riley, Terry Walter, 1962
Ring, Peter John, 1961
Ringis, John, 1962*
Risbey, Graham Charles, 1963**
Roach, Ian Evans, 1965***
Robbie, Neil Valentine, 1959**
Roberts, Alan William, 1956*
Roberts, Bryan William, 1959*†
Roberts, John Grahame, 1963
Roberts, Ronald Henry, 1961**
Roberts, John Brian, 1964
Robins, Norman Paget, 1960
Robinson, David Errol, 1960*
Robinson, David Harold, 1953
Robson, Brian Leslie, 1963**
Robson, John Brian, 1964
Rodwell, Grahame Lewis, 1965
Roebuck, William Norman, 1960
Rogers, Leonard Allan, 1963
Rogerson, Raymond Louis, 1952**
Rolley, Alexander James, 1952
Roos, Hans, 1959
Rosing, Daniel, 1959
Rossiter, Peter Thorne, 1953*
Roth, Dudley Lawson, 1956**
Rozenauers, Alfred, 1955
Rudd, James William, 1959**
Rumball, Donald John, 1965
Rupchev, Svvatoslav, 1962
Russell, Percy, 1962†
Russell, Ronald Mark, 1964
Ryan, John William, 1965
Ryan, Kenneth, 1957
Ryan, Kerry Dominic, 1960
Ryan, Peter Michael, 1957
Sachs, Brian Anthony, 1959
Saiva, Guntars, 1955
Salkeld, Leonard John, 1958
Saltis, Constantine, 1962
Sampson, William Alan, 1954
Samsa, Stanley, 1958**
Samson, Alexander, 1960*†
Sancbergs, Edwin Karlis, 1965
Sanders, John Edward, 1960
Sandi, Wajan, 1961

Sands, John Richard, 1957
Sasmaja, 1962
Saunders, Desmond, 1955
Saunders, William Henry, 1964
Saunderson, David Mervyn, 1954**
Savage, Darrel, 1955
Savage, John Milton, 1956**
Savage, Warwick, 1959
Saville, James, 1965
Savins, Lionel Henry, 1960
Sawell, William Edgar, 1961
Scale, Ivan Edwin, 1965*
Schlensky, Boris, 1961
Schneider, Ronald Francis, 1962
Schultz, Paul, 1957
Schuster, Bernard Frederick, 1960
Schwarzer, Robin Anthony, 1964
Sciffer, David Eric, 1965
Scott, Raymond Kenneth, 1961
Scouller, Robert, 1964**
Sears, John Robert, 1961
See, Andrew John, 1964**
Sehu, Toong Meng, 1960
Sellick, Keith Smedley, 1958**
Sharpe, Alfred Ernest, 1963
Sharpe, Gordon Brian, 1955
Shaw, Alan Robert, 1961
Shaw, David Lachlan, 1953**
Shaw, Neil William, 1961**
Shaw, Robert Fitzgerald, 1965
Shearman, Ian Henry, 1959**
Shears, Donald Peter, 1963
Sheean, John Lyle, 1962**
Shepherd, Barrie John, 1960
Shepherd, Michael Stanley, 1959**
Sheppard, Christopher Albert, 1965***
Sheilds, Alan Edward, 1959
Sheilds, Graham John, 1954
Shipway, John Charles, 1963
Sieuwerts, Johan Herman, 1961
Siew, Fook Fong, 1964
Silink, Ivan, 1962*
Silva, Eric James, 1956**
Silva, Max Edward, 1962
Silvester, John Austin, 1962
Simanowsky, Wolodymyr, 1963
Simington, Petrie Laing, 1964

• Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
BACHELORS OF ENGINEERING—continued

Simons, Alan Gordon Kent, 1961
Simpson, Gordon Burdekin, 1963
Simpson, John Roger, 1961
Sinclair, Alexander Herbert, 1962
Sivagnanam, Thambipillai, 1958
Sivis, Vincent Andrew, 1965
Slack-Smith, Geoffrey, 1964*
Slater, Rodney James, 1958
Small, Kevin Edwin, 1965
Smart, Ronald George, 1954**
Smedman, Harold Francis, 1960
Smith, Allan Reginald Philip, 1965
Smith, Bernard Lindsay, 1965
Smith, Colin Barrington, 1965
Smith, David Allan, 1964
Smith, Graham, 1961
Smith, Howard Winston, 1964
Smith, Ian Lindsay, 1961
Smith, Kenneth Hayden, 1961
Smith, Malcolm John, 1953**
Smith, Neil Campbell, 1962
Smith, Paul Vincent, 1963*
Smith, Peter William Lee, 1964***
Smith, Richard George, 1959
Smith, Robert Arthur, 1965
Smith, Roger Albert Alfred, 1964
Smith, Roger Ernest Gordon, 1964***
Smythe, Frederick Charles Phillip, 1959
Smythe, Robert William, 1964**†
Smythe, Ronald Leslie, 1957
Sneddon, John, 1960**
Snell, John Lionel, 1962***
Snow, Bryson Keith, 1960
Soeharto, Soedomo, 1963
Soepomo, Soetiman, 1961
Solomons, Louis Anthony, 1964
Solowij, Jaroslav, 1964
Somasekaran, Sinnappu, 1963
Somervaille, Ian James, 1952**
Southwell, John Carlyle, 1953
Sparke, Reginald Morris, 1962
Spence, Ian Keith, 1958
Spencer, John Allan, 1964
Spencer, Lance Clifford, 1952**
Spesivy, Vyacheslav, 1962
Spitzkowsky, Colin William, 1960**
Spratt, James William, 1957
Stafford, Warwick John, 1963
Stanton, Kenneth Neil, 1959**
Starr, John, 1961*
St. Baker, Trevor Charles, 1961
Steele, Ian William, 1962
Steggles, Kerry Ronald, 1961***
Stein, Frederick Adrian, 1956
Stevens, Brian, 1962
Stewart, David Brian, 1960
Stewart, David Thomas, 1963**
Stewart, Donald John, 1957
Stewart, John Leonard, 1958**
Stitt, Peter Henry, 1963
Stobert, Charles, 1964
Stokes, Stanley Seddon, 1958
Stone, John Patrick, 1963
Storr, Eric David, 1963
Strain, William Joseph, 1961
Strang, James, 1962
Strong, James Arthur, 1952§
Stuart, Alexander Robertson, 1958
Stuart, Anthony Graham, 1960**
Stubbs, Cecil Raymond, 1964*
Stutchbury, Geoffrey James, 1955
Sugden, John Vivian, 1955
Sugden, Warren George, 1964
Sukarso, Wijoto, 1960
Sujan, Anand Hiranand, 1962
Sullivan, Philip Albert, 1959†
Summersby, Victor John, 1962*
Suszki, John, 1959
Suszki, Joseph, 1962
Sutherland, Gordon Anthony, 1953
Sutton, Camden James, 1963
Sutton, Gerard Roger, 1963**
Swan, John Warren, 1961
Swinford, Howard Malcolm, 1965
Swords, Ian Barry, 1962
Tainsh, John McArthur, 1961**
Tam, Bui Kay, 1962§
Tampi, Gopala Pillai Krishnan, 1965
Tan, Jin Kah, 1962
Tan, Jin Lee, 1960
Tan, Kiah Tong, 1958
Tan, Kok Ngarn, 1963

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal  § Deceased
APPENDIX 2

BACHELORS OF ENGINEERING—continued

Tan, Sebastian Chiaw Hock, 1960
Taub, Michael, 1965***
Taunton, Colvin George, 1965
Taylor, Geoffrey Neale, 1963
Taylor, Graham Roy, 1955
Taylor, Leslie Frederick, 1962***
Taylor, Michael Roderick, 1963
Taylor, Noel Fredrick, 1964
Taylor, Peter John, 1959
Taylor, Russell McKenzie, 1962***
Taylor, Victor Michael, 1957
Teichert, Klaus Dietrich, 1964***
Telfer, Morris John, 1959
Temple, Richard William, 1963**
ten Brummelaar, Theo, 1960**
Than, Naing, 1963
Thieben, George, 1957
Thio, Oon Tean, 1965
Thompson, Aidan Allen, 1962**
Thompson, Barry John, 1964
Thorpe, Peter, 1953
Ticehurst, Jack Stanley, 1955
Timar, Michael, 1965
Timmins, Douglas Arthur Claude, 1963
Tindall, William Frank, 1963
Tinh, Tran-Kiem, 1960***
Tinni, Arvo, 1959
Tinslay, Peter John, 1964**
Tipping, Garry Raymond, 1965
Tischler, Eric, 1963**
Tisdell, Robert Henry, 1962
Tjio, Beng Seng, 1965
Tjitosidojo, Sumartono, 1961
Tognetti, Keith Phillip, 1954
Tong, Kok Soon, 1961
Toppler, Jeno Frank, 1958
Toswill, Brian Joseph, 1959
Towson, Peter Granville, 1961
Travis, Ian Mark, 1963
Trebath, Barry Paul, 1965***
Trestrail, Walter Raymond Glen, 1965
Trueman, Norman Anthony, 1960***
Trumpmanis, John Peter, 1962
Truupold, Enn, 1964
Tsang, Gee, 1963
Tsang, Yuk Lun, 1965
*Honours Class I  **Honours Class II

Turner, Alan Leslie, 1961**
Tyacke, Philip Norman, 1965
Uebel, Royde Murray, 1955**
Upfold, Robert William, 1955**
Vaino, Erich Lembt, 1961**
Vainomae, Arvi, 1955**
Vamos, Peter, 1962**
Van der Lit, Hermanus Stephanus, 1962
Van der Werf, Peter, 1962†
Van Es, Ronald John, 1964
Van Oostrom Soede, John Karel, 1965***
Varley, Clement George, 1961
Vaughan, Ronald George, 1963
Velthuysen, Hans Antoni, 1964
Vesilo, Kusta, 1958
Vesk, Mart, 1963
Vickery, James Cochrane, 1965***
Vidalis, Harry Charalampos, 1964
Vidler, Garrie Joffre, 1961
Voits, Ivars, 1965
Vujic, Milan, 1964
Waddell, John Stanton, 1958**
Wade, James Tomes, 1958
Waldman, Frank Dan, 1965
Walker, Allan, 1964
Walker, Francis Ulric, 1964
Walker, John Allan, 1952**
Walker, Neil William, 1954
Walker, Robert George, 1965**
Wall, Michael Anthony, 1965
Wall, Patrick Joseph, 1961
Wallace, Alan MacDonald, 1955
Wallace, Harry Lachlan, 1955
Wallis, Graham Rodney, 1959
Wallyn, Robert Eric, 1958
Walsh, Francis Thomas, 1962
Walsh, Paul Francis, 1964*
Walters, Garry Francis, 1964
Wang, Richard, 1962
Ward, Geoffrey, 1952
Ward, Ronald Bentley, 1962
Waring, John Mead, 1956
Warner, Robert Falcon, 1955**
Warren, Eric George, 1960
Warren, John Daniel, 1953**
Warrillow, Peter, 1961

***Honours Class III  †University Medal
Waters, John Frederick, 1962
Watkins, Ian Cadell, 1961
Watson, Gordon Stewart, 1959**
Watson, James Herbert, 1957**
Watson, Lloyd Stewart, 1962
Watson, Malcolm Russell, 1965**
Watson, Robert Burnley, 1959
Watts, Brian William, 1962
Watts, Michael Anthony Ans dell, 1964
Weatherall, Francis John, 1963
Webb, Loris Maxwell, 1965**
Webb, Trevor James, 1960
Webster, Antony Arthur, 1963***
Weidemier, John Alan, 1959
Weir, Keith Graham, 1962
Wells, Alan John, 1954
Wenham, Brian Godfrey, 1958
Whatham, John Frederick, 1958
Whatham, Robert Parry, 1956
Wheeler, Geoffrey Walter, 1956
Wheeler, William Raymond, 1952
Wheway, Robert Thomas, 1965†
White, James Frank, 1964
White, Kenneth Leigh, 1961
White, Maxwell William, 1952†
Whitehouse, George, 1963**
Whittaker, Wallace Henry, 1960**
Witting, Alan Charles, 1954
Widdup, Alfred James, 1955
Wiedemann, Herbert George Rudolph, 1962
Wikoebroto, 1961
Wilcox, James Gerald, 1960
Wild, Brian Frederick, 1962**
Wilkins, Peter George, 1960
Wilkinson, Frank Lyon, 1961
Wilks, John Harold, 1961**
Willems, Hendrik Anton, 1961
Williams, Adrian Crichton, 1965
Williams, Alan Cecil, 1961
Williams, Ernest Harrison, 1961
Williams, Graham Alban, 1963
Williams, Leo Roy, 1956
Williams, Maurice John, 1960
Williams, Michael Paul Charles, 1960
Williams, Robert Carl, 1954**
Williams, Roy Arnold, 1956**

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
APPENDIX 2

BACHELORS OF OPTOMETRY

Beh, Heng-Pang, 1965
Fisher, Peter Charles, 1965
Henderson, Christopher, 1965
Quinsey, Noel Raymond, 1965
Shoebridge, Robert Ronald, 1965**
Sim, Ian Gordon, 1965

BACHELORS OF SCIENCE

Abbott, Bruce, 1964***
Abbott, Douglas William, 1963
Abbott, Grahaeme Michael, 1964*
Abimanju, Bambang, 1956
Achmad, Sjamsul Arifin, 1960*
Adam, Graeme Stevenson, 1962
Adams, Neil Leon, 1963**
Aggett, Jack Stanley, 1958
Ainsworth, Edward John, 1963***
Ainsworth, Elizabeth Ann, 1964**
Ainsworth, William Murray, 1961**
Akre, Thomas, 1960
Alexander, John Andrew, 1965**
Algie, Stephen Hopetoun, 1965†
Allan, Robert William, 1964
Allen, David Ven, 1962***
Allen, John Reginald, 1962
Allen, Peter Henry Printz, 1961
Allman, Maxwell, 1960***
Allotta, Joseph Anthony, 1963
Alsop, Philip John, 1963
Alston, Phillip Arthur, 1960
Anderson, John Murray, 1960
Anderson, John Ragnar, 1952*
Anderson, John Robert, 1952*
Anderson, Robert Neil, 1965
Anderson, Thomas Frederick, 1959
Anderson, William John, 1955
Andrews, Albert Henry, 1958
Andrews, Allen Raymond, 1960
Anstee, Sydney Alfred, 1958
Antoniadis, Theodore Dennis, 1963
Armstrong, Geoffrey Winston, 1965
Armstrong, Kenneth John, 1963
Arnold, Kenneth William, 1960
Ashby, Richard Alexander, 1962*
Astride, Annette, 1962
Atkins, Michael Joseph, 1964
Atkinson, Noel Robert, 1963
Avis, Edward Arthur, 1957
Aylward, Gordon Hillis, 1952**

* Honours Class I  ** Honours Class II

*** Honours Class III  † University Medal
## GRADUATES OF THE UNIVERSITY

### BACHELORS OF SCIENCE—continued

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† University Medal     |            |               |

**Honours Class I**  
**Honours Class II**  
**Honours Class III**  
† University Medal
APPENDIX 2

BACHELORS OF SCIENCE—continued

Burns, William James, 1964**
Burrell, George Albert, 1956
Burridge, William Aubrey, 1962
Burrows, Kenneth Archibald, 1963
Burton, Peter George, 1962*
Burton, Vivienne Isabelle, 1965
Burton, William Henry, 1962
Busch, Noel Claude, 1965
Butler, Douglas Neve, 1959**
Butler, Lewis Allan, 1964**
Butler, Wilfred Barrington, 1960
Byrnes, Julian John, 1960
Caddy, Joanne Mary, 1964
Caulhill, Mary Judith, 1964
Caiger, Philip, 1957**
Cain, David Anthony, 1965
Cairns, Robert Charles, 1952†
Caldwell, Raymond Joseph, 1965
Callcott, Mary Millicent, 1965
Callender, Wesley, 1958
Callinan, Bryan Francis, 1959
Cambeil, Leslie Alan, 1955†
Cameron, Nevell John, 1956
Campbell, Colin Douglas, 1956
Cantwell, John Charles, 1962
Carne, Peter Raymond, 1962
Carr, David Reginald, 1961
Carr, James Eshott, 1953**
Carr, Ronald William, 1959
Carroll, Bruce Phillip, 1965
Carroll, Denis Edward, 1965
Carroll, Morris William, 1959
Carter, Frank Robert, 1957
Carter, John, 1954**
Carter, Robert Aedy, 1960
Cartwright, Brian William, 1962
Cartwright, David Frederick, 1961
Cartwright, Peter Albert, 1963
Cartwright, Terence Robert, 1958
Castanos, John Nicholas, 1964
Celitans, Gerard John, 1959**
Chan, Bertram Kim-Cheong, 1962*
Chand, Fateh, 1964*
Chaplin, Phillip Arnold, 1959
Chapman, Bernard Milton, 1965**
Chapman, Gordon Edwin, 1963
Chapman, John Stanley, 1963**

* Honours Class I ** Honours Class II *** Honours Class III † University Medal

Chapman, Kenneth James Campbell, 1959**
Chapman, Robert McArthur, 1957
Chappell, Geoffrey Bruce, 1959
Charlesworth, David Huntley, 1965
Charlton, David, 1965
Charlton, Robin John, 1963
Chaston, Scot Henry Herbert, 1959
Cheema, Rajinder Singh, 1965
Chen, Peter Yo Pin, 1963***
Cheng, Albert Chak Lap, 1965
Cheong, Michael Chan Seng, 1958
Chernikeeff, Dimitry, 1965**
Chew, Fook Chun, 1962
Chia, Peter See Kien, 1964
Chie, James Mervyn, 1958
Childs, Robert Arthur, 1961
Chilman, Gary Frederick, 1964
Ching, William Wai-Lam, 1963
Chiswell, Barry, 1958
Cho, Kai Yip, 1964**
Chong, Aloysius Ngian Leong, 1964
Chong, Foo Chin, 1965**
Chong, Robert, 1963**
Chorlton, Stanley Harold, 1956**
Christie, Colin Maxwell, 1965
Chung, Mui Fatt, 1963**
Churches, Roland Warwick, 1961
Clark, Edward Henry, 1963
Clark, Roy, 1963
Clarke, Lesley Dorothy, 1962*
Clarke, Lyndall Patricia, 1963
Clarke, Nefer Pauline, 1961
Clarke, Rodney Max, 1963**
Claxton, Charles William, 1965
Cleary, Graham James, 1957
Cleary, James Edwin, 1955**
Cleary, John Rashleigh, 1955**
Coady, John Robert, 1964
Coates, Eric Bruce, 1960
Cochrane, Stanley, 1963
Codd, Peter, 1965**
Coggia, Ilidio Mario, 1961
Cohen, Soly Angel, 1963
Coleman, Brian John, 1961
Coleman, Maurice Leigh, 1965
Collard, Margaret Anne, 1965
Colley, Douglas Fraser, 1959
BACHELORS OF SCIENCE—continued

Collin, Philip James, 1962**
Collings, Anthony Francis, 1963**
Collins, Barry Frederick, 1955**
Collins, Henry Lillyman, 1957
Collins, John David, 1961*
Collins, Lindsay Robert, 1962
Collins, Robert Franklin, 1963
Collins, Terry Ralph, 1965
Collins, Terry William, 1965
Collison, Irwin Walter, 1959
Colman, John Cornish, 1961
Comanos, George, 1962***
Comino, George Andrew, 1965
Comino, Peter Chris, 1965
Condon, David John, 1965
Conway, Neil Francis, 1965
Conygham, Maxwell George, 1963
Cook, Barry Alexander, 1965
Cook, Graham Arthur, 1965
Cook, James Lindsay, 1957
Cook, Robert Anthony, 1963
Cooper, Dennis John, 1965
Cooper, Mervyn Kenneth, 1955**
Cooper, Norman, 1960
Cope, Alan Edward, 1964
Copley, Wendy Jean, 1965
Corderoy, David John Haviland, 1959*
Cornell, Ronald Frederick, 1961
Costoulas, Aristotle John, 1956
Cotham, Raymond Lawrence, 1960*
 Cotterill, Mervyn James, 1957
Coulter, William John, 1965
Coupe, Henry, 1964
Court, John David, 1961
Courtney, John Lawrence, 1952**
Cousens, Graham Robert, 1962
Cowper, Stanley James, 1960
Cox, Barbara Jean, 1963*
Cox, Edith May, 1957
Cox, Gilbert John, 1964
Cox, Gordon Whitworth, 1961*
Cox, Pamela, 1965*
Cox, Peter James, 1965
Craig, John Victor, 1959
Crane, William John, 1964
Cranmer, Venn, 1954
Cranston, Peter Michael, 1965
Craven, Brian Raymond, 1958*
Crawford, Brian Raymond, 1960**
Crawford, George, 1961
Crawford, Ian Andrew, 1960
Crawford, John, 1960***
Crawford, Mervyn James, 1965
Cripps-Clark, Campbell John, 1958†
Crispin, Peter Donald, 1960
Crocker, Peter Maxwell, 1958
Croker, Gregory John, 1964
Crouch, Elizabeth Joy, 1965
Croucher, Phillipa Audrey, 1965**
Crowe-Mar, Kerry Harold, 1956
Cruikshank, Bruce Ian, 1965**
Cudmore, Joseph Francis, 1960**
Cumines, William, 1961***
Cummins, William Henry, 1963
Cunningham, James Robert, 1965
Curtin, John Hedley, 1958
Curtis, Robert James, 1961
Custer, David Lawrence, 1965
D'Abrera, Christopher Robin Vernon, 1965§
Dadd, Gordon Hugh, 1963
Dalglish, John Scott, 1961
Dalton, Anthony Edward, 1955**
Daniels, Edward James, 1957
Danks, Paul Anthony, 1964
Dann, Jeffrey Allen, 1958*
D'Arcey, Raymond Lawrence, 1959
Darvey, Ivan George, 1964*
Davidoff, Alexander, 1965*
Davids, Erik, 1965**
Davidson, Harry Robertson, 1960
Davies, Brian, 1963*
Davies, David Alexander, 1954**
Davies, John Edward, 1960
Davies, Judith Ann, 1961
Davies, Lionel, 1962
Davies, Michael Owen, 1959
Davies, Thomas Herbert, 1955
Davis, Brian Keith, 1958**
Davis, John James, 1960
Davis, Kenneth John, 1961
Davis, Leslie Stanley, 1960
Davis, Peter John, 1962
Davison, Leigh, 1965
Dawes, Jennifer Anne, 1963**

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal  § Deceased
APPENDIX 2

BACHELORS OF SCIENCE—continued

Dawkins, Gary Studleigh, 1964
Dawson, William Leonard Harold, 1964
Day, Henry, 1964
Day, Walter Roy, 1958
Dean, Arthur Barry, 1959
Deane, Kenneth Robert, 1953
Deasy, John Patrick, 1960
Deasy, Kenneth James, 1964
De Haan, Jacob Jan, 1962
Deit, Graham, 1965***
De Jongh, Bernard Julian, 1957
de Kantzow, David Anthony, 1965
Dekkers, John, 1963
De Lacey, Philip Richard, 1959
Delaney, William Francis, 1962
Delbridge, Richard John Martin, 1960
Demmler, Wolf George, 1962
den Dulk, Gesina Margaretha, 1960
De Plater, Roy Charles, 1962
Devine, John Malcolm, 1965
Devine, Kevin Noel, 1964
Dewhurst, Ian Stanley, 1956
Diefh, Herman Willem, 1959
Digby, Jonathan George, 1965
Dignan, Michael Stanislaus, 1961
Dilli, Sergio, 1959**
Dixon, John, 1964
Doak, James Robert, 1963
Dodds, Norman Brian, 1965
Dogan, Francis Leon, 1956
Doherty, Bruce Graham, 1965
Doherty, Gregory, 1962**
Domars, Malcolm Richard, 1965
Donaldson, Janet Ruth, 1958
Donaldson, Pamela, 1961
Donnan, Peter Stroyan, 1965
Donnan, Reginald Carson, 1954**
Donnelly, James Clifton, 1961
Donovan, Dennis Patrick, 1964
Donovan, Patrick James, 1958
Dossetor, John Vinson, 1958
Douglas, Stephen Arnold, 1962**
Doyle, Robert Wilfred, 1957
Doyle, Terence Patrick, 1965
Drake, Kenneth John, 1965
Draper, Graham Richard, 1956**

*Honours Class I  **Honours Class II  ***Honours Class III  †University Medal

** Honours Class II

Dreise, Peter William, 1962
Drew, Barry Joseph, 1963
Driksna, Victor Van, 1964
Drobn, Dawn Leila, 1964
Drobn, Peter, 1965
Drutt, Robert John, 1961**
Duesbury, Ross Malcolm, 1956
Duffy, Geoffrey Graeme, 1963
Duffy, James Robert, 1962
Duguid, James, 1965
Dunlop, John Ian, 1961**
Dunn, Gregory Charles, 1965
Dunn, Robert Charles, 1965
Dunne, Druce Patrick, 1964†
Dunning, John, 1957
Durrell, Sidney Richard, 1964
Dworjanyn, Orest, 1960**
Easton, Gwynth Marjorie, 1963
Eather, Robert Hugh, 1962*
Eaton, Kenneth Brian, 1963
Edmonds, Walter Henry, 1957
Edwards, David Thomas, 1965**
Edwards, John, 1965***
Edwards, Robert Anthony, 1964
Edwards, Ronald Alexander, 1956*
Ee, Meng Siong, 1964
Ekstrom, Alfred, 1963**
Elbourne, Ronald George, 1961
Elkington, Paul Alexander, 1965**
Ellershaw, Richard John, 1962
Elliot, Graham Frank, 1960
Elliott, John William Murray, 1964
Elmslie, Malcolm Kenwyn, 1963
Elson, Wendy Elizabeth, 1965**
Elts, John William, 1964*
Emmett, William James, 1964
Ernst, Ian Thomas, 1960**
Evans, Arthur William Hurst, 1960
Evans, John Oliver, 1965**
Everett, Kevin Oswald, 1959**
Everett, Peter Kenneth, 1965
Eyland, Edward Peter, 1965
Ezer, Charles David, 1958
Fabrello, Nereo, 1964
Faggotter, Rainsford Sydney, 1962
Fahey, David Mahon, 1960
Fairbrother, Anthony Howard, 1964**
GRADUATES OF THE UNIVERSITY

BACHELORS OF SCIENCE—continued

Fairbrother, Jeffory Graham, 1961*  
Fairey, Kenneth David, 1964  
Fardy, John Joseph Matthew, 1958  
Farmer, Anthony Douglas, 1964**  
Farrell, Neville Bruce, 1960  
Farrell, Peter Anthony, 1964  
Farrell, Robert John, 1965**  
Farrer, Bruce, 1963  
Farrington, Keith John, 1956  
Farrugia, Anthony Joseph, 1964  
Faulkner, Robert Warren, 1965  
Faulkner, Robert William, 1965  
Fell, Christopher Joseph, 1962†  
Fenner, John Raymond, 1953*  
Ferguson, Anthony John, 1964  
Ferguson, Graham Ronald, 1965  
Fergusson, Yvonne Ann, 1962  
Fernandez de Viana, Jose-Maria Alberto, 1963  
Ferrier, William Edward, 1965  
Field, Peter James, 1962  
Filson, Arthur Cole, 1953  
Findlay, Anthony Walter, 1957  
Finkelstein, Clive Benjamin, 1962  
Firkin, Geoffrey Robert, 1960  
Fisher, Brian Douglas, 1965**  
Fisher, James Arthur Hector, 1965  
Fisher, Philip, 1957  
Fitz, Paul Louis, 1962  
Fitzgerald, Brian Thomas, 1963  
Fitzpatrick, Brian Patrick, 1958  
Fitzsimons, Colin Joseph, 1965  
Flanagan, John Terrence, 1958  
Fleming, Henry David, 1959  
Fletcher, Colin George, 1960  
Fletcher, Ian Stewart, 1964**  
Fletcher, Walter Maurice, 1953  
Fletcher, Warwick Alfred, 1965  
Fleury, John Gilbert, 1965  
Fligg, James Edward, 1961  
Florence, Trevor Mark, 1958  
Flynn, Patrick Francis, 1961  
Flynn, Thomas Desmond, 1955  
Fok, Che Nang John, 1965*  
Foldvary, Gabor Zoltan, 1965  
Ford, Geoffrey Hunter, 1955**  
Ford, Richard David, 1965  
Ford, Trevor de Brabander, 1965  
Forster, Raymond Henry, 1964**  
Foster, Neville Russell, 1958  
Fowler, Douglas George, 1960  
Fox, Barry James, 1965  
Fox, Bruce John, 1960  
Fox, Peter John, 1963  
Fragala, Joseph Nicholas, 1962**  
Francis, Arthur Philip, 1965  
Franklin, John Alan, 1964  
Franklin, William John, 1962*  
Fraser, Ian Edward, 1964  
Fraser, William Bruce, 1961  
Free, Ross Vincent, 1965**  
Freeman, John Richard, 1963  
Freeman, Kevin Leonard, 1964  
French, Stanley James, 1962  
French, Victor David, 1963  
Fryer, Colin Arthur, 1965  
Fuller, Kevin, 1962  
Furniss, Geoffrey Robert, 1965  
Gadsden, William Roger, 1962  
Gallagher, James Russell, 1963***  
Gallagher, Walter William, 1962  
Gammie, Keith Robert, 1958  
Gan, Ignatius Eng Tho, 1963  
Gardiner, Peter Edward, 1964  
Garland, Geoffrey Michael, 1963  
Garling, Mary Elizabeth, 1965**  
Garnett, John Lyndon, 1952*  
Garvin, Joseph William, 1963  
Garvin-Smith, Shirley Gladys, 1956  
Gutt, John Roland, 1965  
Gauci, George, 1961  
Gaul, Anthony John, 1965  
Geddes, Harvey Stewart, 1965  
George, Colin Walter, 1955  
Gerdes, Robert George, 1962  
Geyer, Geoffrey William, 1963  
Gibson, Allan John, 1964  
Gibson, Frederick Allan, 1959  
Gilbert, Kevin Paul, 1965  
Gilchrist, Stanley William, 1964  
Giles, John Rex, 1965***  
Giles, Maxwell Stuart, 1961  
Gillies, William John, 1964  
Gilmour, Harry, 1958  
Gilmour, John Alan, 1963

† University Medal

* Honours Class I  ** Honours Class II  *** Honours Class III
**APPENDIX 2**

**BACHELORS OF SCIENCE—continued**

Gilmour, Leonie, 1965  
Gilmour, Ronald Walter, 1962  
Glassey, Alan Rhodes, 1957  
Gledhill, Lloyd Ronald, 1962  
Gluvchinsky, Paul, 1965  
Godden, Donald McArthur, 1965  
Gohl, Erhard Paul, 1956  
Goldsmith, Gay Frances, 1965  
Golightly, David Rankin, 1956  
Good, William John, 1963  
Goodwin, Brian Thomas, 1963  
Goodwin, Graham Clifford, 1965  
Gordon, Helen, 1961  
Gordon, John Lindsay, 1959  
Gordon, Neville Cecil, 1961  
Gordon, Pauline Kay, 1962  
Gordon, Ross Brian, 1962  
Gore, Leslie George, 1963  
Gorman, Harry James, 1958**  
Gould, Geoffrey Neville, 1965**  
Grage, Peter, 1965  
Graham, Arthur Alexander, 1958  
Graham, Bruce Malcolm, 1954**  
Graham, Bruce William, 1963  
Graham, Clifford Arthur, 1957  
Graham, Colin Charles, 1960  
Graham, Edward Joseph, 1957  
Grahame, Frederick William, 1955  
Grainger, Terence John, 1958  
Grant, John Thomas Peter, 1965**  
Grant, Robert Charles Stephen, 1963**  
Grant, Wendy Doreen, 1964  
Graves, Donald Arthur Jeffrey, 1965  
Gray, Arthur Herbert, 1962  
Gray, Ian Ross, 1964*  
Green, Alan Rae, 1954  
Green, John Michael, 1964  
Green, Robert John, 1965**  
Greenup, Royce John, 1959  
Greenwood, John William Neville, 1958  
Gregory, Ian, 1963  
Gregory, Roy Thomas, 1956  
Greive, Cedric Eric, 1965  
Grey, Douglas Alister, 1961***  
Griffin, George Thomas, 1961  
Griffin, Peter Grenville Thomas, 1958  
Griffin, Robert Francis, 1962  
Griffith, June Clare, 1952**  
Griffith, Ross Ernest, 1961**  
Griffiths, Raymond Birchall, 1963  
Groenhout, Victor Evert, 1965  
Gruber, Sepp Jochem, 1963*†  
Grundy, Allan Arthur Willson, 1959  
Guest, Carolyn Marie, 1964  
Guest, Graeme Beresford, 1958**  
Guiffre, Vincent, 1954**  
Gulson, Brian Lindsay, 1964*  
Gunn, Raymond Charlton, 1962  
Gunn, Ronald John, 1964  
Gunzburg, Doron, 1962  
Guy, Ian Leslie, 1964  
Guyot, Reginald Edward, 1963  
Gwatkin, Edward Alan, 1955  
Gwynne, Victor John, 1964  
Haakman, Aukeia, 1964  
Hackett, Ian Harry, 1965  
Haile, Ronald Francis, 1964  
Haken, John Kingsford, 1957  
Halasz, Steven, 1961**  
Hall, Robert James, 1965*  
Halsey, Reginald Beres, 1958  
Hambrett, Paulette Jeannine, 1964  
Hambridge, Kenneth Alfred, 1963  
Hamilton, Bruce Allan, 1964**  
Hamilton, Noel Cedric, 1959  
Hamilton, Raymond Leo, 1965  
Hamilton, Thomas Ross, 1961  
Hammond, David Hartley, 1962  
Hammond, James Robert, 1962  
Hancock, John Otho, 1960  
Hanich, Jacob, 1963  
Hannaford, Jane Elizabeth, 1965  
Hansen, Frank Keith, 1965  
Happ, Philip Joseph, 1961  
Harborne, Francis John, 1963  
Harden, Rodney John, 1960  
Hardie, Catherine, 1961  
Hardinge, Eric St. John, 1962  
Hardjo, Suhadi, 1960  
Hardy, Helen Diana, 1961  
Hargreaves, Kenneth John, 1961  
Harland, John Dureau, 1955  
Harper, Kevin Anthony, 1957**  
Harper, Peter John, 1965**  

***Honours Class III  †University Medal
GRADUATES OF THE UNIVERSITY

BACHELORS OF SCIENCE—continued

Harris, Alan John, 1958
Harris, Arthur Robert, 1958
Harris, Clive Melville, 1952**
Harris, Douglas Clive, 1958
Harris, Geoffrey Charles, 1962
Harris, Rodney Alexander, 1963
Harrison, Barry Leigh, 1955
Harrison, Donald, 1964
Harry, John Raymond, 1955**
Hart, Richard John, 1958
Hart, Robert Francis, 1964
Harting, Erik, 1961†
Hartmann, Ross Arnold, 1964
Harverson, John Dennis, 1961
Harvey, Ian Livingstone, 1963
Haupt, Rita Sofia, 1965
Hawke, Ian Graham, 1963
Hawkins, Clifford John, 1960*
Hawkless, John Clinton, 1963
Hay, William James, 1960
Hayes, John William, 1960*
Hayhurst, Joan Doreen, 1963*
Hayter, William, 1964
Hazelton, William John, 1963
Healy, Margaret, 1963
Hellyer, Robert Owen, 1955
Henderson, John Barry, 1958*
Henderson, John Brian, 1961
Henderson, Linton John, 1961**
Henderson, Peter Douglas, 1965
Heng, Kheng Boon, 1965
Hennessy, George Gerald, 1961
Henry, Brian David, 1958
Heran, William, 1960
Hermann, Graham Douglas, 1959
Herwig, George Lang, 1956
Hetherington, Pamela Helen, 1962***
Heyes, John Donald George, 1960
Hibberd, George Edward, 1957†
Hickie, Thomas Stanislaus, 1959*
Hicks, Ronald Lloyd, 1965
Higinbotham, John, 1965
Hill, Keith Dawson, 1962
Hill, Peter William, 1957
Hillen, Lance William, 1962**
Hinde, John Gordon, 1959
Hinks, Neil Taylor, 1959
Hinterberger, Hertha, 1957*
* Honours Class I  ** Honours Class II

