



THE UNIVERSITY
OF
NEW SOUTH WALES

CALENDAR 1966
VOLUME 2

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CALENDAR OF THE UNIVERSITY OF NEW SOUTH WALES 1966 VOL. 2

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CALENDAR
OF
THE UNIVERSITY OF
NEW SOUTH WALES

1966

VOL. 2



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30th November, 1965, but may be amended without notice by
the University Council)

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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.

<i>School/Department</i>	<i>Donor/Name of Prize</i>	<i>Value</i>	<i>Awarded for</i>
General	The Sydney Technical College Union Award	£25 0 0	Leadership in the development of student affairs and academic proficiency throughout the course.
	The University of New South Wales Commerce Society	£10 10 0	Academic proficiency throughout Commerce course and leadership in student activities.
	The University of New South Wales Wives Group	£25 0 0	First Year of the Faculties of Architecture, Arts and Commerce—Women full-time students only.
	The University of New South Wales Wives Group	£25 0 0	Common first year—Women full-time students only.
	Wallace Wurth	£100 0 0	General proficiency in Medicine (first award 1967).
School of Accountancy	The Australian Institute of Cost Accountants	£10 10 0	14.161 Advanced Cost Accounting.
	Chamber of Manufactures of N.S.W.	£5 0 0	14.131 Auditing and Internal Control.
	Edwin V. Nixon & Partners	£10 10 0	14.321 Business Finance.
	Esso Australia	£10 0 0	14.102 Accounting II—Part-time students only.
	E. S. Wolfenden Memorial	£10 10 0	14.103 Accounting III.

<i>School/Department</i>	<i>Donor/Name of Prize</i>	<i>Value</i>	<i>Awarded for</i>
	Greenwood, Challoner & Co.	£10 10 0	14.502 Commercial Law II.
	Larke Consolidated Industries.	£10 0 0	14.102 Accounting II—Full-time students only.
	Philips Electrical	£10 0 0	14.311 Marketing.
	The Law Book Co. of Australasia Pty. Ltd.	Books to the value of £10 10 0	14.101 Accounting I.
	S. R. Brown, Pringle, Wolff & Co.	£10 0 0	14.104 Accounting IV.
	The Taxation Institute of Australia	£10 10 0	14.201 Taxation Law and Practice.
School of Anatomy	Senior Prize in Practical Anatomy (including Radiological Anatomy)	£10 10 0	Practical Anatomy—Medicine, Year 3.
School of Applied Geology	Geological Survey of New South Wales	£6 6 0	25.511 Geology I.
School of Applied Psychology	The British Psychological Society	£5 0 0	A Stage 3 Psychology subject selected by Head of School.
School of Architecture and Building	Alex Rigby	£52 10 0	Master of Building—Distinguished graduate.
	Archibald Howie Memorial	£7 7 0	Building Diploma, Stage 5.
	The Australian Institute of Builders	£25 0 0	Building Diploma, Final Stage—2 prizes.
	Board of Architects of New South Wales	£20 0 0	School Prize Fund—Subject selected by Head of School.
	Byera Hadley Testimonial	£5 5 0	Design subjects of last stage of Architecture diploma.
	Chamber of Manufactures of N.S.W.	£5 0 0	Architecture and Building courses—subjects selected by Head of School.

	Dunlop Rubber Australia Ltd.	£26 5 0	Architecture, Year 3.
	Frank W. Peplow	£12 0 0	Church Architecture.
	The Institute of Quantity Surveyors (Australia)	£15 15 0	Quantity Surveying—subject selected by Head of School.
	James Hardie	(i) £50 0 0 (ii) £20 0 0	General Proficiency—Architecture degree. Building, Year 1.
	Marley Reliance Industries	£25 0 0	Architecture, Year 1.
	Master Builders' Association of New South Wales	£100 0 0	School Prize Fund—subjects selected by Head of School.
	Royal Australian Institute of Architects	£25 0 0	Architectural Design and allied subjects in last two years of Architecture course.
	R. Still Memorial (Australian Institute of Quantity Surveyors)	£10 10 0	Quantity Surveying—subject selected by Head of School.
	W. A. Nelson	£30 0	Studio project—Architecture, Year 4 (1965 then alternate years only).
	Joseph Auto-Hot Pty. Ltd.	£300 0 0	Architecture, Final Year.
	William King McLean	£2 2 0	Building Construction and Theory of Structure—first three stages.
School of Biological Sciences	E. O. Tout Memorial	£10 10 0	17.301 Botany I and 17.302 Botany II.
School of Business Administration	John Storey Memorial	(i) £50 0 0 (ii) £30 0 0	Thesis. General Proficiency, Year 2.
	F. W. Williams	£21 0 0	Financial Management.
	P. C. Boon	£20 0 0	General Proficiency, Year 1.

<i>School/Department</i>	<i>Donor/Name of Prize</i>	<i>Value</i>	<i>Awarded for</i>
School of Chemical Engineering	Chamber of Manufactures of N.S.W.	£5 0 0	Chemical Engineering—subject selected by Head of School.
	Dunlop Rubber Australia Ltd.	£26 5 0	Chemical Engineering, Year 3.
	Esso Australia	£10 0 0	3.111 Chemical Engineering I.
	The North Shore Gas Co. Ltd.	£5 5 0	Chemical Engineering—subject selected by Head of School.
	Petroleum Refineries (Australia) Pty. Ltd.	£31 10 0	Chemical Engineering, Year 4.
	Shell	£31 10 0	3.122 Chemical Engineering IIB.
	Simon-Carves (Australia) Pty. Ltd.	£10 10 0	3.121 Chemical Engineering IIA.
School of Chemical Technology	Australian Paper Manufacturers Ltd.	£10 10 0	School Prize Fund—subject selected by Head of School.
	Colonial Sugar Refining	£10 10 0	School Prize Fund—subject selected by Head of School.
	Morganite	£50 0 0	Ceramics—year or stage selected by Head of School (1966 then each alternate year).
	Stauffer Chemical Co. (Aust.) Pty. Ltd.	£10 10 0	School Prize Fund—subject selected by Head of School.
School of Chemistry	Australian Chemical Holdings Ltd.	£10 10 0	2.64 Organic Chemistry III.
	Australian Glass Manufacturers Co. Pty. Ltd.	£2 2 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.

C.S.R. Chemicals	£50 0 0	Chemistry Honours.
Drug Houses of Australia Ltd.	£5 5 0	School Prize Fund—subject selected by Head of School.
George Wright	£5 5 0	2.001 Chemistry I—Full-time students only.
Inglis Hudson Bequest	£3 0 0 (approx.)	2.611 Organic Chemistry I.
Merck, Sharp & Dohme (Aust.) Pty. Ltd.	(i) £26 5 0 (ii) £26 5 0	2.002 Chemistry II. 2.003 Chemistry III.
The Nestlé Co. (Aust.) Ltd.	£2 2 0	School Prize Fund—subject selected by Head of School.
Parke Pope	£5 5 0	School Prize Fund—subject selected by Head of School.
Science Association	£10 10 0	School Prize Fund—subject selected by Head of School.
Smith, Kline & French	£25 0 0	General Proficiency—Food and Drug Analysis Graduate Diploma.
Tooheys Ltd.	£2 2 0	School Prize Fund—subject selected by Head of School.
Tooth & Co. Ltd.	£2 2 0	School Prize Fund—subject selected by Head of School.
Unilever	£10 10 0	2.34 Physical Chemistry III.
V. S. Rawson	£5 5 0 .	School Prize Fund—subject selected by Head of School.

<i>School/Department</i>	<i>Donor/Name of Prize</i>	<i>Value</i>	<i>Awarded for</i>
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	General Proficiency—Structures (full-time students).
		(ii) £10 0 0 and books to the value of £15 0 0	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.	£3 3 0	Statistics—General Proficiency throughout course.
	Unilever	(i) £10 10 0	15.101 Economics I.
		(ii) £10 10 0	15.102 Economics II.
		(iii) £10 10 0	15.103 Economics III.
		(iv) £10 10 0	15.104 Advanced Economic Analysis.
		(v) £10 10 0	15.401 Business Statistics.
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.

	Crane Copper and Aluminium	(i) £40 0 0 (ii) £40 0 0	Electrical Engineering, Year 3.
	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).
	Johnson & Phillips	Books	Control Systems.
	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.
School of English	New South Wales Association of University Women Graduates	£5 0 0	English Essays—Women students only.
Department of Fuel Technology	Institute of Fuel	£15 15 0	School Prize Fund—subject selected by Head of School.
	Shell	£31 10 0	School Prize Fund—year selected by Head of School.
School of Highway Engineering	Le Tourneau-Westinghouse	£125 0 0	General Proficiency—Highway Engineering, Master of Technology degree.
School of Hospital Administration	The Connie Ratcliff Memorial	£10 10 0	General Proficiency—Hospital Administration.
Department of Industrial Arts	A. W. Wonders	£5 5 0	General Proficiency in course for the degree of Bachelor of Science in Industrial Arts.
Department of Industrial Engineering	Chamber of Manufactures of N.S.W.	£5 0 0	School Prize Fund—subject selected by Head of School.
	Crane Copper and Aluminium	£75 0 0	Industrial Engineering, Year 3.
	Duly and Hansford Ltd.	£5 5 0	Industrial Engineering, Stage 6.

<i>School/Department</i>	<i>Donor/Name of Prize</i>	<i>Value</i>	<i>Awarded for</i>
School of Mathematics	School of Mathematics	(i) £10 0 0 (ii) £10 0 0	10.121 Pure Mathematics II (Higher). 10.001 Mathematics I.
	Statistical Society	£3 3 0	General Proficiency—Theory of Statistics subjects.
	Statistics Fund	(i) £10 0 0 (ii) £10 0 0 (iii) £10 0 0	10.321 Theory of Statistics I (Higher). 10.322 Theory of Statistics II (Higher). 10.323 Theory of Statistics III.
	Babcock and Wilcox of Australia Pty. Ltd.	£10 10 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.
School of Mechanical Engineering	Cockatoo Docks and Engineering Co. Pty. Ltd.	£2 2 0	School Prize Fund—subject selected by Head of School.
	Colonial Sugar Refining	£10 10 0	School Prize Fund—subject selected by Head of School.
	Dunlop Rubber Australia Ltd.	£26 5 0	Mechanical Engineering, Year 3.
	Esso Australia	£10 0 0	Mechanical Engineering, Year 1.
	Ford	£10 0 0	School Prize Fund—subject selected by Head of School.
	Staedtler	£25 0 0	General Proficiency—Mechanical Engineering, Year 2.
	The Australian College of General Practitioners	£10 10 0	Case History Study—Medicine, Year 5 or Year 6.
	FRATA	£50 0 0	Essay on a clinical or scientific aspect of alcoholism.
School of Medicine	W. G. Telleson Memorial	£15 15 0	Written and Clinical Examinations, Year IV.

School of Metallurgy	Austral Bronze Co. Pty. Ltd.	£5 0 0	School Prize Fund—subject selected by Head of School.
	Australian Aluminium Co. Ltd.	£5 5 0	School Prize Fund—subject selected by Head of School.
	The Australian Institute of Metals	£12 12 0	School Prize Fund—subject selected by Head of School.
	Australian Welding Institute	£5 0 0	School Prize Fund—subject selected by Head of School.
	Boiler Inspectors' Association	£10 10 0	School Prize Fund—subject selected by Head of School.
	The Broken Hill Proprietary Co. Ltd.	£5 0 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.
	The Eagle and Globe Steel Co. Ltd.	£5 5 0	School Prize Fund—subject selected by Head of School.
	The Electrolytic Refining and Smelting Co. of Australia Pty. Ltd.	£5 0 0	School Prize Fund—subject selected by Head of School.
	Electrolytic Zinc Co. of Australia Ltd.	£5 5 0	School Prize Fund—subject selected by Head of School.
	R. H. Myers	£10 0 0	Metallurgy, Year 1.
School of Obstetrics and Gynaecology	Zinc Corporation Ltd.	£10 10 0	School Prize Fund—subject selected by Head of School.
	F. J. Brown Memorial	£10 0 0	Final Written and Practical Examinations in Obstetrics and Gynaecology. Clinical Obstetrics and Gynaecology.
	Gordon Lowe Memorial	£25 0 0	

<i>School/Department</i>	<i>Donor/Name of Prize</i>	<i>Value</i>	<i>Awarded for</i>
Department of Optometry	Australian Optical Co. Pty. Ltd.	£10 10 0	Optometry, Year 4.
	Australian Optometrical Association	£10 10 0	Optometry, Year 2.
	Chamber of Manufactures of N.S.W.	£5 0 0	1.811 Optometry I.
	Arthur Cocks & Co. Ltd.	£5 5 0	1.812 Optometry II.
	Corneal Lens	£10 10 0	1.813 Optometry III.
	Optical Products Pty. Ltd.	£10 10 0	Optometry, Year 3.
	The Opticians & Optometrists' Association of N.S.W.	£10 10 0	1.841 Clinical Optometry.
School of Physics	G. P. Falls	£10 0 0	1.133 Mathematical Physics.
	Physics Staff	£25 0 0	1.113 Physics III.
School of Political Science	Australian Institute of Political Science	£15 0 0 and one year's subscription to the "Australian Quarterly".	54.111 Political Science I.
	Politics	£10 10 0	54.111 Political Science I.
	The Sydney Morning Herald	£21 0 0	54.112 Political Science II or later stage.

School of Textile Technology	J. B. Speakman	£10 0 0	Undergraduate Thesis.
	R. J. Webster	£50 0 0	General Proficiency—Textile Technology.
School of Traffic Engineering	Veteran Motorists of Australia	£10 0 0	School Prize Fund—subject selected by Head of School.
School of Surgery	Frank Gerbode Graduation	£50 0 0	Surgery—Medicine, Final Year.
School of Wool Technology	Henry H. York & Co.	£25 0 0	General Proficiency—Wool Technology, Years 2 and 3.
	Parkes Wool Promotion Committee	A shield held in the School of Wool Technology on which the successful student's name is engraved each year.	Wool Technology, Year 3.

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	Robert Kenneth Murphy, D.Sc. 1957
Frank Symonds Bradhurst, D.Sc. 1955	Lieut.-General Sir John Northcott, K.C.M.G., K.C.V.O., C.B., D.Sc. 1956
John Joseph Cahill, D.Sc. 1955§	The Rt. Hon. The Viscount Nuffield, O.B.E., D.Sc. 1952§
William Edward Clegg, D.Sc. 1955§	Marcus Lawrence Elwin Oliphant, D.Sc. 1952
Arthur Denning, D.Sc. 1957	Sir Earle Grafton Page, G.C.M.G., C.H., D.Sc. 1959§
Robert James Heffron, D.Sc. 1955	Cobden Parkes, C.B.E., D.Sc. 1958
Norman Edward Jones, D.Sc. 1955	Field-Marshal Sir William Joseph Slim, K.G., G.C.B., G.C.M.G., G.C.V.O., G.B.E., D.S.O., M.C., K.St.J., D.Sc. 1959
William George Kett, D.Sc. 1957§	William Francis Sheahan, D.Sc. 1960
James Kenneth MacDougall, D.Sc. 1955§	Sir Colin York Syme, Kt., D.Sc. 1960
Francis Mackenzie Mathews, D.Sc. 1962	Sir Robert Joseph Webster, C.M.G., C.B.E., M.C., D.Sc. 1962
Sir Leslie Harold Martin, Kt., C.B.E., D.Sc. 1963	Lieut.-General Sir Eric Winslow Woodward, K.C.M.G., C.B., C.B.E., D.S.O., D.Sc. 1958
Sir Maurice Alan Edgar Mawby, D.Sc. 1955	
Sir Robert Gordon Menzies, K.T., C.H., D.Sc., 1957	

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

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
 Brettie, 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
 Cambey, Leslie Alan, 1960
 Carmichael, Alexander John, 1959
 Celitans, Gerard John, 1964
 Chorlton, Stanley Harold, 1965
 Clampett, John Bremner, 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
 Csanady, Gabriel Tibor, 1958
 Davies, Evan Edwin, 1965
 Davis, Brian Keith, 1962
 Dintenfass, Leopold, 1962
 Draper, Laurence Moreton, 1965
 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
 Giutronich, 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
 Judell, 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
 Magnusson, Eric Alfred, 1957
 Maguire, Mary Helen, 1956

§ Deceased

DOCTORS OF PHILOSOPHY—continued

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

MASTERS OF ARCHITECTURE

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

MASTERS OF ARTS

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

* Honours Class I. Awarded under original regulations. Under current regulations the degree is not graded.

MASTER OF BUILDING

Cooper, Arthur Ashley, 1964

MASTERS OF BUSINESS ADMINISTRATION

Goth, John, 1965

Spry-Bailey, Philip, 1965

MASTERS OF COMMERCE

Fisher, Ross Graham, 1963

Muchtar, Sofjan, 1963

Lay, U Bo, 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
 Choda, 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
 Howell, David Trewhella, 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, Kevin 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, Dabbala 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
 Throsby, Peter Wentworth, 1965
 Tinh, Tran Kiem, 1963
 Toomey, John Joseph, 1961
 Turner, Harold James, 1961
 Upfold, Robert William, 1961

MASTERS OF ENGINEERING—continued

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

MASTERS OF HOSPITAL ADMINISTRATION

- Crowley, Paul Bertram, 1965

MASTERS OF SCIENCE

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

MASTERS OF SCIENCE—*continued*

- Melouney, Harold Francis, 1954
 Miklouho-Maclay, Robertson Wentworth de, 1956
 Minty, Edward James, 1961
 Mirza, Meftahul Ahmed, 1955
 Moorehead, David Ronald, 1964
 Muir, Andrew, 1963
 Murdoch, 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 Ie, 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
 Wecksler, 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

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
 Fordyce, 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
 Kabaila, 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

MASTERS OF TECHNOLOGY—*continued*

- Marshall, Ronald James, 1964
 Matcffy, 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 Opere-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, 1963
 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
 Toppler, 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, Thilakarathne, 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**
 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**

* Honours Class I ** Honours Class II

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
 Dorrrough, 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 I

** Honours Class II

† University Medal

BACHELORS OF ARCHITECTURE—continued

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

BACHELORS OF ARTS

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

* Honours Class I

** Honours Class II

*** Honours Class III

† University Medal

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
 Connors, 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
 Cummings, Lois, 1964
 Currey, Aphra Nell, 1961
 Cuthbert, Alexander Walker, 1960
 D'Abrera, Bernard Laurance, 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

* Honours Class I

** Honours Class II

*** Honours Class III

† University Medal

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
 Ironside, 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, Grahame 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
 Maddocks, Charles David Alexander, 1964**
 Manning, Diana Kathleen, 1964
 Manser, Beverley Anne, 1962

* Honours Class I

** Honours Class II

† University Medal

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
 Menzies, John Andrew, 1965
 Milgate, Shirley Ann, 1964
 Milner, Jessica Ruth, 1965**
 Mingay, John Warren, 1964
 Mitchell, James Thomas, 1963
 Mobbs, Sandra Rose, 1965
 Monkley, 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**
- Norris, James Winston, 1965
 O'Brien, 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
 Pettigrew, 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, Tralice Young, 1965
 Rabbitt, Mary Elizabeth, 1964
 Rabbitt, Michael John, 1960
 Radford, Barbara, 1963
 Rapp, Darcy Leon, 1963
 Rappit, 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

* Honours Class I ** Honours Class II

† University Medal

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
 Smee, 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
 Staouroulakis, 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

BACHELORS OF ARTS—continued

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

BACHELORS OF BUILDING

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

BACHELORS OF COMMERCE

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

* Honours Class I ** Honours Class II

BACHELORS OF COMMERCE—continued

- Birkhead, Robert John, 1965
 Birrell, Frank Ray, 1964
 Birrell, Michael Thomas, 1965§
 Bishop, Terence Edwin, 1963
 Blackadder, Edwin John, 1964
 Blackwell, Neil Edwin, 1962
 Blaiklock, Richard Scott, 1963
 Bland, Bruce William, 1965
 Blizzard, John Laurence, 1962
 Bock, Kenneth William, 1962
 Booth, Stephen John Felix, 1965
 Bouckley, George Harold, 1965
 Boulton, Harris James, 1964
 Bowd, Geoffrey Winston, 1964
 Bowen, Harvey Clifford, 1964
 Bower, Peter Ronald, 1961
 Bowman, Richard Arthur, 1964
 Bowrey, Kevin Stanley, 1962
 Boyce, John Martin, 1963
 Boyle, Kenneth Alfred, 1965**
 Breden, Peter John, 1964
 Brigg, John Sidney, 1961
 Brown, Bryan Arthur, 1964
 Brown, Leigh Anthony, 1965
 Brown, Peter Michael, 1964
 Brown, Philip Ronald, 1963*†
 Bryan, John Richard, 1965
 Buchanan, David McKenzie, 1962**
 Buddee, Donald, 1965
 Burke, Edward John, 1962
 Burke, Peter, 1964
 Burns, Robert Bruce, 1963
 Butler, Maurice, 1965
 Cains, Kevin James, 1965
 Campbell, Diane Susan, 1965
 Campbell, John Gilchrist, 1965
 Campbell, John Keith, 1965
 Carman, Donald Forrest, 1964
 Carter, Richard, 1965
 Cassimatis, Andrew George, 1964
 Cayzer, Cynthia Mary, 1964
 Chan, Heng Seng, 1961
 Chandler, Bevan James, 1965
 Charlton, Keith Paul, 1964
 Chew, Chek Chang, 1962
 Chia, Eric Victor, 1965
 Chin, Louis Teck-Siong, 1965
 Chin, Voon Leong Henry, 1964
 Ch'ng, Swee Joo, 1964
 Choo, Kok Tong, 1965
 Chown, Alan Anthony, 1964
 Church, John Archibald, 1965*
 Clare, Graham John, 1962
 Clark, Robert, 1961
 Clarke, Dimity Anne, 1964
 Clarkson, Anthony Marshall, 1962
 Cleland, Robert Graham, 1964
 Clemens, Kenneth John, 1961
 Clemens, Raymond Stewart, 1965
 Coddington, Ian Hugh, 1964
 Conlan, Peter James, 1962
 Connolly, Vincent Francis, 1964
 Conrick, Edward Thomas, 1964
 Conrick, Michael Claude, 1964
 Cook, Digby Hamilton, 1965
 Corbett, Roger Campbell, 1965
 Cordukes, Peter Anthony, 1963
 Cottrill, Kevin Eric, 1965
 Couper, Anthony Bruce, 1965
 Coutts, Richard Donald, 1965
 Crawford, John Cowan, 1962
 Creagh, Philip Michael, 1965
 Creelman, John Edgar, 1964
 Cromer, Ralph Peter, 1961
 Crompton, Barry Douglas, 1965
 Cronin, Peter John, 1964
 Cross, Peter Frederick, 1964
 Curry, Gloria, 1964
 David, John Charles William, 1964
 Davidson, Douglas Ritchie, 1964
 Davies, John Justin Hamilton, 1964
 Day, Daniel John, 1962
 Dean, John Reginald, 1962
 Dein, Terence Kembal, 1964
 de Kantzow, Serge, 1965
 De Mellow, Ian Tudor, 1962
 Desmarchelier, John Anthony, 1963
 De Szoeki, Attila Steven, 1964**
 Devrell, William George, 1963
 Diamond, Adrian David, 1965
 Dickinson, Neal Joseph, 1964*†
 Doig, Michael William, 1965
 Donaghey, Dennis Ross, 1963
 Donnolley, Terence James, 1961
 Douglas, Nicholas, 1965
 Dowsett, Francis John, 1962

* Honours Class I ** Honours Class II

† University Medal

§ Deceased

BACHELORS OF COMMERCE—continued

Doyle, Kevin Peter, 1964
 Doyle, William Justin, 1965
 Duncan, David Ian, 1962**
 Duncan, Ian George, 1963
 Dunn, Patricia Isabelle, 1964
 Dwyer, William Charles, 1965
 Easson, John Bowie, 1962
 Eck, John Joseph, 1964
 Edwards, Colin Adrian, 1965
 Edwards, John David, 1965
 Egan, Paul Francis, 1964
 Elliott, Barry John, 1962**
 Ethell, Graham Douglas William,
 1965
 Fairbairn, Raymond Walter, 1964
 Faraday, Ronald Douglas, 1961
 Farrell, Barry John, 1960
 Faulkner, Ian Douglas, 1964
 Fayle, Richard Disney, 1965
 Field, Peter Raymond, 1964
 Fink, Christopher, 1964
 Finn, Peter Robert, 1965
 Fisher, Ross Graham, 1962*
 Fitzgibbons, Athol John, 1962*
 Flack, Leslie Herbert, 1961
 Flanagan, Donald David, 1965***
 Flick, Peter Andrew, 1965
 Foote, Arthur James, 1961
 Forgie, Allan Lee, 1962
 Foster, Gordon Graham, 1962***
 Francis, John Cyril, 1963
 Franklin, Allan, 1963
 Freeman, Allan Beresford, 1965
 Freeman, Michael John, 1964
 Freestone, Colin Stanley, 1965
 Gallagher, Edward Anthony, 1963
 Gellel, Richard John Lawrence, 1964
 Gerrand, James Graham, 1965
 Gett, Henry Ernest, 1961
 Gibson, Kenneth John, 1964**
 Gibson, William Joseph Patrick, 1964
 Gill, Peter Scott, 1965
 Gillies, Stuart Alexander, 1964
 Godden, Randal William, 1962
 Gordon, James Galloway Patrick,
 1964
 Gorham, Peter Neil, 1962
 Gosling, Peter Frederick, 1963