Hintze, Vladimir Michael, 1962
Ho, Sai Ngo, 1961
Hobart, John Geoffrey, 1962
Hobson, Thomas, 1964
Hodges, Raymond John, 1965**
Hodgins, Raymond Lewis, 1961
Hodgins, Reginald William, 1961
Hodgins, Robert Francis, 1961
Hogan, Bernard Francis, 1964
Holden, John Oliver Robert, 1960
Hole, Jeffrey Keith, 1965
Holland, Bruce Owen, 1957
Hollick, John Clinton, 1961
Hollis, Murray John, 1965*
Hollo, Agnes, 1960
Holloway, John Paul, 1964
Hopkins, Frank Richard, 1963
Horne, Gilda Ann, 1962**
Hoschke, Barry Norman, 1963**
Hoschke, Graham Carl, 1965
Hoskins, Bernard Foster, 1959*
Hoskinson, Ronald Milton, 1959**
Hourigan, James Arthur, 1964
House, Denis John, 1964
Howard, Ian James, 1961
Howard, William James, 1959
Howarth, Bruce Robert, 1964**
Howarth, Walter James, 1959**
Howe, Barry Thomas, 1963
Hubery, Ronald Winston, 1960
Hudson, Francis, 1959
Hughes, Brian Francis, 1965
Hughes, Donald Bruce, 1955
Hughes, Donald Keith, 1963
Hughes, Kenneth Charles, 1965*
Hughes, Richard Maclay, 1959
Humphreys, Robert William, 1958
Hunt, James Herbert, 1953
Hunt, Kenneth Richard, 1955**
Hunt, Levitt John, 1965
Hunt, Royston Luther, 1960
Hunter, Robert, 1963**
Hutchison, Peter John, 1964†
Hyslop, Donald, 1957
Ibrahim, Omar Bin, 1963
Ip, Hung Kwong, 1961
Irwin, Ian Hector, 1959

*** Honours Class III  † University Medal
APPENDIX 2

BACHELORS OF SCIENCE—continued

Irwin, Roderick Morrison Stephen, 1961***
Ivin, Percival Charles, 1964
Jaason, Svea-reet, 1963
Jackson, Frederick John, 1962
Jackson, James Keith, 1960
Jackson, Wilbert Andrew, 1964
James, Leigh Barrie, 1963
James, Paul Sidney, 1963
James, Peter Anthony, 1963*
James, Peter Edward, 1964**
Jameson, Graeme John, 1960**
Jamieson, Peter Norman, 1962
Janov, Juri, 1965*
Janjfi, Epi, 1960**
Jay, Anthony William, 1965
Jay, William Harold, 1961
Jefferson, Anthony David, 1961
Jeffries, James, 1961
Jehne, Claus, 1965***
Jelavic, Dennis Felix, 1963
Jenkins, John Henry, 1964
Jenkins, Trevor Barry, 1963
Jennings, John Francis Peter, 1965
Jensen, Noel Vincent, 1965
Jex, Richard Leonard Ernest, 1959
Joasoo, Ulo, 1961
Jobling, Ralph, 1961
Johnson, John Wentworth, 1954
Johnson, Keith John, 1952
Johnson, Merike, 1965
Johnson, Richard Derwent, 1962
Johnson, Richard John, 1960*†
Johnston, Andrew Gordon, 1955
Johnston, Bruce Beresford, 1964
Johnston, Gordon Basil, 1956
Johnston, Kenneth Alan, 1962**
Johnston, Nancy Vada, 1963
Johnston, Ronald David, 1965*
Johnstone, Cyril David, 1957
Johnstone, James Norman, 1965
Jones, Arthur Vincent, 1964*
Jones, Mark Robert, 1962
Jones, Peter Robert, 1965
Jones, Raymond Charles, 1960
Jones, Russell Campbell, 1961**
Jones, Thomas Alwyn, 1956
Jones, Warwick Leonard, 1953**

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal

Joscelyne, Ronald Arthur, 1963
Jostsons, Adam, 1963*†
Jostsons, Peter, 1964
Kabat, Miroslav John, 1963
Kaberry, Bryce, 1964
Kable, John William, 1961
Kadwell, John Albert, 1962
Kaineder, Alfred Frank, 1964
Kastalsky, Victor, 1963*
Kaufman, Jack, 1958
Keane, Terence James, 1964
Keats, Neil Gordon, 1959
Keena, Harry Vernon, 1963
Keese, Ian James, 1965
Kelcroyne-Lawrence, Graham Giorgio, 1962
Kellett, John Raymond, 1965
Kelly, David Patterson, 1965*
Kelly, Douglas Edward, 1963
Kelly, Francis Peter, 1961**
Kelly, George Desmond, 1965
Kelly, Peter Yates, 1961
Kelsey, Peter John, 1963
Kemp, John Edward, 1965*
Keniry, John Stanley, 1965*
Kennan, Ross William, 1962
Kennard, Colin Harold, 1956
Kennedy, Geoffrey John, 1961
Kennedy, John Patrick, 1957**
Kennedy, Richard Edmond, 1955**
Kennett, Ross Hallett, 1959**
Kenny, Peter, 1957*
Kenny, Rosalind Margaret, 1963
Kernebone, Francis Ellis, 1962***
Kerr, Andrew Colin, 1958*
Kerr, Jeffrey Lionel, 1958
Keyzer, Hendrik, 1964*
Kilpin, Colin John, 1965
King, Allan Roy, 1953**
King, Dianne, 1962*
King, Keith Douglas, 1964*
Kinnersley, Donald Stuart, 1960
Kirke, Errol Andrew, 1962
Kirsop, Walter, 1960*
Klavins, Janis Evalds, 1960**
Klein, Patrick Dawson, 1965
Knight, Sylvia Margaret, 1961
Knispel, Charles Christian, 1958*
BACHELORS OF SCIENCE—continued

Knox, Warren Samuel, 1964  
Koczkar, George Michael, 1962  
Kokot, Ernest, 1957**  
Kornis, Gabriel, 1958**  
Kraegen, Edward William, 1965**  
Krysko v Tryst, Maren, 1963  
Kuyper, John Carel, 1964  
Kwei, Sophia Che Ying, 1963  
Laing, David George, 1965*  
Laing, Olga Nicolaevna, 1965  
Lam, Kwan Wu, 1965  
Lambert, Colin Godfrey, 1961  
Lambert, Graeme Ross, 1965  
Lamens, Hans, 1958  
Lamond, Maxwell James, 1956**  
Lampard, Mark Gregory, 1962  
Lancaster, Brian William, 1964  
Lancaster, Kenneth John, 1965***  
Lancaster, Susan, 1965  
Landa, Barry Samuel, 1965  
Landon, Anthony William, 1964  
Lane, Warwick Manning, 1957  
Lang, Maxwell McNeil, 1960†  
Langby, Claude William, 1957  
Langford, Edward John, 1962  
Lanzarone, Roland Michael, 1959  
Lark, Prosper David, 1952**  
Larking, Alexander Denis, 1963  
Lussak, Erich Vincent, 1963**  
Lathlean, Barry, 1956**  
Lau, Donald Yue Kui, 1963  
Law, Siu Wah, 1960**  
Lawson, Frank, 1955†  
Lawson, Philip Burton, 1960  
Layt, James Edward, 1960  
Laytham, Brian Robert, 1965  
Layton, Richard Edward Stacey, 1965  
Lazar, Marianne, 1963  
Lean, John Barry, 1955  
Le Bas, John Joseph, 1960  
Lee, Chong Pin, 1965  
Lee, Colin Francis, 1965  
Lee, Ernest John, 1961  
Lee, Francis Albert, 1961  
Lee, Frederick Thomas, 1957**  
Lee, Helen Henderson, 1963  
Lee, John Barry, 1957  
Lee, John William, 1957*  
Lee, Nyit Sin, 1965  
Lee, Seng Chong, 1965  
Lee, Terence Henderson, 1963*  
Lee, Vincent, 1955  
Lehoczyk, Idy Marie, 1964  
Leigh, Ronald Maurice, 1959  
Lenn, Anthony Marcus, 1965  
Leonard, Barry David, 1965  
Leung, Ping Kwan, 1960  
Lewis, John Alfred, 1959  
Lidbetter, David William, 1963  
Lie, Kok Toen, 1960***  
Lightfoot, Betsy Blythe, 1965*  
Lim, Hai Yan, 1964  
Lindoy, Leonard Francis, 1964  
Lino, Barry Frederick, 1965***  
Little, Alec George, 1955*  
Little, John Jeffrey, 1959  
Little, Lambert Ronald, 1954  
Livingstone, Sandra Elizabeth, 1964  
Livingstone, Stanley Edward, 1952*  
Lloyd, Christopher Paul, 1964**  
Lo, Mary Frances Meng Choo, 1965  
Locksley, Harry David, 1955**  
Locksley, Peter John, 1963  
Lockyer, Trevor Norman, 1957  
Lonie, Thomas John, 1964  
Lorenc, Jaroslav, 1960  
Lorschy, Peter, 1962***  
Lourey, Brian Joseph, 1961  
Love, John Leslie, 1965  
Lovell, Derek Campbell, 1957  
Lowe, Brian Frank Sydney, 1965  
Lowe, James, 1965  
Luz, Andrey, 1965  
Lunin, George, 1962  
Lyddiard, Kathryn Rose, 1963  
Lynch, Alban Jude, 1956**  
Lynch, Denis Francis, 1962**  
Lynch, Leo James, 1964**  
Lynch, Patrick William, 1958  
Lyon, Kevin Robert, 1963  
Macdonald, Ian Laurence, 1965  
MacDonald, John Robert, 1961  
MacDonald, Ronald James, 1962*  
Machin, Michael Vincent, 1964  
Machin, Michael Vincent, 1964

*Honours Class I  **Honours Class II  ***Honours Class III  †University Medal
BACHELORS OF SCIENCE—continued

Mackay, Bruce Hugh, 1959**
Mackay, Ian Naunton, 1961
Mackenzie, James Archibald, 1964
Mackey, Phillip John, 1964***
Mackie, James Alexander, 1953
Mackintosh, Donald Lachlan, 1964†
Mackintosh, Malcolm McNnes, 1965
MacLennan, David Graham, 1959
Macmillan, James, 1952**
Macmillan, William Pattie, 1958†
Macrae, Ann, 1964
Madden, Barry George, 1956**
Madgwick, George Graham, 1954**
Madgwick, John Colin, 1962
Magill, Lawrence Ian, 1964
Magnusson, Alan Hastings, 1962
Maher, Kenneth James, 1964**
Maidment, Edward Holdsworth, 1959
Maksyvitis, Juozas Joseph, 1961
Malin, Anthony Samuel, 1958*
Malkan, Hermanto, 1962
Maltman, Harry Lister, 1965***
Manley, Robert Frank, 1965
Mann, Edward Alan, 1964
Mann, Robert Keith, 1964**
Manners, Vincent John, 1955
Manocha, Jaswant Singh, 1965
Manocha, Kalwant Singh, 1955
Mansberg, Emanuel, 1954
Manurung, Firman, 1959**
Marjoribanks, Kevin McLeod, 1959
Marler, Geoffrey Charles, 1961
Maroney, Allan Patrick, 1964
Martin, June Rosemary, 1963*
Martin, Norman, 1958
Martin, Ronald Hugh, 1954
Martin, Warren, 1963
Marx, Barry Clive, 1963
Masnick, Anthony Joel, 1962**
Mason, Kevin Joseph, 1962
Massey, Ian Warren, 1963
Masson, Michael Angus, 1965
Mather, Laurence Edward, 1965
Matheson, Alexander William Hay, 1964**
Mathew, Brian Albert, 1965
Matthews, Joseph, 1960
Matthews, Peter Iceton Miles, 1964
* Honours Class I  ** Honours Class II
Matthews, Ralph William, 1960**
Mawby, Marcus William, 1964
McAuslan, Brian Richard, 1961**
McBride, Thomas Patrick, 1965
McBrien, Basil Patrick, 1958
McCallum, Valerie May, 1962
McCaughtrie, Glen Allan, 1963
McClintock, Donald John, 1961
McColl, David Neil, 1961
McConnell, John Murree, 1963
McCormack, Gerard Laurence, 1965
McCoy, Arthur Keith, 1960
McCoy, Athol William, 1959
McCracken, Jack Geddes, 1963
McCulloch, Ian Gordon, 1962
McDonald, Neil Robert, 1960**
McDonald, Stanley, 1965**
McDouggall, Peter George, 1956
McFarland, Bruce, 1964
McFarlane, Jeanette, 1962
McGarity, John Michael, 1964
McGeachie, Ingles Wordsworth, 1960
McGowan, Allan James Joseph, 1963
McGregor, Robert Douglas, 1965
McGuiness, Leslie James, 1965
McGuirk, Brian John, 1965*
McInnes, Peter Aloysius, 1958
 McIntosh, Alexander Ian, 1963†
 McIntosh, Josephine Robin, 1962
McKay, Harry David, 1957
Mckee, Alastair Neil, 1963*
Mckee, Ian Alexander, 1963***
Mckee, Ian James, 1962**
McKelvie, Dawn Rosalyn, 1964
McKenna, Robert John, 1964
McKillop, John Gordon, 1961
McKinnon, Kenneth Hamilton, 1961***
McLaren, Keith Gerrard, 1958*
McLeod, Peter Donald, 1964
McMahon, Shane Evelyn, 1965**
McMartin, Ian Bruce, 1962
McMaugh, William John, 1958
McNamara, James Patrick, 1963
McNaught, James Stewart, 1955**
McPaul, Keith Stanley, 1964
McRae, Colin Alexander, 1965
McSwan, Robert Bruce, 1962
*** Honours Class III  † University Medal
BACHELORS OF SCIENCE—continued

Mead, Murray, 1953
Mead, Thomas John, 1964
Merry, Robert Richards, 1962
Meyer, Helen, 1965
Meyers, Lorraine Edna, 1963
Meyjes, Ernest Harry, 1963
Miceli, Michael John, 1956
Milani, Lawrence, 1963
Mildwater, Susan Alice, 1962
Milham, Harold Stanton, 1963
Miller, Cedric Earl, 1960
Miller, Charles James, 1953**
Miller, James, 1957
Miller, Jeffery John, 1963
Miller, Keith Andrew, 1963
Mills, Sylvester Colin, 1958
Milne, Douglas Keith, 1962**
Milne, John Warren, 1956
Milward-Bason, Paul Miles, 1965
Mitchell, Geoffrey James, 1964
Mitchell, Keith John, 1963***
Mito, George, 1962
Mockler, Garry Michael, 1964**
Moerjono, John, 1962
Moffat, Douglas William, 1965
Montgomery, Kelvin Alan, 1960
Moo, Lincoln Tim Kui, 1961
Moor, Beresford Christopher, 1958
Moore, Michael Nean, 1957
Moore, Patricia Ann, 1964
Moore, Philip William, 1963**
Moore, Wayne Eric, 1965
Moran, Vincent John, 1955
Morgan, Anthony Robin, 1962
Morgan, Peter David, 1963***
Morgan, Robert John, 1962
Morgan, Stanley Roy, 1960
Moriarty, John William, 1965
Morison, Warwick Thomas, 1964
Morley, Donald Marshall, 1965***
Morrant, Alan James, 1955
Morris, Anthony Alexander, 1961
Morris, Anthony John, 1964
Morris, Frederick Ronald, 1964
Morris, Maxwell George, 1953
Morrison, Alexander John, 1953
Morrison, Barry Leonard, 1956
Morton, Allan James, 1960†
Moses, Marilyn Nea, 1962
Moulton, Clifford Arthur, 1965***
Mowbray, Gordon, 1958**
Mowbray, William, 1957
Moylan, William Laurian, 1964
Mudford, William John, 1964**
Muir, Andrew, 1958
Muir, Christopher Charles, 1963
Muir, Peter Lawrence, 1956
Mulholland, John Gordon, 1962**
Mullen, Brian Joseph, 1961
Muller, Ross Leslie, 1957*
Munk, Leon, 1964**
Munk, Nissim, 1965**
Munns, William Leslie, 1964
Munro, Arthur William, 1963
Murdock, Raymond Neville, 1964**
Murphy, Henry Matthew, 1965
Murphy, Peter Francis, 1964
Murray, Graham Leslie, 1965
Murray, John Coll, 1965
Mushan, William George, 1964
Muthucumaru, Puspavathy, 1964
Myers, Barry John Frederick, 1962
Myles, Kenneth William, 1963
Nagel, Brian Richard, 1960
Nancarrow, Peter Charles, 1962
Napier, Keith Hamilton, 1957*
Nash, Peter, 1961***
Nasserie, Dick, 1958
Nay, Ronald George, 1960
Neale, Wilson Harry, 1959**
Neasbey, Neville William, 1961
Neill, Barry Vincent, 1956
Neilson, Ian Young, 1961***
Netschey, Alexander, 1963
Neu, George, 1956**
Neville, Joseph Michael, 1963
New, Alan James, 1963
Newton, Alexander, 1956
Newton, Wendy Lynette, 1962
Ngiam, Tong Yuen, 1962**
Nichol, Alan William, 1962†
Nicholls, Richard George, 1962
Nichols, Allan Charles, 1961**
Nicholson, Frank David, 1962

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
§ Deceased
Nicholson, Peter Herbert, 1964
Nickson, Brian John, 1955
Nicol, John Charles, 1960
Nicol, Patricia Irene, 1963**
Ninio, Freddie, 1960**
Nolan, Raymond John, 1962
Noller, Charles Geoffrey, 1958
Noonan, Denis Edward, 1958
Noordewier, Hans, 1962
Nordon, Peter, 1954†
Norman, Joseph, 1953**
Noy, Marion, 1962
Nugent, Hugh Russell, 1959
Nunn, Barry Nigel, 1959
Oates, Hugh William, 1965
O'Brien, Eric William, 1960
O'Brien, Anthony David, 1964
O'Brien, Colin John, 1964
O'Brien, John Charles, 1960
O'Brien, Paul, 1962
O'Brien, Reginald William, 1956
O'Connor, Michael Wetherill, 1954
O'Donnell, John Michael, 1957
Oedjoe, Djoeriaman, 1960**
Offner, Janice Ellen, 1963
O'Flynn, Patrick Michael, 1964
Oglethorpe, Bruce James, 1954
Oitmaa Jaan, 1965†
O'Keefe, John Herbert, 1963
O'Neil, William Frederick, 1963
O'Neil, Brian Michael, 1962
Oom, Peter John, 1957
Orlova, Tatiana, 1965
Ormay, Miklos Kalman, 1959
O'Regan, Barry Phillip, 1963
O'Rourke, Thomas Philip, 1962
Orrock, Bryan John, 1963**
Orwell, Ralph Laurence, 1961**
Osborn, Phillip George, 1961
O'Toole, Anthony John, 1963
Ottewill, Geoffrey Rabone, 1961
Ozols, Gunars, 1956
Paddison, Barry Arthur, 1953
Paddon, John Julius, 1963
Painter, Edward, 1963
Pajor, Peter Andrew Emeric, 1961**
Pallister, Ernest Thomas, 1960
Palmer, Barry Phillip, 1965
Palmer, Eric Francis, 1958
Pankhurst, Roger Lawrence, 1963
Pappas, Peter, 1962**
Parke, Malcolm, 1961
Parker, George Frederick, 1960
Parker, Peter, 1965
Parkinson, Brian Alexander, 1965**
Parnell, Denis Anthony, 1963
Parry, Christopher John, 1963
Parsons, Ronald John, 1963
Parts, Arne Adolf, 1963
Pascoe, John Lawrence, 1959
Passmore, Brian Victor, 1958
Paterson, Donald Charles, 1963
Pattie, William Anthony, 1960
Payne, Denis Arnot, 1963
Pearce, Alanson Lindsay, 1963
Peel, Diason Margery, 1963
Peh, Siew Cheng, 1965
Pemberton, Donald Marsden, 1959
Pemberton, Gary Milton, 1961
Pemberton, Kenneth Ruben, 1961**
Perrett, Eric William, 1962**
Perry, Douglas Ernest, 1965
Perry, Peter Patrick, 1954**
Petersen, Maxwell Christian Edward, 1963**
Pez, Guido Peter, 1962**
Philipp, Donald Henry, 1957
Phillips, Kevin James, 1963
Phua, Cheng Chit, 1965
Phuoc, Dang Huu, 1964***
Pickering, Edward Phillip, 1964
Pickering, William Frederick, 1952*
Pilkington, John Thomas, 1952**
Piltz, Kenneth Roy, 1965
Pinkerton, Donald Malcolm, 1959*
Piper, Graeme Leslie, 1963
Piper, Neville Richard, 1965
Pirie, Alexander Walter, 1962
Pitchfork, Colin Edward, 1963
Pitt, John Ingram, 1962
Pomeroy, Alan Bruce, 1962
Pope, Charles Warwick, 1963***
Popovski, Vitali, 1961
** Honours Class III  † University Medal
Porritt, Donald William, 1965**
Porter, David Thomas, 1963
Postle, Ronald, 1962†
Poulton, Geoffrey Thomas, 1964
Powell, Graham Leonard Fraser, 1958
Powitt, Albert Henry, 1957
Pradhan, Satrughan Lal, 1964**
Pratt, Neil Richard, 1961
Pratten, Christopher Hugh, 1956
Preece, Daphney Emily, 1964
Price, Barry Charles, 1965
Prince, Roger Oliver, 1956**§
Prokopovich, Sviatoslav Antonovich, 1965
Proudfoot, Bruce William, 1962
Proudman, Peter John, 1965
Puck, Herbert Richard, 1963
Pullen, Pamela Margaret, 1965†
Pullin, James Anthony, 1961§
Purches, Frederick Walter, 1953
Purss, Alan Stanley, 1953
Pyke, Bruce Henry, 1958**
Pyle, Titia, 1962
Pym, Ronald Kenneth, 1954
Quail, Harold Graham, 1962**
Quane, Douglas William, 1965
Quinn, John Malcolm, 1961**
Rainis, Andrew, 1965**†
Raison, John Kenneth, 1961**
Raiss, James Patrick, 1964
Raiss, Richard George, 1962
Raphael, Peter, 1960
Rayner, Arthur Wilson, 1962
Rayner, Mark Richard, 1961**
Read, Harold Walter, 1962
Reece, Ian Harold, 1956
Reece, Robert Edwin, 1965
Reed, John Leslie, 1965
Rees, Barbara, 1962
Reidy, Michael Joseph, 1961
Reilly, Keith Francis, 1965
Restall, Barry John, 1959**
Rhoades, Gerald Frederick, 1956
Richardson, Donald George, 1963
Rickard, Jon Albert Frederick, 1965
Rigby, Harold John, 1959
Rileigh, James Ronald, 1963
Riley, Brian Terence, 1964
Rippon, Denis Everard, 1959
Robards, Geoffrey Edward, 1964**
Robb, Jean Violet, 1965
Robbie, Ian Stuart, 1957
Robens, Barry John, 1965
Roberts, John, 1958**
Roberts, Kenneth Charles, 1964
Roberts, Michael John, 1963
Roberts, Norman Arthur, 1964
Roberts, Peter Kingsman, 1958
Robertson, Donald Ormiston, 1961
Robertson, Graham Dunnett, 1962
Robins, Harold George, 1955
Robins, Robert George, 1953**
Robinson, David Keith, 1965
Robinson, John McKay, 1960
Robinson, Valerie Joyce, 1963
Robson, Ruth Elaine, 1965***
Rockwell, James Francis, 1965
Rodgers, Patrick John, 1965
Rodgers, Raymond Francis, 1960
Rodrigo, Tennyson, 1955
Rogers, George Maxwell, 1958
Rogers, John Roland, 1960
Rogers, Robert Bruce, 1965
Rogers, William Robert, 1956
Rolfe, Christopher Brian, 1964
Roman, Dumitru, 1960
Rome, William Arthur, 1963
Romer, Edward Adolph, 1961
Romer, Joseph Arthur, 1962
Rooney, Michael Laurence, 1965
Roscoe, Noel Edward, 1956
Rose, Frank Arnold, 1961
Rose, Mary Letitia, 1964
Rosenthal, Aaron, 1964
Rosenthal, Jill Norene, 1965
Rosenthal, Ruth Marjorie, 1965
Rosevear, Pamela Eunice, 1965
Ross, Brian Thorpe, 1962
Ross, Frederick Harold, 1956
Rossler, Ludvick Peter, 1955
Rothwell, Robert, 1960
Routley, Walter Laurence, 1954
Rowe, Allan Winston, 1963

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal  § Deceased
BACHELORS OF SCIENCE—continued

Rowe, Brian Lawrence, 1960
Roy, John Malcolm, 1964
Rozea, Sandra, 1965
Rudzats, Richards, 1958
Rush, Frederick Albert James, 1960
Rushton, David Anthony, 1963
Russell, Barrie James, 1959
Russell, Graeme John, 1962*
Rutherford, Denis Samuel, 1960
Rutherford, Neil Firth, 1960
Ruthven, Phillip Kenneth, 1962
Ryan, Bruce John, 1965**
Ryan, Keith Ronald, 1959**
Ryan, Kevin Francis, 1959
Ryan, William Patrick, 1962
Salasoo, Inno, 1937
Salasoo, Nony, 1962
Salasoo, Silvia, 1962
Sale, John, 1961
Salmon, David Anthony, 1960
Samin, Alan George, 1964*
Samios, John Morris, 1958
Sampson, Robert William, 1963
Sams, Jeffrey, 1960
Sander, Christian, 1959
Sanger, Paul Louis, 1965*
Sastrosoenarto, Hartarto, 1959**
Saunders, Helen Anne, 1965
Saunders, Phillip Warwick, 1962
Scahill, Dianne Maria, 1962
Scaife, Peter Hansen, 1964**
Schaefcr, lan Francis, 1963
Schafer, William Grenville, 1960
Schaffner, Karl, 1963*
Schlenker, Barry Royce, 1962*
Schlesinger, Peter, 1965
Schmitzer, Brian Michael, 1961
Schofield, Philip John, 1960**
Schramko, Rodney Peter, 1965
Schwab, John, 1965**
Schwarzer, Neale, 1963
Schweinsberg, Paul Desmond, 1964
Scott, Frederick Henry, 1964
Scott, John Alistair, 1961
Scott, Thomas Charles, 1960
Sculley, Maxwell Patrick, 1965
Seah, Teow Puan, 1965
Sedgers, Neil Thomas, 1960

* Honours Class I
** Honours Class II

See, Brian Arthur, 1963
See, Graeme Thomas, 1955
See, John Bruce, 1965*
Selley, Ernest William, 1960
Seow, Kee Ying, 1963
Shanahan, Anthony Gregory, 1965
Shannon, William Patrick, 1964
Shapiro, Jacob Shemuel, 1962*
Sharkey, Ernest Stephen, 1957
Sharp, Alexander Malcolm, 1964
Sharp, John Howard, 1962*
Sharp, Judith Bentley, 1962
Sharry, Leo Francis, 1960
Shaw, Keith Hamilton, 1958
Shearer, Albert William, 1958
Sheargold, Leonard John, 1962
Shearsby, Geoffrey Winston, 1962
Sheather, Lloyd Henry, 1964
Sheedy, Peter Anthony, 1963
Sheehy, Patrick Francis, 1961
Shell, Graeme Stanley, 1964**
Sheppeard, Roger Sydney, 1964
Shepheard, William Alfred, 1964
Sherlock, Stuart Laurence, 1965
Sherwood, Rosalind Anne, 1964
Shiel, Ronald Keith, 1965
Shoebridge, Richard Arthur Leo, 1964***

Short, Colin Campbell, 1960
Shortland, John Willoughby, 1964
Shu, Hsing-Chuan, 1963
Shying, Michael Ezra, 1960**
Siagian, Manalsal Bonaparte, 1961
Sianipar, Linde Manahara, 1960
Siddins, Joseph Charles, 1957
Sietzema, Piet Bart, 1959
Sigley, George Leonard, 1963
Simmons, Terence Llewellyn, 1961***

Simon, Hermann Ernst, 1961**
Simpson, Colin Morris, 1962
Simpson, John Robert, 1960
Simpson, John William, 1962
Simpson, Robert Frank, 1964*
Simson, Roman Edward, 1959, 1962
Sinclair, Monica, 1962
Sirmai, John, 1964
Skelton, Graham Edwin, 1963

*** Honours Class III
BACHELORS OF SCIENCE—continued

Skelton, Lola Beverley, 1962
Skidmore, John Anthony, 1953**
Skidmore, John Barry, 1960
Skinner, Daryl Rodney, 1963
Skinner, David Henry, 1958
Skinner, John Norman, 1957**
Slarke, Bruce Edward, 1959
Slee, Owen Bruce, 1959*
Smart, Geoffrey Alan, 1961
Smartt, Raymond Newton, 1964***
Smith, Bryan Gilbert, 1961***
Smith, Edmund Otho, 1964
Smith, Harold James, 1958**
Smith, James Davidson, 1952**
Smith, Malcolm Bruce, 1956
Smith, Marion Joy, 1963
Smith, Maurice Edward, 1957
Smith, Michael, 1965*
Smith, Richard Murray, 1964
Smith, Ronald David, 1956
Smith, Sylvia Constance, 1961
Smithard, Ronald Reginald, 1962
Smythe, George Albert, 1965*
Smythe, Neville Francis, 1962†
Smythe, Timothy William, 1965*
Snape, Trevor Alfred, 1957
Snedden, Jeffrey Robert, 1964
Snelson, Neville Frank, 1965
Snowdon, Geoffrey Arthur, 1964
Sobb, Michael Vincent, 1964
Soeharsono, Har, 1960
Soekarno, Pudjadi, 1961
Soemarno, 1961
Soemitroadi, Bambang, 1960**
Soepardan, Hasim, 1962
Soeparman, Entol, 1960***
Soeparwadi, 1958
Sollich, Werner Andreas, 1960**
Solomon, David Henry, 1953**
Solomon, Harold Edward, 1964
Somers, Malcolm Leonard, 1958
Sonkkila, Gail Marie, 1964
Sorensen, Brian Henry, 1961
Souter, Thomas George, 1959
Sowerby, Brian David, 1964*
Sparkowski, Anatoli, 1963
Sparrow, Kenneth Gale, 1965*

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
Swan, Francis Joseph, 1964
Swan, Peter Matthew, 1962*
Swinbourne, Ellice Simmons, 1952*
Swinkels, Dominicus Adrianus
Johannes, 1960‡
Sylva, Ronald Noel, 1965"*
Symons, Douglas Ross, 1958**
Szumer, Adam Zygmunt, 1957*
Taggart, Diana Helen, 1962
Tai, Joseph Yau-Sing, 1961
Tait, John Russell, 1965*
Talbot, William Linton, 1962
Taloni, Augusto, 1964**
Talty, William Watson, 1958
Tan, Kim Chong, 1965
Tan, Sik Liang, 1961
Taylor, Alexander John, 1963
Taylor, Francis Joseph, 1957
Taylor, Peter Charles, 1958
Taylor, Robert Folster, 1959
Teague, Joanne Lisbeth, 1964
Telford, John Alexander, 1965
Teo, Chester, 1963
Thackray, Ian Hamilton, 1962
Thalassinos, Stavros, 1962
Thatcher, John David, 1965
Thatcher, Malcolm John, 1964
The, Kwat Ie, 1960
Thitchener, Dennis Henry, 1964
Thomas, Ellis Rodger, 1959
Thomas, John Clarence, 1960
Thomas, Philip Emlyn, 1962
Thomas, Robert John, 1962***
Thomas, Roderick William, 1964
Thomas, Terry Latham, 1964***
Thompson, Barry Edward, 1959**
Thompson, Colin John, 1962†
Thompson, Graham Ward, 1965**
Thompson, Raymond George, 1956
Thompson, Richard Lawrence, 1960
Thompson, Robert Ian, 1965
Thomson, Joseph Alexander, 1959
Thomson, William, 1964
Thomson, William Kenneth, 1961
Thorburn, Trevor John, 1958
Thornley, Robin Crystal, 1963
Thurling, Brian Leslie, 1965
Thurstan, Edward Gray, 1962
* Honours Class I   ** Honours Class II
Thurston, John Robert, 1962
Tibbles, Stanley Raymond, 1959
Ticehurst, Gregory William, 1965
Tille, John Joseph, 1963**
Tindale, Brian Earl, 1957
Tinsley, David Alfred, 1964
Tobin, Denis Paul, 1962**
Todd, Donald Douglas, 1961
Toohunter, John William, 1957
Toh, Kok Wah, 1961
Torzillo, Rex Louis, 1956
Towle, Alan Norman, 1965
Trainor, Kevin Eugene, 1964
Travers, John Ralph, 1963
Trelor, Ernest Edgar, 1964
Tremain, Jeffrey Edward, 1962**
Trotter, Peter George, 1965**
Tschoegl, Nicholas William, 1954**
Tuberg, Harry, 1959
Tuddenham, Ronald Frederick, 1959†
Tudehope, Brian John Stevens, 1965
Tulloch, John Norman, 1965
Tuohy, Leonard John, 1963
Tye, Marea Carolyn, 1962
Udomsakdhi, Bancha, 1957
Uhrig, John Allan, 1958
Underwood, James, 1964**
Upjohn, Robert George, 1954
Upton, David Edward, 1963
Urane, David, 1959
Vagg, Robert Sylvester, 1965
Vail, Noel Walter, 1957
Vallance, Adam Anthony John, 1959
Van der Poorten, Alfred Jacobus, 1965†
Van Dooren, Paul Henri, 1961
Van Es, Alan Richard, 1965
Van Oostrom Soede, John Karel, 1963
Vaughan, Barrington Maxwell, 1964
Venczel, Ernest Desiderius, 1964
Vickers, James Frankland, 1961
Vilensky, Leo David, 1961***
Vine, Tim, 1965
Vogt, Viktor, 1963
Volegov, Basil, 1964
Wadds, Elizabeth Mary, 1962**
Wade, Kenneth John, 1965
*** Honours Class III   † University Medal
Wagland, Barry Maxwell, 1960
Wailes, Frederick Brian, 1965**
Walker, Alan John, 1957
Walker, Lloyd Herbert, 1958
Walker, Richard Michael, 1965
Wall, Geoffrey Craig, 1954**
Wallace, William James, 1965
Wallis, Donald Clarke, 1961
Wallis, Douglas Malcolm, 1965
Wallwork, Greig Richard, 1956
Walpole, Ernest Allan, 1953**
Walter, Geoffrey William, 1964
Walsho, Judith Anne, 1960
Wan, Kwok Tai, 1963
Warby, John Robert, 1961
Ward, Colin Wesley, 1965†
Ward, David Jock, 1964*
Ward, Lynette Alice, 1963
Ward, Peter Andrew, 1963
Ward, Robert James, 1964
Ware, James William, 1961
Warner, Noel Alfred, 1953*
Warner, Ronald Kenneth, 1952†
Warren, Timothy James Howden, 1961
Waters, Maurine Ann, 1963
Waters, Naomi Anne, 1965
Watson, Brian Philip, 1961
Watson, Ian Russell, 1961
Watton, Edward Charlton, 1957*
Watts, John Bourne, 1964*
Waugh, Clyde Todhunter, 1957
Waygood, Evelyn Gerhild, 1965
Wearn, Berris Rodner, 1957
Webb, Geoffrey Archibald, 1961
Webster, Alexander MacDonald, 1956
Webster, Robert Brian, 1960
Weeden, Douglas George, 1962
Weir, William Anthony John, 1964
Weiss, Paul William, 1961*
Welbourne, Christopher Thomas, 1964
Wells, Robert Arthur, 1962
Werner, Ronald Louis, 1952†
Whan, Robert Bruce, 1959**
Wheatley, Ian Starr, 1960
Wheelahan, Bernard, 1961
Wheeler, Ramsey Moore, 1958*
Whiddon, Fredrick Ross, 1956
Whight, Patrick Raff, 1965
Whitaker, John Malcolm, 1964
Whitby, David John, 1961
White, John Lawson, 1961
White, Maxwell Alexander, 1963**
White, Warren James, 1962
Whitehouse, John McCathie, 1964**
Whitely, Kenneth James, 1955†
Whitfield, David, 1956
Whitfield, Frank Brionteley, 1958*
Whittaker, John Douglas, 1963
Wickham, Douglas, 1961
Wiggins, Bruce, 1961
Wilcox, Ronald Walter, 1964
Wild, John David, 1961*
Wild, Stanley Bruce, 1964*
Wiley, James Alfred, 1965
Wilkinson, Kevin Edward, 1964
Willcox, Donald Roderick, 1965**
Williams, Barry Edgar, 1958
Williams, David Roland, 1961
Williams, Eric Joseph, 1955
Williams, Gerard, 1965
Williams, John Russell, 1963
Williams, Lloyd, 1958
Williams, Warwick Raimond, 1965
Williamson, Elaine Frances, 1963
Willis, Colin George, 1964
Wilmot, Frederick Richard Hiatt, 1964
Wilson, Barrie Alexander, 1962**
Wilson, Brian Gerard, 1963
Wilson, Colin Joseph, 1960
Wilson, Derek John, 1963
Wilson, Donald William, 1960***
Wilson, Douglas Harold, 1956**
Wilson, Robert Edward, 1961
Wilson, Tasman Ian, 1963
Wilson, William Richard, 1964
Wiltshire, Neville Duncan, 1961
Winc, Alfred William, 1965
Wingrove, Alan Lionel, 1965
Withers, Michael Keys, 1960
Wolfe, Anthony, 1964
Wolfenden, Jack, 1953**
Wong, Ching Lien, 1961
Wong, Pak Kuen, 1963
* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
APPENDIX 2

BACHELORS OF SCIENCE—continued

Wong, Reginald James, 1963
Woo, Lee Yong, 1965
Wood, David Graham, 1960**
Woodcroft, Donald Arthur, 1965
Woodland, Leslie Keith, 1962***
Woodley, Leslie James, 1964
Woodward, Roger Thomas, 1964
Woolley, Edwin Price, 1959
Worner, Colin Murray, 1965
Worrall, Robert Grant, 1958
Worswick, Barry James, 1964
Worthington, Carol Ann, 1965***
Wrench, Maxwell Cleeve, 1959
Wright, Allan, 1965
Wright, Janice, 1963
Wright, Roddam Knyvet, 1962
Wright, Warren Douglas, 1961
Wright, William James, 1955
Wrighter, Edward Martin, 1962
Wyatt, Graeme Keith, 1959
Wunderlich, Frank Bryan, 1962
Yap, Tung Buan, 1965
Yardley, Ronald Harley, 1965*
Yarrington, Karl George, 1961
Yee, Allan, 1964
Yee, John Juneyih, 1963
Yee, Samuel Wing Cheung, 1959
Yeo, Loy Meng, 1965
Yeung, Victor Ming Tak, 1965
Young, Brian Charles, 1963†
Young, Donald Charles, 1961***
Zainal, 1962
Zaki, Mahmud, 1959
Zantiotis, Steve, 1961
Zarb, Joseph Mario, 1965
Zee, Richard, 1965

BACHELORS OF SCIENCE (MEDICINE)

Isbister, James Paton, 1965*
Mok, Henry Yue Ju, 1965*

BACHELORS OF SCIENCE (OPTOMETRICAL SCIENCE)

Amigo, George, 1956†
Asgar, Asad Ali, 1957**
Bennett, Norman Boutflower, 1957
Bromley, John Thomas, 1956**
Brown, Colin Robert, 1956†
Cleworth, Richard Henry, 1958
Fulthorpe, Neville Alfred, 1957**
Harvey, Kelvin Richard, 1957**
Herbert, Kenneth Cyril Royston, 1958
Layland, Brian, 1958
Micheletti, Peter Albert, 1958
Pedersen, Melville Roy, 1957
Ryman, Leslie Alfred, 1957
Simpson, John Arthur, 1957
Thomas, Penrhyn Francis, 1957
Tucker, Jeffrey Ernest, 1957
Walker, Burnett Fenwick, 1957
Webb, Jack Barrie, 1957
Williams, Owen Ashley, 1956

BACHELORS OF SCIENCE (TECHNOLOGY)

Abel, John Geoffrey, 1964
Alcock, William Angus, 1965
Alleyn, Anthony George, 1963
Anderson, Donald Murray, 1964
Andrews, Ernest William, 1964
Avery, Ronald George, 1964
Barclay, Allen Robert, 1964
Barker, John Murray, 1965
Beard, Geoffrey Edward, 1964
Bezminien, Jan, 1965

* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
BACHELORS OF SCIENCE (TECHNOLOGY)—continued

Bhai, Elias, 1963
Binskin, Leonard Henry, 1965
Blair, Charles Anthony, 1964
Boland, Anthony Peter, 1964
Booth, John Clifford, 1963
Braddock, Donald Alexander, 1964
Brandis, Christopher Charles Pascall, 1965
Brooks, John William, 1964
Broughton, David Thomas, 1965
Brown, Warren David, 1965
Bruveris, Inars, 1963
Buchanan, James Alex, 1965
Budinsky, Allan Robert, 1964
Butcher, John Powell, 1965
Byrne, Nevil Ernest, 1965
Byrnes, Kerry Michael, 1965
Cahill, Frank, 1963
Camac, Stuart, 1964
Carr, Robert Anthony, 1964
Chapman, Thomas Mervyn, 1964
Charlesworth, James Lisle, 1964
Chiang, James, 1964
Condon, Warwick Arthur, 1964
Connaughton, Robin Douglas, 1965
Cooper, Rodney John, 1965
Corin, Phillip John, 1964
Cornell, Roy Edward, 1965
Cornford, Donald James, 1964
Coughlin, Robert Charles, 1964
Crawford, Bruce William, 1965
Davis, Edwin Thomas, 1964
Dawe, Hilton Edythean, 1963
Dennis, John Joseph, 1965
Denney, Ian Windsor, 1965
Devine, John Thomas, 1964
Dorber, Geoffrey Martin, 1964
Dorien-Brown, Barry, 1964
Douglas, John Ellis, 1964
Downie, Sidney William Edwin, 1965
Dransfield, Stanley Baden, 1965
Dunkley, Kenneth Graeme, 1963
Dusting, Ronald Albert Stanley, 1963
Dymet, Adolf, 1964
Eckett, Philip Graham, 1963
Edwards, Paul Lindsay Clarence, 1963
Eiler, Henry George, 1964
Elliot, Maxwell John, 1964
Erdstein, Arthur, 1964
Evans, Roger Frederick Kingston, 1964
Fabok, Miloslav Michal, 1963
Filewood, George Raymond, 1964
Fish, John Douglas, 1964
Fisher, Graham Norman, 1965
Franchimon, Charles Colet, 1965
Fraser, Robert Alexander, 1964
Freijs, Juris, 1963
Furney, William Sydney, 1965
Gabbott, Stephen Leonard, 1964
Geier, Alois Zoro Vjeckslav, 1965
George, Terence John, 1965
Gibson, Bruce, 1963
Gibson, Terrence George, 1965
Gray, Roger Barry, 1964
Griffiths, Anthony Vincent, 1964
Griffiths, Robert Rainford, 1962
Haetsch, Anthony Peter, 1964
Hancock, Thomas Neil, 1965
Harper, John Charles, 1964
Harradence, Ronald William, 1965
Harris, John Alfred, 1965
Harrison, Keith James, 1965
Hattersley, John Bruce, 1963
Hazel, Robert Cecil, 1964
Heimann, Douglas Graham, 1963
Hine, Richard John, 1965
Hodges, David Alexander, 1965
Hoffman, Alan James, 1964
Holland, Anthony John, 1965
Hollingsworth, James Melville, 1964
Horne, Warwick John, 1965
Hornery, Stuart Gordon, 1964
Ivanoff, Valery, 1964
Ives, Michael Herbert, 1963
James, Michael Alan, 1964
Jenkinson, Bruce Ian, 1964
Johnston, Graham Herbert, 1963
Jones, Edward Arthur, 1964
Kinch, Michael Allen, 1964
Kirwan, Anthony Paul, 1964
Kovari, John, 1965
Kupke, Dale Reginald, 1964
Kwei, Gibson Chi-Shun, 1964
Lamond, Tony Wilfred, 1965
Last, Reinder, 1965
APPENDIX 2

BACHELORS OF SCIENCE (TECHNOLOGY)—continued

Laudams-Gulbis, Aksels, 1965
Lawson, Raymond, 1965
Layton, Thomas Martin, 1965
Lean, Knowles Lovick, 1964
Le Bas, David Heber, 1964
Lindsay, Vincent John, 1965
Lo, Paul, 1965
Locke, Edward Francis, 1963
Lumley, Thomas Geoffrey, 1965
Lynch, Keith Stanton, 1965
Lyon, Clifton James, 1965
Mackie, Graham Lawrence, 1964
Maclavish, Alan Edward, 1965
Magisztrak, Istvan, 1965
Martin, John Owen, 1965
McGowan, Kenneth William, 1964
McMillan, Peter John, 1964
Meany, David William, 1964
Melville, Colin John, 1963
Munday, Donald John, 1965
Murray, Frank, 1965
Neal, Ashley Noel, 1964
Newman, Edward Lawrence, 1964
Newman, Ronald Charles, 1963
Nicey, Kevin Richard, 1965
Nicholson, Kenneth, 1963
Nyholm, Eric Edward, 1965
Oakley, Robert Maxwell Lyton, 1964
Olds, Ronald Keith, 1965
O'Leary, Michael Anthony, 1963
Oramas, David William, 1964
Pace, Francis George, 1965
Pedersen, Ronald James, 1963
Pellow, Arthur, 1964
Perry, John Harold, 1964
Phelps, Ross Leslie, 1964
Phillips, David James, 1964
Pitt, John Charles, 1963
Pittman, Peter Frank, 1964
Podzelenko, Eugen, 1963
Powell, Brian Leslie, 1964
Powell, Ronald Michael, 1965
Psillakis, George, 1964
Renneberg, Peter Michael, 1964
Richardson, George Stanley, 1965
Roberts, Alan Frederick, 1964
Robinson, Adrian John, 1964
Rolfe, Austin Parma, 1965
Romberg, Thomas Michael, 1964
Ross, Noel Arthur, 1965
Rowe, Jamieson, 1963
Rowe, Terence Seymour, 1964
Schrader, Kevin Hugh, 1965
Sheaves, Trevor Brian, 1965
Sherlock, Brian Leonard, 1963
Sidaway, Donald Henry, 1963
Slattery, Peter William, 1965
Smith, Alexander Keith, 1964
Smith, Desmond Charles, 1962
Spence, John Lawrence, 1965
Spence, William John, 1964
Spicer, Edmund John, 1963
Steege, Brian Eric, 1965
Street, Ronald Philip, 1964
Stewart, William Harvey, 1965
Sutton, John Garry, 1963
Tan, Hock Hoe, 1964
Tang, Henry Shun Hang, 1964
Tencate, Pieter William, 1965
Thomson, Peter John, 1965
Thorpe, Brian Anthony, 1963
Timms, Robert Wilson, 1965
Titmuss, Keith William, 1963
Tomkins, Clive Lindsay, 1963
Toms, John Stafford, 1964
Townes, John Graeme, 1964
Tregarthen, Hugh Manning, 1964
Tregoning, Bryan Robert, 1965
Trevallion, Ronald Alexander
    George, 1965
Waghorn, Graham Harry, 1964
Waldon, Laurence Alfred Eugene, 1965
Walker, Ronald Jack, 1963
Wallace, Peter Leslie, 1965
Walton, Robin Leslie Arthur, 1965
Watt, Craig John, 1965
Watts, Keith Leslie Arthur, 1965
Weaver, David Anthony, 1965
Webb, Robert Lawrence, 1963
Webb, Sydney Richardson, 1965
Weine, Philip Henry, 1964
Wilson, Peter Anthony, 1964
Wood, Eric Roland, 1965
Woropinski, Janusz Piotr, 1963
Wyatt, William John, 1965

§ Deceased
BACHELORS OF SCIENCE (TECHNOLOGY)—continued

Yoole, John, 1965
Young, Basil, 1963
Ziviani, Silvano, 1965

BACHELORS OF SURVEYING

Allman, John Stuart, 1962
Anderson, Peter Warner, 1965**
Bebb, Geoffrey, 1964
Benjamin, Ronald Thomas James, 1962
Bowden, John, 1963
Burrell, William Hales, 1963***
Canty, Robert Edward, 1965**
Carpenter, Glynndwr, 1965
Chambers, Ernest Arthur, 1965
Chudleigh, David Charles, 1964
Clentsmith, Bruce Gordon Kenneth, 1965
Curtis, James Thomas, 1963
Dive, William James Clouston, 1963
Gray, Malcolm Louis, 1965
Hammond, Kenneth John, 1963
Hudson, Stephen Trevor, 1965*
Hunt, James Newman, 1965
Hutton, Ian, 1965
Johnston, Douglas McLeod, 1965
Karl, Heinz, 1965
Kearsley, Arthur Harry William, 1963
Kent, Brian, 1962
Lambeck, Kurt, 1963†
Leet, Norman Thomas, 1964
Lovell, Jeffrey Douglas, 1965
Lyons, Kenneth James, 1965**
McDonald, Donald Charles, 1963
Newnham Gregory Joseph, 1965
Oliver, Laurence George, 1965
Purdy, Donald Hugh, 1964
Robinson, Anthony John, 1962**
Sheaves, David James, 1962**
Smythe, Allan Edwin, 1965
Stolz, Artur, 1963**
Toft, Graham Simco, 1964**
Trinder, John Charles, 1963**

DIPLOMATES

DIPLOMA IN APPLIED SCIENCE

Aceituno, Julio Cesar Ramirez, 1963
Adkins, George Earl, 1964
Corbett, Robert Knowles, 1964
Craig, James Douglas, 1965
Danilas, Mohamad, 1963
Ho, Sai Ngo, 1963
Karihaloo, Autar Krishen, 1963
Meades, Robert Henry, 1964
Oshea, John Martin, 1965
Stitt, Peter Henry, 1965

DIPLOMA IN EDUCATION

Addison, Kerry Joan, 1965
Akre, Thomas, 1961
Allen, Stanley, 1964
Alley, Leigh, 1963
Andrews, Allen Raymond, 1961
Archer, John Malcolm, 1965
Atherton, John Raymond, 1961
Baldwin, Marie Rose, 1962
Balks, Denise Elaine, 1965
Banfield, Brian Melville, 1963
* Honours Class I  ** Honours Class II  *** Honours Class III  † University Medal
APPENDIX 2

DIPLOMA IN EDUCATION—continued

Belford, Irene Janice, 1962
Bennett, Norman Ross, 1964
Bohringer, Jeanette Marjorie, 1965
Bowe, Annette Marjorie, 1961
Broadbent, Patricia, 1965
Brown, Brian Joseph, 1960
Brown, Doreen Bronwyn, 1962
Brown, Eileen Barbara, 1964
Brown, Marian Elsbeth, 1961
Burns, Colin Cousins, 1965
Buxton, Ann, 1965
Caddy, Joanne Mary, 1965
Caldwell, John Archibald Wayne, 1963
Callen, Marie Bernadette, 1963
Callen, Mary, 1961
Camden, Jacqueline Rose, 1964
Caskey, Sandra Clare, 1962
Charker, Hilary Ethel, 1960
Coleborne, Ian William, 1963
Collins, Robert Franklin, 1964
Collits, Terence John, 1962
Comerford, Mabel Mary, 1964
Crobie, Maureen Alicia, 1965
Crothal, Marion Mildred, 1962
Cummings, Lois, 1965
Dan, Victoria, 1964
Danks, Paul Anthony, 1965
Davidson, Harry Robertson, 1961
Davies, Judith Ann, 1961
Dibley, Pamela Joy, 1964
Dick, Mary Carmel, 1962
Dornan, Lynn Alexander, 1965
Dreise, Peter William, 1963
Ellicott, Robyn Ann, 1960
Ellis, Kenneth John, 1960
Ferrett, Ruth Lorraine, 1963
Fisher, Darrell Graeme, 1964
Garner, Robyne Georgina, 1960
Geyer, Robert John, 1965
Gibbs, Rodney Allan Stewart, 1965
Gilbert, Wendy Renee, 1963
Goodwin, Brian Thomas, 1964
Green, John Michael, 1965
Green, Pamela Anne, 1963
Greenland, Samuel Osborne, 1964
Haberl, Othon, 1965
Harvey, Ruth Bonita, 1964
Hill, John Francis, 1960
Hinde, John Gordon, 1960
Holden, Colin Anthony, 1963
Holmes, Rae June, 1965
Holt, John Michael, 1963
Hughes, Jannese Elizabeth, 1965
Hughes, Susan Lesley, 1965
Humphreys, Janice Lily, 1961
Hunter, Robert, 1964
Jarrett, Arline Narelle, 1964
Jeffery, Ann Margaret, 1963
Johns, Richard, 1965
Jonas, William James Albert, 1964
Jones, Judith Anne, 1965
Kerr, Patricia Margaret, 1965
Kinder, Josephine Kate, 1964
Knott, Pamela Dorothy, 1965
Korevaar, Teunis Jan Geerit, 1965
Kraemer, Yvonne, 1961
Lance, Robyn Margaret, 1965
Leigh, Ronald Maurice, 1960
Linnertson, Hazel Anne, 1965
Lizdenis, Violeta Joan, 1965
Lydiaard, Kathryn Rose, 1965
Lynch, Beverley Anne, 1965
MacDonald, Heather Jean, 1963
Macrae, Ann, 1965
Manser, Beverley Anne, 1963
Marjoribanks, Kevin McLeod, 1960
Markham, Maureen, 1961
Mathieson, Wendy Laraine, 1964
Maughan, Elizabeth Narelle, 1963
McDermott, Margaret Estelle, 1960
McGregor, Allan Bruce, 1961
McHugh, Eileen, 1960
McMahon, John David, 1960
McMahon, Loretta Margaret, 1964
McMahon, Patricia Ann, 1962
McNamara, Maree Margaret, 1963
Meyers, Lorraine Edna, 1964
Milgate, Shirley Anne, 1965
Mitchell, Paul Michael, 1964
Moore, Patricia Ann, 1965
Mudford, William John, 1965
Muir, Anne Caroline, 1963
Murray, Cynthia Robin, 1964
Murray, Wendy, 1963
Neville, Denise Marie, 1962
DIPLOMATES OF THE UNIVERSITY

DIPLOMA IN EDUCATION—continued

Nolan, Raymond John, 1964
O’Neill, Michael John, 1964
Opitz, Valerie Therese, 1964
Palmer, Bruce Stewart, 1964
Papworth, Phillip Gary, 1965
Pascoe, Margaret, 1963
Pearse, Geraldine Elizabeth, 1961
Penfold, Judith Lorraine, 1963
Petherbridge, Robert Joseph, 1963
Plumridge, Margaret Ann, 1964
Powell, Anne Geraldine, 1965
Proctor, Brian John, 1962
Quinn, John Michael, 1960
Radford, Barbara, 1964
Rapp, Darcy Leon, 1964
Rice, Helen Josephine, 1961
Rigby, Harold John, 1960
Robinson, John McKay, 1961
Rogers, Judith Anne, 1964
Rolfe, Kay, 1962
Ross, Margaret Mary, 1963
Rowe, Frances Mary, 1963
Rudman, Mary Vanessa, 1965
Rummary, Mary Elizabeth, 1963
Russell, Yvonne, 1962
Sams, Gwenda Rosemary, 1964
Sharman, Carole Jean, 1964
Simpson, John William, 1963
Sinclair, Harry Thomas, 1965
Smith, Patricia Margaret, 1964
Sommerville, Sharon Margaret, 1965
Stewart, Robert George, 1963
Stock, Roslyn Louise, 1963
Symes, Eileen Jill, 1961
Taylor, Joan, 1965
Temple, Kathleen Francis, 1962
Thomson, Philip John, 1963
Thornley, Robin Crystal, 1964
Thurgar, Penelope Anne, 1965
Thursby, Christine Helen, 1965
Tye, Marea Carolyn, 1963
Van der Veen, Theo Tiete Foppe, 1965
Wallace, Katherine Susan, 1963
Walmsley, Maree Louise, 1965
Waterhouse, Annabel, 1962
West, Trevor Frederick, 1965
Wilcox, Ronald Walter, 1965
Wilson, Judith Margery Jane, 1962
Woolley, Janice Anne, 1963
Wright, Janice, 1964
Youngman, John Howard, 1965

DIPLOMA IN FOOD TECHNOLOGY

Barlahan, Asuncion, 1962
el Khidir, Omar Hag, 1961

Salon, Dionisio, 1962

DIPLOMA IN FOOD AND DRUG ANALYSIS

Black, William Hector, 1963
Brady, Milton Neil, 1963

Parke, Malcolm, 1963
APPENDIX 2

DIPLOMA IN HIGHWAY ENGINEERING

Capper, Kelvin Victor, 1962
Chow, Hoy Cheng, 1963
Cranston, Robert Francis, 1962
Gomez, Alexius Joseph, 1964
Gorbunhow, Nicholas, 1963
Hartman, John Albert, 1963
Keirnan, Warwick Robert, 1963
Leckey, Brian William, 1965
Leong, Harry Jung Wing, 1964
Loomes, Rodney Thomas, 1963
McIntosh, Maurice Malcolm, 1962
Minano, Alfredo, 1961
O’Neile, Bryce Mervyn, 1962
Riding, Kenneth Wilmot, 1965
Rose, Reginald Arthur, 1962
Secco, Gaetano Nino, 1964
Sheffield, Donald Herbert, 1963
Siew, Ngai Hoon, 1962
Thomas, David Ross Melville, 1962

DIPLOMA IN INDUSTRIAL ENGINEERING

Arunachalam, Pollachi Kandaswamy, 1964
Boyling, Warwick Francis, 1963
Bradley, Geoffrey Allen, 1964
Buckler, Emil, 1964
Campbell, Colin Douglas, 1963
Chambers, Norman Stanley, 1964
Charan, Ram, 1963
Clayden, Roger, 1965
Clayton, Peter Charles, 1965
Collins, Robert William, 1965
Cooper, Norman, 1964
Dadd, Gordon Hugh, 1965
Ehrenburg, Jacobus, 1963
Farrell, Neville Bruce, 1963
Fisher, Philip, 1964
Foreman, Barry Lewis, 1965
Garnsey, Raymond, 1965
Gebler, John Wesby, 1965
Goodridge, Daniel, 1964
Harrison, Barry Leigh, 1965
Hart, James Robert, 1965
Hing, Colin Raymond, 1963
Irving, Alasdair John MacDonald, 1963
Jamieson, Peter Norman, 1965
Jeffries, James, 1964
Jobling, Ralph, 1964
Johnston, Andrew Gordon, 1964
Jones, Thomas Alwyn, 1963
King, John George, 1964
Lambert, Louis John, 1963
Lamond, Maxwell James, 1963
Lane, David John, 1964
Lee, Frederick Thomas, 1963
Mateo, Amado San, 1965
McCauhtrie, Glen Allan, 1965
Minter, Michael Mervyn, 1965
Moor, Beresford Christopher, 1963
O’Donnell, Daniel, 1965
Parkinson, Lindsay Andrew, 1963
Parle, Dennis Charles James, 1963
Pinnington, Reginald Henry, 1964
Prithviraj, Bollini, 1963
Rodrigues, Ronald Bryan, 1964
Rudd, James William, 1963
Selley, Ernest William, 1963
Shaukat, Syed Mahmood, 1965
Spence, Ian Keith, 1964
Surplice, Ian Alexander, 1965
Van Wensveen, Jacobus Cornelis Petrus, 1963
Wallis, Donald Clarke, 1964
Wheeler, Maxwell John, 1964
Wiadrowski, Ian Barrie, 1964
Wilkie, Allan Edward, 1964
Wood, David Graham, 1965
DIPLOMATES OF THE UNIVERSITY

DIPLOMA IN LIBRARIANSHIP

Aboud, Winsome, 1965
Affleck, Jennifer Linsley, 1965
Alojipan, Carmencita Alonsagay, 1962
Amm, Jennifer Ann, 1964
Anderson, Jane Doris, 1963
Anstee, Cecily Anne, 1962
Ashley, Joan Bernice, 1964
Bashford, Alistair, 1965
Benson, Margery Anne, 1964
Bevan, Shirley Karin, 1965
Bradley, Anthony John, 1964
Bryan, San Mary, 1964
Budavari, Alajos Istvan, 1964
Burrows, Rita Jean, 1965
Calder, Olga Elspeth, 1965
Clinch, Margaret Anna, 1963
Comino, Anne, 1964
Cooper, Barbara June, 1964
Courtney, Elizabeth Anne, 1962
Davis, Consett Leonard Rodway, 1964
De'Sigmond, Kornel Tivadar, 1964
Devid, Sandra Patricia, 1964
Dowe, Dorothy Rosemarie, 1964
Eccles, Alice Catherine, 1965
Economus, Helen Marie, 1964
Enderby, Ann Mary, 1965
Everett, Muriel Ruth, 1964
Franki, George Thomas, 1965
Giles, Enid Estelle, 1965
Goldfinch, Leslie Kristin MacArthur, 1964
Goldstein, Fran Robyn, 1964
Gray, John Leigh, 1965
Green, Pamela Winifrid, 1963
Groenewegen, Hans Walter, 1964
Gurr, Margaret Eleanor, 1962
Haenke, Janice Helen, 1965
Hall, Vivien Helen, 1965
Hardy, Roslyn Gathorne, 1964
Harris, Judith, 1965
Hartigan, Margaret Mary, 1964
Howarth, Peter Jack, 1965
Haydon, Patricia Bloomfield, 1962
Heagney, Brenda, 1964
Ho, Olivia Oi Kwan, 1964
Hogue, Mary Barbour, 1964
Holland, John Hadfield, 1965
Holm, Ann Maria, 1965
Holster, Alison May, 1963
Howarth, Peter Jack, 1965
Hughes, Leone Munro, 1965
Hutchins, Andrew James, 1964
Järvi, Aet, 1962
Jossek, Frances, 1964
Kaljee, Ruth, 1964
Kee, Nai Mee, 1963
Kimber, Jennifer, 1964
Koo, Ethel Yung-ti, 1965
Kosa, Geza Attila, 1965
Kyi, Tin Aye, 1964
Leenox, Wendy Lynette, 1965
Levine, Helen, 1965
Levings, Pamela May, 1963
Lim, Edward Huck Tee, 1963
Lowe, John Robert, 1964
Marsh, Marilyn Gai, 1965
Mason, Claire Therese, 1963
Mather, Frances, 1965
McBain, Drummond William George, 1965
McGrath, Lawrence Henry, 1964
McIntyre, Joanna Elizabeth, 1964
McPherson, Morna Elizabeth, 1965
Mellor, Anne Winifred, 1964
Miller, Ann Elizabeth, 1964
Moalem, Louise, 1964
Moore, Rhonda Dorothea, 1962
Morgan, Margaret Jean, 1964
Morison, Gael, 1962
Naylor, Pamela, 1962
Ng, Philomena Soo Ching, 1965
Oakenfold, Jean, 1964
Oo, U Tin, 1964
Outteridge, Gwen, 1964
Over, Joan Patricia, 1965
Page, Marina, 1962
Parkhill, Deirdre Mary, 1964
Pate, Joyce Barry, 1964
Prowse, Dawn Gweneath, 1965
Radi, Heather Joan, 1964
Ragg, Dora Petrie, 1964
Rayward, Warden Boyd, 1964
Read, Penelope Antill, 1964
Reid, Susan Frances, 1965
Roberts, Mererid, 1965
APPENDIX 2

DIPLOMA IN LIBRARIANSHIP—continued

Robertson, Anne Margaret, 1962
Ronai, Mary Julianne, 1963
Rustemeyer, Margaret Ann, 1964
Seeto, Fannie Kam Yun, 1963
Sellers, Jennifer Ann, 1963
Shaw, Jill Douglas, 1964
Shearman, Alan George, 1963
Shilling, Barbara Margaret Wolzendorff, 1964
Simpson, Sheila Robertson, 1963
Somerville, Marilynne Rewa, 1962
Stead, Dorothy Anne, 1965
Tamblyn, Adrienne Mary, 1964
Taylor, Lindley Bryson, 1964
Thompson, Pamela Marie, 1965
Trask, Margaret, 1965
Truebridge, Jean Elizabeth, 1964
Tucker, Janice Lorraine, 1964
Vaughan, John, 1964
Walker, Alan John, 1965
Wallace, Ann Maria, 1964
Whitehead, Roberta Seymour, 1964
Williams, Gaenor Anne, 1965
Wilson, Susan, 1964
Woods, Julian Philip Mather, 1964
Wunderlich, Susan Lee Cohen, 1964

DIPLOMA IN SOCIOLOGY

Adams, Virginia Lei, 1965
Bentley, Charmian, 1965
Bradwell, Lorna Frances, 1964
Dare, Graham Solomon, 1965
Gosden, Sylvia Dorothy, 1965
Hayes, Francis Daniel, 1963
Hunt, Ellis Pickering, 1964
Keller, John Augustine, 1963
Nash, Christine, 1965
Ridings, Pamela Sue, 1965
Van Exter, Tineke, 1965
Vinson, Phillip Anthony, 1963
Webb, Richard Henry, 1965
White, Anthony Harold, 1964
Yeomans, Neville Thomas, 1963
REPORT OF THE COUNCIL OF THE UNIVERSITY OF NEW SOUTH WALES

For the year ended 31st December, 1964

The Council of the University of New South Wales, as required by section 47 (1) of the Technical Education and University of New South Wales Act, 1949-61, has the honour to transmit to the Minister for Education the following report upon the proceedings of the University during the period of twelve months ended 31st December, 1964.

Introduction

Last year's Report reviewed the achievements of the University in the six years following the Report of the Committee on Australian Universities (the Murray Report). In this, the first year of a new triennium (1964-6), it is appropriate not only to record the events of the past year, but also to look forward to some of the possibilities of future development.

In 1964 total enrolments increased to approximately 11,000, an increase over 1963 of 1,100 or 11%. Next year there will be a slight, if temporary, recession when the figures for Newcastle, which will have been granted autonomy, will no longer be included. Full-time enrolments increased from 4,023 in 1963 to 4,996 in 1964, part-time enrolments from 5,800 to 5,929, thus maintaining the trend to a proportionately larger increase in full-time than in part-time enrolments. There were 697 higher degree students.

In six faculties the University was able to accept all qualified students seeking enrolment. In Medicine the problem mentioned in last year's Report persists: a shortage of places in the teaching hospitals continues to restrict the number of enrolments which can be accepted in the pre-clinical years. It was thought that it might also be necessary to restrict the intake of students into Architecture, but in the event it was possible to accept all qualified students wishing to enrol, although only by diverting a number of intending full-time students into part-time courses.

An additional building for Architecture, to be constructed on the lower campus, is expected to be brought into use during the 1967 Academic Year. This, and the spectacular building programme which is being put into effect on the upper campus, where Library, Chancellery, Arts/Mathematics and Commerce buildings are being erected, should preclude accommodation problems after 1967 in six of the seven faculties, although the situation in Medicine is more intractable. Council regrets that full use cannot be made of the School of Medicine, which
was built at great cost to the community. Indeed, the facilities of this School cannot, in the present circumstances, be used to even half capacity due to the shortage of teaching hospital capacity.

Apart from the establishment of the University Colleges at Newcastle and Wollongong and the Division at Broken Hill, the University has carried its work into many different areas of the State through the activities of the School of Wool Technology, the Institute of Rural Technology and the Water Research Laboratory. An impediment to these activities was the fact that the University did not own any site in a rural district which could be utilized for research. In 1964, however, the State Government, through its Department of Lands, made available to the University an area of some 600 acres at Wellington, which will lend itself to research work by staff and students in a number of disciplines.

The University has been asked by the Bar Association and the Law Society to establish a law school, these two professional bodies believing that present and future demands for legal education call for two law schools in Sydney. During the year the Council established a Faculty of Law in the University and, at the same time, set up a Faculty of Law Committee to draw up a programme for the establishment of a law school, including such details as staff, accommodation and curriculum. The Committee includes representatives of the Bar Council and the Law Society and other members of the legal profession. It is the Council’s intention that the second law school should be brought into existence when the Government gives support to the proposal.

The Council

In 1964 the Council held five ordinary meetings and six special meetings.

On 28th April, 1964, the Legislative Assembly adopted a resolution re-electing the Honourable J. J. Maloney, M.L.C. as the member of Council representing the Legislative Council, and on 29th April, 1964, His Excellency the Governor re-appointed him as a member of Council.

It was a matter of regret to Council that owing to ill health Professor Sir Lorimer Dods found it necessary to resign in July, 1964. Dr. Richmond Jeremy, M.B., Ch.M., F.R.C.P. (Lond.), F.R.A.C.P. was appointed to Council to fill the vacant position.

In 1964, the various Committees of Council held the following meetings:

- Executive Committee .... .... .... .... 12
- Finance Sub-Committee .... .... .... 11
- Personnel Sub-Committee .... .... .... 11
- Academic Committee .... .... .... .... 5
- Buildings and Equipment Committee .... .... .... 6
- Public Relations Committee .... .... .... 3
- Student Affairs Committee .... .... .... 5
To facilitate the transaction of urgent business a combined meeting was also held of the Finance Sub-Committee of the Executive Committee and the Buildings and Equipment Committee of Council.

Inaugural Wallace Wurth Memorial Lecture

On 28th August, 1964, the Right Honourable the Prime Minister, Sir Robert Menzies, who last visited the University in 1957, delivered the Inaugural Wallace Wurth Memorial Lecture in memory of the University’s first Chancellor.

The lecture was given in the Science Theatre before an audience of some 1,000 people including representatives of commerce and industry, of the State and Federal Governments, the University of Sydney, the Council of Macquarie University, Newcastle University College and Wollongong University College.

After paying tribute to our first Chancellor as a great civil servant Sir Robert went on to the subject of his lecture, which was: “The Universities, Some Queries”. The two queries he considered were: “Should University education be regarded as a right and not as a privilege?” and “What is academic freedom?”

On the first he held that finance should not be the limiting factor where intellectual capacity and personal ambition were adequately high. He said, however, that “far too many people in our country, when they urge the creation of a new university, seem to think of it in terms of financial provision by governments and the bricks and mortar of practical construction. Yet the fact is that the value of a university depends primarily upon the standard of its research and teaching. In short, the greatest problem about the expansion of universities is that of securing a highly qualified staff.” In the past we had been able to obtain numbers of highly qualified staff from overseas, but that time has passed. This meant that we must “as never before, generate in our own universities our own future staff”.

On the question of academic freedom, while recognizing the vital importance of the inquiring mind in a university, he emphasized that the freedom of academics is a right which they enjoy as citizens, in common with other citizens, and one which is not enlarged by their status as academics. “In the absence of specific legal provisions, no man may claim a greater freedom than another.”

Official Opening of the Phillip Goldstein Hall

A further stage in residential development took place on 30th June, 1964, when the Premier, the Honourable J. B. Renshaw, officially opened the Phillip Goldstein Hall.

At the opening the guests, who included the Hon. the Minister for Education, Mr. E. Wetherell, the Chancellor of the University of Sydney, Sir Charles Bickerton-Blackburn, and Dr. R. J. Heffron, were welcomed by the Chancellor. The Vice-Chancellor paid a warm tribute to the late Phillip Goldstein whose gift of £40,000 had given the impetus for the building of the hall of residence.
The Phillip Goldstein Dining Hall.

Balcony of the Phillip Goldstein Dining Hall.
The Premier declared the Phillip Goldstein Hall officially open, and was thanked by Dr. G. A. Wheen, Master of Basser College.

The term “Phillip Goldstein Hall” covers two residential blocks for men and women students respectively, common room facilities, and a refectory where all students dine.

The buildings enclose two courtyards, in one of which is a modern sculpture and an ornamental pool. The walls are of clinker brick, and no veneers, claddings, rendered or painted surfaces have been used externally. This is in the tradition of the “truthful” approach to architecture derived from Mies van der Rohe and le Corbusier, who believe that materials should be used “honestly”—that the essential characteristics of the materials, the grain of the timber, the texture of the brick, should not be disguised or hidden under paint or plaster.

The dining hall is large with timber forms and tables and can seat over 400. It has high concrete roof beams and the interior walls, like the external, are of clinker brick. The panelling and flooring are of tallowwood. A pale brownish-grey glass is used in the windows, which by reflecting the brawns of the bricks and timber eliminates the glare normally experienced with big areas of glass. In effect it is a combination of the medieval and the modern—the medieval in the austere, monastic atmosphere, and the modern in the use of materials and techniques.

Building Progress

Because of the funds made available by the State and Commonwealth Governments, the year 1964 witnessed the greatest advance in its building programme which the University has made in any one year.

On the upper campus a group of buildings is being constructed, comprising the Library, Chancellery, Arts/Mathematics and Commerce buildings, and a lecture theatre block to service the last two buildings. The plan is based on three interlocking quadrangles forming inner courts at different levels following the hillside and linked by stairways. The main quadrangle will eventually be completely served by a covered way connecting the Library, the Arts/Mathematics building and the Chancellery.

The Library will be ready for occupation in September, 1965. It will consist of four floors, providing accommodation for 1,500 readers and storage space for half a million books. A tower building, designed primarily to store books, and to be up to fourteen storeys high, is to be added to the Library in a later triennium. Reading capacity will be greatly increased when the stacks are removed from the present building.

The lecture theatre block, which will be ready for use at the beginning of the 1965 Academic Year, will contain eight lecture theatres with accommodation for 1,600 students. On the ground floor there will be five lecture rooms, each seating 120; on the upper floor there will be a large central lecture theatre for 500 students and two lecture theatres each for 250 students.

The Chancellery will contain the Council Chamber, which will be
used for meetings of Council, of the Professorial Board and of other large academic groups. It will also contain a number of other committee rooms, and will provide accommodation for the University’s senior academic and administrative staffs. This building has been designed so that the addition of the final wing will form the third side of a quadrangle. This wing will eventually be linked to a large theatre with a capacity for seating 1,000 persons.

The Commerce building, which will face the Arts/Mathematics building across a quadrangle, will have TV studios on the lower ground floor. These will be used in connection with closed-circuit television for on-the-campus lecturing and for the programmes to be broadcast by the University’s own television station. This University has led the way in Australia in the use of closed-circuit television for university purposes.

The new School of Civil Engineering was the last building on the upper campus on which construction began in 1964. Standing on the higher ground between the recently completed Schools of Electrical and Mechanical Engineering, the eight-storey main block will have an adjoining laboratory and workshop area. This first stage of the new school will cost about £750,000, and is expected to be completed about the end of 1965.

Further residential facilities will be available at the beginning of the 1966 Academic Year. A start was made on the third stage of the Kensington Colleges group, which will house a Vice-Master, six tutors and 200 students. A residence for the Master was also begun. On the lower campus the Anglican and Roman Catholic Churches intend to build colleges affiliated with the University, and have set up separate organizations to administer them. Meanwhile, architects have been engaged to prepare plans.