Goth, John, 1962**
 Grace, Michael Edward, 1964
 Grahame, Frederick William, 1962
 Gray, David Hamilton, 1961
 Green, Richard John, 1963
 Griffin, Donald William, 1961**
 Griffin, Richard Marcus, 1961
 Griffiths, Richard Francis, 1964
 Grima, Edwin Michael, 1965
 Grossman, Elias Ilya, 1962
 Gullick, Cecil, 1961
 Hall, John Thomas, 1962
 Hall, Michael Jack, 1964
 Hardie, Terence Martin, 1962
 Hardingham, Glynn Bowen, 1965
 Harricks, Timothy James, 1965
 Harrison, Mervyn Eric, 1963
 Hartenstein, Ronald Bruce, 1964
 Hauke, Herbert Herman, 1963
 Haylan, Kenneth William, 1964**
 Heiler, Robert Thomas, 1961
 High, Michael John, 1961
 Hill, Bryan Thomas, 1965
 Hill, Graham George, 1964
 Hill, John David, 1963
 Hill, Robert Hamilton, 1962
 Hinkley, Francis Raymond, 1964
 Hird, Spencer Colin, 1963
 Hirst, Douglas Edward, 1964
 Hirst, John Kenrick, 1964
 Hodgins, Wayne Lawrence, 1964
 Hogan, Peter John, 1965
 Hole, Keith Reynolds, 1964
 Holloway, Lloyd Moore, 1964
 Holm, Denis James, 1961
 Holmes, Howard William, 1965
 Houseman, Michael Ralph, 1965
 Howatson, Robert John, 1964
 Huckerby, John William, 1965
 Hughes, Kenneth John, 1962
 Hunt, Alan John, 1962
 Inkratas, Vytautas, 1961
 Irwin, Bruce Munro, 1963
 James, Brian Knight, 1964
 Jennings, Neil Joseph, 1965
 Jones, Raymond George, 1962
 Joye, Ian Edward, 1962
 Juchau, Roger Hugh, 1962

* Honours Class I ** Honours Class II

*** Honours Class III

BACHELORS OF COMMERCE—*continued*

- Kane, Ellen Mary, 1962
 Kane, Therese Anne, 1961
 Karklins, Gederts, 1962
 Karpin, David Simon, 1964**
 Kells, Geoffrey Victor, 1964**
 Kemeny, Andrew, 1965
 Kenderes, Michal, 1964
 Keulemans, Tony, 1964**
 Khuamphorn, Pruthigrai, 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, 1965
 Koenig, Susan, 1964
 Kofler, 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 Elsworthy, 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
 Luchich, 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
 McCarthy, Timothy James, 1964
 McConville, Charles Joseph, 1962**
 McCrory, David John, 1964
 McDonald, Barry Donald, 1962
 McDonald, Donald Benjamin, 1961
 McDonald, Duncan Malcolm, 1963
 McDonald, John Roderick, 1964
 McDonell, David Alexander, 1965
 McEvoy, Kevin Thomas, 1961
 McFadzean, Samuel John, 1963

* Honours Class I ** Honours Class II

*** Honours Class III † University Medal

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
 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**
 O'Shae, Brian Patrick, 1964
 O'Toole, Frederick Stewart, 1963
 Owens, John Arthur, 1962
 Padgen, Graham, 1964
 Page, Ernest Thomas, 1962
 Parker, James Harry, 1959
 Parry, Keith Stanley, 1963
 Pass, John James, 1963
 Patasius, Vytautas Jonas, 1962
 Paterson, Ian, 1965
 Pearsall, David Leslie, 1963
 Pearson, Oliver David, 1964
 Peterkin, Leonard Sidney Raymond, 1962
 Petersen, Brian Norman, 1964
 Philips, Timothy John, 1964**
 Phillip, Tibor Janos, 1963
 Phillips, Anthony James, 1964
 Phillis, Graham Leslie, 1960
 Pickles, Geoffrey James, 1965**
 Pinkstone, Richard Claude, 1962
 Pittorino, Adrian John, 1964
 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 I ** Honours Class II

*** Honours Class III † University Medal

BACHELORS OF COMMERCE—*continued*

- Reisgys, Anskis, 1965
 Reynolds, Peter, 1964
 Rheuben, Nathan Leonard, 1964
 Richard, David John, 1965
 Roberts, Ian William, 1963
 Robertson, Alan George, 1965
 Robinson, Bruce Frederick, 1965
 Robinson, Edward Scott, 1963
 Robinson, Michael Christopher, 1964
 Robson, James Colin, 1965
 Rogers, Robert Wallace, 1960
 Ronis, Imants Jekabs, 1963
 Rose, Paul Gerald, 1961
 Rose, Stanley William, 1965
 Routley, Richard Thomas, 1964
 Rowe, Phillip Steven, 1960
 Rundle, Peter David, 1963
 Rush, James Steenson, 1964
 Russell, Alan John, 1964
 Russell, Graham John, 1965
 Ryan, Colin Francis, 1963
 Ryan, James Bernard, 1959
 Sankey, Leslie Ernest, 1964
 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
 Smoother, Leslie Clarence Athol, 1962
 Southwell-Keely, Michael, 1963
 Sprogis, Nikolajs, 1963
 Staniland, Michael Ralph, 1964
 Stanmore, 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
 Tchappat, Harold Robert, 1962
 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
 Vallender, Robert Gilbert, 1965
 Vanderlaan, Jacob, 1964
 Vass, Lawrence David, 1961
 Vaughan, Gary John, 1965
 Vavros, Zdenek, 1961
 Veldrums, Vilis Aleksandris, 1962
 Vicars, John Robert, 1962
 Vidor, Erwin Hugo, 1964
 Vincent, Elaine Margaret, 1965
 Virgo, David Gilmour, 1965
 Vu, Nhi Thuy, 1960
 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

BACHELORS OF COMMERCE—continued

- | | |
|-------------------------------------|-----------------------------------|
| Watts, Ian Russell, 1964 | Witham, Ronald James Greer, 1961 |
| Webb, Richard Brian, 1963 | Wong, Toh Ming, 1965 |
| Wee, Heng Thong, 1964 | Woodger, John David, 1965 |
| Welch, John Alan, 1964 | Woods, James Gregory, 1963 |
| Wells, Brian John, 1965 | Worner, Ian Claude, 1964 |
| Westbury, Allyson Charles, 1965 | Worrall, Iain Edward, 1965 |
| Weston, William Lewis, 1964 | Wright, Phillip Louis, 1962 |
| Whitelock, Brian Jesse, 1964 | Wright, Robert Brien, 1962 |
| Wilkinson, John Francis, 1965 | Yates, Colin Bruce, 1962 |
| Wilkinson, Ross, 1965 | Yates, Geoffrey Edmonds, 1965 |
| Williams, Geoffrey Lloyd Cook, 1963 | Yee, Chang, 1962 |
| Williams, Ian Besley, 1964 | Yee, Malim, 1965 |
| Williams, Robert Bernard, 1964 | Yeo, Yong Siang, 1965 |
| Willis, Kenneth Albert, 1963 | Yong, Robert Tze-Khiong, 1962 |
| Wilson, Barrie Norman, 1963 | Young, Judith Anne, 1962 |
| Wilson, Eric Warren, 1963 | Young, Robert Keith, 1962 |
| Wilson, Graham Frederick, 1963 | Young, Wayne Edwin Leighton, 1964 |
| Wilson, Ross Kenneth, 1963 | Zamzami, Amran, 1961 |
| Wise, David Lawrence, 1965 | |

BACHELORS OF ENGINEERING

- | | |
|-------------------------------------|------------------------------------|
| Adam, Peter John, 1963*** | Argue, John Robert, 1955 |
| Adams, William Francis, 1965 | Arman, Masly, 1960*** |
| Adcock, Eric Francis, 1959** | Armstrong, Ernest James, 1958 |
| Ahmad, Riaz, 1963 | Armstrong, Ronald John, 1962** |
| Ainsworth, John Leslie, 1960 | Arnall, Tasman Wilkins, 1961*** |
| Aiztrauts, Osvalds, 1964 | Arnold, David, 1962 |
| Algie, John Edgar, 1957 | Arnold, Ian Robert, 1964 |
| Allaburton, Robert, 1963 | Arnold, Peter Charles, 1962* |
| Allen, Arthur Francis, 1955** | Arnold, Robert George, 1959 |
| Allen, Philip Frank, 1963 | Arnold, Walter John, 1964 |
| Allomes, Graham Colin, 1965** | Ashby, John Bernard, 1965 |
| Allsopp, Lindsay Bede, 1964*** | Ashcroft, John Francis, 1962 |
| Ambler, Alan Raymond, 1961 | Ashworth, Terry John, 1961 |
| Ambrose, Charles Walter, 1957 | Aston, Peter Robert, 1962 |
| Andersen, John Charles Victor, 1964 | Atherton, Ronald George, 1963 |
| Anderson, Basil Wolfe, 1953 | Atkins, Graham Peter, 1963*** |
| Anderson, Robert George, 1965 | Atkins, Kerry, 1962 |
| Anderson, William Omrah, 1960 | Atkinson, Henry Waldon, 1958 |
| Andrews, Graham, 1961 | Atkinson, John Hubert Davies, 1962 |
| Ang, Arthur, 1957 | Audova, Henry Jaan, 1957** |
| Angel, Harold Stuart, 1961 | Avery, Philip Charles, 1959 |
| Anh, Phan Ba, 1963** | Bagust, Leslie John, 1954 |
| Arbon, Leonard Fulton, 1963 | Baillie, Graham William, 1961** |
| Archard, Colin, 1963 | Baker, Bernard William, 1953 |
| Archer, Norman John, 1962 | Baker, John Edward, 1962 |

* Honours Class I ** Honours Class II

*** Honours Class III

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**
 Barda, 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
 Benneworth, 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
 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
 Bonnitche, 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**
 Broadbent, Robert Leonard, 1961
 Broadbridge, William Henry, 1961
 Broadley, John Raymond, 1965
 Brock, Raymond Owen, 1964**
 Brodie, Hugh David, 1957
 Brook, Joseph Frank, 1958
 Brookes, John Douglas, 1953
 Brooks, James Junior, 1954**
 Brown, Alan Raymond, 1962
 Brown, Austin Warren, 1965

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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
 Budihardjo, 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
 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
 Chesnut, William Sadler, 1961**
 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
 Clark, David Andrew, 1958
 Clark, Donald William, 1961
 Clark, Ian MacDonald, 1958
 Clark, John Donald Lister, 1963
 Clarke, Albert George, 1957**
 Clarke, Alfred John, 1962

* Honours Class I ** Honours Class II

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BACHELORS OF ENGINEERING—continued