By the end of the year the University was ready to get under way with extensions to the Union Building. Additional shopping areas, offices and accommodation for the Students’ Union and space for a Senior Common Room Club will be provided. A substantial amount of the cost of this building (£150,000) is being provided by the University staff. The new building will link with the recently constructed covered way at its western end, and will finally have covered walkways to Anzac Parade and the Roundhouse.

At Little Bay, in the grounds of Prince Henry Hospital, a building for Clinical Sciences (Faculty of Medicine) has been completed. A Graduate House for the Institute of Administration is also to be built at Little Bay in a beautiful setting surrounded by lawns, trees and gardens and looking over the Pacific Ocean. Plans include residential accommodation, lecture rooms, common rooms, syndicate offices, a library and other training facilities.

At Daceyville the first stage of the pavilion for the David Phillips Field was completed. This consists of two change rooms and two shower rooms. Six more change rooms and a grandstand are to be added later, the grandstand to be built over the change and shower rooms.
Aerial picture of the Kensington Campus.
Artist's perspective of buildings to occupy the centre foreground of aerial picture on the opposite page.
APPENDIX 3

International House

On 26th October, 1964, a limited company, the University of New South Wales International House Limited, was incorporated for the purpose of planning for the construction of an International House on the campus. This is a non-profit company limited by guarantee, comprising twenty-five members appointed by the Council, of whom five are representatives of Rotary. The company has six directors.

In 1964 the University had approximately one thousand oversea students, drawn from many different countries, and it was felt that our International House, while providing residential accommodation, should be primarily a meeting centre for much larger numbers of oversea and Australian students.

Award of Degrees

From the time of its incorporation in 1949 to 31st December, 1964, the University has awarded 4,251 degrees to 4,022 persons, 211 graduates holding two degrees and nine graduates holding three degrees. At the close of the year under review seven of the graduates were members of Council, six having been elected by their fellow graduates and one by the undergraduates.

The total number of degrees awarded in 1964 was 894. Of this number 161 were awarded at Newcastle University College and 32 at Wollongong University College. Details regarding the degrees awarded to students of the two Colleges are set out in the sections of this report concerning developments at the respective centres.

The following table gives the classifications of the degrees awarded in Sydney during 1964:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Number</th>
</tr>
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<tbody>
<tr>
<td>Doctor of Science</td>
<td>1</td>
</tr>
<tr>
<td>Doctor of Medicine</td>
<td>2</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>20</td>
</tr>
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</tr>
<tr>
<td>Master of Science</td>
<td>29</td>
</tr>
<tr>
<td>Master of Technology</td>
<td>29</td>
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<tr>
<td>Bachelor of Arts</td>
<td>45</td>
</tr>
<tr>
<td>Bachelor of Architecture</td>
<td>22</td>
</tr>
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<td>Bachelor of Commerce</td>
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</tr>
<tr>
<td>Bachelor of Engineering</td>
<td>143</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>193</td>
</tr>
<tr>
<td>Bachelor of Science (Technology)</td>
<td>56</td>
</tr>
<tr>
<td>Bachelor of Surveying</td>
<td>5</td>
</tr>
</tbody>
</table>

701

It was the first occasion on which the degree of Doctor of Science has been awarded, the recipient being Professor Stephen Angyal. The
award was made for his published work, especially on the chemistry of inositols and related compounds and on the Sommelet reaction. The degrees of Doctor of Medicine and Master of Building were also awarded for the first time.

During the year under review the following post-graduate diplomas were awarded in Sydney:

- Diploma in Applied Science: 2
- Diploma in Highway Engineering: 17
- Diploma in Industrial Engineering: 19
- Diploma in Librarianship: 56

Three undergraduate diplomas in Sociology were also awarded.

Reunion of Graduates

Following the successful Reunion of Graduates inaugurated in 1963, a further reunion was held in 1964, the University being host on 24th October to graduates of 1954.

The graduates were shown the building developments taking place on the campus, and were entertained at a buffet dinner, where they met a number of members of staff with whom they had been associated as students.

Council believes that the development among the graduates of a corporate spirit and a continuing sense of identity with the University is of great importance, and thought is being given to ways of maintaining these objectives when there are considerable numbers of graduates involved.

New and Revised Courses of Study

During 1964 a number of new courses was introduced and changes were made to several existing courses.

Of particular significance was Council's decision to approve in principle the creation of a Faculty of Law at the University. As mentioned earlier in this report, the decision was the outcome of approaches made to the University by the New South Wales Bar Association and the Law Society of New South Wales, who believe that existing facilities for legal education in Sydney are inadequate to cope with the demand.

Another matter of considerable interest in the academic field was the establishment of a Graduate School of Engineering, the purpose of which is to integrate post-graduate activities in the Faculty of Engineering.

In the undergraduate sphere a new Department of History and Philosophy of Science was created within the School of Philosophy; two new undergraduate courses were approved, a full-time course leading to the degree of Bachelor of Social Work, and a part-time course leading
to the degree of Bachelor of Building; and approval was given to the revision of courses in Optometry. At its September meeting Council approved conditions for the award of an undergraduate diploma in Hospital Administration.

At the post-graduate level a number of new graduate diploma courses was introduced—in Corrosion Technology, Landscape Design, Civic Design and Biochemical Engineering, and the graduate diploma course in Librarianship was varied by the addition of new subjects and some revised syllabuses. Council approved a revision of the courses leading to the degree of Master of Technology in the Faculty of Engineering and to the implementation in 1964 of a Master of Technology course in Engineering Construction. In the Faculty of Medicine a new course leading to the degree of Master of Surgery was introduced. Council agreed to minor revisions in the conditions for the award of the degree of Doctor of Philosophy, and to more extensive revisions in the conditions for the award of the degree of Master of Hospital Administration.

Symposia, Summer Schools, Seminars and Special Courses

The tenth annual symposium was held on 4th November, 1964, when the subject of discussion was “The University and Industry”.

In his opening address the Vice-Chancellor said: “Universities produce knowledge and industry has a use for it. The results of University research are however less important to industry than the supply of the right kind of people.”

In developing these thoughts the Vice-Chancellor suggested a flow of staff from the University to industry and back again, a proposal which evoked interesting discussion.

Subsequent papers on “Scientific Innovation and Industrial Prosperity” and “Industrial Efficiency in Australia” delivered by Professor J. A. Allen, Newcastle University College and Dr. K. L. Sutherland of C.S.R. Ltd. illustrated aspects of the industrial side of the matter. In the afternoon sessions the questions of what the University and industry expected of one another were examined by Mr. G. W. E. Barraclough, Chairman, Unilever, Australia and Dr. R. G. C. Parry-Okeden, Chairman, John Lysaght (Aust.) Ltd. who is a member of Council. A graduate representative on Council, Mr. J. J. Toomey, contributed “A Graduate’s Impressions”.

The symposium was attended by several hundred people drawn from industrial, commercial, semi-governmental and academic spheres and their discussion after the papers had been delivered was lively and interesting. The papers contributed, together with a summary of the discussion, have been published.

The third Summer School for teachers of Mathematics was held in the University of New South Wales Union during January, 1964. Seventy-two secondary school teachers from sixty-two high schools and two inspectors from the Department of Education attended. These secondary school teachers came from widespread areas, forty-three
metropolitan schools (State 25, private 18), seventeen country schools (State 9, private 8) and two private schools at Canberra being represented.

The guest speaker was Professor Kurt Mahler, F.R.S., Professor of Mathematics at the Australian National University. Other distinguished mathematicians present on the opening day were Professor Paul Halmos of the University of Chicago, Professor D. H. Neumann and Mrs. Hanna Neumann of the Australian National University, and Professor Szekeres, Acting Head of the School of Mathematics.

Lectures given by staff members of the School of Mathematics were interspersed with discussion sessions, and on the final day a demonstration of computers and a film about their construction were arranged by the Olivetti Company.

The sum of £1,171 was contributed by sixteen industrial and commercial organizations towards the expenses of organizing the School. This amount, along with £380 in hand from earlier Summer Schools, was sufficient to cover costs.

Questionnaires, letters and verbal comments indicate that the School was very successful. Valuable suggestions were also made about improvements. The papers presented were later published.

When the possibility was first canvassed of establishing a Chair of Marketing in the University some people had doubts as to whether marketing was really a serious field of study. The International Marketing Seminar organized at the University in February, 1964, by the Institute of Administration, in conjunction with the Market Research Society of Australia, was a triumph, and it should have dispelled any local qualms about marketing being a field both of study and research.

We were able to bring to the University for this seminar three very distinguished marketing authorities—

Professor Edward C. Bursk, Professor at the Harvard Graduate School of Business Administration, editor of the *Harvard Business Review*, Educational Director of the International Marketing Institute, and one of the world's foremost authorities on marketing research, market planning, and marketing management;

Professor Albert W. Frey, Professor of Marketing and Director of Executive Development Program, Graduate School of Business, University of Pittsburgh. Formerly marketing consultant to General Motors, American Telephone and Telegraph and other corporations, and a former editor-in-chief of *Journal of Marketing*, and *Advertising*, one of the most widely used textbooks on the subject of sales promotion;

Professor George Risley, an author, consultant, editor and educator, currently Associate Professor of Business Administration at the Clarkson College of Technology, Potsdam, N.Y.

The University expected that fifty people would be enrolled for the whole three days, with the maximum attendance possibly reaching 250. Council is pleased to report that more than 200 persons attended each
day, and on the third day there were 320 present. In Council's view this seminar went some way towards illustrating that there is a very active interest in this community in a more academic approach to marketing.

This venture into the administrative aspects of the field of selling in the world of private enterprise was followed by the successful First National Instalment Credit Seminar conducted by the Institute of Administration in May, 1964. This, too, was quite a bold venture, and one which met with gratifying success, being attended by over 150 delegates from a wide range of financial institutions and retail houses and marked by a considerable amount of favourable publicity.

It is noteworthy that during the year 1964 the Institute of Administration succeeded in attracting course members from all the States of the Commonwealth, from the Australian Capital Territory, New Guinea, New Zealand and the Philippines—a creditable achievement evidencing the growing reputation of the Institute.

During 1964 the Institute of Administration also made spectacular progress with its Building Fund Appeal aimed towards establishing its own residential centre on a site made available to Council by the Board of the Prince Henry Hospital. By the end of 1964 the fund had reached £100,000, thus ensuring that within the next few years the Institute of Administration will have its own premises which will permit more continuous and varied programmes to be offered.

Fifteenth International Student Seminar

The Fifteenth International Student Seminar was conducted by the National Union of Australian University Students at this University from Saturday, 4th July to Tuesday, 7th July and the subject of the Seminar was “Students and Political Action”. The co-administrators of the Seminar were Miss Jessica Milner and Mr. A. van der Poorten, both students of this University.

About eighty student delegates attended the Seminar coming from the following countries:

Angola
Australia
Bolivia
Canada
Ceylon
Chile
Costa Rica
Cyprus
Denmark
England
Finland
Germany
Ghana
Greece
Guatemala
Hong Kong

Hungary
India
Iran
Iraq
Ireland
Israel
Kenya
Lebanon
Malaya
Malta
Mexico
Mozambique
Netherlands
New Guinea
New Zealand
Nigeria

Norway
Jordan
Paraguay
Philippines
Scotland
Sierra Leone
Southern Rhodesia
Spain
Switzerland
Sweden
Syria
Tanganyika
United Arab Republic
United States of America
Vietnam
West Indies
Student Sporting Progress

The year 1964 marked the emergence of this University as a first class competitor in many sports.

The students' attitude has been that the University should aim at 1st Grade District level in all sports, thus enabling our students to be chosen to represent the State and Australia. With this goal in view the Hockey Club was successful in winning the club championship in 2nd Division, and will now be promoted in 1965 to 1st Division. The Rugby Union Club also won the 2nd Division Club Championship, and has been recommended for promotion to 1st Division in 1966. The Athletics Club, which had achieved 1st Division standard in 1964, was runner up in B Grade and won the E and G Grades in addition to competing in A Grade with reasonable results. The Cricket Club won the B Shires Competition 1963-64 season, and was leading in the A Shires Competition 1964-65 at the conclusion of 1964. The Rifle Club was again successful in winning the Albert Trophy with a record score against all Australian and New Zealand Universities in addition to winning the Inter-Varsity Venour Nathan Shield.

Taken as a whole, these results represent a remarkable achievement on the part of the students.

Newcastle University College

Council has for some time directed its efforts towards ensuring that the Newcastle University College authorities should become increasingly responsible for the framing of policy and for the carrying out of academic, administrative and financial operations at that centre.

The aim of the Council has been, of course, to prepare the way for the Newcastle University College authorities to undertake all the tasks associated with autonomy if and when this was granted by the State Government.

All members of Council were therefore pleased when on 18th March, 1964, the Premier announced that, provided satisfactory financial arrangements could be made with the Commonwealth Government, the State Government would be prepared to grant autonomy to the Newcastle University College as from 1st January, 1965. Council feels that it is a tribute to the understanding and co-operation of the Commonwealth and State Governments that the necessary arrangements were completed. Autonomy was achieved on the date announced and the University of Newcastle commenced its separate existence.

It was a source of gratification to Council that so much progress had been achieved on the Shortland site by the time the new University was created. In 1964 construction of buildings for the Faculties of Arts, Commerce and Science was commenced, and the Library and Administration block was also started. Three-quarters of a million pounds was allocated for these projects and more than £100,000 over and above this for site services and sporting facilities.
APPENDIX 3

In 1964 the following degrees were awarded to students at Newcastle University College:

<table>
<thead>
<tr>
<th>Degree</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctor of Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Master of Arts</td>
<td>1</td>
</tr>
<tr>
<td>Master of Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Master of Science</td>
<td>2</td>
</tr>
<tr>
<td>Bachelor of Arts</td>
<td>67</td>
</tr>
<tr>
<td>Bachelor of Architecture</td>
<td>4</td>
</tr>
<tr>
<td>Bachelor of Commerce</td>
<td>18</td>
</tr>
<tr>
<td>Bachelor of Engineering</td>
<td>25</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>35</td>
</tr>
<tr>
<td>Bachelor of Science (Technology)</td>
<td>5</td>
</tr>
</tbody>
</table>

In addition, thirty-four graduate diplomas in Education were awarded to students of the College.

In the period in which the University administered the Newcastle University College a total of 687 degrees was awarded, from 1953 to 1964 inclusive. Of these forty-one were higher degrees, and of the remaining 646 degrees 133 were awarded at honours standard.

Wollongong University College

Consistent with its policy of extending the range of courses offered at Wollongong University College, within the limits of finance and staff available, Council in 1964 approved of the following courses being offered in 1965:

<table>
<thead>
<tr>
<th>Arts</th>
<th>Commerce</th>
<th>Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>History II</td>
<td>Accountancy II</td>
<td>Pure Mathematics III</td>
</tr>
<tr>
<td>English II</td>
<td>Economics II</td>
<td>Applied Mathematics III</td>
</tr>
<tr>
<td>Psychology II</td>
<td>Economics III</td>
<td></td>
</tr>
<tr>
<td>Scientific Thought II</td>
<td>Commercial Law II</td>
<td></td>
</tr>
<tr>
<td>Economics II</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This step permitted development of the courses in Arts and Commerce initiated in 1963.

To meet the growing needs of the College, construction of the first stage of a two-part development of the Students' Union and extensions to the Metallurgy building were set in hand in 1964. Both were nearing completion at the end of the year and were expected to be ready for occupation early in first term 1965. In addition, the first stage of the development of the playing fields for the College was commenced during 1964. The cost of all these projects was in the vicinity of £150,000.

The second Graduation Ceremony was conducted at Wollongong University College on 3rd April, 1964, when one degree of Master of Engineering, nine degrees of Bachelor of Science and twenty-two degrees of Bachelor of Science (Technology) were awarded. A total of forty-six degrees has now been awarded to students of Wollongong University College.
Broken Hill Division

Council is pleased to record the success of the steps being taken towards the establishment of a University College at Broken Hill. During 1964, grants of £50,000 were made by the State Government and Conzinc Rio Tinto Ltd., the total sum of £100,000 thus available being applied towards the establishment of the new University College. In addition, an area of twenty acres was given to the University by New Broken Hill Consolidated Ltd. as the site of the new College.

Sketch plans of the first buildings to be erected on the new site were begun late in 1964, and it is expected that these buildings will be available for use at the beginning of 1966.

Senior Staff

Appointments, promotions and other changes relating to senior staff are recorded in this section.

Kensington and Broken Hill

Appointments to the Professorial Staff during the year were as follows:

Professor of Surveying, School of Civil Engineering

Professor of General Education and Head of Department of General Studies

Professor and Head of the School and Dean of the Faculty of Architecture and Building

Professor, School of Physics

Professor, School of Biological Sciences

Professor, School of Chemistry

Professor, School of Political Science

Professor, School of Surgery
Professor, School of Applied Psychology

Professor, School of Electrical Engineering

Visiting Professor, School of Business Administration

Visiting Professor, School of Sociology
Montague, J. B., Ph.D. (Michigan); 1st March, 1964.

Visiting Professor, School of Economics

Associate Professor, School of Paediatrics

Associate Professor, Department of Drama

Associate Professor, School of Mathematics

Associate Professor, School of Metallurgy

Associate Professor, School of Pathology
Halley, J. B. W., M.D., Ch.B., (St. And.); 3rd March, 1964.

Associate Professor, School of Textile Technology

The following persons were either appointed or promoted to the position of Senior Lecturer:

Hannon, N. J. (Miss), B.Sc., Ph.D. (Syd.); 14th April, 1963 (School of Biological Sciences).
Lyness, J. N., M.A., D.Phil. (Oxon.); 22nd August, 1963 (School of Mathematics).
Giutronich, J. E., B.Sc. (Syd.), Ph.D.; 12th November, 1963 (School of Physics).
Snoswell, A. M., B.Sc., Ph.D. (Adel.); 1st December, 1963 (School of Biological Sciences).
Warner, R. F., Ph.D. (Lehigh), M.E.; 31st January, 1964 (School of Civil Engineering).
Howell, D. T., B.E. (Syd.), M.E.; 2nd February, 1964 (School of Civil Engineering).
Bowring, A. C., M.B., B.S. (Syd.), F.R.C.S. (Edinburgh), F.R.C.S.; 3rd February, 1964 (School of Paediatrics). Position held conjointly with appointment as Paediatric Surgeon, Prince of Wales Hospital.
Mishkel, M. A., B.Sc. (Med.), M.B., B.S. (Syd.), M.D., M.R.A.C.P.; 6th February, 1964 as Associate Senior Lecturer, (School of Medicine).
Chambers, L. R., M.A., Dip.Ed. (Syd.); 16th February, 1964 (School of Western European Languages).
Reid, A. A., M.B., B.S. (Durh.), D.P.M. (Lond.), M.R.C.P.; 2nd March, 1964 (School of Psychiatry). Position held conjointly with appointment as Psychiatrist, Prince Henry Hospital.
Burrows, K. M., B.Sc. (W. Aust.); 11th March, 1964 (School of Physics).
Clezy, P. S., B.Sc., Ph.D. (Tas.); 14th April, 1964 (School of Chemistry).
Watton, E. C., B.Sc., A.S.T.C.; 14th April, 1964 (School of Chemistry).
O'Farrell, P. J., M.A. (N.Z.), Ph.D. (A.N.U.); 15th April, 1964 (School of History).
Ingham, S. M., M.A. (Melb.); 11th May, 1964 (School of History).
Lacey, A. W., LL.B. (Syd.), Ph.D. (Lond.); 11th June, 1964 (School of Accountancy).
O'Gorman Hughes, D. W., M.B., B.S. (Syd.), M.R.A.C.P.; 11th June, 1964 (School of Paediatrics).
Ninham, B. W., M.Sc. (W. Aust.), Ph.D. (Maryland); 14th July, 1964 (School of Mathematics).
Dixon, J. D., M.A. (Melb.), Ph.D. (McG.); 10th August, 1964 (School of Mathematics).
Heseltine, H. P., B.A. (W. Aust.), M.A., Ph.D. (Louisiana State); 11th August, 1964 (School of English).
Learmonth, J. R., B.E. (Syd.), M.E.; 11th August, 1964 (School of Civil Engineering).
Marchant, P. D., B.A. (Syd.), Ph.D. (A.N.U.); 11th August, 1964 (School of Political Science).
Harrison, J. Y., B.E. (Syd.), A.M.I.E.Aust.; 14th September, 1964 (School of Mechanical Engineering).
Markham, N. L., B.Sc. (Adel.), A.M., Ph.D. (Harv.); 8th October, 1964 (School of Applied Geology).
Hayes, J. W., B.E., M.Eng.Sc. (Syd.); 9th November, 1964 (School of Mechanical Engineering, Broken Hill Division).
Scott, Mary J., B.Sc., Ph.D. (Lond.); 10th November, 1964 (School of Physiology).
Palmer, J. H., B.Sc., Ph.D. (Sheff.); 7th December, 1964 (School of Biological Sciences).

Appointments to the position of Senior Project Scientist were:

Other senior appointments and promotions were:
Clancy, J. R., Administrative Officer, Vice-Chancellor's Unit (Seconded to Boards of Prince Henry Hospital and Prince of Wales Hospital as Chief Executive Officer) 28th January, 1964.

Meyers, E. S. A., M.B., B.S. (Syd.), D.P.H., F.R.S.H., M.O.H., Co-ordinator of Studies in Public Health and Social Medicine, Faculty of Medicine, 16th April, 1964.

Steigrad, J., C.B.E., E.D., M.B.Ch.M. (Syd.), F.R.A.C.S., Honorary Director of Post-Graduate Medical Education, Faculty of Medicine, 1st June, 1964.

Rodgers, J. A., B.A. (N.E.), A.A.S.A., A.C.I.S., Senior Administrative Officer, Faculty of Medicine, 10th August, 1964.


Resignations and retirements during the year were as follows:


Teplitzky, D. R., Senior Lecturer in Biological Sciences, resigned 31st January, 1964.

Bosworth, R. C. L., Associate Professor in Chemistry, deceased 24th March, 1964.

Ryan, R. D., Senior Lecturer in Physiology, resigned 15th May, 1964.


Spencer, L. C., Senior Lecturer in Highway Engineering, resigned 31st May, 1964.

Munro, J., Senior Lecturer in Mechanical Engineering, retired 3rd June, 1964.

Salton, M. R. J., Professor of Microbiology, resigned 30th June, 1964.


Cope, T. I., Senior Lecturer in Obstetrics and Gynaecology, resigned 24th July, 1964.


Low, A. H., Senior Lecturer in Mathematics, resigned 30th August, 1964.

Wilkinson, W. J. C., Senior Lecturer in Anatomy, resigned 25th September, 1964.


Bowen, J. H., Senior Lecturer in Chemical Engineering, resigned 31st October, 1964.

Williams, D. W., Senior Lecturer in Nuclear Engineering, resigned 12th November, 1964.

Bowen, L. O., Senior Lecturer in Physics, resigned 13th November, 1964.
Carr, I. A., Senior Lecturer in Pathology, resigned 4th December, 1964.
Snoswell, A. M., Senior Lecturer in Biological Sciences, resigned 31st December, 1964.

Newcastle University College

Professor of Engineering

Professor of Mathematics

Professor of English
Cross, K. G. W., M.A., Ph.D., Dip.Ed. (Dublin); 1st September, 1964.

Professor of Latin and Head of Department of Classics

Professor of Physics

Associate Professor, Department of Geology

Associate Professor, Department of German

Associate Professor, Department of Chemistry

Senior Lecturer, Department of Geology

Senior Lecturer, Department of Geography

Senior Lecturer, Department of Mathematics

Senior Lecturer, Department of Civil Engineering
**REPORT OF COUNCIL—1964**

Wollongong University College

Professor of Mathematics

Associate Professor, Department of Mechanical Engineering

Summary of Enrolments—1964 (All Centres)

<table>
<thead>
<tr>
<th>Classes of Students</th>
<th>Totals 1964</th>
<th>Totals 1963</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Degree and Diploma Students—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-time</td>
<td>4,552</td>
<td>3,664</td>
</tr>
<tr>
<td>Part-time and Conversion</td>
<td>5,034</td>
<td>5,025</td>
</tr>
<tr>
<td>Total</td>
<td>9,586</td>
<td>8,689</td>
</tr>
<tr>
<td>Higher Degree Students</td>
<td>697</td>
<td>939</td>
</tr>
<tr>
<td>Graduate Diploma Students</td>
<td>242</td>
<td>823</td>
</tr>
<tr>
<td>Total of students proceeding to degree or diploma</td>
<td>10,525</td>
<td>9,512</td>
</tr>
<tr>
<td>Other Students—</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Miscellaneous and <em>ad hoc</em> course students</td>
<td>452</td>
<td>363</td>
</tr>
<tr>
<td>Total</td>
<td>10,977</td>
<td>9,875</td>
</tr>
<tr>
<td>Special course students</td>
<td>7,861</td>
<td>3,076</td>
</tr>
</tbody>
</table>

Summary of Enrolments by Centres

<table>
<thead>
<tr>
<th></th>
<th>Kensington</th>
<th>Newcastle</th>
<th>Wollongong</th>
<th>Broken Hill</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Post-graduate</td>
<td>843</td>
<td>90</td>
<td>5</td>
<td>1</td>
<td>939</td>
</tr>
<tr>
<td>Undergraduate</td>
<td>7,699</td>
<td>1,361</td>
<td>444</td>
<td>82</td>
<td>9,586</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>377</td>
<td>51</td>
<td>14</td>
<td>10</td>
<td>452</td>
</tr>
<tr>
<td>Total</td>
<td>8,919</td>
<td>1,502</td>
<td>463</td>
<td>93</td>
<td>10,977</td>
</tr>
</tbody>
</table>
### Enrolments and Higher Degree Registrations for 1964

Enrolments and higher degree registrations for 1964 for each University Centre are shown in detail in the tables which follow:

**Sydney—Full-time Undergraduate Degree Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
<th>4th Year</th>
<th>5th Year</th>
<th>6th Year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Chemistry</td>
<td>24</td>
<td>16</td>
<td>14</td>
<td>7</td>
<td></td>
<td></td>
<td>61</td>
</tr>
<tr>
<td>Applied Geology</td>
<td>4</td>
<td>7</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Applied Psychology B.Sc.</td>
<td>10</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>15</td>
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<tr>
<td>Architecture</td>
<td>131</td>
<td>64</td>
<td>65</td>
<td>45</td>
<td>52</td>
<td>36</td>
<td>393</td>
</tr>
<tr>
<td>Arts</td>
<td>499</td>
<td>199</td>
<td>85</td>
<td>10</td>
<td></td>
<td></td>
<td>793</td>
</tr>
<tr>
<td>Building</td>
<td>13</td>
<td>10</td>
<td>11</td>
<td>13</td>
<td></td>
<td></td>
<td>47</td>
</tr>
<tr>
<td>Ceramic Engineering</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>38</td>
<td>40</td>
<td>20</td>
<td>12</td>
<td></td>
<td></td>
<td>110</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>114</td>
<td>90</td>
<td>55</td>
<td>37</td>
<td></td>
<td></td>
<td>296</td>
</tr>
<tr>
<td>Civil Engineering Comb. B.Sc./B.E.</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Commerce</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accountancy</td>
<td>87</td>
<td>56</td>
<td>40</td>
<td>1</td>
<td></td>
<td></td>
<td>184</td>
</tr>
<tr>
<td>Applied Psychology</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Economics</td>
<td>66</td>
<td>30</td>
<td>30</td>
<td>1</td>
<td></td>
<td></td>
<td>127</td>
</tr>
<tr>
<td>Industrial Relations</td>
<td>9</td>
<td>5</td>
<td>6</td>
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| Total                        | 1,197     | 642      | 593      | 419      | 535      | 297      | 120      | 1        | 3,859 |

* This course leads to the award of the A.S.T.C. Diploma of the Department of Technical Education.

### Higher Degrees—Sydney

- Doctor of Medicine ..... 6
- Doctor of Philosophy ..... 136
- Doctor of Science ..... -
- Master of Administration ..... 30
- Master of Architecture ..... 9
- Master of Arts ..... 15
- Master of Building ..... 4
- Master of Commerce ..... 9
- Master of Engineering ..... 75
- Master of Hospital Administration ..... 2
- Master of Librarianship ..... 12
- Master of Science ..... 161
- Master of Surveying ..... 2
- Master of Technology ..... 186

647
APPENDIX 3

Graduate Diplomas—Sydney

Corrosion Technology .... .... .... 5
Highway Engineering .... .... .... 6
Industrial Engineering .... .... .... 67
Librarianship .... .... .... 104
Mineral Technology .... .... .... 7
Fuel Technology .... .... .... 7

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Other Courses—Sydney

Miscellaneous .... .... .... 286
Ad hoc .... .... .... 91

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Newcastle—Full-time Undergraduate Degree Courses

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| Total                   | 260      | 162      | 146      | 84       | 46       | 60       | 26       | 1        |       | 786   |

* This course leads to the award of the A.S.T.C. Diploma of the Department of Technical Education.

## Higher Degrees—Newcastle

- Doctor of Philosophy: 12
- Master of Architecture: 2
- Master of Arts: 10
- Master of Commerce: 4
- Master of Engineering: 5
- Master of Science: 10
- Master of Surveying: 1

Total: 44

## Graduate Diplomas—Newcastle

- Education: 46

## Other Courses—Newcastle

- Miscellaneous: 51

## Wollongong—Full-time Undergraduate Degree Courses

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* This course leads to the award of the A.S.T.C. Diploma of the Department of Technical Education.

### Higher Degrees—Wollongong

- Doctor of Philosophy: 2
- Master of Engineering: 1
- Master of Science: 2

### Other Courses—Wollongong

- Miscellaneous: 13
- Ad hoc: 1

### Broken Hill—Part-time Degree and Diploma Courses

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28  11  16  9  9  9  82
Benefactions

Council acknowledges with gratitude the following benefactions which were received during 1964:

*Abbott Laboratories Pty. Limited*: This firm donated £100 towards the oversea travel expenses of Professor J. Beveridge of the School of Paediatrics.

*The American Chemical Society* has provided a grant of £2,094 11s. 4d. for research by the School of Chemistry on complexes in catalysis.

*Andrews Laboratories Pty. Limited* provided a grant of £150 for the purpose of having a lecture delivered annually by a distinguished visiting scientist on the subjects of chemistry or biochemistry.

*Architectural Research Foundation Fund*: The undermentioned firms have donated a total amount of £877 10s. to the Fund:

- A.R.C. Engineering (N.S.W.) Co. Pty. Ltd. £52 10 0
- Bunning & Madden 100 0 0
- Fowell, Mansfield & MacLurcan 100 0 0
- Hanson, Todd & Partners 100 0 0
- Joseland & Gilling 100 0 0
- McConnel, Smith & Johnson 100 0 0
- Otis Elevator Co. Pty. Ltd. 25 0 0
- Robertson & Marks 100 0 0
- Rudder, Littlemore & Rudder 100 0 0
- Wormald Bros. Industries Limited 100 0 0

*The Asthma Foundation of New South Wales*: The Foundation provided an amount of £5,522—£2,290 for a Research Fellowship in the School of Medicine, and £3,232 for research in the School of Pathology.

*The Australian Atomic Energy Commission* provided an amount of £14,350 for study in the undermentioned fields:

- Study of surface properties of beryllium oxide (School of Physics) £700 0 0
- Radiation stability of chemical compounds (School of Chemistry) 1,000 0 0
APPENDIX 3

Reaction of ferrous alloys and certain other materials of construction with complex gases at high temperatures (School of Metallurgy) .... .... 5,450 0 0
Insulation of enclosed cavities in which heat transfer occurs by natural convection (School of Mechanical Engineering) .... .... 5,100 0 0
Resonance absorption and temperature dependence (School of Mathematics) 2,100 0 0

The Australian Dairy Produce Board: The Board donated an amount of £650 for studies on casein and cheese by the School of Chemical Engineering.

The Australian Automobile Association: The Association donated an amount of £2,000 to provide a Fellowship in Traffic Engineering.

The Australian Institute of Nuclear Science and Engineering: The Institute provided a total of £8,929 4s. 9d. for the following purposes:

- Research on radiation catalysis (School of Chemistry) .... .... £100 0 0
- Post-Doctoral Fellowship Dr. D. J. Corderoy (School of Metallurgy) .... 1,234 8 9
- Post-Doctoral Fellowship Dr. R. J. Hussey (School of Metallurgy) .... 2,817 16 0
- Neutron diffraction studies of reactive metals (School of Metallurgy) .... 1,467 0 0
- Investigation of rates of heat transfer between fins and in slots of cylindrical surfaces (School of Mechanical Engineering) .... .... 950 0 0
- Radiation damage studies in textile fibres and related high polymers (School of Textile Technology) .... .... 500 0 0
- Study of the effect of irradiation on endoparasite development (School of Biological Sciences) .... .... 260 0 0
- Research on radiation damage on mechanical properties of metals (Newcastle University College) .... 50 0 0
- Study of the structure of transition metal alloys .... .... 100 0 0
- Research on mechanical properties of radiation damaged aluminium alloys 300 0 0
- Neutron diffraction studies on the spinel structure (School of Metallurgy) .... 100 0 0
Investigation of pulsed neutron techniques in reactor physics (School of Nuclear Engineering) .... .... 1,050 0 0

The Australian Mineral Industries Research Association contributed an amount of £3,935 6s. 8d. for research by the School of Mining Engineering on a wire rope project.

The Australian Planning Institute donated an amount of £15 towards the expenses of special lectures in the School of Architecture and Building.

The Australian Road Research Board: The Board contributed an amount of £6,638 8s. 4d.—£2,275 for research by the School of Civil Engineering on reinforced concrete beams in combined bending shear and torsion, and £4,363 8s. 4d. for a Fellowship in Traffic Engineering.

Professor Sir Philip Baxter donated £39 to the University Special Purposes Fund.


Bristol Myers Co. Pty. Limited donated £50 towards the overseas travel expenses of Dr. A. E. Davis of the School of Medicine.

British Tobacco Co. (Aust.) Limited donated £400 for research on stochastic processes at A.N.U. Canberra by Mr. R. B. Davis of the School of Mathematics.

The Broken Hill Proprietary Company Limited donated an amount of £200 towards the overseas travel expenses of Professor A. E. Jenkins of the School of Metallurgy.

Ciba Limited contributed a total of £3,843—£3,738 for research in the School of Chemistry on phosphoinositides, and £105 towards the overseas travel expenses of Dr. A. E. Davis of the School of Medicine.

Clean Air Conference: The undermentioned firms contributed a total of £1,361 15s. to the expenses of the Clean Air Conference.

Austral Bronze Co. Pty. Limited .... £75 0 0
Australian Fertilizers Limited .... 75 0 0
Australian Iron & Steel Pty. Limited .... 250 0 0
Babcock & Wilcox (Aust.) Pty. Limited .... 50 0 0
Consolidated Metal Products Limited .... 25 0 0
Electricity Commission of N.S.W. .... 52 10 0
Email Limited .... .... .... 52 10 0
Federated Engineers Limited .... .... 10 10 0
R. Fowler Ltd. .... .... .... 10 10 0
G.M.H. Pty. Limited .... .... .... 100 0 0
Colonial Sugar Refining Co. Ltd. contributed a total of £1,200—£1,000 for evaluation by the School of Paediatrics of the efficiency of calcium sucrose phosphate as an inhibitor of dental cavities, and £200 towards the oversea travel expenses of Professor S. J. Angyal.

The Commonwealth Banking Corporation donated an amount of £250 for a temporary Post-Graduate Research Fellowship in Wool Technology.

The Commonwealth Literary Fund: A total of £150 was allocated from the Fund for special lectures in Australian Literature at Kensington and Newcastle.

The Commonwealth Scientific and Industrial Research Organization has contributed an amount of £3,700 for research by the School of Civil Engineering on: (i) drying shrinkage of concrete and (ii) the strength and durability of epoxy bonded concrete members.

Conzinc Rio Tinto (Aust.) Limited has contributed an amount of £200 to the oversea travel expenses of Professor A. E. Jenkins of the School of Metallurgy.

The Council of the City of Sydney has donated £2,200 for research by the Department of Nuclear and Radiation Chemistry on low-level radiation contamination.

The Council of Library Resources Inc. made a grant of £3,346 8s. 5d. for research on alphabetical subject indexing (School of Librarianship).

Davis Gelatine (Aust.) Pty. Ltd. donated £26 5s. towards the oversea travel expenses of Mr. J. R. Norman (School of Chemical Engineering).

The Dental Health Education and Research Foundation made a grant of £2,000 for research on the Dentist/Patient relationship (School of Applied Psychology).

The Department of Civil Aviation has donated £500 for research into the efficiency of Airways Operations Staff.
The Department of Main Roads contributed a total of £55,000—£50,000 for research by the Institute of Highway and Traffic Research, and £5,000 towards the Chair of Highway Engineering.

The Department of Motor Transport, N.S.W. has donated £2,000 for testing of traffic signal lanterns.

The Department of Public Health, N.S.W. has donated £500 for research by the School of Applied Psychology on the chest X-ray campaign in New South Wales.

Professor G. C. De Gruchy has donated £150 towards the overseas travel expenses of Associate Professor W. R. Pitney (School of Pathology).

Ducon Condensers Pty. Limited have contributed £200 towards the overseas travel expenses of Dr. D. Haneman.

School of Economics: A total of £800 was contributed by the undermentioned firms for research on Industrial Relations.

- New Broken Hill Consolidated Ltd. £175 0 0
- The Zinc Corporation Ltd. 175 0 0
- Commonwealth Banking Corporation 100 0 0
- Rural Bank of N.S.W. 100 0 0
- Sulphide Corporation Pty. Ltd. 50 0 0
- The Colonial Sugar Refining Coy. Ltd. 200 0 0

The Electricity Commission of N.S.W. donated £1,100 for the H. G. Conde Memorial Research Fellowship (Institute of Nuclear Engineering).

Lilly-Eli (Aust.) Pty. Limited donated £550 for a Research Fellowship in Wool Technology.

External Studies in Hospital Administration: The following organizations contributed £5,880 towards this course.

- Hospitals Commission of New South Wales £1,470 0 0
- Hospitals and Charities Commission of Victoria 2,720 0 0
- Western Australian Government 1,690 0 0

Farm Management Study Group: Members of the Study Group listed below have made donations totalling £360 towards the travelling expenses of members of the staff of the School of Wool Technology who provide an advisory service:

- W. D. Blowes £20 0 0
- R. Cornelson 20 0 0
- J. T. Coventry 20 0 0
- J. Dangar 20 0 0
- B. C. Gordon 40 0 0
- F. J. Hickey 20 0 0
**Geigy (Asia) Pty. Limited** donated £150 towards the maintenance of the Plastics and Rubber Laboratory in the School of Chemical Technology.

**General Motors-Holden's Pty. Ltd.** contributed a total of £2,900 for two Research Fellowships, one in the School of Metallurgy and the other in the School of Applied Geology.

**Glaxo-Allenburys (Aust.) Pty. Ltd.** contributed a total of £205—£105 for the Medical School of the Air and £100 towards the overseas travel expenses of Professor J. Beveridge of the School of Paediatrics.

**Graziers' Association of New South Wales:** The Association has donated £2,500 for the Burdekin Trust Fellowship in Parasitology in the School of Wool Technology.

**Gutteridge Haskins and Davey** donated £65 towards equipping a design office in the School of Mechanical Engineering.

**P. G. Goldstein Trust:** The Trust made a grant of £5,000 towards the Halls of Residence buildings.

**I.B.M. Aust. Pty. Limited** donated £218 to cover the cost of prizes awarded in the 1964 School Mathematics Competition.

**Imperial Chemical Industries of Aust. and N.Z. Ltd.** contributed a total of £1,108 8s.—£1,100 for a Research Fellowship in the School of Chemistry and £8 8s. to the Hospital Administration External Studies Prize Fund.

**Industrial National Bank—Wake Trust (U.S.A.):** The Trust contributed £222 8s. 7d. towards the overseas travel expenses of Dr. J. L. Garnett of the School of Chemistry.

**Dr. A. Innes Brown (Lederle Laboratories)** contributed £334 16s. to the overseas travel expenses of Professor J. Beveridge of the School of Paediatrics.

**Institute of Administration:** The undermentioned contributed a total of £92,529 15s. to the Institute's Residential Centre Building Fund:

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<td>Professor E. B. Smyth</td>
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<td>Mr. K. Spencer</td>
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<td>Visiting Professor L. F. Urwick</td>
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<td>Mr. M. F. Whiddon</td>
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<td>Mr. C. R. Wilshire</td>
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<td>Mr. R. E. Wilson</td>
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<td>Mr. R. W. Woodhead</td>
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<tr>
<td>Wormald Bros. (Aust.) Pty. Limited</td>
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The Joint Coal Board made a total grant of £1,800—£300 for an X-ray generator for the School of Mining Engineering, and £1,500 for differential thermal analysis equipment for Newcastle University College.

Associate Professor C. S. Jones contributed £90 to the Department of Anaesthesia Development Fund.

The Life Insurance Medical Research Fund of Australia and New Zealand: The Fund donated £3,840 for research to be carried out by the School of Physiology.

Lions Club, Baulkham Hills: The Club donated £15 to the Mathematics Educational Projects Fund.

The Co-editors of “Complimentary Mathematics and Mathematical Methods” donated royalties of £491 14s. towards providing prizes in

<table>
<thead>
<tr>
<th>Department</th>
<th>Amount (£)</th>
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<tr>
<td>Department of Mathematics, Newcastle</td>
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</table>

John Lysaght (Aust.) Ltd. contributed a total of £300—£100 for an Atmospheric Pollution Research Fellowship, and £200 towards the overseas travel expenses of Professor A. E. Jenkins (School of Metallurgy).

Merck Sharp and Dohme (Aust.) Pty. Ltd. provided £2,255 16s. for a Research Fellowship in the Faculty of Medicine.

Mobil Oil Aust. Limited: This Company donated £1,650—£500 for research in the School of Mechanical Engineering, and £1,150 for a Research Fellowship in Highway Engineering.

Mohair Advisory Board, South Africa: The Board provided £1,250 for research on mohair in the School of Textile Technology.

Monsanto Chemicals (Aust.) Limited contributed a total of £600 for the following purposes:

<table>
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<tr>
<th>Purpose</th>
<th>Amount (£)</th>
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<tr>
<td>School of Chemical Engineering Research Fund</td>
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<tr>
<td>Equipment for Entomology Section (School of Biological Sciences)</td>
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School of Mathematics: The undermentioned firms contributed a total of £70 to the Theory of Statistics Prize Fund of the School:

<table>
<thead>
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<th>Firm</th>
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<td>Data Control Business Systems</td>
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<td>Broken Hill Proprietary Co. Ltd.</td>
<td>10 0 0</td>
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<td>Macdougalls Ltd.</td>
<td>20 0 0</td>
</tr>
<tr>
<td>Business Equipment Pty. Ltd.</td>
<td>20 0 0</td>
</tr>
<tr>
<td>Peacock Bros. Pty. Ltd.</td>
<td>10 0 0</td>
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</tbody>
</table>
The National Health and Medical Research Council made grants totalling £7,931 10s. for research in the Faculties of Science and Medicine:

- Faculty of Medicine Training Grant £1,500 0 0
- Department of Biochemistry (Dr. K. G. Rienits) £699 0 0
- Department of Biochemistry (Dr. C. H. Doy) £600 0 0
- School of Medicine (Dr. A. W. Steinbeck) £2,757 0 0
- School of Anatomy (Professor M. J. Blunt) £1,000 0 0
- School of Anatomy (Dr. G. S. Molyneux) £260 0 0
- School of Pathology Studies on anaemia in New Guinea £915 10 0
- School of Physiology (Associate Professor I. Darian Smith) £200 0 0

National Heart Foundation: The Foundation has made grants totalling £17,977 for research in the following Schools and Departments:

- Department of Biochemistry (Dr. A. Snoswell) £1,215 0 0
- School of Medicine (Dr. D. Wilcken) £1,130 0 0
- School of Medicine (Senior Research Fellowship) £3,286 0 0
- School of Medicine (Dr. H. Colebatch) £2,361 0 0
- School of Physiology (Professor P. I. Korner) £2,050 0 0
- School of Physiology (Dr. G. D. Thorneburn) £3,400 0 0
- School of Physiology (Dr. A. W. T. Edwards) £1,480 0 0
- School of Physiology (Dr. G. S. Stokes) £1,285 0 0
- School of Physiology (Dr. R. A. B. Holland) £1,770 0 0

New South Wales State Cancer Council: The Council has made grants totalling £2,045 for research in the following Schools:

- School of Anatomy (Dr. B. R. O'Brien) £1,045 0 0
- School of Biological Sciences (J. Williams) £1,000 0 0

The New South Wales State Government made grants totalling £100,000 for the following purposes:

- Establishment of the W. S. & L. B. Robinson University College, Broken Hill £50,000 0 0
- Alleviation of drainage problems on Kensington site £50,000 0 0
Oakleigh Colliery Pty. Ltd. donated £5 towards the purchase of an X-ray generator for the School of Mining Engineering.

F. T. S. O'Donnell Griffin and Co. Pty. Limited donated £100 towards the School of Electrical Engineering Research Fund.

School of Paediatrics: Donations of £60 10s. were made towards the Special Purposes Fund of the School:
- Mr. J. F. Cohen: £10 10 0
- Mead Johnson Pty. Ltd.: £50 0 0

Parke Davis and Company donated £25 towards the overseas travel expenses of Professor J. Beveridge of the School of Paediatrics.

The Permanent Trustee Co. Ltd. has made grants of £1,120 from the Bowling Bequest.

Public Accountants Registration Board: The Board made a donation of £250 to the Graduate and Honours Library of the School of Commerce.

Professor B. Ralph made a donation of £5 5s. to the School of Biological Sciences Fund.

Refrigeration and Air Conditioning Research Fund, School of Mechanical Engineering: The undermentioned firms contributed £950 to the Fund:
- Email Limited: £500 0 0
- Kelvinator (Aust.) Limited: £100 0 0
- Kirby Refrigeration Units Pty. Limited: £250 0 0
- W. C. Stevens Pty. Limited: £50 0 0
- J. Wildridge & Sinclair Pty. Limited: £50 0 0

Research Corporation (U.S.A.): The Corporation made a grant of £1,203 4s. 11d. for hydraulics research in the School of Civil Engineering.

The Reserve Bank of Australia donated a total of £15,869 from its Rural Credits Development and Economic and Financial Research Funds for research within the University.

Rural Credits Development Fund
- Isotope studies of ground water resources of alluvial formations (School of Chemistry): £1,000 0 0
- Modification of natural fibres by radiation copolymerization with synthetics (School of Chemistry): 1,000 0 0
- Storm analysis for dam design (School of Civil Engineering): £2,000 0 0
- Research into the sealing of catchments to increase runoffs (School of Civil Engineering): £1,500 0 0
Chemical and botanical analysis and research on feed intake of ewes on pasture at Canberra (School of Wool Technology) 1,200 0 0
Survey of streptomyces species from agricultural soils (School of Biological Sciences) 3,700 0 0
Study of microbial response to the physio-chemical environment (School of Biological Sciences) 4,119 0 0
Study of forced and free flow of granular materials through open and closed conduits (Wollongong University College) 500 0 0

**Economic and Financial Research Fund**
Impact of automation on a section of Australian "white collar" work force (School of Economics) 300 0 0
Cessnock problem in adapting environment to changing economic circumstances 550 0 0

*Associate Professor G. H. Roper* donated £40 18s. 8d. to the Chemical Engineering Research Fund.

*Rural Bank of New South Wales*: The Rural Bank contributed £200 to the overseas travel expenses of Associate Professor W. R. Pitney of the School of Pathology.

*Sandoz Australia Pty. Limited*: This Company provided £4,227 4s. 2d. for a Research Fellowship in Medicine.

*Schering Pty. Limited* contributed a total of £230—£100 towards the overseas travel expenses of Professor J. Beveridge of the School of Paediatrics and £130 for a study of progestogens by the School of Wool Technology.

*School of Physics and Optometry Research Fund*: Donations of £42 14s. were made towards the Research Fund.
- A.W.A. Pty. Limited 5 0 0
- Mr. J. E. Brown 2 2 0
- Mr. S. A. Chandler 1 0 0
- Chicken Sexers' Assoc. of N.S.W. 14 14 0
- Mr. D. Izak 3 3 0
- P.M.G. Department 6 5 0
- St. Patrick's College, Manly 10 10 0

*Shalimar Investments Pty. Limited* contributed £300 to the overseas travel expenses of Associate Professor W. R. Pitney of the School of Pathology.
APPENDIX 3

The Shell Company of Australia Limited contributed £100 towards the cost of publishing a Chemical Data Book.

Associate Professor E. M. Stephenson donated £10 10s. to the School of Biological Sciences Fund.

Stewarts and Lloyds (Aust.) Pty. Limited contributed £26 5s. to the School of Electrical Engineering Research Fund.

Summer School for Teachers of Chemistry, 1965: Donations totaling £2,157 5s. have been received from the following organizations towards the expenses of the 1965 Summer School:

B.A.L.M. Paints Limited ................................... £5 5 0
Bank of New South Wales ................................ 100 0 0
Broken Hill Pty. Co. Limited ............................... 800 0 0
Chemical Materials Limited ................................. 10 0 0
Colonial Sugar Refining Co. Limited ...................... 150 0 0
Drug Houses of Australia ................................... 15 15 0
General Motors-Holden's Pty. Limited .................... 50 0 0
Imperial Chemical Industries of A. & N.Z. ............... 100 0 0
John Lysaght (Aust.) Limited ............................... 100 0 0
Metal Manufactures Limited ................................. 50 0 0
Moreland Metal Co. Pty. Limited ........................... 5 5 0
Monsanto Chemicals (Aust.) Ltd. ......................... 100 0 0
Parke Davis & Company ..................................... 21 0 0
Shell Coy. of Australia .................................... 100 0 0
Stewarts & Lloyds (Aust.) Pty. Ltd ......................... 100 0 0
Unilever (Aust.) Pty. Limited .............................. 200 0 0
W. D. & H. O. Wills ......................................... 250 0 0

Summer School for Teachers of Mathematics, 1964: Donations totalling £1,250 have been received from the following organizations towards the expenses of the 1964 Summer School:

Anthony Hordern & Son Limited ............................ £25 0 0
Ampol Petroleum Limited .................................. 100 0 0
Australian Consolidated Industries ....................... 100 0 0
Broken Hill Pty. Co. Limited .............................. 100 0 0
G. J. Coles & Co. Limited .................................. 100 0 0
Colonial Sugar Refining Co. Ltd. ......................... 50 0 0
Grace Bros. Pty. Limited .................................. 25 0 0
Imperial Chemical Industries of A. & N.Z. ............... 50 0 0
Mutual Life & Citizens Assurance ......................... 50 0 0
Nestlé Co. (Aust.) Limited ................................ 25 0 0
Rheem (Aust.) Pty. Limited ................................ 25 0 0
Rothmans (Aust.) Limited .................................. 100 0 0
Rural Bank of N.S.W. ....................................... 100 0 0
Standard Telephones & Cables Pty. Ltd. .................. 100 0 0
Sydney County Council ...................................... 100 0 0
Unilever (Aust.) Pty. Limited .............................. 100 0 0
Woolworths Limited ......................................... 100 0 0
Sydney County Council: The Sydney County Council made a donation of £1,000 in connection with the Measurements Laboratory in the School of Electrical Engineering.

Tooheys Limited made a donation of £250 for studies on the continuous fermentation of micro-organisms by the School of Biological Sciences.

Estate of the late Ivy P. Trevillion: An amount of £134 14s. 8d. was donated to the University Special Purposes Fund.

Union Carbide Aust. Limited donated £300—£100 towards the cost of publishing a Chemical Data Book and £200 towards the oversea travel expenses of Professor S. J. Angyal.

United States Air Force: Grants totalling £7,602 19s. 3d. have been received from the United States Air Force for research on the following projects:

- Positronium (School of Chemistry) .... £1,652 9 0
- The nuclear three body problem (School of Mathematics) .... 5,950 10 3

United States Army: An amount of £6,673 9s. 9d. was received for research by the School of Chemistry on the preparation of some new chelating ligands and for the investigation of their metallic complexes.

United States Department of Health Education and Welfare: The Department has donated £27,602 17s. 2d. for the following purposes:

- Synthesis of phosphoinositides (School of Chemistry) .... £4,599 15 0
- Insect venoms attractnts and repellents (School of Chemistry) .... 6,713 12 9
- The electrical properties of psychotropic substances (School of Chemistry) .... 5,098 5 7
- Research instrumental control of respiration (School of Applied Psychology) 3,298 17 9
- Research Fellowship—Dr. W. Corpe (School of Biological Sciences) .... 222 9 11
- Research on mediation of vascular responses in inflammation (School of Pathology) .... 7,669 16 2

University Prizes and Awards: Donations were received from the following persons and organizations:

- A.E.I. Engineering Pty. Ltd. .... £2 2 0
- Assoc. of Consulting Structural Engineers 50 0 0
- Miss R. Atkins .... 10 10 0
- Mrs. M. Austin .... 10 0 0
- Austral Bronze Co. Pty. Ltd. .... 5 0 0
- Australian Aluminium Co. Limited .... 5 5 0
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<td>Australian Welding Institute</td>
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<td>Arthur Cocks &amp; Co. Ltd.</td>
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<td>Colonial Sugar Refining Co. Ltd.</td>
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<td>Corneal Lens Corp. Pty. Ltd.</td>
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<td>Greenwood Challoner &amp; Co.</td>
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</tr>
<tr>
<td>Hoover (Aust.) Pty. Ltd.</td>
<td>20 0 0</td>
</tr>
<tr>
<td>Inglis Hudson Trust</td>
<td>3 11 1</td>
</tr>
<tr>
<td>Institute of Diesel Engineers</td>
<td>10 10 0</td>
</tr>
<tr>
<td>Institute of Fuel</td>
<td>15 15 0</td>
</tr>
<tr>
<td>Institute of Quantity Surveyors</td>
<td>26 5 0</td>
</tr>
<tr>
<td>Organization</td>
<td>Contribution</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Institute of Radio &amp; Electronic Engineers</td>
<td>30 0 0</td>
</tr>
<tr>
<td>James Hardie &amp; Co. Pty. Ltd.</td>
<td>70 0 0</td>
</tr>
<tr>
<td>John Fairfax Ltd.</td>
<td>42 0 0</td>
</tr>
<tr>
<td>Manual Arts Teachers' Association</td>
<td>10 10 0</td>
</tr>
<tr>
<td>Marley Reliance Industries Pty. Ltd.</td>
<td>25 0 0</td>
</tr>
<tr>
<td>Master Builders' Association</td>
<td>200 0 0</td>
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<tr>
<td>Merck Sharp &amp; Dohme (Aust.) Pty. Ltd.</td>
<td>52 10 0</td>
</tr>
<tr>
<td>Morganite Pty. Ltd.</td>
<td>50 0 0</td>
</tr>
<tr>
<td>Professor R. H. Myers</td>
<td>10 0 0</td>
</tr>
<tr>
<td>MacDougalls Ltd.</td>
<td>20 0 0</td>
</tr>
<tr>
<td>F. MacLurcan</td>
<td>5 5 0</td>
</tr>
<tr>
<td>Nestlé Co. Limited</td>
<td>2 2 0</td>
</tr>
<tr>
<td>North Shore Gas Co.</td>
<td>5 5 0</td>
</tr>
<tr>
<td>N.S.W. Geological Society</td>
<td>12 12 0</td>
</tr>
<tr>
<td>Optical Products Pty. Ltd.</td>
<td>21 0 0</td>
</tr>
<tr>
<td>Opticians &amp; Optometrists Assoc. of N.S.W.</td>
<td>10 10 0</td>
</tr>
<tr>
<td>Parkes Wool Promotion Committee</td>
<td>25 0 0</td>
</tr>
<tr>
<td>Petroleum Refineries (Aust.) Pty. Limited</td>
<td>31 10 0</td>
</tr>
<tr>
<td>Mr. S. W. G. Ratcliff</td>
<td>10 10 0</td>
</tr>
<tr>
<td>Royal Australian Institute of Architects</td>
<td>25 0 0</td>
</tr>
<tr>
<td>Shakespeare Dinner Sponsors and Organizers—Shakespeare Prize in Department of Drama</td>
<td>125 0 0</td>
</tr>
<tr>
<td>Smith Kline &amp; French Laboratories</td>
<td>25 0 0</td>
</tr>
<tr>
<td>Standard Telephones &amp; Cables Pty. Ltd.</td>
<td>2 2 0</td>
</tr>
<tr>
<td>State Public Service R.S.S.A.I.L.A. Branch</td>
<td>10 10 0</td>
</tr>
<tr>
<td>Statistical Society of Australia</td>
<td>6 6 0</td>
</tr>
<tr>
<td>Stauffer Chemical Co.</td>
<td>10 10 0</td>
</tr>
<tr>
<td>Taxation Institute of Australia</td>
<td>10 10 0</td>
</tr>
<tr>
<td>Tooheys Ltd.</td>
<td>2 2 0</td>
</tr>
<tr>
<td>Tooth &amp; Co. Ltd.</td>
<td>2 2 0</td>
</tr>
<tr>
<td>Unilever (Aust.) Pty. Ltd.</td>
<td>63 0 0</td>
</tr>
<tr>
<td>(Mr. J. Watson) Wollongong Pastoral Co.</td>
<td>6 6 0</td>
</tr>
<tr>
<td>F. W. Williams</td>
<td>21 0 0</td>
</tr>
<tr>
<td>E. S. Wolfenden</td>
<td>10 10 0</td>
</tr>
<tr>
<td>Henry H. York &amp; Co. Pty. Ltd.</td>
<td>25 0 0</td>
</tr>
</tbody>
</table>

*University Sports Association:* A total contribution of £2,550 was made—£800 for the clubhouse at the David Phillips Field, Daceyville, £1,500 for floodlights at Kensington, and £250 for the maintenance of sporting facilities.

*Upjohn Pty. Limited:* This Company donated £1,675 for the study of controlled breeding of sheep using “Repromix”.

*Professor H. R. Vallentine* contributed an amount of £50 to the Hydraulic Research Trust Fund in the School of Civil Engineering.
Visiting Professor L. F. Urwick donated £210 for a prize in Business Administration.

Dr. Werner von Bergen donated £25 7s. 2d. to the School of Wool Technology flock testing research.

Dr. G. Wallwork donated £2 12s. to the School of Metallurgy Research and Special Activities Fund.

Water Research Foundation of Australia Limited: The Foundation made available an amount of £12,050 for the following projects:

- Nuclear chemical study of the age and renewal rate of the Great Artesian Basin (School of Chemistry) £900
- Research into the problems associated with sealing control in distillation processes (School of Chemical Engineering) £500
- Research into improved methods for the design and construction of farm dams (School of Civil Engineering) £2,250
- Study of flow characteristics of semi-circular side-channel spillways (School of Civil Engineering) £750
- Study of measurement of time of concentration and hydrographic characteristics of small rural catchments using radio-active tracers (School of Civil Engineering) £500
- Research on the effects of exotic soft-wood afforestation on water yield (School of Civil Engineering) £2,500
- Research into the derivation of initial loss (School of Civil Engineering) £750
- Research on desiccation failures in small dams (School of Civil Engineering) £1,050
- Review and analysis of the use of plastic in the field of water engineering (School of Civil Engineering) £850
- Maintenance Water Research Reference Library at Manly Vale £2,000

The Wellcome Trust: A grant of £3,750 was received for studies on anaemia in New Guinea by the School of Pathology.

Wheat Industry Research Council: The Wheat Industry Research Council made a grant of £7,130 to the School of Mechanical Engineering for research in the following fields:

- Soil tillage investigation £3,855
- Scarifier and combine drill points £2,215
Comparative performance of different systems of tine mounting .... 910 0 0
Bulk handling of wheat (Wollongong University College) .... 150 0 0

W. D. and H. O. Wills (Aust.) Limited: The Company made grants totalling £1,775 for the following research projects:
High-vacuum diffraction study in the School of Physics .... £1,400 0 0
Research in the School of Sociology by Associate Professor A. A. Con-galton .... 375 0 0

The Wool Research Committee and Australian Wool Board made available a total amount of £117,499 for research in the School of Wool and Textile Technology:

School of Wool Technology
Flock testing .... £16,156 0 0
Anomalies in fibre processing .... 7,553 0 0
Competition between wool and other fibres .... 3,226 0 0
Ram wastage—urinary calculi .... 2,927 0 0
The selection efficiency of 2- and 4-tooth merino rams .... 2,575 0 0
The impact of nutritional factors—Yass River Valley .... 420 0 0

School of Textile Technology
Complexes of dyes and surface-active agents .... 4,150 0 0
Accelerated ageing of worsted manufactures .... 3,200 0 0
Development of a weft tension regularity device .... 2,700 0 0
Investigation of:
(a) Significant wool properties in processing and end use
(b) effects of ionising radiation on wool
(c) relationship between yarn and fibre irregularity

Investigation of:
(a) the permanence of wool bleaches
(b) blowing at temperatures near 100°C.

Improvments in wool scouring .... 15,030 0 0
APPENDIX 3

X-ray and wave diffraction in keratin 1,850 0 0
Wool polymer reaction 4,200 0 0
Wool top manufacture 17,000 0 0
Continuous chemical processing 7,487 0 0

Wollongong University College Library Appeals Fund: An amount of £459 4s. 9d. was received from various donors.

Wyeth Pharmaceuticals Pty. Ltd.: This Company donated an amount of £100 towards the oversea travel expenses of Professor J. Beveridge of the School of Paediatrics.
Finances of the University, 1964

During 1964 income received from all sources totalled £9,020,736 while aggregate expenditure incurred totalled £8,176,228.

Income was received from the following sources, and comparison is made with 1963 and 1962 in amount and percentage of total:

<table>
<thead>
<tr>
<th>Source of Income</th>
<th>1964 Amount</th>
<th>1963 Amount</th>
<th>1962 Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. State Government Grants—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recurrent Expenditure</td>
<td>£3,182,175</td>
<td>£2,768,000</td>
<td>£2,340,000</td>
</tr>
<tr>
<td>Schedule Projects</td>
<td>£933,800</td>
<td>£826,585</td>
<td>£1,456,000</td>
</tr>
<tr>
<td>General Research</td>
<td>£62,500</td>
<td>£...</td>
<td>£...</td>
</tr>
<tr>
<td>Non-schedule Projects</td>
<td>£134,615</td>
<td>£...</td>
<td>£20,000</td>
</tr>
<tr>
<td>Total</td>
<td>£4,313,090</td>
<td>£3,594,585</td>
<td>£3,816,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenditure Headings</th>
<th>1964 Amount</th>
<th>1963 Amount</th>
<th>1962 Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Salaries and Staff Charges—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recurrent Expenditure</td>
<td>£4,836,193</td>
<td>£3,941,351</td>
<td>£3,367,574</td>
</tr>
<tr>
<td>General Research Grants</td>
<td>£25,453</td>
<td>£...</td>
<td>£...</td>
</tr>
<tr>
<td>Special Purposes—Research</td>
<td>£220,065</td>
<td>£169,574</td>
<td>£124,120</td>
</tr>
<tr>
<td>Special Purposes—Other</td>
<td>£41,127</td>
<td>£40,968</td>
<td>£56,539</td>
</tr>
<tr>
<td>Total</td>
<td>£5,122,838</td>
<td>£4,151,893</td>
<td>£3,548,233</td>
</tr>
</tbody>
</table>

Expenditure was incurred from the following sources for the purposes indicated, and again comparison is made with 1963 and 1962 in amount and percentage of total:
## APPENDIX 3

<table>
<thead>
<tr>
<th>Expenditure Headings</th>
<th>1964</th>
<th>1963</th>
<th>1962</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amount</td>
<td>%</td>
<td>Amount</td>
</tr>
<tr>
<td>2. New Buildings (including Sites)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grants for Building Projects etc. under States Grants (Universities) and Universities (Financial Assistance) Acts</td>
<td>853,162</td>
<td></td>
<td>1,276,063</td>
</tr>
<tr>
<td>Grants—Non-schedule Projects</td>
<td>79,907</td>
<td>7,021</td>
<td></td>
</tr>
<tr>
<td>Special Purposes—Research</td>
<td>1,988</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Purposes—Other</td>
<td>11,744</td>
<td>53,936</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>944,813</td>
<td>11·56</td>
<td>1,339,008</td>
</tr>
<tr>
<td>3. Maintenance Expenses—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recurrent Expenditure</td>
<td>1,096,037</td>
<td>1,055,459</td>
<td></td>
</tr>
<tr>
<td>General Research</td>
<td>11,556</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Purposes—Research</td>
<td>62,491</td>
<td>42,074</td>
<td></td>
</tr>
<tr>
<td>Special Purposes—Scholarships etc.</td>
<td>38,694</td>
<td>40,447</td>
<td></td>
</tr>
<tr>
<td>Special Purposes—Other</td>
<td>117,952</td>
<td>118,657</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1,326,730</td>
<td>16·22</td>
<td>1,256,637</td>
</tr>
<tr>
<td>4. Major Plant and Equipment, Furniture and Library—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recurrent Expenses</td>
<td>404,260</td>
<td>479,501</td>
<td></td>
</tr>
<tr>
<td>General Research</td>
<td>54,566</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grants for Building Projects etc. under States Grants (Universities) and Universities (Financial Assistance) Acts</td>
<td>102,881</td>
<td>157,514</td>
<td></td>
</tr>
<tr>
<td>Grants—Non-schedule Projects</td>
<td>20,071</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Purposes—Research</td>
<td>96,376</td>
<td>88,524</td>
<td></td>
</tr>
<tr>
<td>Special Purposes—Other</td>
<td>103,693</td>
<td>64,554</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>781,847</td>
<td>9·56</td>
<td>790,093</td>
</tr>
<tr>
<td>Total Expenditure</td>
<td>8,176,228</td>
<td>100·00</td>
<td>7,537,631</td>
</tr>
</tbody>
</table>

The aggregate funds held at the close of 1964 amounted to £2,808,706 comprising the following funds, and comparison is made with 1963 and 1962.

<table>
<thead>
<tr>
<th>Funds</th>
<th>1964</th>
<th>1963</th>
<th>1962</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recurrent Purposes</td>
<td>73,189</td>
<td>11,375</td>
<td>129,463</td>
</tr>
<tr>
<td>General Research</td>
<td>33,425</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Purposes—Research</td>
<td>266,886</td>
<td>208,612</td>
<td>204,074</td>
</tr>
<tr>
<td>Special Purposes—Scholarships etc.</td>
<td>23,161</td>
<td>23,960</td>
<td>20,341</td>
</tr>
<tr>
<td>Special Purposes—Other</td>
<td>1,490,190</td>
<td>1,395,849</td>
<td>1,098,424</td>
</tr>
<tr>
<td>State Government Non-schedule Projects</td>
<td>100,127</td>
<td>65,490</td>
<td>72,510</td>
</tr>
<tr>
<td>State and Commonwealth Government Grants for Schedule Projects under States Grants (Universities) and Universities (Financial Assistance) Acts</td>
<td>821,728</td>
<td>258,913</td>
<td>39,320</td>
</tr>
<tr>
<td>Total Funds</td>
<td>2,808,706</td>
<td>1,964,199</td>
<td>1,564,132</td>
</tr>
</tbody>
</table>
The operating income and expenditure in 1964, excluding income and expenditure on capital items (Universities (Financial Assistance) Act definition), general research grants, special purposes and schedule and non-schedule building projects and equipping, are shown below and compared with 1963 and 1962.

Income was received from the following sources:

<table>
<thead>
<tr>
<th>Source of Income</th>
<th>1964</th>
<th>1963</th>
<th>1962</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amount</td>
<td>%</td>
<td>Amount</td>
</tr>
<tr>
<td>1. <em>State Government Grants</em>—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consolidated Revenue Fund</td>
<td>3,182,175</td>
<td>50.38</td>
<td>2,768,000</td>
</tr>
<tr>
<td>2. <em>Commonwealth Government Grants</em>—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recurrent</td>
<td>2,212,000</td>
<td>35.02</td>
<td>1,715,000</td>
</tr>
<tr>
<td>3. Students’ Fees</td>
<td>909,833</td>
<td>14.41</td>
<td>802,232</td>
</tr>
<tr>
<td>4. Other General Income</td>
<td>11,997</td>
<td>0.19</td>
<td>43,019</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>6,316,005</strong></td>
<td><strong>100.00</strong></td>
<td><strong>5,328,251</strong></td>
</tr>
</tbody>
</table>

Expenditure was incurred as follows:

<table>
<thead>
<tr>
<th>Expenditure Headings</th>
<th>1964</th>
<th>1963</th>
<th>1962</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Amount</td>
<td>%</td>
<td>Amount</td>
</tr>
<tr>
<td>1. Salaries and Staff Charges</td>
<td>4,836,193</td>
<td>77.33</td>
<td>3,941,351</td>
</tr>
<tr>
<td>2. Maintenance Expenses</td>
<td>1,045,190</td>
<td>16.71</td>
<td>1,033,126</td>
</tr>
<tr>
<td>3. Major Plant and Equipment, Fur-</td>
<td>372,808</td>
<td>5.96</td>
<td>471,862</td>
</tr>
<tr>
<td>niture and Library</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Expenditure</strong></td>
<td><strong>6,254,191</strong></td>
<td><strong>100.00</strong></td>
<td><strong>5,446,339</strong></td>
</tr>
</tbody>
</table>

The charts which follow show as part of each £1 of income, the amounts received from each source of income, and as a part of each £1 of expenditure, the amounts expended on each purpose in respect of (1) the aggregate income and expenditure, and (2) the operating income and expenditure of the University for 1964.
APPENDIX 3

Chart 1

Showing in Respect of 1964 the Aggregate Amounts of Income and Expenditure

A. The amounts received from the various sources of income and incurred on the various purposes of expenditure.

B. The percentage which each source of income or purpose of expenditure represents of total income or expenditure.

C. The proportion which each source of income or purpose of expenditure represents of each £1 of total income or expenditure.

Aggregate Income £9,020,736  Aggregate Expenditure £8,176,228

STATE GOVERNMENT GRANTS £2,859,558  62.66%

COMMONWEALTH GOVT. GRANTS £2,859,558  31.70%

X Students' Fees, £909,833.
Y Other General Income, £94,296.
Z Plant, Furniture and Library, £781,847.

SALARIES & STAFF CHARGES £5,122,838  12/6

NEW BUILDINGS £1,326,730  3/3

MAINTENANCE EXPENSES £1,326,730  11.56%

SPEC. PURPOSES FUNDS £843,959  9.36%

16.22%

X  10.09%

3/3

12/6

2/-

1/10

6/4

9.56%  1.04%
Showing in Respect of 1964 the Income Received and Expenditure Incurred on University Purposes Exclusive of Capital* and Special Purposes.

A. The amounts received from the various sources of income and incurred on the various purposes of expenditure.

B. The percentage which each source of income or purpose of expenditure represents of total income or expenditure.

C. The proportion which each source of income or purpose of expenditure represents of each £1 of total income or expenditure.

Operating Income £6,316,005 Operating Expenditure £6,254,191

X Other General Income, £11,997.
Y Plant, Furniture and Library, £372,808.

* In terms of Definition Universities (Financial Assistance) Act.
SUMMARY OF RESEARCH IN 1964
Foreword

It is again my pleasure to write the foreword to the Research Report.

As in the past, the research carried out in each School has been summarized in order to present a concise picture of the overall research effort at this University in 1964. A more detailed report will be made available later in the year for members of other universities and research institutions who require additional information and titles of published research papers.

The year 1964 was a significant one for all Australian universities. In that year the Australian Universities Commission, for the first time, allocated relatively large amounts of money to be used specifically for research. The funds made available, though not sufficient to meet all needs, have permitted a number of worthwhile projects to be accelerated and some new and important studies to be initiated. The momentum given to research has not yet manifested itself in the projects and publications appearing in this Report, but its results, I am sure, will become obvious in the near future.

It is appropriate that I should express the delight of all my colleagues with the support received, and my personal belief that the investment in university research will produce manifold dividends for the nation.

There is another matter I should mention. This is the decision of the Council to increase the responsibilities of the Faculties. The Faculties were, inter alia, made responsible for higher degrees and post-graduate research. This in itself is important, but what is more important is that the re-constituted Faculties are now in a position to establish post-graduate schools on a faculty-wide basis. The establishment of a graduate school within the Faculty of Engineering has already been announced, and the establishment of other graduate schools will, no doubt, follow. Such developments will accelerate the dissemination of advanced knowledge—the important by-product of fundamental research—and thereby assure the strengthening of our growing industries.

The research activities of the Newcastle University College are included in this Report for the last time. As Newcastle has now been granted autonomy, the research of the University of Newcastle will be reported independently in the future. On behalf of my colleagues on the Research and Higher Awards Committee, and indeed on behalf of all members of the University of New South Wales, I extend our very best wishes for the successful pursuance of research at “Newcastle”.

R. A. A. BRYANT,
Nuffield Professor of Mechanical Engineering.
Chairman, Research and Higher Awards Committee of the Professorial Board.
FACULTY OF APPLIED SCIENCE

School of Applied Geology

In pursuance of the policy of developing the applied aspects of the geological sciences, a substantial part of the research activity of this School is concerned with metallic and non-metallic deposits, applied geophysics and engineering geology.

Long-term major research projects in the School of Applied Geology included the following: (i) the mineralization and genesis of important Australian ore deposits (Broken Hill in particular); (ii) studies of the mineralogical constitution and economic application of clays and allied deposits, and rock weathering phenomena; (iii) phase equilibria studies among the metallic sulphide systems; (iv) mineralogical and petrological studies furnishing identifying data and solution of petrogenetic problems; (v) stratigraphic correlative studies of New South Wales sediments and their use in coal seam correlation; and (vi) micropaleontological investigations which may have a bearing on oil-field problems and conditions of deposition of recent as well as more ancient sediments. Oceanographic studies continued, and two staff members again participated in research cruises off the Australian coast.