- Clarke, James Frederick, 1962
 Clarke, Michael Newman, 1956
 Clarke, Richard Henry, 1952
 Clarke, Roy Milton, 1960
 Clay, James Norman, 1965
 Clayton, Bruce James, 1956
 Cleary, Kevin Patrick, 1956**
 Cleland, Brian Geoffrey, 1960**
 Coad, Kenneth Stuart, 1962
 Coady, John Albert, 1964
 Cockerill, Peter John, 1960
 Cocking, Gordon Maxwell, 1960
 Cogar, Phillip Edmond, 1955
 Cole, Robert Edward, 1960
 Coleman, Milton Barry, 1959
 Coleman, William Alexander, 1965
 Colless, William Jennings, 1959
 Collins, Dennis Hugh, 1963
 Collins, John Lewis, 1965***
 Collins, Kevin Raymond, 1964
 Collins, Patrick Michael, 1957
 Colwell, Brian Edward, 1964
 Condon, Anthony Joseph, 1958
 Conner, John Martin, 1957**
 Connolly, Gregory Thomas, 1964
 Connolly, Peter James, 1964***
 Conrow, William Henry, 1957
 Cook, Robert John, 1965**
 Cook, Robert Owen, 1965
 Cooke, Kenneth John, 1953**
 Cooley, Donald Read, 1953
 Coombes, James William, 1962
 Cooper, Bruce William, 1961
 Cooper, William Lyster, 1962
 Copeland, William Raeburn, 1954
 Cordatos, Emmanuel Evangelo, 1963
 Corderoy, Bryce, 1959
 Corderoy, Ian, 1963**
 Cordingley, Gilbert Douglass, 1955
 Corin, Richard Arthur, 1956
 Corn, Leon, 1962
 Corr, Dennis Otto, 1964
 Cowan, Robert John, 1965
 Cowell, Neil Elwyn, 1961
 Cowper, Norman Terry, 1959
 Cox, Allan, 1952
 Cox, Geoffrey Earl, 1954
 Cox, James Ernest, 1964
 Cox, Malcolm Ashton, 1957
 Coyle, John, 1956
 Crabtree, John Patrick, 1960**
 Craig, Robert Henry, 1963
 Cram, Anthony Adrian, 1960**
 Cranny, Gerald King, 1952
 Crawford, Douglas William, 1962
 Crawford, George, 1955*†
 Crawley, Geoffrey Bruce, 1963
 Crees, David John, 1965**
 Cregan, Kenneth, 1964
 Crewes, Bruce William, 1961
 Cridland, Leslie, 1956**
 Cripps, John Gerald, 1965
 Cripps Clark, Grandison Patrick, 1963
 Crisp, Anthony John, 1964
 Croft, James Bernard, 1960**
 Croker, Brian Mackay, 1962
 Cromarty, Campbell George, 1954*
 Cross, Donald Brian, 1961
 Cross, Victor Michael, 1963
 Crouch, Aubrey Glenn, 1964
 Crow, Tom William, 1962
 Crowe, John Phelps, 1956
 Crowley, Theodore Arthur, 1958
 Cudmore, Francis James, 1962
 Cullen, Ronald, 1965
 Cumming, Grahame Hugh, 1959**
 Cumming, Ian Ross, 1961
 Cummings, Brian Arthur, 1965
 Cummins, Peter John, 1962
 Cunningham, George Clifton, 1963
 Cunningham, John Sydney, 1961**
 Cunningham, Robert Andrew, 1957
 Curtis, Thomas Cooper, 1964**
 Dadd, Michael John, 1962
 Danilas, Mohamad, 1962
 Darby, William Edward, 1954
 Davey, Clyde Leslie, 1952
 Davey, Leslie Allen, 1960
 Davies, David Russell, 1964
 Davies, Mervyn John, 1965*
 Davies, Peter, 1965**
 Davies, Peter Michael, 1963
 Davies, Phillip Sydney, 1965**
 Davis, George Francis, 1965
 Davis, Kenneth John, 1964*
 Davis, Leslie James, 1955

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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
 Durkin, Thomas, 1953
 Dwyer, Robert Stewart, 1962
 Eagles, Mervyn Royce, 1956
 Ebner, John George, 1965
 Eddie, Warren Alexander, 1965
 Edmunds, Robert Lee, 1958
 Edwards, Maxwell Hugh, 1961
 Eggins, Clarence Wesley, 1963
 Egloff, Roger Louis, 1960
 Ekert, Leslie Francis, 1963
 Elber, Lutz, 1962**
 Elber, Wolf, 1964**
 Eldridge, Thomas Maxwell, 1958**
 Elias, Hans Gerhard, 1963
 Ellem, Neville James, 1956
 Eller, Samuel George, 1965
 Elliott, Colin James, 1965
 Elliott, David John, 1955
 Ellis, Michael George, 1959
 Ellison, Brian Kean, 1961
 Ellison, David Frederick John, 1958
 Emerson, Donald Westland, 1962*
 Emslie, Norman Arthur, 1952**
 Engel, John Griffiths, 1954
 English, John Michael, 1964**
 Enright, Roger John, 1959**
 Erdmanis, Uldis Viesturs, 1965
 Erwin, Russell Francis, 1963
 Esquilant, Leslie Edward, 1962*†
 Evans, David Alexander, 1963**
 Evans, David Armstrong, 1958
 Evans, Francis Charles, 1959
 Evans, Malcolm Wesley, 1954**
 Evans, Peter John Anthony, 1961**
 Exton, Peter Derek, 1963**
 Faggotter, Neville Herbert Charles, 1963
 Fan, Alex, 1961**
 Fardell, Denis Bede, 1961
 Farkas, Tibor Imre, 1964
 Farmer, Leonard Edward, 1965**
 Farr, Kenneth Patrick, 1962
 Farrell, Richard Goold, 1959
 Faulds, Robert Andrew, 1964
 Faulkes, Kenneth Alan, 1955**
 Faulks, John Erskine, 1955
 Fehlberg, Gerald, 1965
 Fekete, Paul Harry, 1952

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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
 Gardner, Francis John, 1952**
 Garlick, Peter Maxwell, 1963
 Garrity, Paul Everard, 1955
 Gately, Kevin Gerald, 1958**
 Gatt, Francis Cecil, 1965
 Gedgovd, George Ivar, 1963**
 Gero, John Steven, 1965*
 Gibbs, Edward Francis, 1962
 Gill, John William, 1965
 Gillard, John Douglas, 1962
 Gillies, Bruce Peter, 1965
 Godfrey, Noel Raymond, 1961***
 Goh, Chen Peng, 1963
 Goh, George Thean-Chye, 1960
 Goh, Paul Teck Seong, 1960§
 Goh, Xavier Khen Wah, 1958
 Goldhammer, Arthur Brian, 1956
 Goldstein, Peter John Paul, 1964**
 Golvers, Gunis, 1963
 Gomez, Alexius Joseph, 1962
 Goodhew, Ronald William, 1964**
 Gorbunow, Mirosław George, 1958
 Gordon, John Charles Hunter Patterson, 1963**
 Gore, Gerard, 1955**
 Gore, Gordon Bruce, 1961
 Gorrell, John, 1965
 Gotthard, Detre, 1965
 Gould, John Ashton, 1965
 Gow, Graeme Douglas, 1963
 Graham, David Griffith, 1958**
 Grainger, Alexander Warwick, 1961*
 Granger, Roy Stuart, 1964
 Grauds, Janis, 1962
 Graves, Stanley Noel, 1956
 Gray, Brian Richard, 1961
 Gray, Denis Stewart, 1963
 Gray, Donald Keith, 1959**
 Gray, Harold William, 1964
 Gray, Kevin James, 1964
 Green, Ralph Anthony, 1962
 Greenham, Geoffrey Eric Campbell, 1961*
 Greentree, Malcolm Warren, 1964
 Greiss, Bernard, 1959
 Greste, Ojars Indulis, 1963*
 Grieve, Bruce Leslie, 1956, 1962

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BACHELORS OF ENGINEERING—*continued*

- Griffin, Richard Leslie, 1964
 Griffith, Kenneth John, 1954
 Griffiths, Norman Eric Benjamin, 1960
 Griffiths, Robin Peter Clive Bransom, 1961**
 Grigg, Brian Terrence, 1961
 Grimshaw, William Lindsay, 1958
 Grove, Alan Maurice, 1965**
 Grzina, Anton, 1960**
 Gwilliam, Graeme Burslem, 1963
 Hackett, John, 1964
 Hahn, Eric Joseph, 1963*
 Halawa, Sjamsuddin, 1960
 Halewijn, Ernest Henri Emile, 1958
 Hall, Alan James, 1963***
 Hamilton, Humbert Edward, 1956
 Hamilton, Lloyd Hinton, 1961
 Hampton, Donald Harris, 1962**
 Hampton, John Douglas, 1956
 Hands, Errol Bruce, 1955*
 Hanlon, David Sedgley, 1963
 Hansen, John Alan, 1959
 Harant, Heinz Richard, 1955**
 Hardie, David Leslie, 1965
 Hardie, John Barry, 1962
 Harris, Stuart McIntosh, 1953
 Harrison, Colyn, 1954
 Harrison, Geoffrey Charles, 1964
 Hashim, Mohammed, 1965**
 Hatfield, Frank Alan, 1963**
 Hatfield, William, 1963
 Hatten, Kenneth John, 1964
 Havercroft, David Ralph, 1964
 Hay, Desmond Joseph, 1955
 Hayes, Wayne Joseph, 1965***
 Haynes, John Frederick, 1960
 Hayward, Robert Douglas James, 1965
 Hazell, John Richmond, 1960§
 Hazell, William Richmond, 1958
 Headford, Peter William, 1959
 Healey, Roger Francis, 1962
 Healy, Geoffrey, 1954**
 Heap, Donald Robert, 1962
 Hearnden, Norman Bennett, 1960
 Heaton, Alexander Cecil, 1964
 Heaton, Brian Stuart, 1962**
 Hendry, Albert Alexander, 1960*
 Hendy, Evan Francis, 1960
 Henery, Robert John, 1962
 Hennessey, Michael Francis, 1962
 Henry, Alan William, 1956
 Hewson, Alan Richard, 1965
 Higgins, John Maitland, 1957
 Hill, Leslie Charles, 1954**
 Hill, Roger Donald Charles, 1963
 Hiller, John Barry, 1961*
 Hillier, Kenneth Richard, 1958
 Hillyer, William Richard, 1963
 Hind, David Edward, 1960
 Hind, Edward Colvyn, 1957**
 Hintze, Michael Michailovich, 1963
 Hirschl, Paul Heinz, 1955**
 Hislop, Alan Keith, 1953**
 Hitchcock, Robert Leith, 1957
 Hitz, Konrad Leonhard, 1961*
 Ho, Ben Hugh, 1962
 Ho, Chun Kiong, 1965
 Ho, Franklin Kwok Kwan, 1962
 Hockley, Robert Edward, 1962
 Hodge, Robert Leslie Clive, 1963
 Hogg, Ross William, 1954
 Holland, Kenneth Benjamin, 1960
 Hollis, John Winston, 1962
 Holmes, Benjamin Roland Glennie, 1965
 Holmes, Richard Peter Glennie, 1965
 Holmes, Wilfred George, 1963*†
 Holmes, William Harry Glennie, 1958
 Holt, Reginald John, 1963
 Home, Robert Lindsay, 1955**
 Hong, Geok Whatt John, 1961
 Hood, Russell, 1957
 Hooper, William George, 1960**
 Hoore, John Alexander, 1959
 Hope, Graham Clarke, 1963
 Hope, Ian Gordon, 1962
 Hopkins, Edward Goodman, 1952*§
 Hopkins, George Wallace, 1963*
 Horton, Kenneth Douglas, 1965
 Horwood, William Stewart, 1961
 Hough, Michael John, 1965
 Housley, Trevor John, 1963

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BACHELORS OF ENGINEERING—continued

- Howard, Kevin Charles, 1958
 Howells, Edward Morris, 1959, 1961
 Howes, Phillip John, 1965**
 Hoy, Mervyn Douglas, 1957
 Hughes, Phillip William, 1965
 Hui, Wai Tin Albert, 1964**
 Hulscher, Frans Rudolf, 1957
 Humphrey, James Kevin, 1961
 Humphreys, John Joseph, 1962
 Humphry, Ronald Edward, 1964
 Hurst, David Francis, 1965
 Hutton, James Richard, 1965
 Hyde, Robert James, 1962
 Hyslop, John Stewart, 1960
 Iles, John Francis, 1963
 Inglis, Barry David, 1962**
 Ip, Yun Wing, 1963
 Ireland, Vernon, 1965***
 Irvine, Kenneth Robert, 1956
 Irving, Alastair John, 1957
 Irving, Clive Robert, 1960**
 Irving, Leonard Sylvester, 1964
 Ivashkoff, Igor Boris, 1956
 Ivers, Geoffrey Ainsworth, 1958**
 Jackson, Ivan Victor, 1961
 Jackson, Kenneth Arnold, 1957
 Jacobs, James Arthur, 1952
 Jaggar, Frank Edwin, 1957
 Jagers, Charles David, 1965
 Jakubowsky, George, 1965
 James, Charles Alexander, 1962**
 James, John Francis, 1964
 James, Walter David, 1963
 Jameson, Cyril Kenneth, 1961
 Jamieson, Bruce Nelson, 1963
 Jamieson, William Hunter, 1963
 Jan, Kevin, 1956
 Jarvis, Robert Charles, 1963
 Jeans, Paul Edward, 1965
 Jeans, Tom Edney, 1961
 Jeffery, Douglas Braham, 1962
 Jeffery, Rodney Philip, 1964
 Jenkins, Brian Selby, 1965*†
 Jenkins, Bruce Edward, 1954
 Jessop, Peter Edwin, 1958
 Jiew, Frederick Boon Thai, 1965***
 Johnson, James Harcourt, 1961
 Johnson, John Barry, 1964**
 Johnson, Malcolm Wallace, 1962**
 Johnson, Richard Colin, 1957**
 Johnson, Robert Michael Cedric, 1959
 Johnston, Donald William, 1965
 Johnston, Gordon Ronald, 1958
 Johnston, Phillip Reginald, 1964
 Johnston, Stephen Frederick, 1961**
 Johnstone, Clifford Owen, 1956
 Jones, Ian Stanley Ferguson, 1964**
 Jones, James Robert, 1958
 Jones, John Hunter, 1958**
 Jones, Neville David, 1960
 Jones, Peter George, 1958
 Jordan, Kerry John, 1964
 Joseph, Ronald Stanley, 1956
 Jubelin, Keith Russell, 1953**
 Jumikis, Tautmilis Tom, 1955
 Kaberry, Max Arthur, 1962
 Kadak, Ado, 1957
 Kaldor, Andrew Ferdinand, 1964
 Kaldor, Thomas, 1965
 Kalotas, Thomas Michael, 1962*
 Kalotay, Egon, 1963
 Kandiah, Gnananantham, 1964
 Kavanagh, Kevin Bernard, 1965**
 Kay, James Neil, 1957
 Kearney, Richard Patrick Adderley, 1965
 Kennedy, Alexander John, 1965
 Kennedy, Anthony Joseph, 1960
 Kennedy, Graeme Alexander, 1958**
 Kefford, Michael Owen, 1954**
 Keith, Ronald James, 1952**
 Kelly, John Michael, 1963
 Kelvin, Norbert Victor Peter, 1964*
 Kerr, James Allen, 1961
 Kershaw, Kenneth William, 1964
 Khing, Wong Shun, 1962
 Khuri, Nicolas Melhem, 1961
 Kidd, Peter Scott, 1963
 Kim, Ngo Duc, 1964
 King, Frederick Joseph, 1957
 King, John George, 1961
 Kingsmill, Richard Anthony, 1964
 Kinsky, Roger Andrew, 1961
 Kirkpatrick, Tim, 1960
 Kirkwood, Lance Cooper, 1961

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BACHELORS OF ENGINEERING—*continued*

- Knight, Hugh Bentley, 1963
 Knight, John Kendall, 1958
 Knuckey, Mervyn Robert, 1959
 Koh, Jimmy, 1964
 Kohler, John Denis, 1962
 Kolff, Simon Cornelis van der, 1956*†
 Kolsky, Barry William, 1961
 Kolsky, Vaclav George, 1958**
 Koskins, Vidvuds, 1959
 Kradzins, Juris Eizens, 1961
 Krumins, Uldis, 1965
 Kugaevsky, Alexis, 1961
 Kuras, Norbert, 1962
 Kuru, Ago, 1956**
 Kuter, André Marie, 1959
 Kuter, Daniel Marie, 1957
 Kwok, Daniel Pui-Sang, 1963
 Lam, Teng Chee, 1964
 Lamb, Cedric St. John, 1956*
 Lamb, Rodney Donald, 1956
 Lancaster, Barry John, 1959**
 Landon-Smith, Ian Hamilton, 1961
 Lane, Robert James, 1963
 Lang, Raymond James, 1964
 Langfield, Gilbert Neil, 1965**
 Langley, Phillip Archdall, 1962
 Laron, George Gavriel, 1963
 Laserson, Harold Chaim, 1964
 Lau, Shing Ming Benjamin, 1965
 Lau, William Tsun Fong, 1959**
 Lau, Wing-Pak, 1963
 Lauder, John Edwin, 1963**
 Laurenson, Eric Marwick, 1953*†
 Law, Yiu Ming, 1965
 Layton, Christopher John, 1963***
 Leach, Gregory Joseph, 1963
 Leahy, Michael Francis, 1959
 Leary, Brian Gilbert, 1958*
 Leask, Austin Graeme, 1963
 Lee, Brian Chang Leng, 1964
 Lee, Choong Woh, 1960
 Lee, Geok Tong, 1963
 Lee, Siaw Phin, 1956
 Lee, Stanley George, 1963
 Lee, Thomas Woon, 1956
 Lee, Yow Ching, 1965
 Leeser, Robert Claus, 1956
 Leesment, Henn Harry, 1963
 Lehmann, John Eric, 1965
 Leng, William Nelson, 1956**
 Lenham, George, 1961
 Lenn, Philip John, 1962
 Lennon, Ross Mathew, 1956*
 Leonard, Vincent Vadim, 1964
 Leong, Harry Jung-Wing, 1960
 Leong, Khee Seong, 1964
 Lesleighter, Eric James, 1959
 Lesnie, Warren Richard, 1963
 Lester, Gregory Francis, 1965**
 Leverett, Ronald Arthur, 1954
 Li, Ka Keung, 1964**
 Li, Kwong Yiu George, 1965*
 Li, Steven Sing Yu, 1963
 Liengjayetz, Suthichai, 1961
 Liew, Herman Kim Seng, 1963
 Liggins, Terence Bernal, 1959**
 Lim, Thiam Lok, 1959
 Lindus, John Christopher, 1965***
 Liney, George Herbert, 1954**
 Ling, Thomas James, 1962
 Linker, Maurice, 1960
 Liston, Clive Shannon, 1954
 Liu, Yin Suen, 1965
 Lloyd, John Milton, 1961
 Lloyd, Leslie William, 1961
 Lockhart, Frank Graham, 1965
 Logan, Ronald Joseph, 1962
 Logothetis, Demetrios, 1963
 Loke, Wan Foo, 1960
 Long, Frederick Charles, 1955
 Longfoot, Bruce Raymond, 1965
 Longfoot, John Elms, 1959**
 Loo, Sonny Gabriel, 1962**
 Louwerson, Pieter Van, 1953
 Love, Milton Patrick, 1962
 Lovelock, Brian John, 1963
 Lovett, Errol Paul, 1965***
 Lowrey, Maxwell John, 1962**
 Lui, Sze Ho, 1963
 Luks, Robert William, 1963
 Lumsden, John, 1962*
 Lunsman, Hinrich Nicolaus Fritz,
 1961
 Lyell, Andrew, 1965**
 MacDessi, Peter Joseph, 1965
 MacDonald, Ian Maxwell, 1965

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BACHELORS OF ENGINEERING—continued

- MacDougall, Duncan Norman, 1957**
 MacKenzie, Colin John, 1960
 Mackie, David Andrew Forbes, 1965
 Mackney, Desmond Craig, 1965
 MacLeod, Iain Donald Graham, 1965*†
 MacLeod, Ian Forbes, 1965**
 Macnab, David Keith, 1958**
 MacPherson, Ian Peter, 1958
 MacRae, Kenneth John, 1965
 Maggs, David Frederick, 1961**
 Maggs, Ian Harold, 1957**
 Magnussen, Walter Harold, 1956**
 Magnusson, David John, 1957**
 Mah, Khing Kong, 1962
 Maino, Raymond John, 1958
 Makki, Zoelkarnain, 1962
 Malamo, Claude Remus, 1962
 Malins, James Arthur, 1957
 Maltabarov, George, 1960
 Mandla, Reinhold, 1963
 Mangunwidjojo, Augustinus Purnama, 1962
 Mann, Edward Alan, 1956
 Manning, Geoffrey Edmund, 1965
 Manton-Hall, Arthur William, 1953*
 Marcheiff, John, 1964
 Marr, Donald William, 1958
 Marshall, Ronald James, 1960
 Martin, John Frank, 1965
 Martin, Warren Harold, 1963**
 Mason, Phillip John, 1963
 Matas, Evald, 1961
 Mather, Terry Lawrence, 1965***
 Mathew, Alexander Michael, 1958
 Mathews, Michael Richard, 1955
 Mattes, John Edmond, 1962
 Matthews, Leonard Excel, 1953
 Matthews, Warren Arthur, 1959**
 May, Robert George, 1963
 Mayhew, Roger Alban, 1957
 McAdam, David Victor, 1961**
 McAdoo, Gregory Nelson, 1963
 McBean, Donald John, 1955
 McBride, Brian Francis, 1964**
 McCallum, Donald Sloman, 1955
 McCarthy, Derek Eugene, 1964
 McCarthy, Malcolm John, 1965**
 McCarthy, Ronald George, 1956*
 McCormack, Allan Keith, 1963**
 McCowan, Malcolm, 1964
 McCoy, Albert Edward, 1953**
 McCredie, Graeme Bruce Boyd, 1965
 McDermott, Arthur Brian, 1958**
 McDermott, Raymond John, 1959
 McDonald, Bruce Alan, 1963
 McDonald, Errol Christopher, 1958*
 McDonald, Graham John, 1964
 McDonald, Leonard Angus, 1959
 McEwen, Robert Cleland, 1958**
 McGrath, Alan James, 1963**
 McGregor, Robert Keith, 1960
 McGuinness, William John, 1953
 McIlwraith, James Raymond, 1965
 McInerney, Kevin John, 1964
 McKay, Robert Michael, 1965
 McKenzie, Gordon Alan, 1954**
 McKilligan, Ranald Scott, 1957
 McLean, Graham John, 1965
 McLennan, Dennis James, 1958**
 McMahan, Denis Walter, 1959
 McMahan, Robert Francis, 1963
 McNair, Keith, 1954
 McNamara, Brian Robert, 1959
 McNeall, Malcolm Richard, 1953
 McNeill, Donald John, 1953*†
 McNeill, Geoffrey William, 1952
 McNiven, Errol John, 1962
 McPaul, Page, 1959
 McPhee, David George, 1953
 McWhinney, Michael Quested, 1964
 Mears, Ian David, 1964
 Mega, George, 1954
 Melbourne, Kenneth George, 1964
 Mellor, John Harold, 1960
 Melville, David James, 1958
 Metcalfe, John Paul, 1961
 Meulman, Peter Boyce, 1952
 Meulman, Richard Boyce, 1957
 Meyrick, Kevin Charles, 1962
 Michel, Peter John, 1962
 Millington, Peter George, 1965
 Mills, Raymond Albert, 1962
 Milne, Bruce Campbell, 1957
 Milton, Barry William, 1965**

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BACHELORS OF ENGINEERING—*continued*

- Milton, Brian Edward, 1960
 Minter, Michael Mervyn, 1961
 Mitchell, Brian Arthur, 1962
 Mitchell, Robert Brien, 1961*
 Mitchell, Robert Leonard, 1962
 Mok, Kee Pan, 1961
 Moloney, James Laurence, 1958
 Monaghan, Graham John, 1963**
 Mondel, Robert Henry, 1952*
 Monk, Geoffrey, 1955
 Montano, Raymond Robert, 1962
 Montgomery, David Lloyd, 1960
 Moore, Gilbert Highfield, 1961**
 Moore, Harold Graham, 1960
 Moore, John Eric, 1955
 Moore, John Percival Henry, 1964
 Moran, Edward John, 1962
 Moreton, John Preston, 1956
 Morgan, Allan James, 1962
 Morgan, Malcolm Edwin, 1960
 Morgan, Robert James, 1955*†
 Moretti, Frank, 1961
 Morris, Howard Linton, 1962*
 Morris, Peter John, 1964*†
 Morrison, Robert Erskine, 1964
 Morrow, Darrell Elwyn, 1954**
 Motiss, David Robert, 1962
 Motson, Barrie Clifford, 1961*†
 Moyle, Peter Crossley, 1964
 Mudd, Peter Douglas, 1958**
 Mudie, Peter George, 1964
 Muir, Mitchell James, 1952**
 Mulder, Christian Joseph, 1965
 Mulheron, John James, 1962**
 Mullen, Raymond Owen, 1956
 Murch, James Bryan, 1956
 Murdoch, Kenneth Hugh, 1961**
 Murphy, Richard Peter, 1965
 Murray, Alistair Robert, 1963
 Murray, John Bloxham, 1952
 Murtagh, Kenneth John, 1965
 Myers, Roger Gordon, 1964***
 Nagy, Andrew Francis, 1957**
 Nayler, Percival George, 1959
 Neil, Anthony Edmund, 1964
 Nella, Richard John, 1962
 Nelson, Gordon Darvey, 1957
 Nestel, Thomas Alexander, 1954
 Neville, William Edgar, 1963
 Newman, Aubrey Gavin, 1958
 Newton, Donald Thomas, 1956
 Newton, Robert, 1959
 Newton, Trevor Arthur, 1954
 Ng, Chong Guan, 1959
 Ng, Chun Wing, 1962
 Ng, Suan Chung, 1961
 Ngai, James Wing-Kong, 1963
 Nguyen, Manh Tri, 1962
 Nguyen-Van, Hoi, 1962
 Nicholls, Maxwell James, 1957
 Nichols, Warwick Dixon, 1965
 Nickols, Alan Hector, 1962*†
 Nicoll, James Anthony, 1960**
 Nimmo, Robert James, 1965
 Nittim, Rein, 1956
 Noble, Bruce Kennedy, 1953
 Nolan, Richard Charles, 1956
 Noller, John William Murray, 1962
 Norburn, Paul Ben, 1964
 Norman, Bruce Richard, 1964
 Norman, Roger, 1962
 Northey, Ian Alan, 1965
 Norton, Anthony Mansfield, 1960
 Nugent, Donald Charles, 1962
 Oberg, Donald Gordon, 1957**
 O'Brien, Francis Alan, 1961
 O'Brien, Jonathan Brian, 1965**
 O'Brien, Kenneth Robert, 1952
 O'Brien, Kerry Ernest, 1962
 O'Brien, Terence Ignatius, 1959
 O'Dwyer, Joseph Aloysius, 1954**
 O'Grady, David John, 1965
 O'Grady, Peter Francis, 1960
 O'Kelly, Peter Anthony, 1962
 Olde, Maxwell James, 1960
 Oliver, Graham Robert, 1965
 Oliver, Warren James, 1963
 O'Loughlin, Emmett Michael, 1958**
 O'Neal, Terence Leslie John, 1963***
 O'Neill, Peter John, 1957**
 Ong, Boon Ling, 1959
 Ong, Tiong Lam, 1964
 Ooi, Chin Yong, 1962
 Orlovich, John, 1957
 O'Shea, John Joseph, 1962
 Owers, Noel Francis, 1958