Forty new student petrological microscopes, a Philips X-ray diffractometer, a 12 channel refraction seismograph, and an electronic point counter were purchased.

Four students were registered for the degree of Doctor of Philosophy, and fifteen for the degree of Master of Science.

During the past twelve months papers covering a wide range of research activity were published.

School of Chemical Engineering

The School of Chemical Engineering, which includes the departments of Chemical Engineering, Fuel Technology and Food Technology, has been actively engaged in recent years in the following fields of research: (i) mass transfer in gas/liquid systems; (ii) gas/solid, gas/liquid systems, especially in the fields of pneumatic and hydraulic conveying and fluidization; (iii) thermodynamics and kinetics in binary and ternary systems; (iv) instrumentation and automatic control of chemical processes; (v) low temperature coal carbonization, and the examination and utilization of liquid and gaseous by-products; (vi) the phenomenon of combustion of solid, liquid and gaseous fuels; and (vii) studies in the re-processing of food, and the chemical and physical properties of colour in foodstuffs.

On behalf of the Faculty of Applied Science the School operates an
IBM 1620 digital computer, and uses this machine for both undergraduate teaching and post-graduate research.

Thirty-nine post-graduate students were registered in 1964.

Fourteen papers by members of staff were published during the year, and Dr. R. H. Buchanan edited two books.

**School of Chemical Technology**

The research activities of the School of Chemical Technology are distributed over its three Departments—Industrial Chemistry, Ceramic Engineering and Polymer Science.

The research activities of *Industrial Chemistry* centre on the use of an analogue computer to simulate process control problems of the kind encountered in the chemical industry. Significant progress has been made in this work, which is being continued by a member of staff while on sabbatical leave at the Battelle Institute in Zurich. The other major research activity in this Department is concerned with a variety of studies on the electrolysis of high temperature salt systems.

Significant new items of research equipment included an electronic digital voltmeter and automatic print-out facility, a gas phase partitioner complete with integrator, high-speed temperature recorders and high temperature furnaces capable of being controlled in a precise and stable fashion.

Eight publications were accepted during the year.

In the *Department of Ceramic Engineering*, research continued on the fundamental studies of the mechanism of crystallization from aqueous solutions and from glasses at high temperatures. As a result of this work, two papers were published and one paper was accepted for presentation to the International Symposium on Autoclaved Calcium Silicate Building Products, the proceedings of which will be published by the Society of Chemical Industries. The basic research programmes are giving a better understanding of the factors governing such processes as the crystallization of calcium silicates from solutions, the reactions in basic bricks at high temperatures and the colour development of clay products. The Department also conducted research into the mechanism of moisture improvements and the effects of capillary forces during drying.

Equipment received included a high temperature X-ray diffractometer and a thermogravimetric balance.

There were seven Master of Science candidates in the Department.

The research activities of the *Department of Polymer Science* continued to increase in these fields: (i) the use of infra-red spectroscopy for the analysis of the structure of high polymers; (ii) the use of gas phase chromatography in a study of transesterification reactions; (iii) the study of the properties of blends of natural rubber—stereospecific polymers; (iv) studies in the extrusion plastimetry with special reference to thermoplastic materials; (v) the effect of ultrasonic vibrations on the polymerization of vinyl compounds; and (vi) an investigation of the effect of zinc alkoxides on the polymerization of alkylene oxides.
During the year, this Department received an F & M Model 810 gas phase chromatograph and a base-sledge microtome for use in its research programmes.

One Doctor of Philosophy and two Master of Science candidates were registered.

School of Metallurgy

Research activities in the School of Metallurgy cover a substantial range of topics of scientific and technological interest. Many metallurgical operations and phenomena are controlled essentially by the processes going on at the interfaces between different phases and a large part of the research effort is directed towards the elucidation of these processes.

A project on mass transfer across gas/liquid and liquid/liquid interfaces, and studies of gas/solid reactions, such as oxidation and reduction, and of phase transformations in the solid state are all part of the research programme.

Other basic research activities relate to various aspects of plastic deformation in metals. Such projects include the study of the effects of inhomogeneities of plastic deformation.

In addition, there are a number of projects of more direct technological interest, including studies of hot cracking in steel; strain ageing in weldments and the effects of restraint on underbead cracking; stress corrosion cracking; plastic flow during extrusion; thermal cracking of lead; refining of lead bullion and the uses of metals in surgery.

During the year about fifty-five minor investigations and research projects were conducted by various members of the School in association with Unisearch. Technical assistance was given to the New South Wales Police Department on a number of occasions.

Twenty-four post-graduate students were working in the School towards the degree of Master or Doctor.

Members of staff published eighteen papers in Australian and overseas journals.

School of Mining Engineering

Research work in the Department of Mining Engineering during 1964 could be classified under three main categories:

(i) Wire ropes: An important improvement was made in methods of testing wire ropes and a provisional patent filed. In association with A.M.I.R.A., a Senior Project Scientist was appointed. This officer is currently overseas.

(ii) Rock mechanics and rock properties: Work on the high pressure triaxial load cell proceeded and test work was projected, a member of staff continuing with field work. Co-operation with industry was maintained. A special lathe, a rock saw and dynamic strain recording equipment were obtained.

(iii) Mine programming: Work on this phase of mining research
continued, and laboratory facilities were improved. Factors of importance in the control of materials handling, especially in relation to bins and stopes, were studied.

In the Department of Mineral Processing research work continued in the following fields:

(i) Processing particulate material: The micro-electrophoresis cell has been used to study the physico-chemical reactions for flotation systems, particularly in the field of iron ore beneficiation. Work on the influence of particle size and aeration on the rate of flotation continued, using batch and continuous flotation tests. A pilot plant York Separator was installed for work on gravity concentration.

(ii) Particle size analysis: A Haultain Infrasizer has been installed and a metal ore microscope obtained to study liberation and particle size distribution.

(iii) Suction dredging: Using the experimental pumping circuit, work has continued on the study of factors influencing the efficiency of suction dredging.

(iv) Coal preparation: Important work on the utilization and washability characteristics of coal from southern coal-fields continued.

In the School six higher degree students were working towards the degree of Master or Doctor.

Eight papers by members of staff were published.

School of Textile Technology

The research activities of the School of Textile Technology during 1964 encompassed the physics and chemistry of protein, cellulosic and synthetic fibres. In particular, considerable emphasis was placed on investigations concerned with wool. For this programme generous funds were supplied by the Australian Wool Research Advisory Committee.

In the wool chemistry field work proceeded on the interaction of dyes and dye auxiliaries, the high temperature setting of wool, the bleaching of wool and the grafting of preformed polymers to the wool surface to modify fibre surface properties. In addition, detailed studies were undertaken to determine the chemical reactions involved when wool is yellowed by heat, light or alkali; when wool is treated with oxidizing agents in bleaching and shrinkproofing; and when dyed wool fades in sunlight. Physical studies were concerned with the rheological behaviour of textile fibres and assemblies in processing and end use; the thermal properties of textile fabrics; the interaction of ionizing radiation with textile materials and structural changes within fibres on stretching.

The School was also engaged in engineering studies to improve the efficiency of wool textile processing operations such as scouring, drying and carbonizing, and in developing improved methods for wool top production.

The major items of equipment acquired during the past year included an infra-red spectrophotometer and a 40 channel analyser for attachment to the electron spin resonance spectrometer.
Eight students were engaged in research work for the degree of Doctor of Philosophy and two students were registered for the degree of Master of Science.

During the year three papers were published by members of staff and a further ten papers were submitted for presentation at the forthcoming International Wool Textile Research Conference.

**School of Wool Technology**

The School's sheep breeding work, in co-operation with leading stud breeders, continued to expand. As a project of operational research, production flocks were established in four leading "parent" studs. These promise to establish firmly in the sheep industry the technique of using measurement to increase the rate of improvement in flocks throughout the country.

Associate Professor I. L. Johnstone organized a particularly active group of workers to study internal parasites, and secured substantial grants from external organizations in support of the work.

Dr. K. J. Whiteley and his group made an important breakthrough in the understanding of felting and the shrinkage of wool goods.

The work of a post-graduate student, Mr. W. B. Osborne, supported by the Boots Pure Drug Company, yielded results which are likely to have considerable practical application in the sheep industry.

Dr. W. R. McManus studied problems of rumen physiology and energy storage during his sabbatical leave. His work on sheep nutrition has been supported by a substantial grant from the Commonwealth Rural Credits Development Fund.

Advice was received that an area of some 600 acres of land close to Wellington in New South Wales had been allocated to the University for use as a research station. A good start was also made on Research Unit No. 1 in the Riverina, based on an area of some 3,000 acres made available to the University by Mulberrygong Ltd.

Dr. Whiteley's Fibre Science Group took delivery of an automatic amino acid analyser.

Eight students were working towards their Doctor of Philosophy and fourteen for the degree of Master of Science.

In addition to the annual two volumes of the School's journal *Wool Technology and Sheepbreeding*, some twelve papers were published in scientific and technical journals.

**FACULTY OF ARCHITECTURE**

**School of Architecture and Building**

During 1964 the School of Architecture and Building established a research laboratory at King Street, Randwick, and embarked upon three research programmes of importance to the building industry. One of these involved an examination of structural plywood to determine the
structural properties of various timbers used in its manufacture with particular reference to performance as bulkhead sheathing under open sea conditions.

A further activity which is worthy of comment is the School's continued participation with the State Planning Authority in the accurate documentation of historic buildings in the Sydney district: in 1964 the following buildings were recorded for this purpose:

(1) Houses facing Argyle Place;
(2) Glenfield Farm, Casula;
(3) Liverpool Technical College;
(4) Denbigh, Narellan;
(5) Macquarie Fields House;
(6) Victoria Barracks.

During the year two candidates were registered for the degree of Doctor of Philosophy, ten for the degree of Master of Architecture and five for the degree of Master of Building.

Members of staff published ten articles in professional and scientific journals.

FACULTY OF ARTS

School of English

Members of the School continued to be very active in research and publication. Three members of the English staff contributed chapters to the new Pelican volume *The Literature of Australia*, edited by Geoffrey Dutton. Dr. H. P. Heseltine wrote the chapter "Australian Fiction since 1920"; Professor H. J. Oliver wrote on "Lawson and Furphy"; and Associate Professor Leonie Kramer on "Henry Handel Richardson". In addition, several articles on Australian literature were published, including R. G. Geering's on Hal Porter and Professor Kramer's on Randolph Stow in *Southerly*, No. 2, and O. N. Burgess's on Stow in *The Australian Quarterly*.

The revised form of Professor Oliver's New Arden edition of "Timon of Athens" was published by Methuen in London during the year; and Professor Oliver was commissioned by the same publisher to edit "Dido Queen of Carthage" and "The Massacre at Paris", as part of a new collected edition of Christopher Marlowe's plays in the Revels series.

Research work on Language continued to be an important part of the work of the School, and publications in 1964 included N. R. Cattell's "New Approaches to Grammar" in *The English Teacher*, No. 5. O. N. Burgess's "Fifty Years of 'Granny'" in *The Australian Quarterly*, No. 3, represents work of a more general kind.

As yet, there are no post-graduate students in the School of English.

School of History

Research in the following general fields was conducted in 1964: early modern French history; Australian, Irish, African and Indian history;
seventeenth and nineteenth century English history and nineteenth century anarchism.

Research material for the School and the Library was obtained by Professor Salmon while on study leave in France and England, and by A. T. Yarwood on leave in India. A microfilm copy of a valuable manuscript source in seventeenth century legal history was obtained from the British Museum.

Four students were registered for the Master of Arts degree and one for the degree of Doctor of Philosophy.

Two books and four articles were published by members of the staff.

School of Librarianship

In December the University received a grant of $7,500 from the Council on Library Resources, Inc., Washington D.C., U.S.A. for research on alphabetical subject indexing in the School of Librarianship under the direction of Mr. John Metcalfe, the Head of the School.

In March, Mr. Metcalfe attended the third of the Rutgers Seminars on Systems for the Intellectual Organization of Information, organized by the Graduate School of Library Service, Rutgers, the State University, New Brunswick, New Jersey. The subject of this Seminar was a paper by Mr. Metcalfe, “Alphabetical Subject Indication of Information”.

While in England and the United States Mr. Metcalfe was able to buy for the Library a number of out-of-print works dealing with bibliography and librarianship. In view of the recent establishment of the Library, the material bought in this way forms an unusual group of items which will strengthen opportunities for research.

The Master’s Degree of Librarianship was open to candidates for the first time this year. Of those registered, eight sat for the examination at the conclusion of the formal course, and five passed.

Two papers were published by Mr. Metcalfe in 1964.

School of Philosophy

In the Department of Philosophy research topics included the foundations of the theory of probability; one-valued logic and its interpretation; simplification of the decision procedure for real-number algebra; the logic of questions; philosophical method; preparation of a commentary on Aristotle’s ethics; laws of science and law-like statements; contrary-to-fact conditionals; limiting or meaningless questions; compossibility and possible worlds; and the political philosophy of Hooker.

One candidate was registered for the degree of Doctor of Philosophy.

During the year members of staff contributed articles to an internationally-prepared Encyclopaedia of Philosophy, and published four papers.

In the Department of History and Philosophy of Science further progress was made in the preparation of source material for use in courses on the history of chemistry. Preliminary work was completed
on a project designed to lead to the preparation of a Union Catalogue for Australian libraries of holdings in the history and philosophy of science.

Several critical works on the history of chemistry by Helen Metzger were translated and annotated; a star map, oriented for southern hemisphere observers, was prepared for publication; and study begun on some hitherto unexplained errors in Sir William Herschel's account of the discovery of Uranus.

Three candidates were registered for higher degrees: one for the Doctor of Philosophy degree, two for the degree of Master of Arts.

Six articles by members of staff were published during the year.

School of Political Science

During 1964 the standing of the Department of Political Science was raised to that of a School.

Fields of research investigated by Professor Douglas McCallum included: (i) recent and contemporary social and political theory, especially work on political sociology and "behaviourism"; (ii) Russian government and politics; and (iii) the concepts of "power" and "influence".

Professor Ruth Atkins was engaged on research into: (i) comparative urban government, especially government of capital cities and (ii) courts and court processes. With the help of Miss C. McSullea, she has undertaken the production of a descriptive and critical summary for the layman of the main features of Australian legal systems, courts and their personnel, procedures et cetera.

The precise causal role of ideologies in politics, and developments in the study of Russian government and politics were studied by Dr. P. D. Marchant.

Mr. A. C. Palfreeman carried out research in the fields of international relations and White Australia policy.

Members of the School of Political Science published a number of papers, including a paper on "Polycentrism in Communism" (to be published in book form) by Professor Douglas McCallum; and a translation by Professor Ruth Atkins of a thesis from the French, "Capital Cities and their Constitutional Status" (with the permission of the author, Dr. Simone Dreyfus of the University of Paris) for limited circulation by the National Capital Development Commission, Canberra.

School of Sociology

The following research projects were undertaken or completed by members of the School of Sociology during 1964: Professor M. S. Brown, Head of the School, continued studies of migrant crime in Australia, and assisted the Commonwealth Immigration Advisory Committee in various projects. He also made several studies of the administration and functioning of community development programmes in Ceylon.
Associate Professor A. A. Congalton conducted an investigation of the public image of the hospital matron, and also examined tensions in the hospital ward, continuing his previous studies of the nursing profession.

Professor J. B. Montague, Visiting Professor during 1964, undertook stratification studies in Australia, in line with research previously conducted in the United States and the United Kingdom.

G. Audrey Rennison extended her investigation of country towns in Australia through demographic studies and an examination of functional aspects of towns in wheat-producing areas.

Dr. E. H. R. Dowdy was engaged in an examination of the political and religious sociology of Max Weber.

R. A. Nies concluded a case study of socio-cultural change through time, using a community system as the basis, and continued a structural-functional analysis of the community structure.

P. A. Vinson, in association with Gillian Lupton, examined role expectations and role conflicts with particular reference to hospital matrons and their deputies, and Gillian Lupton, currently registered for a higher degree, continued research into adult socialization and occupational values.

A number of papers were published, including “The Organizational Teacher” by Professor M. S. Brown; “Service and Status” and “Is Australia a Classless Society?” by Associate Professor A. A. Congalton; and “Training for Social Work in Australia” by G. Audrey Rennison.

School of Western European Languages

During the year 1964, in the Department of French, Professor Judith O. Robinson collaborated with Dr. A. A. Martin, Lecturer in French at the University of Sydney, in the publication of a book for high school and university students entitled “France Today, Background to a Modern Civilisation” (Ian Novak, Sydney, 1964). She also carried out research work on the thought of Paul Valéry, leading to the publication of an article: “Valéry’s Conception of Training the Mind” (French Studies, Vol. XVIII, July, 1964). In addition, she delivered a paper on “Valéry critique de Bergson” to the 1964 Congress of the Association Internationale des Études Françaises in Paris. In the latter part of the year, Professor Robinson commenced research work on an anthology of Valéry’s personal notebooks for the French Pleiade edition.

L. R. Chambers, Senior Lecturer, continued his research work for a doctorate of the University of Grenoble on the subject “Gérard de Nerval et la poétique du voyage”. His article “Speed and Delay in Nerval” was published in the Australian Journal of French Studies (Vol. 1, No. 1, 1964), and he delivered a paper entitled “Nerval and Héloïse: the Dialectic of Identity” to the 1964 A.U.L.L.A. Congress in Melbourne. His research on recent trends in the French theatre led to articles on this subject, one of which, “The French Theatre of Today”, was published in Esprit and Geist (No. V, 1964).
FACULTY OF COMMERCE

School of Accountancy

Research projects undertaken by members of the School of Accountancy during the year were: government superannuation fund accounting in New South Wales; the development and trend of public hospital accounting in New South Wales and Victoria; measurement of profit in life assurance companies; Australian finance companies—analysis of funds and profits; a theory of business budgeting; the impact of organization and communication theory on accounting; the theory and practice of trade discounts; capital investment—an analysis of the application of profitability tests in capital budgeting and in appraising performance; accounting for long-term projects in the development and construction industries; measurement and reporting of company performance; comparative study of accounting and taxable concepts of income; accounting for overhead costs in multi-product firms; field problems relating to the use of statistical sampling in auditing; the role of the Auditor-General with special reference to the Commonwealth of Australia; and the application of mathematical models to inventory control.

Five candidates were enrolled for the degree of Master of Commerce.

During the year, members of the staff contributed five articles to Australian and overseas accounting journals.

School of Business Administration

The Graduate School of Business Administration entered upon its second year of teaching in 1964. The first course leading to the degree of Master of Administration has now been completed. The School hopes to graduate its first Master's candidates in 1965.

Research activities in the School increased in 1964. A survey of marketing education in Australia was completed and sent to the International Marketing Federation in the United States, which is conducting a world survey of marketing education. The survey was based on a widely-disseminated questionnaire and on personal visits and discussions. Some progress was recorded in the collecting of information for a business history of Nuffield (Australia) Pty. Ltd. The death of Mr. V. Molesworth, senior tutor in the School and a Ph.D. candidate in business administration, terminated two projects he was undertaking. One of these, a review of the efficacy of company house magazines, was taken up by D. Graham, a lecturer in the School. The latter also undertook research into business games.

Two candidates for the degree of Doctor of Philosophy were registered.

The late Mr. Molesworth published, early in 1964, a book entitled "Factors in Effective Communication" (West). Professor Wills was the author of a number of articles.

School of Economics

Research by members of the School of Economics covered a wide variety of topics in pure and applied economics, statistics, industrial
relations and economic history. During 1964 the following research projects were undertaken: competition monopoly and the law; Australian economic growth 1788-1821; growth and fluctuations in the Australian economy since 1945; a biography of Captain Anthony Fenn Kemp; the theory of economic growth; optimal tariffs and optimal taxes; the terms of trade; the concept and measurement of world liquidity; equilibrium in world trade; the gains from trade; the estimation of stochastically dependent equations; regressions of the second kind; the consistency of k-class estimators in the presence of auto-correlated errors; the Australian building industry; the Australian balance of payments; inflation in Australia since 1953; the immigration of non-Europeans to Australia; problems of aggregation in the theory of inventory investment; a survey of the needs among the old; the movement for an eight hour day in N.S.W.; and hire purchase in Australia.

Four candidates were registered for the degree of Master of Commerce, six for the degree of Master of Arts in Economics and three for the degree of Doctor of Philosophy.

Thirteen articles were published on the basis of research on the above topics.

School of Hospital Administration

During the year the syllabus of the Master's degree course and the conditions for the award of this degree were extensively revised. A new diploma course was designed and will be offered in March 1965.

Three major research projects continued throughout the year: (i) on hospital administrative and clerical staff and staffing structure of all hospitals in Australia; (ii) on the extent and nature of hospital and health service provision in Australian States and Territories; and (iii) on medical recording as a means of communication.

Three candidates were registered for the degree of Master of Hospital Administration.

There were seven publications during the year.

FACULTY OF ENGINEERING

School of Civil Engineering

Research in the School of Civil Engineering in many cases is financed by grants from other institutions such as the Department of Main Roads, State Electricity Commission, Australian Road Research Board, C.S.I.R.O., the Water Research Foundation of Australia and private firms.

Some of the research projects undertaken by the staff of the School include: (i) model and computer analysis of stresses in the proposed Australia Square Tower, Sydney: a plastrene model to a scale of one in twenty-five has been constructed and subjected to loading tests; (ii) optimum design of water storage reservoirs; (iii) critical storm duration for flood estimation; (iv) new techniques in prestressed concrete con-
struction; (v) precise measurements of subsidence in Opera House foundations; (vi) experimental determination of stresses and deflections in double deck railway carriages; (vii) adhesion tests of tiles for Sydney Opera House; (viii) barometric height determination; (ix) improved methods of design and construction of farm dams; (x) cooling water intake investigations for new power stations in New South Wales; (xi) development of new surveying instruments and techniques; (xii) probable fatigue life of prestressed concrete beams; and (xiii) waterway studies for road bridge at Gundagai.

The major equipment item installed during the year was a Wild A8 stereoplotter which makes a substantial addition to the facilities available for research in photogrammetry.

Sixteen candidates were registered for their doctorate, thirty for the Master of Engineering degree, four for Master of Science and four for Master of Surveying.

Thirty-two papers were published by staff members. One text book was also published. Two Water Research Foundation Bulletins, three Water Research Laboratory Reports and a number of Uniciv reports were issued, as well as a number of reports on special investigations.

School of Electrical Engineering

Research was concerned with the problem of applying digital computers to the automatic control of complex processes. One group of students studied the problem of determining mathematical models of the processes to be controlled, another group the various types of optimum control methods, and the remainder investigated hybrid computer simulation techniques.

During the year the Department's work was aided by the generous loan of a PDP 5 digital control computer by Digital Equipment Australia Pty. Ltd. This computer was successfully operated in hybrid connection with the Department's analogue computer UTAC. The hybrid system has proved to be of particular value in the simulation of optimal control systems and in the on-line analysis of data generated in the analogue computer. These experiments demonstrated the paramount importance of adequate hybrid computing facilities to the research work in automatic control systems in the Department.

During 1964 an acoustic impedance measuring tube suitable for low-frequency measurements was completed. The only other such tube in Australia of comparable frequency range is at Highett in Victoria. With this tube the first series of measurements was conducted on absorbing wedges to be used in the anechoic chamber. A novel scheme for extending the low-frequency range of these wedges was devised.

Plasma research continued. A spectrometer was acquired and photomultiplier measuring units to make it into a spectrograph are under construction. A study of the bandspectra in nitrogen at atmospheric pressure was undertaken.

During 1964 thirty-three students were enrolled in post-graduate courses in Automatic Control Systems.
Members of staff were responsible for fourteen publications, one book and thirteen articles.

School of Highway Engineering

The big task of setting up the research laboratories at the new premises of the Institute of Highway and Traffic Research at Randwick continued throughout the year. Close collaboration was maintained with the Institute of Highway and Traffic Research in the projects it carried out for the New South Wales Department of Main Roads, the Australian Road Research Board and the New South Wales Department of Motor Transport.

Work on the following research projects continued: effects of dynamic loading of structures composed of large prestressed concrete elements; the abrasion testing of road stones; the analysis of stresses and displacements in a finite unsymmetrically loaded flexible beam on a heavy medium liquid subgrade by a numerical integration method; and a study of the propagation of torsional vibrations through soils.

Further projects initiated during the year were: an experimental investigation of a method of strengthening box culverts; the effect of town development on the design of urban road systems; the binding properties of road base materials; development of a viscometer for high viscosity bitumens; the elasticity of certain materials and its relationship to their creep; a study of the effects of repeated loading on some road materials; the measurement of strain due to alternating stress with special reference to road binders; and the compaction characteristic of bituminous concrete under the influence of some important factors.

Notable items of equipment acquired during the year were: oscillo-graph; automatic recording camera; micro comparator; scintillation probe and collimator; universal measuring bridge; and a vibration generator.

The number of candidates registered for higher degrees was: Doctor of Philosophy three; Master of Engineering four; Master of Technology fifteen.

Eight papers by students and members of staff were published during the year.

School of Mechanical Engineering

During 1964 all laboratories in the new buildings, with the exception of the Aerodynamics and Hydraulics laboratories, were commissioned. An unfortunate delay in the supply of the main pumping equipment upset the programme of developmental work in Hydraulics, and due to pressure of other commitments, design work on the low speed 4' x 3' wind tunnel for Aerodynamics had to be suspended during part of the year.

The main areas of research were: agricultural engineering; fluid mechanics; refrigeration and air conditioning; heat transfer; lubrication; industrial engineering; bio-engineering and applied mechanics.
In agricultural engineering, work continued on soil tillage, the wear of tillage tools, and the flow of grain. A number of subjects were pursued in fluid mechanics, including further work on the gasdynamics hydraulic analogy, studies of shock propagation in and flow of bubbly fluids, pure fluid amplification, flow in turbomachines, hypersonic flow over blunt bodies, ship slamming and fluid flow through wire screens. Contract research was undertaken on three-dimensional flow in power house ducting and on pump design data.

Studies in refrigeration, air conditioning and heat transfer included work on the flow of an evaporating refrigerant and non-laminar flow in pipes together with studies of heat transfer in cooling towers, in separated regions and in boundary layers. Contract research was undertaken on the problem of heat transfer in enclosed cavities. The research programme on solar energy utilization, commenced some years ago, was continued.

In the field of lubrication an experimental study of the "Reiner effect" was completed, and further theoretical work was done on elasto-hydrodynamic lubrication and numerical solutions of the Navier Stokes and Energy equations.

Staff of the Department of Industrial Engineering carried out a variety of operations research and methods engineering studies. Research on twist drill geometry was continued.

Two new bio-engineering investigations were undertaken in conjunction with the School of Medicine. One concerned the lubricating properties of the fluids in the knee joint; the other in distribution of body fluids during surgery. Work on human power output was continued.

In applied mechanics, research was conducted on the design of machine elements, particularly springs; on the friction between a belt and pulley; on kinematics of mechanisms; and on transfer functions for control system elements. Research on the mechanics of the metal extrusion process was carried out in conjunction with the School of Metallurgy.

The School acquired two large air compressors which are to form the basis of new facilities for research in gasdynamics. The installation of these machines was essentially complete by the end of the year. A PACE TR48 analogue computer was obtained for use in Automatic Control studies. Additional items of instrumentation were acquired and an Instrumentation Laboratory established.

Thirty candidates were pursuing research leading to Master of Engineering or Doctor of Philosophy degrees.

Fourteen papers were published by members of staff.

School of Nuclear Engineering

The scope of research activities within the School was wide. Work continued on the further development of the double spherical harmonics expansion method for obtaining analytical and numerical solutions to neutron transport problems in slab, and in applying the method to
cylinders, taking into account anisotropic scattering. An experimental and theoretical project was in progress to predict velocity profiles in a nuclear pebble bed reactor, such as that under study by the A.A.E.C. at Lucas Heights. The problem of thermal stresses in pebbles led to theoretical studies of balls with non-uniform surface heat transfer and internal heat generation. Transient heat flow in random arrays and neutron transport in random mixtures were investigated theoretically from the general viewpoint of transport processes. Previous work on the dynamics of flow coast down in reactor circuits with free convection was extended for detailed digital computer studies.

Close contact was maintained with the work at Lucas Heights where an IBM 7040 computer was used under contract, and assistance was given, on a consultative basis, with some of the engineering research problems. Many of the student projects required in the Master of Technology course arise out of such problems. During the year the PACE TR48 analogue computer within the School was expanded to its full capacity with assistance from the Atomic Energy Commission. Additional items acquired during the year included a transport delay simulator in a coupled TR10 analogue computer console, permitting a more complete simulation of a nuclear power system. This analogue computer equipment was used particularly by graduate students studying for the degree of Master of Technology, typical projects being the study of internal dynamics of a boiling water reactor, an analogue model of a heat exchanger for a gas cooled reactor, and transient studies of a gas cooled reactor core.

A power supply, scaler, ratemeter and pulse height analyser were purchased, initially for a Doctor of Philosophy project, but this equipment was also available for general nucleonics measurements.

There were three students registered for the degree of Doctor of Philosophy, two for the degree of Master of Engineering, and twelve students were in various stages of completing requirements for the degree of Master of Technology.

Four research papers and several journal articles were published.

School of Traffic Engineering

During 1964 progress in the research activities of the School of Traffic Engineering continued. The principal fields of research were Traffic Flow and Transport Planning. In both these areas increasing use was made of the IBM 1620 digital computer for the simulation of traffic and transport phenomena. Among the more interesting projects were: (i) the simulation of traffic flow through intersections and toll barriers with the object of determining how flow rates, vehicle intervals and randomness of service, influence the delay suffered by vehicles; (ii) a computer study of the shortest travel path between any pair of intersections in the central area of Sydney, taking into account various arrangements of one-way streets; and (iii) the study of the distribution of traffic desire lines for various land uses and street systems.
Three Doctor of Philosophy students were registered together with five Master of Engineering, and seven Master of Technology students.

Six papers were presented at conferences and symposia during the year by staff and graduate students.

**FACULTY OF MEDICINE**

**School of Anatomy**

Research within the School of Anatomy employs the techniques of cytology, histochemistry and electron microscopy. The main fields of work included an investigation of the fine structure of cellular membrane systems, an investigation of the distribution and fine structure of arteriovenous anastomoses, and research into the ultrastructure and histochemistry of nerve fibre-satellite cell relationships in the central nervous system.

One candidate was registered for the degree of Doctor of Philosophy.

Members of staff were responsible for nineteen publications during the year.

**School of Medicine**

The following research was carried out in the School of Medicine in 1964: epidemiological and mortality factors in gastric ulcer; iron absorption and metabolism in patients with haemochromatosis and cirrhosis of the liver; studies of iron metabolism in normal rats and rats with pancreatic injury; the effect of dietary modification and certain drugs on the cholesterol, triglyceride and phospholipide pattern in man; the metabolism of lipide substances in the perfused liver of normal and choline deficient rats; the adrenocortical steroid hormone assay in plasma and urine; clinical trial of an oral hypoglycaemic agent (SH717); bronchodilator compounds and the functional disturbances in bronchial asthma; the metabolism of serotonin and noradrenaline in migraine; clinical trials of drugs used in the treatment of headache; the regeneration of nerve fibres following acute idiopathic radiculitis and polyneuritis; neuro-muscular conduction in myasthenia gravis and its simulators; renal hypertension and renal vasco-depressor substances in the rabbit; ventricular work volume and efficiency in man.

Three candidates were registered for higher degrees.

Thirty-four papers and one book were published during the year.

**School of Obstetrics and Gynaecology**

The following research activities were carried out during 1964:

(i) Clomiphene was employed for the first time in Australia to stimulate ovulation in patients infertile because of ovulatory failure. About half the patients treated became pregnant. The remainder showed varying degrees of response to this drug.

(ii) It was discovered during 1964 that barbiturates used in the
treatment of cases of pre-eclampsia during the latter part of pregnancy were interfering with the urinary oestrial determinations used in the assessment of placental insufficiency. By introducing a saponification step into the short method of oestrial determination more reliable results were obtained.

(iii) The work on mammography for the early detection of breast carcinoma and the study of the plasmin-plasminogen system of the mother and neonate which began in 1963 were continued during 1964.

(iv) Injections of spartein sulphate were used as a test to determine the uterine response to oxytocics and as an index of the readiness with which the patient can be expected to commence labour following artificial rupture of the membranes.

(v) A further series of cases was investigated by lymphangiography to determine the reliability of this technique in detecting metastases of cervical carcinoma to the lymph nodes on the lateral wall of the pelvis. The technique was also employed to determine whether lymph node removal at the time of Wertheim operation was complete.

(vi) The factors influencing the outcome of surgical induction of labour were studied in 2,000 patients.

(vii) The penetration of antibiotics into the amniotic fluid during labour was investigated.

School of Paediatrics

During 1964 the clinical department at the Prince of Wales Hospital was commissioned and by the time of its official opening in June all beds were occupied. Laboratories were furnished from Hospital and University funds with a wide variety of equipment for micro-chemical studies on small children and most of the year was devoted to perfecting techniques of analysis of blood, urine, faeces, cerebrospinal fluid et cetera. Histological laboratories were also equipped and commissioned.

A small laboratory for research into biochemical disorders in newborn babies was provided by the Royal Hospital for Women and equipped by the University.

Research projects in cytogenetics and hepatitis continued; an investigation into gastroenteritis in infancy was completed; studies were initiated in bone marrow hypoplasia, in the action of chloramphenicol on bone marrow function, and in the biochemical changes occurring in newborn babies with congenital defects requiring surgical intervention.

There were seven publications by members of staff during the year.

School of Pathology

Research work performed in the School of Pathology included investigations of vascular responses in injury, the mechanism of the phagocytosis of lipids, the mechanism of haemostasis and the identification of aromatic metabolites.

Research projects undertaken by members of staff during the year included: the vascular responses in chemical injury; the evaluation of
techniques for assessing increased vascular permeability; the permeability effects of clostridial toxins; the effects of cadmium salts on testes; the role of phagocytes in an oil granuloma; the flow of blood in the normal and abnormal spleen; clinical syndromes related to catechol amines; the analytical application of colour changes produced by proteins in indicators; and the relation of gout to uric acid metabolism.

One candidate was registered for the degree of Doctor of Philosophy.

Four papers were published by members of staff.

**School of Physiology**

During 1964 the first three medical students to complete a Bachelor of Science (Medicine) course spent their additional year in this school. In addition, the first M.D. degree was awarded to Dr. G. S. Stokes, a National Heart Foundation Research Fellow.

Research proceeded along two main lines. In the cardiopulmonary laboratories work continued on problems related to circulatory control in hypoxia. The role of the arterial chemoreceptors and baroreceptors was defined in relation to cardiac output control. Work began on local and central control mechanisms in skeletal muscle, and also on the circulatory changes occurring in the skin during the hairgrowth cycle.

In the neurophysiology laboratories analysis of the primary afferent depolarization of trigeminal afferent nerve fibres produced by stimulation of skin and of various parts of the cerebral cortex was carried out. Attention was directed particularly to the topographical organization of this negative feedback. The detailed identification of different neurone types within the brainstem trigeminal subnuclei, with particular reference to the effects of cortical stimulation, also continued. Following the completion of the new electrically screened room, work was begun using intracellular recording techniques. Dr. T. Yokota, of Hokkaido University, Japan, spent six months in the neurophysiology laboratory, during which time he gave great impetus to the work.

Sixteen articles were published during the year.

**School of Psychiatry**

The fifty bed in-patient psychiatric unit was handed over on 23rd March, 1964, and was officially opened by the Hon. W. Sheahan, Minister of Health, on 26th February, 1965. Owing to the difficulty in recruiting sufficient numbers of trained nursing staff, it was only possible to utilize twenty-five beds until the latter part of the year, but the whole unit is now in use. From the date when the first in-patients were accepted, in June, 1964, until the end of the year, 204 patients were admitted, and during the whole year 377 consultations were held in the general wards. The number of out-patient clinics held at the Prince Henry and Prince of Wales Hospitals increased to eleven.

The staff of the School of Psychiatry moved into its new building at the Prince Henry Hospital at the end of September. The building houses offices for University medical and non-medical staff; teaching areas where instruction in psychiatry to undergraduate and post-graduate
students is given; and psychology, electronics and neurohistology laboratories.

Plans were made for the establishment of a psychiatric service at the Prince of Wales Hospital, the expectation being that this will take the form of a 100 bed in-patient unit, with day hospital and out-patient facilities.

Major research projects were: (i) studies in depressive illness; (ii) Australian ethnopsychiatry; (iii) psychiatry in New Britain; (iv) health of the La Perouse community; (v) studies in stuttering; (vi) the assessment and therapy of homosexuality; and (vii) the effect of stimulants on enuresis conditioning.

Members of staff were responsible for eleven publications during the year.

School of Surgery

In the Animal Experimental Laboratories work continued on experimental portal hypertension and on the homo-transplantation of mitral valves. New studies have been established on the relation between trauma and reflux of pancreatic juice in the production of biliary strictures. A technique of autoradiography of kidney slices is being developed. Methods of producing spinal scoliosis are being tested in various species.