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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
 Parker, Neville, 1959
 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
 Pidcock, John Barrie French, 1962**
 Pierce, Eric William Thomas, 1958
 Pierce, John Harold, 1958
 Pietor, Edward Joseph, 1962
 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***
- Potter, Kenneth, 1954**
 Potts, Terry Sydney, 1963**
 Pout, Denis Alan, 1965
 Powell, John Donald, 1963**
 Procter, Stephen, 1963
 Propsting, John Risby, 1961
 Proudfoot, Donald Barry, 1960
 Pryor, Denis James, 1963***
 Pryor, Murray Howard, 1965
 Punnett, Trevor Charles, 1965
 Purkiss, Alva Edwin, 1961
 Purnell, John Arthur, 1957
 Quah, Choon Huat, 1957
 Queck, Peck Cheng, 1961
 Quek, Seng Hin, 1957
 Quinlan, Kevin Joseph, 1952
 Rabbidge, Bruce Francis, 1953*
 Radford, Christopher Denys, 1964**
 Rae, David Arthur, 1961
 Raffaele, Joseph, 1959*
 Ragg, Barrie Charles, 1963*
 Rainbird, Frederick John, 1962**
 Ramachandran, Thamotheram, 1961
 Ramsay, Mervyn Ross, 1955**
 Ranaweera, Piyasiri Senaratne, 1955
 Randoja, Michael, 1958
 Randrup, Maurice Francis, 1964**
 Ray, John William, 1955
 Ray, Keith Morris, 1957*†
 Rayner, Peter Chorley, 1957**
 Rea, Brian Laurence, 1955
 Read, Peter Lawrence, 1965
 Rebikovs, Sergei, 1963
 Redman, Stephen John, 1960**
 Reece, Lance Edward, 1965**
 Reichardt, Alfred Corfield, 1959*
 Reichel, Alan James, 1964
 Reid, James Milton, 1961**
 Reid, Robert, 1963
 Reidy, Noel Aloysius, 1955
 Reimer, John Walter, 1961
 Reimer, Peter Stewart, 1961
 Reizes, John Arthur, 1960**
 Resevsky, Charles Girt, 1962
 Rheinberger, Brian Philip, 1955
 Rheinberger, Michael Anthony, 1962
 Richards, Owen John, 1954

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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**
 Robertson, Alan Milton, 1961
 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, Svjatoslav, 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***
 Shields, Alan Edward, 1959
 Shields, 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

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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, Jaroslaw, 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**
 Spesyvy, 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*
 Suski, John, 1959
 Suski, 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, Biu Kay, 1962§
 Tampi, Gopala Pillai Krishnan, 1965
 Tan, Jin Kah, 1962
 Tan, Jin Lee, 1960
 Tan, Kiah Tong, 1958
 Tan, Kok Ngarn, 1963

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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
 Tjitrosidojo, Sumartono, 1961
 Tognetti, Keith Phillip, 1954
 Tong, Kok Soon, 1961
 Toppler, Jenö Frank, 1958
 Toswill, Brian Joseph, 1959
 Towson, Peter Granville, 1961
 Travis, Ian Mark, 1963
 Trembath, Barry Paul, 1965***
 Trestail, Walter Raymond Glen, 1965
 Trueman, Norman Anthony, 1960***
 Trumpmanis, John Peter, 1962
 Truupold, Enn, 1964
 Tsang, Gee, 1963
 Tsang, Yuk Lun, 1965
 Turner, Alan Leslie, 1961**
 Tyacke, Philip Norman, 1965
 Uebel, Royde Murray, 1955**
 Upfold, Robert William, 1955**
 Vaino, Erich Lembit, 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**
 Warrilow, Peter, 1961

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BACHELORS OF ENGINEERING—*continued*

- 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 Ansdell, 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**
 Whitting, 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**
 Willing, Keith Robert, 1954
 Willson, Graham Frederick, 1964
 Wilmshurst, Peter, 1965
 Wilson, Denis Patrick, 1961*†
 Wilson, George, 1964**
 Wilson, Morris James, 1959
 Wilson, Oliver Bruce, 1960**
 Wilson, Robert James, 1963*
 Winton, John Edward, 1958*
 Wong, Chung Cheung, 1964
 Wong, Colin Wai-Lai, 1964
 Wong, Keng Chow, 1962
 Wong, Kwan-Yui, 1960*
 Wong, Lock Seng, 1957
 Wong, Paul Kai-Sing, 1963
 Wong, Wing Him, 1963
 Wonson, Kenneth Douglas, 1964
 Wood, Barry Clive, 1964
 Wood, George Ernest, 1963**
 Wood, Ian Frederick, 1964**
 Wood, Raymond George, 1960
 Woodbury, Stephen Patrick, 1962**
 Woodman, Douglas Robert, 1958
 Woods, William Michael, 1962
 Wooldridge, John Brian, 1957
 Wootton, Frederick Robert, 1953*
 Worrall, Ross Richard, 1961
 Wright, Leonard, 1952
 Wu, Howard, 1961
 Wulff, Eberhard, 1961
 Wylie, Kenneth, 1961
 Yandell, William Otho, 1962
 Yap, Yoke Kin, 1965
 Yardley, Peter, 1963
 Yastreboff, Michael Michaelovich, 1965*
 Yau, Chao Pong, 1965
 Yee, John Juneyih, 1965**
 Yee, Wellington, 1963
 Yeo, Anthony Chih Sheng, 1962
 Yeung, Dennis Nai-Choy, 1963
 Young, Edmund, 1953
 Young, Leslie, 1963*
 Young, Robert Forbes, 1958
 Yu, Kwok-Leung, 1963
 Zimin, David Gdaly Joseph, 1962
 Zissermann, Constantin Nicholas, 1964

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

BACHELORS OF SCIENCE

Abbott, Bruce, 1964***	Babister, Kenneth James, 1963
Abbott, Douglas William, 1963	Babu, Henry Ralph, 1962
Abbott, Grahame Michael, 1964*	Bagnall, Frank Thomas, 1959
Abimanju, Bambang, 1956	Bagshaw, John Ralph, 1961
Achmad, Sjamsul Arifin, 1960*	Bailey, John Desmond, 1965
Adam, Graeme Stevenson, 1962	Baker, Judith Mary, 1965
Adams, Neil Leon, 1963**	Baker, Leslie Alan, 1961**
Aggett, Jack Stanley, 1958	Baldwin, Thomas Evan, 1965
Ainsworth, Edward John, 1963***	Ballard, Maxwell John, 1964
Ainsworth, Elizabeth Ann, 1964**	Baluk, George, 1959
Ainsworth, William Murray, 1961**	Bannister, Charles Hugh, 1965
Akre, Thomas, 1960	Barber, Peter, 1963*†
Alexander, John Andrew, 1965**	Barker, David Robin, 1964
Algie, Stephen Hopetoun, 1965*†	Barker, Norman Thomas, 1956
Allan, Robert William, 1964	Barnes, Colin Ivor, 1965
Allen, David Ven, 1962***	Barnhill, Stanley Robert, 1957
Allen, John Reginald, 1962	Barnicoat, Gregory Peter, 1964
Allen, Peter Henry Printz, 1961	Barr, Jeanette Elizabeth, 1964***
Allman, Maxwell, 1960***	Barr, Kevin Richard, 1963
Allotta, Joseph Anthony, 1963	Barratt, Kenneth Victor, 1957
Alsop, Philip John, 1963	Barrett, John Roland, 1960
Alston, Phillip Arthur, 1960	Barrett, Paul Joseph, 1964
Anderson, John Murray, 1960	Barry, Robert John, 1963
Anderson, John Ragnar, 1952*	Barry, Walter James, 1956
Anderson, John Robert, 1952*	Basden, Kenneth Spencer, 1955
Anderson, Robert Neil, 1965	Bates, Lawrence John, 1963**
Anderson, Thomas Frederick, 1959	Bates, William Alexander, 1957
Anderson, William John, 1955	Batistich, John Royden, 1965
Andrews, Albert Henry, 1958	Batley, Graeme Edward, 1962*
Andrews, Allen Raymond, 1960	Batterham, Thomas James, 1958**
Anstee, Sydney Alfred, 1958	Batti, Frederik, 1962
Antoniadis, Theodore Dennis, 1963	Battye, Alastair Cameron, 1961
Armstrong, Geoffrey Winston, 1965	Bayfield, Raymond Francis, 1962
Armstrong, Kenneth John, 1963	Bayley, David John, 1964
Arnold, Kenneth William, 1960	Beaman, Ian Robert, 1965
Ashby, Richard Alexander, 1962*	Beard, Barry George, 1962
Astridge, Annette, 1962	Beasley, Brian Keith, 1965
Atkins, Michael Joseph, 1964	Beath, Helen Mary, 1962
Atkinson, Noel Robert, 1963	Beattie, Roger Ernest, 1955*
Avis, Edward Arthur, 1957	Beauchamp, Herbert, 1953
Aylward, Gordon Hillis, 1952**	Beehag, John Henry, 1963**

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BACHELORS OF SCIENCE—*continued*

- Belcher, Charles Brian, 1955
 Bell, Kevin Hilton, 1960*
 Bell, Raymond Douglas, 1962**
 Bell, Richard Thomas Edward, 1962
 Bell, Robert Samuel, 1959
 Bellingham, Andrew Irwin, 1952**
 Bembrick, Colin Seymour, 1965**
 Bennie, Claude Vincent, 1961
 Benson, David Linger, 1965
 Berg, Mary Irene Elizabeth, 1959
 Berglund, Cedric Ross, 1961**
 Bergs, Karina, 1964
 Berman, Graeme Walton, 1958
 Bernard, Margaret Jacklyn, 1965
 Beuzeville, Barry Yates, 1964
 Bielig, George Andrew, 1965**
 Bien, Chia Nien, 1959
 Binks, Noel Margaret, 1965
 Birch, John Alexander, 1961**
 Bird, Kevin Douglas, 1964*†
 Bishop, George Rowley, 1964
 Bitmead, Ronald Charles, 1954**
 Blackmore, Hugh Norris, 1960
 Blackshaw, Leslie Bruce, 1961
 Blakemore, John Stewart, 1964
 Bland, Barbara Joy, 1962**
 Blattman, Robert John, 1963
 Blayden, Ian Douglas, 1965**
 Bliss, William John, 1955**
 Bloomfield, Barry John, 1957
 Boardman, Brian Raymond, 1962
 Boedihardjo, Otto, 1958**
 Boland, James Norman, 1962*
 Bollinger, Peter Cameron, 1957
 Bolt, Anthony Leo, 1962
 Bolt, Arthur George, 1961
 Bolton, Robert Frank, 1962
 Bolton, Robert John, 1956
 Booth, Malcolm John, 1962
 Boshell, Gregory John, 1959
 Bostrom, John, 1957
 Bouffier, Trevor Brian, 1960
 Boughton, Anthony John Matheson, 1965
 Bourke, Maxwell Eric, 1963***
 Bourke, Sidney Frederick, 1962
 Bowling, Keith McGregor, 1952**
 Boyd, Robert, 1960
 Boyer, John Peter, 1956*
 Boyes, Kenneth Ronald, 1963
 Boyling, Warwick Francis, 1959**
 Bracken, Malcolm Royston, 1965
 Bradford, John Dennis, 1965
 Bradhurst, Peter Lovett, 1961
 Bradley, Robert Burton, 1957
 Bradwell, John Edward, 1957
 Brady, Leslie John, 1963
 Brady, Lynette Margaret, 1959
 Brady, Peter Harland, 1960
 Branch, Stuart Innes, 1963
 Brandley, Barry Alexander, 1962
 Brennan, David James, 1964**
 Brent, Ernest Harold, 1957**
 Bridge, Lawrence James, 1964
 Brieger, Klaus Martin, 1958
 Brien, Beverley Edward James, 1960
 Briggs, Ian Campbell, 1963*
 Briggs, William Robert, 1952**
 Brock, Charles Warren, 1961
 Brock, Trevor John, 1964
 Brookes, Roy Frederick Alexander, 1965
 Brophy, Joseph John, 1965*
 Brown, Ian Henry, 1962
 Brown, Kevin Robert, 1964**
 Brown, Robin Francis Martin, 1961
 Brunker, Janice Marion, 1961
 Brunton, Robert Sidney, 1965
 Bryan, John Hamilton, 1965*
 Bryant, David Lindsey, 1958
 Buckle, Kenneth Alan, 1965*†
 Buckman, Edmund James, 1955**
 Buist, Ronald Victor, 1958
 Bulathsinghala, Don Milton, 1956
 Bulian, William Anthony, 1965
 Bunch, Kenneth, 1959
 Bunder, Maarten Wicher, 1962
 Bundy, Harold Charles, 1963
 Bunting, John William, 1964*†
 Burges, William Richard, 1965
 Burgess, Ian Glencross, 1958
 Burke, Harvey Francis, 1964
 Burns, Colin Cousins, 1964
 Burns, Edward Joseph, 1964
 Burns, Malcolm John, 1964*
 Burns, Richard Alfred, 1962

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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 Isabell, 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
 Cahill, Mary Judith, 1964
 Caiger, Philip, 1957**
 Cain, David Anthonv. 1965
 Cairns, Robert Charles, 1952*†
 Caldwell, Raymond Joseph, 1965
 Callcott, Mary Millicent, 1965
 Callender, Wesley, 1958
 Callinan, Bryan Francis, 1959
 Cambey, 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**
 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, Nefra 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**
 Coggiola, Iliano Mario, 1961
 Cohen, Soly Angel, 1963
 Coleman, Brian John, 1961
 Coleman, Maurice Leigh, 1965
 Collard, Margaret Anne, 1965
 Colley, Douglas Fraser, 1959

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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
 Conyngham, 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'Abnera, 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'Arcy, 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**

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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
 Deasey, John Patrick, 1960
 Deasy, Kenneth James, 1964
 De Haan, Jacob Jan, 1962
 Deitz, 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
 Diehl, 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**
 Dreise, Peter William, 1962
 Drew, Barry Joseph, 1963
 Driksna, Victor Van, 1964
 Drobny, Dawn Leila, 1964
 Drobny, Peter, 1965
 Druitt, 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, Gwenyth Marjorie, 1963
 Eather, Robert Hugh, 1962*
 Eaton, Kenneth Brian, 1965
 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
 Elliott, Graham Frank, 1960
 Elliott, John William Murray, 1964
 Elmslie, Malcolm Kenwyn, 1963
 Elson, Wendy Elizabeth, 1965**
 Eltis, John William, 1964*
 Emmett, William James, 1964
 England, Richard Geoffrey, 1962
 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**

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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 Al-
 berto, 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
 Gatt, 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
 Gilmore, Harry, 1958
 Gilmour, John Alan, 1963

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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, 1955
 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**

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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*
 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

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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*
 Jasjfi, 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**
 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
 Kainer, 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
 Kelcoyne-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*

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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
 Lacey, Daryl Thomas, 1961**
 Laicans, Zigfrids Bruno, 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
 Lassak, 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
 Lehoczkzy, Ildy 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
 Lorsch, Peter, 1962***
 Lourey, Brian Joseph, 1961
 Love, John Leslie, 1965
 Lovell, Derek Campbell, 1957
 Lowe, Brian Frank Sydney, 1965
 Lowe, James, 1965
 Lozzi, 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

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- 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 McInnes, 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
 Maksvytis, 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 Icton Miles, 1964
 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**
 McDougall, 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
 McGuinness, 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
 McMahan, 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

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BACHELORS OF SCIENCE—*continued*

- Mead, Murray, 1953
 Meade, 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***
 Mitro, 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
 Morieson, 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
 Murdoch, Raymond Neville, 1964**
 Murphy, Henry Matthew, 1965
 Murphy, Peter Francis, 1964
 Murray, Graham Leslie, 1965
 Murray, John Coll, 1965
 Mushan, William George, 1964
 Muthucumar, 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

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BACHELORS OF SCIENCE—*continued*

- Nicholson, Malcolm Charles, 1962
 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'Bree, 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
 Ogleshorpe, Bruce James, 1954
 Oitmaa Jaan, 1965*†
 O'Keefe, John Herbert, 1963
 O'Neil, William Frederick, 1963
 O'Neill, 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**
 Parkee, Malcolm, 1961
 Parker, George Frederick, 1960
 Parker, Peter, 1965
 Parkes, Kevin Charles, 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
 Peebles, Anthony John, 1964
 Peet, Diana Margery, 1963
 Peh, Siew Cheng, 1965
 Pemberton, Donald Marsden, 1959
 Pemberton, Gary Milton, 1961
 Pembleton, 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

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BACHELORS OF SCIENCE—*continued*

- 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, Satrugan 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

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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, 1957
 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**
 Schaefer, Ian 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
 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
 Sheppherd, William Alfred, 1964
 Sherlock, Stuart Laurence, 1965
 Sherwood, Rosalind Anne, 1964
 Shiell, 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

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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
 Smith, Valma Joan, 1962
 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*
 Spedding, Peter Lee, 1958**
 Spooner, Barry, 1963
 Springthorpe, Brian Charles, 1961
 Stacey, George Stephen, 1963
 Stagg, John Alexander, 1965
 Standish, Nicholas, 1959
 Stanley, Gerald, 1962
 Stanmore, Brian Ralph, 1959
 Stead, Blair Victor, 1964**
 Steadman, Robert George, 1961**
 Steanes, John Ellington, 1958
 Stein, Alan Walter, 1956
 Stekelenburg, Marcus Titus Thyl, 1961
 Stephen, Bruce William, 1957
 Stephen, Wallace, 1952
 Stephens, Frederick Selwyn, 1960**
 Stephens, Garry Herbert, 1962
 Stephens, Geoffrey Malcolm, 1957
 Stephens, James Rosevear, 1962**
 Stephens, Jeffrey, 1965
 Stephenson, Peter John, 1965
 Stern, Walter, 1960**
 Stevens, Rhonda May, 1964
 Stevenson, David Dunlop, 1960
 Stevenson, William Morton, 1962
 Stewart, Alistair James, 1960
 Stewart, Colin Crosbie, 1958
 Stewart, David Murray, 1965
 Stewart, Edward Keith, 1963
 Stewart, Jennifer Christine, 1965
 Stewart, Philip Sidney, 1962*
 Stiebel, Paul Andrew, 1962
 Stimson, Alan Keith, 1958
 Stoddart, Norman Thomas, 1955**
 Stone, Allan Michael, 1964
 Stone, Kenneth Francis, 1965
 Storey, David, 1963
 Storum, Gregory Daniel, 1963
 Strange, John Arthur Edward, 1963
 Strasser, Stephen, 1962
 Stubbs, Thomas John, 1965
 Sullivan, Denis John, 1964**
 Summers, Tyrone Allicent, 1961
 Sun, Robert Keith, 1962
 Suters, Ralph William, 1961
 Sutherland, Brian Andrew, 1963
 Sutton, Gervaise John, 1952**

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BACHELORS OF SCIENCE—*continued*

- 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
 Thalassinios, 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
 Thornburn, Trevor John, 1958
 Thornley, Robin Crystal, 1963
 Thurling, Brian Leslie, 1965
 Thurstan, Edward Gray, 1962
 Thurstun, 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
 Todhunter, John William, 1957
 Toh, Kok Wah, 1961
 Torzillo, Rex Louis, 1956
 Towle, Alan Norman, 1965
 Trainor, Kevin Eugene, 1964
 Travers, John Ralph, 1963
 Treloar, 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, Banacha, 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
 Volegoff, Basil, 1964
 Wadds, Elizabeth Mary, 1962**
 Wade, Kenneth John, 1965

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BACHELORS OF SCIENCE—*continued*

- 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
 Waltho, 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
 Wearne, 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*†
 Whitfeld, David, 1956
 Whitfield, Frank Brierley, 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
 Winch, 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

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

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Isbister, James Paton, 1965*	Mutton, Patricia Elizabeth, 1965**
Mok, Henry Yue Iu, 1965*	

BACHELORS OF SCIENCE (OPTOMETRICAL SCIENCE)

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

BACHELORS OF SCIENCE (TECHNOLOGY)

Abel, John Geoffrey, 1964	Avery, Ronald George, 1964
Alcock, William Angus, 1965	Barclay, Allen Robert, 1964
Alleyn, Anthony George, 1963	Barker, John Murray, 1965
Anderson, Donald Murray, 1964	Beard, Geoffrey Edward, 1964
Andrews, Ernest William, 1964	Bezimienny, Jan, 1965
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- 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 Edyvean, 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 Vjekslav, 1965
George, Terence John, 1965
Gibson, Bruce, 1963
Gibson, Terrence George, 1965
Gray, Roger Barry, 1964
Griffiths, Anthony Vincent, 1964
Griffiths, Robert Rainford, 1962
Haertsch, 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

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
 Mactavish, 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 Lytton, 1964
 Olds, Ronald Keith, 1965
 O'Leary, Michael Anthony, 1963
 Orames, 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
 Podzebenko, 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
 Schroder, 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
 Tompkins, 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 Richard, 1963
 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

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, Glyndwr, 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

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
 Crosbie, 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
 Eltis, 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
 Lyddiard, 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

DIPLOMA IN EDUCATION—continued

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

DIPLOMA IN FOOD TECHNOLOGY

- | | |
|---------------------------|-----------------------|
| Barlahan, Asuncion, 1962 | Salon, Dionisio, 1962 |
| el Khidir, Omar Hag, 1961 | |

DIPLOMA IN FOOD AND DRUG ANALYSIS

- | | |
|-----------------------------|-----------------------|
| Black, William Hector, 1963 | Parkee, Malcolm, 1963 |
| Brady, Milton Neil, 1963 | |

DIPLOMA IN HIGHWAY ENGINEERING

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

DIPLOMA IN INDUSTRIAL ENGINEERING

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

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
 Haworth, Janice Elizabeth, 1962
 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
 Järv, 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
 Lennox, 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 Gweneth, 1965
 Radi, Heather Joan, 1964
 Ragg, Dora Petrie, 1964
 Rayward, Warden Boyd, 1964
 Read, Penelope Antill, 1964
 Reid, Susan Frances, 1965
 Roberts, Mererid, 1965

DIPLOMA IN LIBRARIANSHIP—*continued*

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

DIPLOMA IN SOCIOLOGY

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

APPENDIX 3

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?"