Clinical research continued on electrolyte and acid base disorders in patients undergoing prolonged artificial ventilation or cardiopulmonary by-pass. New work commenced in at least three fields. Aspects of surgical gastroenterology were examined, with particular reference to pancreatic function. A detailed study was begun on the effects of anaesthetic agents on the magnitude and distribution of limb blood flow, and factors affecting collateral artery resistance in patients with arterial disease were appraised.

Human Genetics

Most of 1964 was spent in developing and applying techniques for detecting polymorphisms of human blood. Apart from the numerous blood groups it is now possible to investigate the haptoglobin, transferrin, Gm and Gc groups of serum proteins. Dr. L. Y. C. Lai was also able to determine the polymorphic pattern of acid phosphatase in red cell haemolysates. The Gc groups were detected by technical advances in immuno-electrophoresis. Mr. Sardool Singh worked on population genetics of dermatoglyphs. Apart from various ethnic groups, he determined the pattern in a series of schizophrenic subjects.

Analyses of results of skin pigmentation measurements in New Guinea natives proceeded and the C.S.I.R.O. assisted by providing measurements of the fibre diameter and medullary diameter of hair from New Guinea, Australian and Japanese subjects.

On the clinical side an extensive study was undertaken of the genetics of idiopathic haemochromatosis, and it is probable that two modes of
inheritance of this disease will be established. Dr. E. M. Nicholls studied the genetics of pigmented moles of the skin in school children.

The Human Genetics group visited the Wild Life Division of the C.S.I.R.O. in Canberra and tested the blood of red and grey kangaroos for the genetic polymorphisms that are known to occur in man.

There was one doctoral candidate.

Four papers were prepared for publication during 1964.

FACULTY OF SCIENCE

School of Applied Psychology

Research was carried out in the School of Applied Psychology during 1964 in the following areas: personality change with psychotherapy; projective techniques and personality tests; intellectual change and its assessment; personality change and its assessment; psychology of gambling; personality and sociological correlates of heart disease; inter-relations between motor functioning and psychological activity; individual differences in motor functioning, and physiological indices of psychological activity; physiological basis of motivation and learning; regulatory behaviour of animals with respect to pressure, temperature and respiratory gases; learned control of breathing rate in lower animals; dentist-patient relation; role of the manager in Australian industry; therapeutic community in action; person constructs studied by means of semantic differential; and personal and social adjustment of Indonesian students as they relate to examination success.

The number of candidates registered for higher degrees was: Doctor of Philosophy seven; Master of Arts two; Master of Science two.

Three papers were published by members of staff during the year.

School of Biological Sciences

During the past year the tempo of research activity in all departments of the School quickened, a pleasing feature being the considerable increase in the support from outside funds. The assistance to postgraduate activities made possible by the General Research Fund was most welcome.

In the Biochemistry Department significant progress was made in the group of projects concerned with the quantitation of pathways of carbohydrate metabolism in liver tissue and the biosynthesis of cartilage constituents. Rigorous demonstrations of the structure of polysaccharide components of fungal cell walls were made, and some progress achieved in the studies on the chemistry and biochemistry of Australian seaweeds. Work on the metabolism of anaerobic bacteria was expanded. A number of sophisticated tissue culture machines were constructed in the University workshops, and were used in a group of projects concerned with enzyme induction and the conditions of production of various microbial metabolites. The effect of various toxic constituents of polluted air on the respiratory systems of yeasts was studied. In a joint project
between the Departments of Organic Chemistry, Biochemistry and Zoology extensive studies were made on the chemistry, biology and mechanisms of action of the venom of the bore ant.

The considerable expansion in the staff of the Botany Department was reflected by the upsurge of research activity, new projects including studies of the energy balance of plants and of wax formation in a number of mutants of cauliflower, peas and maize. A survey of variations of wax components in grasses and eucalypts was also being carried out. Work commenced on the cytogenetics of wheat and related genera. A theoretical analysis of the cost of selection in populations with density-dependent death rates was initiated. Studies continued in mycology and plant pathology as did the investigations relating to the nitrogen-fixing properties of native legumes. Progress was made on the taxonomy of Australian grass trees and related genera.

Continued support from outside bodies enabled further progress to be made in the Department of Microbiology on the projects concerned with the degradation of naturally-occurring polymers by actinomycetes and the mechanisms of control of enzyme biosynthesis in micro-organisms. Further funds were made available to permit the study of the response of micro-organisms to the physico-chemical environment and this work was linked with studies of the physico-chemical properties and molecular structure of lipo-protein membranes.

In the Department of Zoology research activities embraced a number of fields including investigations on the albumin gland of the snail, and studies on the physiology of the Eastern Australian lamprey. In the field of Cytology research continued in two areas, namely, the interaction between embryonic epithelial cells of chickens grown together in tissue culture and on the structure and behaviour of chromosomes of an acanthocephalan worm under normal conditions and after exposure to strong X-irradiation. In the field of Systematics, studies on jawless fishes, various insect species and the parasites of fishes continued to yield publications of importance. Ecological studies on marine and estuarine molluscs, of the Port Jackson shark and the Eastern Australian lamprey were in progress. In the Entomology group of the Department particular attention was paid to the effect of toxins on the nervous system of insects which was followed by continuous monitoring with a view to developing new methods of assay of insecticides, and sexual stimulation of sugar cane leafhoppers by irradiation was explored as a means of control of this insect in Fiji.

Fifteen students were registered for the degree of Doctor of Philosophy and twenty-two for the degree of Master of Science.

Thirty-one papers and articles were published during the year.

School of Chemistry

Research activities in the School of Chemistry continued over a wide area. There were some fourteen different research groups, each active in a specific field.

In 1964 the School of Chemistry departed from its custom of holding
a Summer School for Teachers of Chemistry, to prepare a Chemical Data Book for use by teachers, which was published by the University.

The study of metal complexes continued to occupy a major place in the research programme, and several members of the Department of Inorganic Chemistry contributed to a new book "Chelating Agents and Metal Chelates", edited by the late Dr. F. P. Dwyer and Professor D. P. Mellor (Academic Press, New York and London, 1964). Studies in X-ray crystallography, chemical kinetics, polarography, spectroscopy, catalysis, chromatography, auto-oxidation and acid-base equilibria were among the active interests of the research teams.

The Department of Organic Chemistry made numerous advances in the structures and synthesis of products of biological significance. Carbohydrates, natural insecticides, attractants and repellents of insect origin were among the other research interests of the Organic Chemistry Department.

The Petroleum Research Fund of the American Chemical Society gave a grant of $12,300 for the establishment of a scholarship for either pre- or post-doctoral fellows for the development of a theory of charge-transfer radiation catalysis in the Department of Physical Chemistry.

During the year 125 students were registered for higher degrees (forty-nine Doctor of Philosophy and seventy-six Master of Science); eighteen students were enrolled in the Honours course.

The School was honoured that the first degree of Doctor of Science conferred in the history of the University for research work was given to Professor S. J. Angyal for work carried out in the School of Chemistry.

As well as the publications mentioned above, about one hundred research papers by members of staff were published during the year.

School of Mathematics

Research conducted in the four Departments of the School is outlined below:

(i) Department of Applied Mathematics: Superconductivity; three body problems (Professor J. M. Blatt was awarded a research contract by the United States Air Force for work in this field); statistical mechanics; astrophysics; quantum field theory; elementary particle theory; electromagnetism; acoustics.

(ii) Department of Mathematics: Boundary value problems; induced polarization and wave propagation; hydrodynamics and aerodynamics; elasticity; nuclear reactor theory (Mr. M. H. McKay was awarded a grant by the Australian Institute of Nuclear Science and Engineering for research in this field and was also awarded a contract by the Australian Atomic Energy Commission for work on reactor calculations); non-linear differential equations; numerical quadrature in many dimensions.

(iii) Department of Pure Mathematics: Continuous iteration of single valued analytic functions; simultaneous rational approximations to pairs of real numbers; analytic matrix functions; maximal extension of analytic
Riemannian and more general manifolds; multidimensional Fourier and Mellin transforms; Kronig-Kramer transforms.

(iv) Department of Statistics: Contagious distributions; multivariate analysis; selection procedures; truncated distributions; experimental design; ranking procedures; stochastic processes in carcinogenesis; mathematical programming; regression models.

A total of twenty candidates enrolled for higher degrees.

Members of staff were responsible for thirty-eight publications.

School of Physics

Research projects are outlined below under the headings of the three Departments of the School:

(i) Department of Physics: Research activities continued to expand with the increasing numbers of post-graduate research workers joining the Department. The major portion of the School's activities is in solid state physics where work on dielectric breakdown, semiconductor surfaces, heavy ion irradiation damage in metals and insulators, crystal structure determination by X-rays and ultrasonic measurement of elastic constants are the fields of investigation. Other active groups carried out investigations in nuclear magnetic resonance, vacuum ultra-violet spectroscopy, plasma physics and vehicle physics.

(ii) Department of Theoretical Physics: Theoretical work continued on lattice dynamics and the quantum theory of dissipative processes, in particular dielectric breakdown and dielectric loss.

(iii) Department of Optometry: Research work in the Optometry Department of the School was chiefly concerned with binocular vision and space perception, and with studies arising from the work of the Orthoptics and Remedial Reading Clinics conducted as part of the Department's activities. In addition to the researches of the academic staff, final year students working for the Bachelor of Science degree in Optometry were required to take part in various group research projects in the above fields. A Master of Science project was also undertaken on critical flicker-fusion frequency.

Research in the School was assisted by a grant from the Australian Institute of Nuclear Science and Engineering for work on heavy ion irradiation damage in metals and by the gift of a station wagon from the Ford Motor Company for research in Vehicle Physics.

There were fourteen Doctor of Philosophy and seventeen Master of Science candidates.

Publications included fifteen research papers and one book.

OTHER SECTIONS

Educational Research Unit

During 1964 the Unit carried out work on the following projects: studies of student progress in the University; the use of student opinion
in the evaluation of university teaching; a study of problem solving procedures in physics; the structure and communication of content material in scientific subjects; problem solving types among tertiary students; the distortion of factors in batteries including reference variables and a comparison of some graphical and analytic methods of rotation; investigation of the effect of differences in visual and auditory acuity on televised programmed instruction material in chemistry; and the measurement of visual acuity using television.

Student Counselling and Research Unit
During 1964 staff carried out work on the following research projects: survey of student needs, Newcastle University College; some trends in vocational development research; work values of prospective university entrants; evaluation of a student counselling programme using client reports; and validation of a relationship inventory.

Other fields of research included: development of university norms for several standardized psychological tests; a survey of the quality of a large volunteer (non-representative) sample of 2,000 of the new student intake in 1962 and 1963 as measured by psychological tests and leaving certificate results; follow-up of the outcome of a variety of study skills programmes in terms of skills and attitudes acquired; and a valuation of counselling.

Division of Post-graduate and Extension Studies
The research activities of the Division in 1964 were centred in the area of mass media techniques for education, particularly that of adults including graduates. Work proceeded on PATOR (programmed automatic teaching operations by radio) and on the project of increasing television resolution for teaching purposes. A vidicon camera chain and ancillary equipment were installed during the year for this purpose.

Institute of Highway and Traffic Research
The Institute's buildings and equipment were provided, in the main, as the result of a grant of £200,000 by the Government of New South Wales from Main Roads funds. This action was taken as a result of a recommendation of the Commissioner for Main Roads.

The purpose in establishing the Institute was to expand the field of road research activity, previously the province to a large extent of the Department of Main Roads. It was decided that the research carried out at the Institute should be sponsored research, arising from road authorities and the road industry generally.

The Institute commenced its first research projects in July 1963. At that stage equipment was generally incomplete and supporting staff inexperienced. At the end of 1964, four project scientists were on duty, and all laboratories and equipment, except those concerned with bituminous research, were complete and in working order.

Research work in progress at the Institute at the end of 1964 included the following: development of more reliable methods of assessing quality.
of low grade rocks, especially shales; development of apparatus to measure and record volume, headways and speeds of traffic (this data to be converted to digital form on punched paper tape that can be fed directly into a computer for analysis); collection and analysis of the necessary traffic data, and preparation of a traffic capacity manual for Australian conditions; and durability and slipperiness studies of available materials and assessment of their relative properties.

BOARD OF VOCATIONAL STUDIES

Department of Industrial Arts

Following are the research projects which were in operation within this Department in 1964: (i) the measurement of aesthetic values in an Australian urban community; (ii) the development of curricula in industrial design at the tertiary level; (iii) the development of stoneware and porcelain bodies and glazes based upon New South Wales materials; (iv) the relationship between perception and ability in rigorous and free design; (v) the industrial arts of Persia, their development, technology and influence on Eastern and Western civilization; (vi) an analysis of the systems of measurement used in work study and the significance of these for education within industry; (vii) an analysis of the effectiveness of group methods of instruction for the in-service training of graduate engineers in a large electrical undertaking; (viii) factors in the growth and structure of technical and technological education in New South Wales which influenced the development of industrial arts programmes in secondary education; and (ix) an analysis of cultural and social influences in industrial arts education.

The following items of equipment of significance for both research and teaching were acquired during the year—a de-airing pugmill, and a Wadkin Bursgreen semi-automatic wood bonding machine.

The number of students proceeding to a higher degree in 1964 was five.

There were four publications during the year.

NEWCASTLE UNIVERSITY COLLEGE

General

With the appointment during the year of Professors to the Chairs of English, Classical Studies, Physics, Mathematics and Civil Engineering, planning to intensify research activities has begun.

In the various departments of the Newcastle University College there were twelve candidates registered for the Doctor of Philosophy degree and thirty-two for Master's degrees.

Four books were published, and over sixty major articles in scientific and professional journals.
Division of Applied Science

The Division was closely concerned in the planning of the Fifth Annual Conference of the Australasian Corrosion Association, held in Newcastle in November.

In the Department of Metallurgy research on the heat content of beryllium oxide was completed and work on heat contents continued, using highly sensitive D.T.A. apparatus. A new heat flow calorimeter was planned.

In the Department of Chemical Engineering and Industrial Chemistry the first of a series of studies of mass transfer using laminar jets and stirred tanks was completed. The investigation of the kinetics of consecutive chlorination reactions and the measurement of interfacial areas by light transmittance continued.

An instrument for the analysis of binary mixtures by the determination of dielectric constant was developed.

Division of Arts

The variety and number of research activities of this Division increased gratifyingly and are too numerous to list. Professor Cross was appointed general editor of a series of studies in English and American Literature, which are to be published by the Sydney University Press.

Professor J. M. Ritchie of the Department of German took part in a study trip to Germany at the invitation of the Government of the Federal Republic of Germany on the occasion of the Congress of Germanists in Essen, October, 1964 and then visited various German centres of learning.

Staff members presented a wide variety of papers, including a paper on “Edmund Husserl's Ideas”, read by Dr. A. M. Ritchie at King's College University of London, and a paper on “Learning”, read by Dr. J. W. Staines to the Australian Conference of the Australian Pre-School Association, Brisbane, May 28th.

Division of Commerce

In the Department of Accountancy research continued on the analysis of the accounts of Australian public companies.

In the Department of Economics entry and growth in Australian manufacturing industry were studied. The Federal Government's Committee of Economic Inquiry invited a paper on “Tariffs and Australian Industry”.

Members of the Division published widely in academic journals in the United Kingdom, the United States and Australia, and several addresses were given to learned societies.

Division of Engineering

In the Department of Mechanical Engineering one phase of the investigations into the properties of rubber under dynamic loading was completed. Research into desalination by the wiped film technique
continued, and work commenced on the mechanical plotting of data. Further investigations into the problems of static electricity in pumped fuels were made overseas preparatory to the design of a test rig.

In the *Department of Civil Engineering* research continued into the fundamental engineering properties of soils and concrete, into sediment transport, structural models, and positional astronomy.

In the *Department of Electrical Engineering* work continued on an introductory survey into the properties and uses of tunnel diodes at high frequencies.

**Division of Science**

In the *Department of Chemistry* investigations on the nature, kinetics and thermodynamics of chemical reactions were carried out.

In the *Department of Geology* the main research project was concerned with the various aspects of the geology of the Hunter Valley. Special attention was paid to coal.

In the *Department of Mathematics* research work was concentrated in the fields of group theory, mathematical statistics and numerical analysis.

In the *Department of Physics* work began on studies of micropulsations of the earth's magnetic field. Spectroscopic studies of pure gases continued using an Ebert spectrograph.

Studies were being made of the emission of electrons from abraded surfaces *in vacuo*.

**WOLLONGONG UNIVERSITY COLLEGE**

*Department of Mathematics*

Research covered reactor physics studies associated with the design of the high temperature gas-cooled reactor by the Australian Atomic Energy Commission.

Research equipment purchased included an IBM 1620 digital computer.

One candidate registered for a higher degree.

*Department of Economics*

A survey of the Illawarra Region on behalf of the Illawarra Regional Development Committee was undertaken by the Department.

A report on employment and unemployment was published in 1964.

*Department of Geology*

Research into the petrographic composition of coals was undertaken during the year. Some of this work was done in co-operation with local industry.

Two papers were published.
Department of Mechanical Engineering

During the year, the following research was conducted: bulk handling and flow of granular materials; propagation of pressure waves in air through small-bore tubes; theoretical study of the thermodynamic properties of the working substance in reciprocating combustion engines; an investigation of valve behaviour in a reciprocating ammonia compressor; and erosion of metallic surfaces by dust entrained in an air stream.

Two candidates were registered for the degree of Doctor of Philosophy and one for the degree of Master of Engineering.

Four papers were published.

Department of Metallurgy

Research included studies of processes such as phase transformations that determine the microstructures formed during metallurgical processing and of the relationship between mechanical properties and microstructure. Another aspect of the work was concerned with high temperature reactions in metallurgically important systems such as those involved in the production of sinter for iron blast furnaces.

Two candidates were registered for higher degrees, and one paper was published.

Department of Physics

The construction of a portable transistorized rubidium vapour magnetometer with a sensitivity of 0.02 gamma was completed; work on determining the cosmic ray neutron energy spectrum was carried out; and investigations into the design of electron guns for high power X-ray tubes were conducted.

Eight papers were published.

Department of Chemistry

The research activities of the Chemistry Department were concerned with the alkaloidal constituents of the Tylophora and related plant species, hallucinogenic mushrooms, studies of Vanadium IV complexes, studies of acid dissociation by spectrophotometric methods, measurements of dipole moments of absorbed films on metal surfaces, hydrolysis reactions of carboxylic acid derivatives, catalytic action of ion exchange resins in organic reactions, linear free energy relationships, synthesis and magnetic properties of sulphur-bridged Copper II complexes, and synthesis and magnetic properties of Silver II, Iron II and Chromium II complexes, and synthetic studies of nitrogen heterocyclics and of compounds with anti-hydroxytryptamine activity.

Eight students were registered for higher degrees.

Six articles were published during 1964.
APPENDIX 3

BROKEN HILL DIVISION

During 1964 the Broken Hill Division of the University accelerated its research programme, part of which was pursued in conjunction with the mining companies. Research was undertaken on the following topics: rock mechanics and underground support (a Rock Mechanics Research Sub-Committee of the Mining Managers' Association was formed to assist in co-ordination of the research programme); photoelasticity; photosynthesis of organic compounds; photochemistry of co-ordination compounds; chemical studies of indigenous plants (in conjunction with the Department of Botany at Kensington); geochemistry of Broken Hill districts and methods of geochemical prospecting; an analytical model of the operation of a lead-zinc concentration plant; mineralogy of the Broken Hill district; and X-ray diffraction studies of mine dust.

There were two candidates for the degree of Doctor of Philosophy and four for Master's degrees.

JOHN SYDNEY JAMES CLANCY, CHANCELLOR.

JOHN PHILIP BAXTER, VICE-CHANCELLOR.
FINANCIAL STATEMENTS FOR THE YEAR
ENDED 31st DECEMBER, 1964
### THE UNIVERSITY OF NEW SOUTH WALES

#### STATEMENT OF BALANCES AS AT 31ST DECEMBER, 1964

<table>
<thead>
<tr>
<th>Other than Newcastle University College</th>
<th>Newcastle University College</th>
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<td><strong>BALANCES</strong></td>
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<td>Dr. 183 5 9</td>
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<td>Grants for Building Projects, Furnishings and Equipment and Capital Equipment under the State Grants (Universities) Act 1960-1964</td>
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<td>£30,443 0 9</td>
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£2,778,263 1 2 £30,443 0 9 £2,808,706 1 11

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J. P. BAXTER,  
Vice-Chancellor.

J. O. A. BOURKE,  
Bursar.

E. H. DAVIS,  
Accountant.

W. G. MATHIESON,  
Auditor-General of New South Wales.

The books and accounts of the University of New South Wales for the year 1964 have been audited in accordance with the provisions of Section 43 of the Technical Education and University of New South Wales Act, 1949-1964.

In my opinion the above Statement of Balances, together with Annexures "A" to "J" inclusive, sets out a true and correct view of the financial position of the University as at 31st December, 1964 and the transactions for the year then ended, according to the best of my information and the explanations given to me and as shown by such books and accounts.

SYDNEY, 8th September, 1965.
### THE UNIVERSITY OF STATEMENT OF INCOME 1st JANUARY, 1964 TO

#### GENERAL EXPENDITURE

<table>
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<td>20,098 11 7</td>
<td>163,914 1 7</td>
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<td>117,220 17 1</td>
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<td>Workers' Compensation Insurance Premiums and Other Staff Charges</td>
<td>14,298 19 8</td>
<td>1,070 6 7</td>
<td>15,369 6 3</td>
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<td><strong>554,723 12 7</strong></td>
<td><strong>4,836,193 6 11</strong></td>
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<td>536,920 10 3</td>
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<td>219,981 15 10</td>
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<td>7,932 13 2</td>
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<td>35,651 1 10</td>
<td>142,094 8 6</td>
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<td>Power, Lighting and Heating</td>
<td>72,240 18 9</td>
<td>4,273 6 11</td>
<td>76,514 5 8</td>
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<td>Administration and General Overhead—Materials, Travelling Expenses, etc.</td>
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<td>70,134 1 2</td>
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<td>5,745 7 2</td>
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<td>Printing and Postages</td>
<td>46,064 0 3</td>
<td>6,385 14 8</td>
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<td>7,500 0 0</td>
<td>45,205 0 0</td>
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<td>4,600 9 4</td>
<td>24,273 15 2</td>
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<td>Rentals</td>
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<td>Legal Fees and Similar Charges</td>
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<td>1,361 18 10</td>
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<td><strong>720,631 10 0</strong></td>
<td><strong>6,336,490 9 7</strong></td>
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<td>Balance carried forward 31st December, 1964</td>
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<td>3,928 0 10</td>
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<td><strong>£5,685,120 0 4</strong></td>
<td><strong>£724,559 10 10</strong></td>
<td><strong>£6,409,679 11 2</strong></td>
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### INCOME

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<th>Fees—</th>
<th>Other than Newcastle University College</th>
<th>Newcastle University College</th>
<th>Total</th>
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<td>Students' Fees</td>
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<td>£ 88,068 18 6</td>
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<td>£ 7,385 0 0</td>
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<td>£ 909,833 9 9</td>
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| State Grants for Recurrent Expenditure— |         |                             |         |
| Received                        | £ 2,579,636 0 0                       | £ 322,439 0 0                 | £ 2,902,075 0 0 |
| Accrued                         | £ 236,903 18 6                        | £ 43,196 1 6                  | £ 280,100 0 0 |
| Total                           | £ 2,816,539 18 6*                     | £ 365,635 1 6*                | £ 3,182,175 0 0 |

| Commonwealth Grants for Recurrent Expenditure— |         |                             |         |
| Received                        | £ 1,770,439 0 0                       | £ 224,561 0 0                 | £ 1,995,000 0 0 |
| Accrued                         | £ 192,210 0 0                         | £ 24,790 0 0                  | £ 217,000 0 0 |
| Total                           | £ 1,962,649 0 0*                      | £ 249,351 0 0*                | £ 2,212,000 0 0 |

| Commonwealth Grants for Residential Colleges Less Paid to Residential Colleges | | |
| Received                        | £ 11,805 0 0                          | £ 11,805 0 0                 |
| Accrued                         | £ 11,805 0 0                          | £ 11,805 0 0                 |
| Total                           |                                       |                             |

| Other Income                    | £ 84,374 12 2                         | £ 9,921 10 10                | £ 94,296 3 0 |

| Total Income                    | £ 5,677,943 11 11                     | £ 720,361 10 10              | £ 6,398,304 12 9 |
| Balance brought forward 1st January, 1964 | £ 7,176 18 5                          | £ 4,198 0 0                  | £ 11,374 18 5 |

£5,685,120 0 4 £724,559 10 10 £6,409,679 11 2

Notional distribution only.
## THE UNIVERSITY OF

### SPECIAL PURPOSES  

(Reproduced in full)

### STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 30 JUNE, 1964

<table>
<thead>
<tr>
<th>Fund</th>
<th>Balances Brought Forward 1st Jan., 1964</th>
<th>Receipts 1964</th>
<th>Total</th>
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<tr>
<td><strong>OTHER THAN NEWCASTLE UNIVERSITY COLLEGE—</strong></td>
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<td>American Chemical Society Petroleum Research Fund</td>
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<tr>
<td>Grant for the Study of Surface Properties of Beryllium Oxide</td>
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<tr>
<td>The Asthma Foundation of New South Wales Grants—</td>
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<tr>
<td>Research Fellowship—Dr. G. B. Field</td>
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<tr>
<td>Research in School of Pathology—Dr. J. Hussey</td>
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<td>Atmospheric Pollution Research Fellowship</td>
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<tr>
<td>Australian Atomic Energy Commission Grants—</td>
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<tr>
<td>Study of Surface Properties of Beryllium Oxide</td>
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<tr>
<td>Radiation Stability of Chemical Compounds</td>
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<tr>
<td>Research Studentship—R. M. Hoskinson</td>
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<td>Graduate Teaching Programme in Nuclear Sciences...</td>
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<tr>
<td>Research into High Temperature Uranium and Thorium Fuel Elements</td>
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<tr>
<td>Heat Transfer between Solids and Gases at High Temperatures...</td>
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<tr>
<td>Study of HIFAR Fuel Processing in Australia</td>
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<td>Reaction of Metals with Compound Gases</td>
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<td>Reaction of Ferrous Alloys and Certain Other Materials of Construction with Complex Gases at High Temperatures</td>
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<td>Investigation into the Insulation of Enclosed Cavities in which Heat Transfer occurs by Natural Convection</td>
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<tr>
<td>Resonance Absorption and Temperature Dependence</td>
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<tr>
<td>Effect of Radiation upon Multi-component Model Systems of Biological Relevance</td>
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<tr>
<td>Research into Punched Card Storage and Retrieval of Nuclear Engineering Information</td>
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<td>Optimization of the Factors Governing Production of Cobalt-60</td>
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<tr>
<td>Australian Automobile Association Grants—</td>
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<td>Study on Road Use and Road Financing in Australia</td>
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<td>Fellowship in School of Traffic Engineering</td>
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<td>Australian Broadcasting Control Board Post-Television Social Survey</td>
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<td>Australian Dairy Produce Board Grant—Studies on Casein and Cheese</td>
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<tr>
<td>Australian Institute of Nuclear Science and Engineering Grants—</td>
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<tr>
<td>Investigation of the Mechanism of Recoil Carbon-14 and Recoil Labelling of Organic Molecules</td>
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<tr>
<td>Application of Electron Spin Resonance (ESR) Spectroscopy to the Study of Radiation Stability of Organic Compounds</td>
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<td>Facilities for Research into Radio-Chemical Aspects of the Separation of the Higher Actinide Elements by Green Extraction and Ion Exchange Process</td>
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<td>Research on Radiation Catalysis</td>
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<td>Post-doctoral Fellowship—Dr. D. J. Corderoy</td>
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<td>Carried Forward:</td>
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**Refund of balance of grant.**

£ s. d. £ s. d. £ s. d.
NEW SOUTH WALES
OSES FUNDS

CALENDAR YEAR 1ST JANUARY, 1964 TO 31ST DECEMBER, 1964

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<th>Payments 1964</th>
<th>Salaries and Staff Superannuation</th>
<th>Equipment and Maintenance</th>
<th>Other</th>
<th>Total</th>
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Dr. 9 2 5       | 20,738 0 5                       |                          |       |       | 25,497 1 0                            |
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<td><strong>£ s. d.</strong></td>
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<td>Australian Institute of Nuclear Science and Engineering Grants—(cont'd.)</td>
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<td>Neutron Diffraction Studies of Reactive Metals</td>
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<tr>
<td>Slowing Down and Resonance Absorption in Nuclear Reactors</td>
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<td>11</td>
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<tr>
<td>Radiation Damage Studies in Textile Fibres and Related High Polymers</td>
<td>42</td>
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<td>11</td>
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<tr>
<td>The Effect of Irradiation on Endoparasite Development</td>
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<tr>
<td>Research on Fast Neutron Spectrometer</td>
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<tr>
<td>An Investigation of Pulsed Neutron Techniques in Reaction Physics</td>
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<td>Australian Mineral Industries Research Association Grant—</td>
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<td>Wire Rope Research Project</td>
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<td>Australian Paper Manufacturers’ Research Fellowship</td>
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<td>Australian Road Research Board Grants—</td>
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<tr>
<td>Reinforced Concrete Beams in Combined Bending, Shear and Torsion</td>
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<td>Fellowship in Traffic Engineering</td>
<td>Dr. 918</td>
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<tr>
<td>The Selection Efficiency of 2- and 4-Tooth Merino Rams</td>
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<td>Impact of Nutritional Factors, Yass River Valley</td>
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<td>Continuous Wool Processing</td>
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<tr>
<td>Banana Growers Federation Co-operative Ltd. Grant—Research into Spray-drying of Bananas</td>
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<td>Adolph Bassler Trust Scholarship in Nuclear Engineering</td>
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<td>Boots’ Research Fellowship in Wool Technology</td>
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<td>Colonial Sugar Refining Co. Ltd. Grants—</td>
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<td>Research into the Fluidised Bed-burning of Australian Gyspsums</td>
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*Refund of balance of grant.  
†Transfer of previous year’s balance to General Funds.  
‡Transfer of balance to General Funds.
### Annexeure “B”—Continued

**DAR Year 1st January, 1964 to 31st December, 1964—Continued**

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†Includes adjustment of portion of previous grant.
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<td>58,273 16 9</td>
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<td>180,506 18 1</td>
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### APPENDIX 3

#### STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CALI Fund

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<tr>
<th>Fund</th>
<th>Balances Brought Forward 1st Jan., 1964</th>
<th>Receipts 1964</th>
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**Carried Forward:** 150,844 6 11 243,887 16 3 394,732 3 2

*Includes adjustment of portion of previous grant.
†Refund of balance of grant.
‡Adjustment of previous years grant.
### Payments 1964

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<th>Other</th>
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**Notes:**
- **Salaries and Staff Superannuation:** Salaries and staff superannuation are listed first.
- **Equipment and Maintenance:** This category includes equipment and maintenance expenses.
- **Other:** This category includes other miscellaneous expenses.
- **Total:** The total payments for each category are calculated and listed.
- **Balances Carried Forward 31st Dec., 1964:** The balances carried forward to the next financial year are listed.
### APPENDIX 3

**STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CALLIGRAPHY FUND**

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<th>Fund</th>
<th>Balances Brought Forward 1st Jan., 1964</th>
<th>Receipts 1964</th>
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<td>The Sealing of Catchments to Increase Run-off</td>
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<td>44 2 5</td>
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<td>Research on the Nuclear Three Body Problem</td>
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*Includes refund of portion of previous grant.
†Refund of balance of grant.
### Payments 1964

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STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CAL Fund

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<td>Study of Unsaturated Soil with Special Reference to Drainage and Irrigation Problems</td>
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<td>Study of Measurement of Time of Concentration and Hydrographic Characteristics of Small Rural Catchments Using Radioactive Tracers</td>
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<td>Dedication Failures in Small Dams</td>
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<td>525,390 0 0</td>
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*Includes refund of portion of previous grant.
## Payments 1964

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## Balances Carried Forward 31st Dec., 1964

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**NOTE:**
- Dr. stands for debit, and the figures are balances carried forward.
**STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CALENDAR YEAR ENDING 31 DECEMBER 1964**

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<td>Research on Competition between Wool Fibres</td>
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<td>Research on Ram Wastage—Urinary Calculi</td>
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<td>Absorption of Acids and Alkalis in Wool and Complexes of Dyes and Surface-active Agents</td>
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<td>Accelerated Ageing of Worsted Manufacture</td>
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<td>Development of Weft Tension Regularity Device</td>
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<td>Investigation of Significant Wool Properties in Processing and End Use, Effect of Ionising Radiation on Wool, Relationship between Yarn and Fibre Irregularities</td>
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<td>The Permanence of Wool Bleaches and Investigation of Blowing at Temperatures near 100°C</td>
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<td>Improvements in Wool Scouring</td>
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*Includes transfer of £300 from Special Purpose Funds (Other) and refund of portion of previous grant.
†Includes refund of portion of previous grant.
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## ANNEXURE “C”

### THE UNIVERSITY OF NEW SOUTH WALES

#### SPECIAL PURPOSES FUNDS

(Scholarships, Bursaries, Prizes, etc.)

### STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CALENDAR YEAR

1st JANUARY, 1964, TO 31ST DECEMBER, 1964

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<th>Payments 1964</th>
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<td>25,826 10 5</td>
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<td>18,212 8 0</td>
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<td>7,614 2 5</td>
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*Includes £505 transferred from other Funds.
†Including investment as per Annexure "F."
‡Balance transferred to Banks and Business Houses Scholarship.
*Includes transfer of £300 to Mathematics Prize Fund, Wollongong University College.
## ANNEXURE "C"—continued

### STATEMENT OF TOTAL RECEIPTS AND PAYMENTS—continued

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<th>Payments 1964</th>
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<td>Sunbeam Corporation Ltd.—Scholarship in Wool Technology</td>
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### APPENDIX 3

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Wallace Wuth Memorial Prize in Medicine: £1,639 8 8

Total—Other than Newcastle University College: £21,810 2 10

Newcastle University College:

- The W. E. Clegg Memorial Prize Fund: £119 2 6
- A. J. Day Memorial Prize Fund: £127 13 9
- B. A. Helmore French Prize Fund: £102 12 6
- Ernest Helmore Memorial Prize Fund: £102 12 6
- Gertrude Helmore Memorial Prize Fund: £102 10 0
- Mathematics Prize Fund, Newcastle University College: £126 4 2
- Morison Special Economics Prize Fund: £1,026 5 0
- Mrs. and Col. H. L. Wheeler History Prizes Fund: £513 2 6
- General Prize Fund: £174 10 0

Total—Newcastle University College: £2,150 2 11

Total Scholarships, Bursaries, Prizes etc.: £23,960 5 9

Total Investments:
- Other than Newcastle University College: £12,030 0 0
- Newcastle University College: £2,050 0 0

†Including Investment as per Annexure "F".
### STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 30 JUNE 1964

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*Includes transfer of £331 9 9 from Granville Division.
†Including investment as per Annexure "F".
‡Transferred to School of Chemistry.
¶Refund of balance of previous grant.
### NEW SOUTH WALES

#### ROSES FUNDS

(For purposes)

**CALENDAR YEAR 1st JANUARY, 1964 TO 31st DECEMBER, 1964**

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*Transferred to Donations to School of Biological Sciences Fund.
†Includes adjustment of previous year’s balance in respect of Ash Precipitation Studies.
‡Transfer of balance to Mathematics Summer School, 1965.
§Transfer of balance to General Funds.
## Salaries and Staff Superannuation

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### STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CAL Fund

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*Transferred to Special Purpose Funds (Research).
†Including investment as per Annexure “F”.
‡Includes transfer of £6,000 0 0 from Wollongong University College Appeal Fund.
§Previous year’s expenditure on Building transferred against Permanent Trustee Co. Ltd. and Rightwear Shoe Pty. Ltd. Donations.
## REPORT OF COUNCIL—1964

### ANNEXURE “D”—continued

**YEAR 1ST JANUARY, 1964 TO 31ST DECEMBER, 1964—continued**

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<thead>
<tr>
<th>Salaries and Staff Superannuation</th>
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<td>Wollongong University College Library Appeal Fund</td>
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<td>Chemistry Kit Deposits</td>
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<td>Students' Sports Associations' Subscriptions</td>
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<td>Duplicating Services Working Account</td>
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<td>Purchase of Radios for Station 2UV—Working Account</td>
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*Includes £6,000 transferred to Special Purposes Fund “Purchase of Computer for Wollongong University College.”
†Includes investment as per Annexure “F”.
‡Refund of balance of grant.
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<th>Salaries and Staff Superannuation</th>
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- **59 17 0**
- **132 0 0**
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- **288 6 8**
- **134 13 4**
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- **1 0 0**
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- **2 0 0**
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- **85,200 0 0†**
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- **Dr 16,802 2 1**
- **1,810 5 10**
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- **392 13 3**
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<p>| 41,127 5 11                      | 70,281 19 5               | 156,835 8 0 | 268,244 13 4 | 818,774 8 8 |</p>
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<td>1,764,705 15 1</td>
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†Including investment as per Annexure "F".

Total Investments—
Other than Newcastle University College — £354,760 0 0
Newcastle University College — £2,100 0 0
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<th>Salaries and Staff Superannuation</th>
<th>Equipment and Maintenance</th>
<th>Other</th>
<th>Total</th>
<th>Balances Carried Forward 31st Dec., 1964</th>
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<tr>
<td>£ s. d.</td>
<td>£ s. d.</td>
<td>£ s. d.</td>
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<td>£ s. d.</td>
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<tr>
<td>41,127 5 11</td>
<td>70,281 19 5</td>
<td>156,835 8 0</td>
<td>268,244 13 4</td>
<td>818,774 8 8</td>
</tr>
<tr>
<td>Dr. 123 10 0</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>183 10 9</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>708 2 3</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Dr. 1,336 3 0</td>
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<td></td>
<td></td>
<td>1,210 9 4</td>
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<td></td>
<td>649,208 3 2</td>
</tr>
<tr>
<td>41,127 5 11</td>
<td>70,281 19 5</td>
<td>156,835 8 0</td>
<td>268,244 13 4</td>
<td>1,468,623 1 2</td>
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<td>1,412 3 9</td>
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<td>4,859 5 1</td>
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<td>6,271 8 10</td>
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<td>8,361 12 10</td>
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<td>2,124 0 0</td>
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<td>3 0 0</td>
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<td>11,065 18 11</td>
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<tr>
<td>41,127 5 11</td>
<td>71,694 3 2</td>
<td>161,694 13 1</td>
<td>274,516 2 2</td>
<td>1,490,189 12 11</td>
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THE UNIVERSITY OF NEW SOUTH WALES

General Loan Account Grants from N.S.W. State Treasury

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<tbody>
<tr>
<td>£ s. d.</td>
<td></td>
<td>£ s. d.</td>
<td>£ s. d.</td>
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<tr>
<td>Balance brought forward 1st January, 1964</td>
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<td>48,921 12 4</td>
<td>65,489 13 3</td>
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<td>Receipts—</td>
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<td>N.S.W. State Treasury</td>
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<tr>
<td>Vestments in N.S.W. Treasury Books</td>
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<tr>
<td>Total Receipts</td>
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<td>134,615 0 0</td>
<td>134,615 0 0</td>
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<tr>
<td>Total Receipts plus balance brought forward</td>
<td></td>
<td>183,536 12 4</td>
<td>200,104 13 3</td>
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<td>Payments—</td>
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<td>Buildings—including site development</td>
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<td>78,631 4 0</td>
<td>90,440 4 11</td>
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<tr>
<td>Less Repayments previous year’s expenditure</td>
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<td>10,533 8 10</td>
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<td>Land</td>
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<td>68,097 15 2</td>
<td>79,906 16 1</td>
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<td>Major Plant and Equipment</td>
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<td>Furniture</td>
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<td>Basic Library</td>
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<tr>
<td>Total Payments</td>
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<td>83,409 15 2</td>
<td>99,977 16 1</td>
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<td>Balance carried forward 31st December, 1964</td>
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<td>100,126 17 2</td>
<td>100,126 17 2</td>
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<tr>
<td>Total Payments plus credit balance carried forward</td>
<td></td>
<td>183,536 12 4</td>
<td>200,104 13 3</td>
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APPENDIX 3
THE UNIVERSITY OF NEW SOUTH WALES

SCHEDULE OF INVESTMENTS AS AT 31st DECEMBER, 1964

<table>
<thead>
<tr>
<th>Description</th>
<th>Interest Rate</th>
<th>Face Value</th>
<th>Book Value Cost</th>
<th>Maturity Date</th>
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<tbody>
<tr>
<td>OTHER THAN NEWCASTLE UNIVERSITY COLLEGE —</td>
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<tr>
<td>Special Purposes Funds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scholarships, Bursaries, Prizes etc. (See Annexure &quot;C&quot;)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metropolitan Water Sewerage and Drainage Board —</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inscribed Stock — Loan No. 129</td>
<td>4(^%)</td>
<td>250 0 0</td>
<td>250 0 0</td>
<td>1/3/1965</td>
<td>Frank J. Peplow Prize Fund.</td>
</tr>
<tr>
<td>— Loan No. 134</td>
<td>4(^%)</td>
<td>600 0 0</td>
<td>600 0 0</td>
<td>1/6/1965</td>
<td>Sydney Technical College Union Prize Fund.</td>
</tr>
<tr>
<td>— Loan No. 136</td>
<td>4(^%)</td>
<td>250 0 0</td>
<td>250 0 0</td>
<td>1/9/1965</td>
<td>Simon-Carves (Aust.) Pty. Ltd. Prize Fund.</td>
</tr>
<tr>
<td>— Loan No. 262</td>
<td>5(^%)</td>
<td>200 0 0</td>
<td>200 0 0</td>
<td>1/7/1969</td>
<td>Veteran Motorists of Aust. Prize Fund.</td>
</tr>
<tr>
<td>— Loan No. 312</td>
<td>5(^%)</td>
<td>1,000 0 0</td>
<td>1,000 0 0</td>
<td>1/8/1967</td>
<td>Pauline Price Scholarship Fund.</td>
</tr>
<tr>
<td>— Loan No. 320</td>
<td>5(^%)</td>
<td>300 0 0</td>
<td>300 0 0</td>
<td>1/10/1967</td>
<td>Donations of Royalties towards providing a Prize or Scholarship in Mathematics, Wollongong University College.</td>
</tr>
<tr>
<td>— Loan No. 385</td>
<td>5(^%)</td>
<td>500 0 0</td>
<td>500 0 0</td>
<td>1/12/1968</td>
<td>Commercial Banking Co. of Sydney Ltd.</td>
</tr>
<tr>
<td>— Loan No. 385</td>
<td>5(^%)</td>
<td>1,500 0 0</td>
<td>1,500 0 0</td>
<td>1/12/1968</td>
<td>Banks' and Business Houses Scholarship in Wool Technology.</td>
</tr>
<tr>
<td>— Loan No. 385</td>
<td>5(^%)</td>
<td>400 0 0</td>
<td>400 0 0</td>
<td>1/12/1968</td>
<td></td>
</tr>
<tr>
<td>— Loan No. 400</td>
<td>5(^%)</td>
<td>1,500 0 0</td>
<td>1,500 0 0</td>
<td>1/2/1997</td>
<td>Donations of Royalties towards providing a Prize or Scholarship in Mathematics.</td>
</tr>
<tr>
<td>— Loan No. 435</td>
<td>5(^%)</td>
<td>230 0 0</td>
<td>230 0 0</td>
<td>1/6/1970</td>
<td>Wallace Wurth Memorial Prize in Medicine.</td>
</tr>
<tr>
<td>— Loan No. 435</td>
<td>5(^%)</td>
<td>300 0 0</td>
<td>300 0 0</td>
<td>1/6/1970</td>
<td>Wallace Wurth Memorial Prize in Medicine.</td>
</tr>
<tr>
<td>— Loan No. 435</td>
<td>5(^%)</td>
<td>200 0 0</td>
<td>200 0 0</td>
<td>1/6/1970</td>
<td>Donation of Royalties towards providing a Prize or Scholarship in Mathematics.</td>
</tr>
<tr>
<td>— Loan No. 435</td>
<td>5(^%)</td>
<td>2,000 0 0</td>
<td>2,000 0 0</td>
<td>1/6/1970</td>
<td>Students' Union Foundation Day, 1962 Scholarship Fund.</td>
</tr>
<tr>
<td>— Loan No. 435</td>
<td>5(^%)</td>
<td>30 0 0</td>
<td>30 0 0</td>
<td>1/6/1970</td>
<td>Staff Prize in Psychology.</td>
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<tr>
<td>— Loan No. 435</td>
<td>5(^%)</td>
<td>100 0 0</td>
<td>100 0 0</td>
<td>1/6/1970</td>
<td>L. F. Utwick Prize Fund.</td>
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Carried Forward: ... ... £9,360 0 0 £9,360 0 0
### SCHEDULE OF INVESTMENTS—continued

<table>
<thead>
<tr>
<th>Description</th>
<th>Interest Rate</th>
<th>Face Value</th>
<th>Book Value</th>
<th>Maturity Date</th>
<th>Account</th>
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</thead>
<tbody>
<tr>
<td><strong>Brought Forward:</strong></td>
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<td><strong>Prospect County Council—</strong></td>
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<tr>
<td>Inscribed Stock—Loan No. 58</td>
<td>5½</td>
<td>1,000 0 0</td>
<td>1,000 0 0</td>
<td>1/8/1966</td>
<td>Pauline Price Scholarship Fund—National Institute of Dramatic Art.</td>
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<td>—Loan No. 65</td>
<td>5½</td>
<td>50 0 0 0</td>
<td>50 0 0 0</td>
<td>1/12/1981</td>
<td>Johnson &amp; Johnson Pty. Ltd.—Prize Fund—Department of External Studies.</td>
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<tr>
<td><strong>Sydney County Council—</strong></td>
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<td></td>
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<td>Inscribed Stock—Elect. Loan No. 140...</td>
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<td>J. B. Speakman Prize Fund.</td>
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<td><strong>Commonwealth Loan—</strong></td>
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<td>Peter Beckman Memorial Prize Fund.</td>
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<td>1,000 0 0</td>
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<td>R. J. Webster Prize Fund.</td>
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<td>100 0 0 0</td>
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<td>L. F. Urick Prize Fund.</td>
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<td>120 0 0 0</td>
<td>15/5/1984</td>
<td>Shakespeare Prize Fund in Department of Drama and National Institute of Dramatic Art.</td>
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<tr>
<td><strong>Total Scholarships etc. Investments</strong></td>
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<td>£12,030 0 0</td>
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</table>

**Other Special Purposes**

(See Annexure "D")

<p>| Metropolitan Water Sewerage and Drainage Board— |               |            |            |               |                                                              |
| Inscribed Stock—Loan No. 136              | 4½            | 900 0 0 0  | 900 0 0 0  | 1/9/1965      | Wollongong University College Appeal Fund.                   |
| —Loan No. 312                            | 5½            | 13,000 0 0 | 13,000 0 0 | 1/8/1967      | University of New South Wales Residential College Building Development. |
| —Loan No. 320                            | 5½            | 33,300 0 0 | 33,300 0 0 | 1/10/1967     | Wollongong University College Appeal Fund.                  |</p>
<table>
<thead>
<tr>
<th>Loan No.</th>
<th>5%</th>
<th>4%</th>
<th>3%</th>
<th>2%</th>
<th>1%</th>
<th>Amount</th>
<th>Date</th>
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<td>370</td>
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<td>4,500 0 0</td>
<td>1/12/1968</td>
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<tr>
<td>385</td>
<td>1,000 0 0</td>
<td>1,000 0 0</td>
<td>1/12/1968</td>
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<td>3,000 0 0</td>
<td>1/12/1968</td>
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<td>385</td>
<td>3,000 0 0</td>
<td>3,000 0 0</td>
<td>1/12/1968</td>
<td></td>
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<tr>
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<td>600 0 0</td>
<td>1/12/1968</td>
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<td>33,100 0 0</td>
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<td>2,200 0 0</td>
<td>1/6/1970</td>
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<td>400 0 0</td>
<td>1/6/1970</td>
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<td>435</td>
<td>2,000 0 0</td>
<td>2,000 0 0</td>
<td>1/6/1970</td>
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<td>435</td>
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<td>5,000 0 0</td>
<td>1/6/1970</td>
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<td>900 0 0</td>
<td>1/6/1970</td>
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<td>530</td>
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<td>50,000 0 0</td>
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**Prospect County Council—**
Inscribed Stock—Private Loan No. 124

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<tr>
<th></th>
<th>5%</th>
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<th>2%</th>
<th>1%</th>
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<td>90,000 0 0</td>
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**Commonwealth Loan—**
Special Bonds—Series B

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<th>Date</th>
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</thead>
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<td>5,000 0 0</td>
<td>5,000 0 0</td>
<td>1/10/1966</td>
<td></td>
</tr>
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</table>

Special Bonds—Series D

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<tr>
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<th>5%</th>
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<th>Date</th>
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<td>2,860 0 0</td>
<td>1/1/1968</td>
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**Total Other Special Purposes Investments**

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<th></th>
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<th>£354,760 0 0</th>
<th>£354,760 0 0</th>
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</table>

- University of New South Wales Union.
- University of New South Wales Union.
- University of New South Wales Union.
- University of New South Wales—Residential College Building Development.
- University of New South Wales—Residential College Building Development.
- Donations by late Sir Adolph Basset towards Equipping of Residential College.
- University of New South Wales—Residential College Building Development.
- University of New South Wales—Residential College Building Development.
- Student Loan Fund.
- Wallace Wurth Memorial Lecture Fund.
- University of New South Wales—Residential College Building Development.
- Student Loan Fund.
- New South Wales University Press Ltd.
- University of New South Wales Union.
- Wollongong University College Appeal Fund.
- Broken Hill—Establishment of the W. S. & L. B. Robinson University College.
- University of New South Wales—Residential College Building Development.
- University of New South Wales—Residential College Building Development.
- University of New South Wales—Residential College Building Development.
<table>
<thead>
<tr>
<th>Description</th>
<th>Interest Rate</th>
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<th>Book Value Cost</th>
<th>Maturity Date</th>
<th>Account</th>
</tr>
</thead>
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<tr>
<td>General Funds</td>
<td>Per Cent.</td>
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<td>£ s. d.</td>
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<tr>
<td>Metropolitan Water Sewerage and Drainage Board—</td>
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</tr>
<tr>
<td>Inscribed Stock—Loan No. 60</td>
<td>3 4</td>
<td>36,450 0 0</td>
<td>36,079 8 6</td>
<td>1/3/1966</td>
<td>General Investment of Funds Held.</td>
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<tr>
<td>—Loan No. 63</td>
<td>3 4</td>
<td>31,300 0 0</td>
<td>30,784 17 1</td>
<td>1/5/1966</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Loan No. 113</td>
<td>4 2</td>
<td>9,100 0 0</td>
<td>9,100 0 0</td>
<td>1/9/1965</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Loan No. 136</td>
<td>4 2</td>
<td>33,000 0 0</td>
<td>32,223 15 0*</td>
<td>1/9/1965</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Loan No. 136</td>
<td>4 2</td>
<td>4,800 0 0</td>
<td>4,854 0 0*</td>
<td>1/9/1965</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Loan No. 139</td>
<td>4 2</td>
<td>11,900 0 0</td>
<td>27,185 12 6*</td>
<td>1/10/1965</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Loan No. 89</td>
<td>4 2</td>
<td>15,100 0 0</td>
<td>1/10/1967</td>
<td>General Investment of Funds Held.</td>
<td></td>
</tr>
<tr>
<td>—Loan No. 320</td>
<td>5 4</td>
<td>6,000 0 0</td>
<td>6,000 0 0</td>
<td>1/6/1970</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Loan No. 290</td>
<td>5 4</td>
<td>9,500 0 0</td>
<td>9,728 15 10*</td>
<td>1/2/1966</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Loan No. 385</td>
<td>5 4</td>
<td>500 0 0</td>
<td>500 0 0</td>
<td>1/2/1966</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Loan No. 435</td>
<td>5 4</td>
<td>6,640 0 0</td>
<td>6,640 0 0</td>
<td>1/2/1966</td>
<td>General Investment of Funds Held.</td>
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<tr>
<td>—Loan No. 663</td>
<td>5</td>
<td>50,000 0 0</td>
<td>50,000 0 0</td>
<td>1/2/1966</td>
<td>General Investment of Funds Held.</td>
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<tr>
<td>—Loan No. 675</td>
<td>5 4</td>
<td>5,000 0 0</td>
<td>5,000 0 0</td>
<td>1/2/1966</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Private Loan No. 11</td>
<td>5 4</td>
<td>30,000 0 0</td>
<td>30,707 16 8</td>
<td>1/2/1966</td>
<td>General Investment of Funds Held.</td>
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<tr>
<td>—Private Loan No. 375</td>
<td>5 4</td>
<td>50,000 0 0</td>
<td>50,747 16 1</td>
<td>1/2/1966</td>
<td>General Investment of Funds Held.</td>
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<tr>
<td>Prospect County Council—</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inscribed Stock—Loan No. 65</td>
<td>5 2</td>
<td>50 0 0</td>
<td>50 0 0</td>
<td>1/12/1981</td>
<td>General Investment of Funds Held.</td>
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<tr>
<td>—Private Loan No. 124</td>
<td>5 0</td>
<td>10,000 0 0</td>
<td>10,000 0 0</td>
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<td>General Investment of Funds Held.</td>
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<tr>
<td>The Sydney County Council—</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inscribed Stock—Loan No. 180</td>
<td>5 3</td>
<td>60,000 0 0</td>
<td>63,118 12 6*</td>
<td>15/12/1966</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Private Loan URA</td>
<td>£3 6 3</td>
<td>25,000 0 0</td>
<td>25,040 12 6*</td>
<td>1/2/1965</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>—Private Loan ORA</td>
<td>3 4</td>
<td>50,000 0 0</td>
<td>49,804 9 1</td>
<td>1/7/1966</td>
<td>General Investment of Funds Held.</td>
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<tr>
<td>—Private Loan DD</td>
<td>£3 6 3</td>
<td>30,000 0 0</td>
<td>29,747 16 1</td>
<td>30/9/1965</td>
<td>General Investment of Funds Held.</td>
</tr>
<tr>
<td>Less Investment Amortisation Accounts</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>516,927 15 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,302 2 3</td>
<td></td>
</tr>
<tr>
<td>Total General Funds Investments</td>
<td></td>
<td></td>
<td></td>
<td>£514,340 0 0</td>
<td>£515,625 13 6</td>
</tr>
<tr>
<td>Total Other than Newcastle University College</td>
<td></td>
<td></td>
<td></td>
<td>£881,130 0 0</td>
<td>£882,415 13 6</td>
</tr>
</tbody>
</table>

ANNEXURE "F"—continued
### Special Purposes Funds

**Scholarships, Bursaries, Prizes etc.**

(See Annexure "C")

**Metropolitan Water Sewerage and Drainage Board—**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inscribed Stock—Loan No. 145</td>
<td>100.00</td>
<td>1/4/1976</td>
</tr>
<tr>
<td>—Loan No. 145</td>
<td>500.00</td>
<td>1/4/1976</td>
</tr>
<tr>
<td>—Loan No. 178</td>
<td>100.00</td>
<td>1/7/1977</td>
</tr>
<tr>
<td>—Loan No. 199</td>
<td>1,000.00</td>
<td>1/7/1978</td>
</tr>
<tr>
<td>—Loan No. 262</td>
<td>100.00</td>
<td>1/7/1969</td>
</tr>
<tr>
<td>—Loan No. 435</td>
<td>50.00</td>
<td>1/6/1987</td>
</tr>
<tr>
<td>—Loan No. 435</td>
<td>100.00</td>
<td>1/6/1970</td>
</tr>
<tr>
<td><strong>Commonwealth Loan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inscribed Stock—Loan No. 102</td>
<td>100.00</td>
<td>15/4/1976</td>
</tr>
<tr>
<td><strong>Total Scholarships etc. Investments</strong></td>
<td>£2,050</td>
<td>£2,050</td>
</tr>
</tbody>
</table>

**Other Special Purposes—**

(See Annexure "D")

**Metropolitan Water Sewerage and Drainage Board—**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inscribed Stock—Loan No. 435</td>
<td>1,500.00</td>
<td>1/6/1970</td>
</tr>
<tr>
<td><strong>Commonwealth Loan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treasury Bonds</td>
<td>100.00</td>
<td>15/4/1965</td>
</tr>
<tr>
<td>Treasury Bonds</td>
<td>150.00</td>
<td>1/11/1965</td>
</tr>
<tr>
<td>Treasury Bonds</td>
<td>100.00</td>
<td>15/12/1965</td>
</tr>
<tr>
<td>Treasury Bonds</td>
<td>150.00</td>
<td>15/2/1967</td>
</tr>
<tr>
<td><strong>Total Other Special Purposes Investments</strong></td>
<td>£2,100</td>
<td>£2,100</td>
</tr>
<tr>
<td><strong>Total Newcastle University College Investments</strong></td>
<td>£4,150</td>
<td>£4,150</td>
</tr>
<tr>
<td><strong>TOTAL INVESTMENTS</strong></td>
<td>£885,280</td>
<td>£886,565</td>
</tr>
</tbody>
</table>

B. A. Helmore Prize Fund.
H. L. Wheeler Prize Fund.
Morison Special Economics Prize Fund.
W. E. Clegg Memorial Prize Fund.
Ernest Helmore Memorial Prize Fund.
A. J. Day Memorial Prize Fund.
Mathematics Prize Fund.
J. P. BAXTER,  
Vice-Chancellor.

The above statement has been checked with the accounts of the University of New South Wales and
The projects included in the statement are specified in the Third Schedule of the States Grants

SYDNEY, 21st October, 1965
## Annexure "G"

**NEW SOUTH WALES**

**INCOME AND EXPENDITURE UNDER THE STATES GRANTS (UNIVERSITIES) ACT, 1958**

1st DECEMBER, 1964

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Other than Newcastle University College</th>
<th>Newcastle University College</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance brought forward 1st January, 1964</td>
<td>£ 2,007 14 7</td>
<td>£ 376 4 8</td>
<td>£ 2,383 19 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>£ 2,007 14 7</td>
<td>£ 376 4 8</td>
<td>£ 2,383 19 3</td>
</tr>
</tbody>
</table>

J. O. A. Bourke, Bursar.

E. H. DAVIS, Accountant.

is correct in accordance therewith. Under the States Grants (Universities) Act, 1958 and the moneys received have been applied to the purposes intended.

W. G. MATHIESON,
Auditor-General of New South Wales.


<table>
<thead>
<tr>
<th>EXPENDITURE</th>
<th>£</th>
<th>s</th>
<th>d</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BUILDING PROJECTS—</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science Building “A”</td>
<td>778</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Schools of Medicine and Biological Sciences</td>
<td>5,673</td>
<td>6</td>
<td>11</td>
</tr>
<tr>
<td>Installation of Water, Electricity, Gas and other services and preparation of sites</td>
<td>10,944</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>Halls of Residence</td>
<td>26,381</td>
<td>7</td>
<td>5</td>
</tr>
<tr>
<td>Faculty of Arts</td>
<td>7,074</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Library</td>
<td>3,414</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Building Projects</strong></td>
<td>54,266</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td><strong>FURNISHINGS AND EQUIPMENT—</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science Building “A”</td>
<td>4,554</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>Schools of Medicine and Biological Sciences</td>
<td>25,918</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>University College, Wollongong</td>
<td>239</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>Schools of Mechanical and Electrical Engineering</td>
<td>24,250</td>
<td>10</td>
<td>8</td>
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<tr>
<td>Halls of Residence</td>
<td>12,463</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Furnishings and Equipment</strong></td>
<td>67,426</td>
<td>12</td>
<td>5</td>
</tr>
<tr>
<td><strong>CAPITAL EQUIPMENT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Expenditure</strong></td>
<td>145,527</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td><strong>Balance carried forward 31st December, 1964</strong></td>
<td>111,001</td>
<td>18</td>
<td>3</td>
</tr>
<tr>
<td><strong>£256,529</strong></td>
<td>5</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

J. P. BAXTER, Vice-Chancellor.

I certify that in terms of Sections 4 (1) and 7 of the States Grants (Universities) Act, 1960-1964, in grants on building projects, furnishings and equipment at the University of New South Wales including £3,274,375.

SYDNEY, 21st October, 1965.
NEW SOUTH WALES
AND EXPENDITURE
NGS AND EQUIPMENT AND CAPITAL EQUIPMENT
UNIVERSITIES) ACT, 1960-1964
1st DECEMBER, 1964

<table>
<thead>
<tr>
<th>Income</th>
<th>£</th>
<th>s.</th>
<th>d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance brought forward 1st January, 1964</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>COMMONWEALTH GRANTS— (For Facilities in Teaching Hospitals)—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Building Projects</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Furnishings</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Equipment</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Less paid to The Hospitals Commission of New South Wales</td>
<td>291,960</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

|Less paid to The Hospitals Commission of New South Wales| 291,960 | 0 | 0 |

**£256,529 5 1**

J. O. A. BOURKE, Bursar.
E. H. DAVIS, Accountant.

In relation to the year 1964, the above financial statement correctly sets out expenditure from Government expenditure from Commonwealth grants for those purposes received during the triennium 1960-1963 totalling £256,529 5 1.

W. G. MATHIESON, Auditor-General of New South Wales.
### Expenditure

<table>
<thead>
<tr>
<th>Building Projects Etc.—</th>
<th>£ s. d.</th>
<th>£ s. d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kensington</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculties of Arts and Commerce and School of Mathematics</td>
<td>230,778</td>
<td>9 10</td>
</tr>
<tr>
<td>Administration</td>
<td>26,660</td>
<td>15 7</td>
</tr>
<tr>
<td>School of Civil Engineering</td>
<td>40,615</td>
<td>14 0</td>
</tr>
<tr>
<td>Library</td>
<td>187,398</td>
<td>1 4</td>
</tr>
<tr>
<td>School of Physics—Alterations</td>
<td>173</td>
<td>11 11</td>
</tr>
<tr>
<td>Robert Heflfron Building, School of Chemistry—Alterations</td>
<td>26,000</td>
<td>0 0</td>
</tr>
<tr>
<td>Faculty of Applied Science—Alterations</td>
<td>1,097</td>
<td>6 3</td>
</tr>
<tr>
<td>School of Textile Technology—Alterations</td>
<td>514</td>
<td>16 6</td>
</tr>
<tr>
<td>Schools of Chemical Engineering and Chemical Technology—Alterations</td>
<td>14,509</td>
<td>12 7</td>
</tr>
<tr>
<td>School of Metallurgy—Alterations</td>
<td>365</td>
<td>8 10</td>
</tr>
<tr>
<td>Faculty of Architecture</td>
<td>2,053</td>
<td>5 8</td>
</tr>
<tr>
<td>Students' Union—Extensions</td>
<td>9,499</td>
<td>19 3</td>
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<tr>
<td>Minor Works</td>
<td>12,024</td>
<td>13 1</td>
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<tr>
<td>Installation of Water, Electricity, Gas and other Services and Preparation of Sites</td>
<td>54,015</td>
<td>1 8</td>
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<tr>
<td>Provision of Sporting Facilities—Daceyville</td>
<td>9,483</td>
<td>18 7</td>
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<td>Halls of Residence</td>
<td>2,000</td>
<td>0 0</td>
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<td></td>
<td></td>
<td>617,388</td>
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<tr>
<td>Wollongong</td>
<td></td>
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<tr>
<td>Students' Union</td>
<td>24,649</td>
<td>12 4</td>
</tr>
<tr>
<td>Department of Metallurgy—Alterations</td>
<td>26,849</td>
<td>17 4</td>
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<tr>
<td></td>
<td></td>
<td>51,499</td>
</tr>
<tr>
<td>Newcastle (Shortland)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculties of Arts, Commerce and Science, and Library and Administration</td>
<td>104,139</td>
<td>16 6</td>
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<tr>
<td>Students' Union</td>
<td>1,417</td>
<td>0 0</td>
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<tr>
<td>Installation of Water, Electricity, Gas and other Services and Preparation of Sites</td>
<td>33,687</td>
<td>0 0</td>
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<td></td>
<td></td>
<td>139,243</td>
</tr>
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<td>Total Expenditure</td>
<td></td>
<td>808,132</td>
</tr>
<tr>
<td>Balance carried forward 31st December, 1964</td>
<td>710,725</td>
<td>18 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,518,858</td>
</tr>
</tbody>
</table>

J. P. Baxter,  
Vice-Chancellor.

I certify that in terms of Sections 2 (1), 5 and 7 of the Universities (Financial Assistance) Act, 1963-1964, grants on building projects, etc. and on buildings for halls of residence at the University of New South Wales

Sydney, 21st October, 1965.
NEW SOUTH WALES

AND EXPENDITURE

HALLS OF RESIDENCE AND AFFILIATED RESIDENTIAL COLLEGES

ASSISTANCE) ACT 1963-1964

1st DECEMBER, 1964

<table>
<thead>
<tr>
<th>Income</th>
<th>£</th>
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<tbody>
<tr>
<td>Commonwealth Grants</td>
<td>585,058 0 0</td>
</tr>
<tr>
<td>State Grants</td>
<td>933,800 0 0</td>
</tr>
</tbody>
</table>

£1,518,858 0 0

J. O. A. BOURKE,
Bursar,

in relation to the year 1964, the above financial statement correctly sets out expenditure from Government including expenditure from Commonwealth grants for those purposes totalling £585,058.

W. G. MATHIESON,
Auditor-General of New South Wales,
## THE UNIVERSITY OF NEWCASTLE UNIVERSITY STATEMENT OF INCOME GRANTS FOR SPECIFIED PROJECTS UNDER THE UNIVERSITIES (FINANCIAL) ACT 1963 1st JANUARY, 1964 TO 31ST DECEMBER, 1964

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Other than Newcastle University College</th>
<th>Newcastle University College</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries and Wages</td>
<td>£ 20,421 8 7</td>
<td>£ 4,139 12 0</td>
<td>£ 24,561 0 7</td>
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<tr>
<td>Pay-roll Tax</td>
<td>£ 523 9 10</td>
<td>£ 103 9 10</td>
<td>£ 626 19 8</td>
</tr>
<tr>
<td>Workers' Compensation</td>
<td>£ 212 7 8</td>
<td>£ 52 4 7</td>
<td>£ 264 12 3</td>
</tr>
<tr>
<td>Sub-Total</td>
<td></td>
<td></td>
<td>£ 25,452 12 6</td>
</tr>
<tr>
<td>Research Publications, Books and Periodicals</td>
<td>£ 21,157 6 1</td>
<td>£ 4,295 6 5</td>
<td>£ 25,452 12 6</td>
</tr>
<tr>
<td>Materials</td>
<td>£ 10,067 10 9</td>
<td>£ 98 18 6</td>
<td>£ 10,166 9 3</td>
</tr>
<tr>
<td>Post-Graduate Scholarships</td>
<td>£ 4,280 11 2</td>
<td>£ 62 12 5</td>
<td>£ 4,343 3 7</td>
</tr>
<tr>
<td>Computer Usage</td>
<td>£ 3,175 7 3</td>
<td>£ 3,175 7 3</td>
<td>£ 3,175 7 3</td>
</tr>
<tr>
<td>Travelling Expenses</td>
<td>£ 2,500 0 0</td>
<td>£ 2,500 0 0</td>
<td>£ 2,500 0 0</td>
</tr>
<tr>
<td>Sub-Total</td>
<td>£ 1,179 8 4</td>
<td>£ 357 16 6</td>
<td>£ 1,537 4 10</td>
</tr>
<tr>
<td>Total Recurrent</td>
<td>£ 42,360 3 7</td>
<td>£ 4,814 13 10</td>
<td>£ 47,174 17 5</td>
</tr>
<tr>
<td>Equipment</td>
<td>£ 40,785 2 9</td>
<td>£ 3,614 13 11</td>
<td>£ 44,399 16 8</td>
</tr>
<tr>
<td>Total Expenditure</td>
<td>£ 83,145 6 4</td>
<td>£ 8,429 7 9</td>
<td>£ 91,574 14 1</td>
</tr>
<tr>
<td>Balance carried forward 31st December, 1964</td>
<td>£ 30,854 13 8</td>
<td>£ 2,570 12 3</td>
<td>£ 33,425 5 11</td>
</tr>
<tr>
<td></td>
<td>£ 114,000 0 0</td>
<td>¥ 11,000 0 0</td>
<td>¥ 125,000 0 0</td>
</tr>
</tbody>
</table>

J. P. BAXTER,  
Vice-Chancellor.
NEW SOUTH WALES
AND EXPENDITURE
RESEARCH PURPOSES
CIAL ASSISTANCE) ACT 1963-1964
31st DECEMBER, 1964

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Other than Newcastle University College</th>
<th>Newcastle University College</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>£  s.  d.</td>
<td>£  s.  d.</td>
<td>£  s.  d.</td>
</tr>
<tr>
<td>Commonwealth Grant</td>
<td>57,000  0  0</td>
<td>5,500  0  0</td>
<td>62,500  0  0</td>
</tr>
<tr>
<td>State Grant</td>
<td>57,000  0  0</td>
<td>5,500  0  0</td>
<td>62,500  0  0</td>
</tr>
<tr>
<td></td>
<td>£114,000  0  0*</td>
<td>11,000  0  0*</td>
<td>125,000  0  0</td>
</tr>
</tbody>
</table>

*Internal distribution of funds.

J. O. A. BOURKE, E. H. DAVIS,
Bursar. Accountant.
### THE UNIVERSITY OF NEW SOUTH WALES

**STATEMENT OF INCOME FOR THE PURPOSES OF THE UNIVERSITIES (FINANCIAL ASSISTANCE) ACT, 1963-1964**

**RECURRENT EXPENDITURE**

1st JANUARY, 1964 TO 31ST DECEMBER, 1964

<table>
<thead>
<tr>
<th>Description</th>
<th>£</th>
<th>s.</th>
<th>d.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Salaries and Wages</strong></td>
<td>4,539,689</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td><strong>Employer's Contribution to Superannuation Fund</strong></td>
<td>163,914</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td><strong>Pay-roll Tax</strong></td>
<td>117,220</td>
<td>17</td>
<td>1</td>
</tr>
<tr>
<td><strong>Workers' Compensation Insurance Premiums and Other Staff Charges</strong></td>
<td>15,369</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td><strong>Teaching and Research—Departmental Maintenance and Minor Equipment</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Plant—</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital</td>
<td>31,452</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Revenue</td>
<td>188,529</td>
<td>15</td>
<td>4</td>
</tr>
<tr>
<td><strong>Repairs, Alterations and General Maintenance of Buildings—</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capital</td>
<td>50,846</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>Revenue</td>
<td>98,554</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Books, Periodicals and Pamphlets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power, Lighting and Heating</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Administration and General Overhead—Materials, Travelling Expenses etc.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Telephone and Advertising</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Printing and Postages</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Contributions, Grants and Subscriptions</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Furniture</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Expenses of New Appointments</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rates and Property Insurance</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Examination Expenses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Expenses of Motor Vehicles</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bursaries</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rentals</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Legal Fees and Similar Charges</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Miscellaneous Expenses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Expenditure</strong></td>
<td>6,336,490</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td><strong>Balance carried forward 31st December, 1964</strong></td>
<td>73,189</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total Expenditure carried forward 31st December, 1964</strong></td>
<td>6,409,679</td>
<td>11</td>
<td>2</td>
</tr>
</tbody>
</table>

*As defined Section 2, Universities (Financial Assistance) Act 1963-1964.

J. P. BAXTER, 
Vice-Chancellor.

I certify that in terms of Sections 2 (1) and 3 of the Universities (Financial Assistance) Act, 1963-1964, University of New South Wales and that the Commonwealth grant for recurrent purposes paid to the University purposes.

The above statement does not include the additional grant which was made pursuant to the provisions.

SYDNEY, 21st October, 1965.
### Income

<table>
<thead>
<tr>
<th>Description</th>
<th>£</th>
<th>s.</th>
<th>d.</th>
<th>£</th>
<th>s.</th>
<th>d.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fees—</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students’ Fees</td>
<td></td>
<td></td>
<td></td>
<td>857,005</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Library Fees</td>
<td></td>
<td></td>
<td></td>
<td>52,828</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>State Grants for Recurrent Expenditure—</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Received</td>
<td></td>
<td></td>
<td></td>
<td>2,962,075</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Accrued</td>
<td></td>
<td></td>
<td></td>
<td>60,100</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total State Grants for Recurrent Expenditure</td>
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<td></td>
<td></td>
<td>2,982,175</td>
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<td>0</td>
</tr>
<tr>
<td>Commonwealth Grants for Recurrent Expenditure—</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Received</td>
<td></td>
<td></td>
<td></td>
<td>1,995,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Accrued</td>
<td></td>
<td></td>
<td></td>
<td>217,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Commonwealth Grants for Recurrent Expenditure</td>
<td></td>
<td></td>
<td></td>
<td>2,212,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Less paid to Residential Colleges</td>
<td></td>
<td></td>
<td></td>
<td>11,805</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other Income</td>
<td></td>
<td></td>
<td></td>
<td>94,296</td>
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</tr>
<tr>
<td>Total Income</td>
<td></td>
<td></td>
<td></td>
<td>6,398,304</td>
<td>12</td>
<td>9</td>
</tr>
<tr>
<td>Balance brought forward 1st January, 1964</td>
<td></td>
<td></td>
<td></td>
<td>11,374</td>
<td>18</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Income: £6,409,679 11 2

J. O. A. BOURKE,  
Bursar.

E. H. DAVIS,  
Accountant.

in relation to the year 1964, the above statement correctly sets out the fees and State grants received by the University in respect of that year has been applied for expenditure, not being capital expenditure or of Act No. 40 of 1965 (Commonwealth) and brought to account in the University's books in 1965.

W. G. MATHIESON,  
Auditor-General of New South Wales.