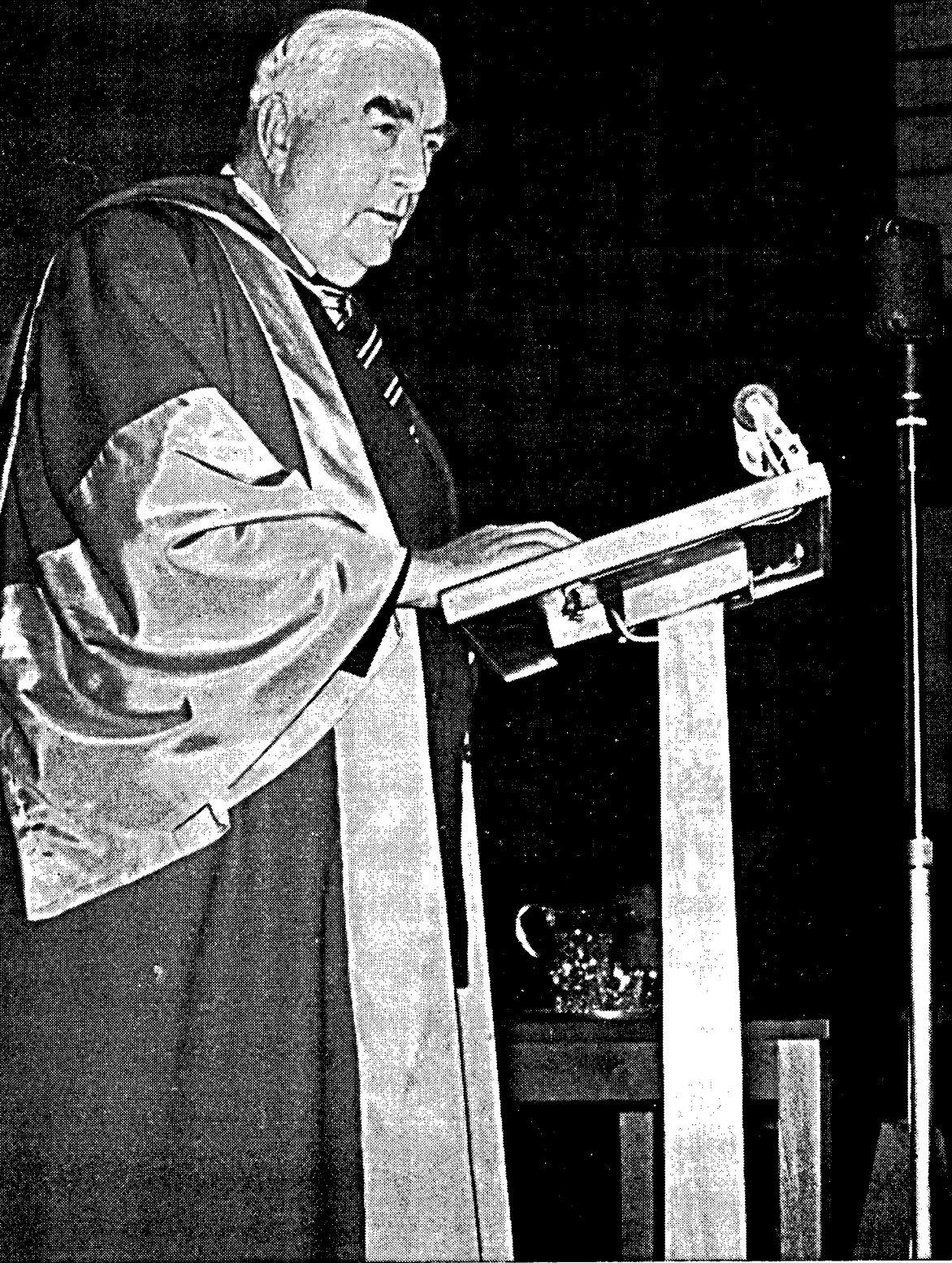
On the first he held that finance should not be the limiting factor where intellectual capacity and personal ambition were adequately high. He said, however, that "far too many people in our country, when they urge the creation of a new university, seem to think of it in terms of financial provision 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."

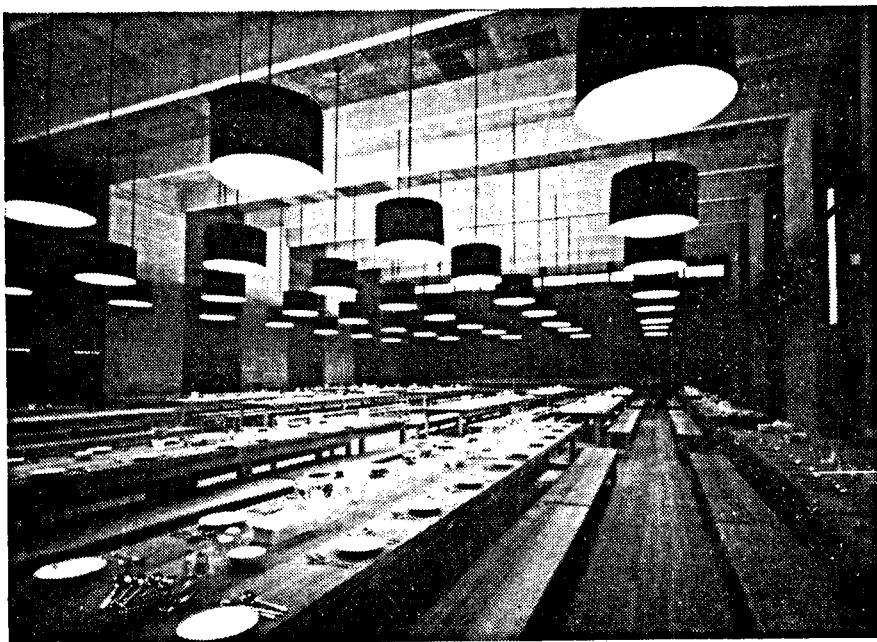
Official Opening of the Phillip Goldstein Hall

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.

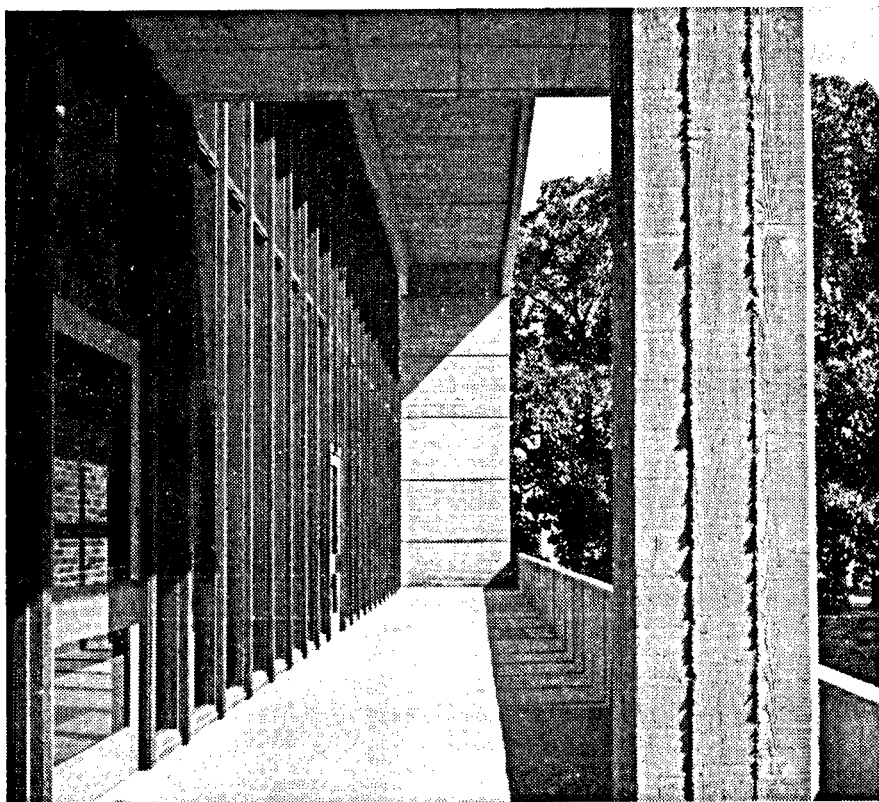
At the opening the guests, who included the Hon. the Minister for Education, Mr. E. Wetherell, the Chancellor of the University of Sydney, Sir Charles Bickerton-Blackburn, and Dr. R. J. Heffron, were welcomed by the Chancellor. The Vice-Chancellor paid a warm tribute to the late Phillip Goldstein whose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



The Rt. Hon. Sir Robert Menzies, K.T., C.H., Q.C., M.P.



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 Basseter 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 browns 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.

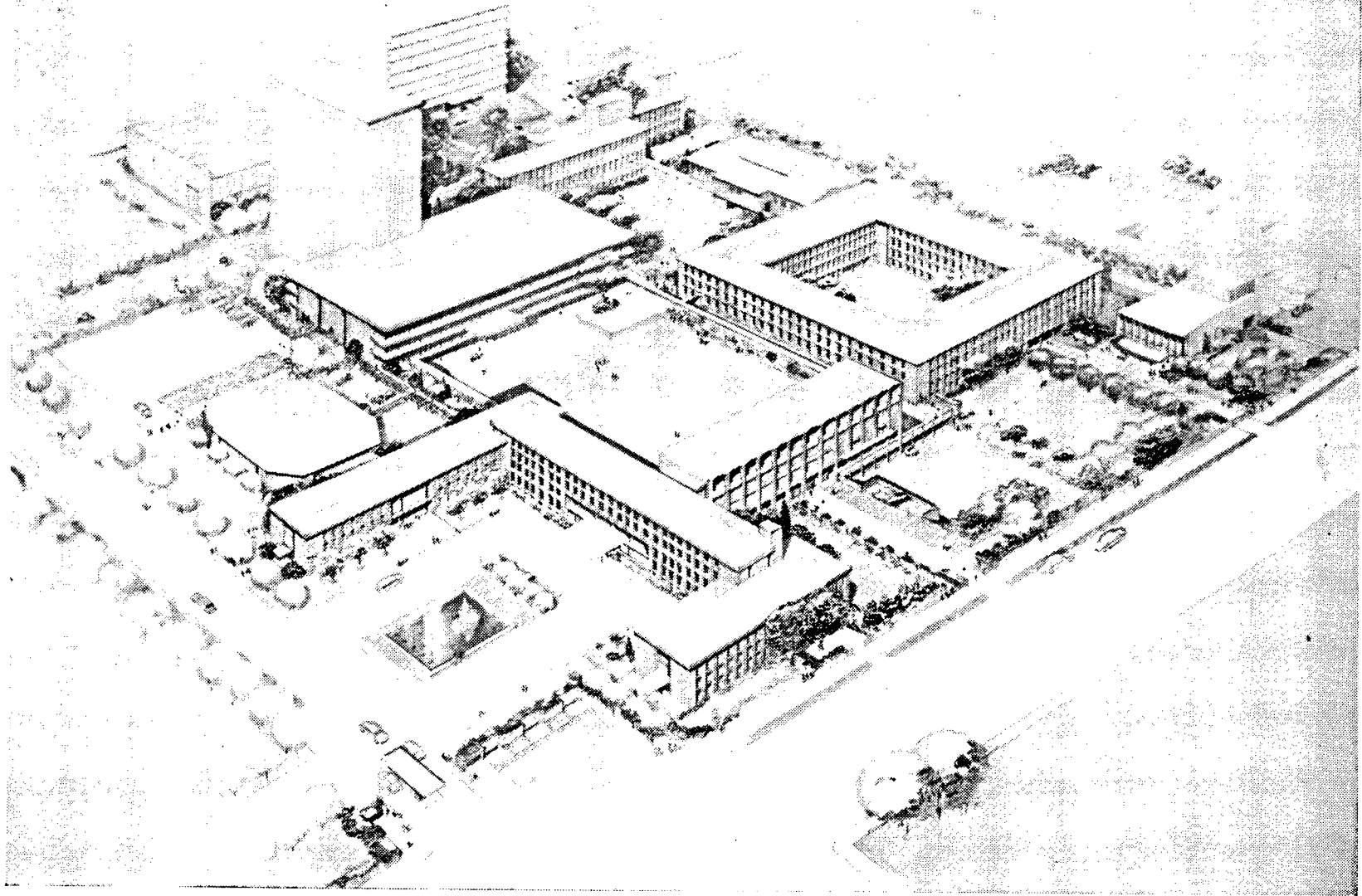
By the end of the year the University was ready to get under way with extensions to the Union Building. Additional shopping areas, offices and accommodation for the Students' Union and space for a Senior Common Room Club will be provided. A substantial amount of the cost of this building (£150,000) is 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.

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 overseas 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 overseas 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:

Doctor of Science	....	....	....	1
Doctor of Medicine	....	....	....	2
Doctor of Philosophy	....	....	....	20
Master of Building	....	....	....	1
Master of Engineering	....	....	....	15
Master of Science	....	....	....	29
Master of Technology	....	....	....	29
Bachelor of Arts	....	....	....	45
Bachelor of Architecture	....	....	....	22
Bachelor of Building	....	....	....	3
Bachelor of Commerce	....	....	....	137
Bachelor of Engineering	....	....	....	143
Bachelor of Science	193
Bachelor of Science (Technology)	56
Bachelor of Surveying	5
				<hr/>
				701
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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
			—
			94
			—

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	Hungary	Norway
Australia	India	Jordan
Bolivia	Iran	Paraguay
Canada	Iraq	Philippines
Ceylon	Ireland	Scotland
Chile	Israel	Sierra Leone
Costa Rica	Kenya	Southern Rhodesia
Cyprus	Lebanon	Spain
Denmark	Malaya	Switzerland
England	Malta	Sweden
Finland	Mexico	Syria
Germany	Mozambique	Tanganyika
Ghana	Netherlands	United Arab Republic
Greece	New Guinea	United States of America
Guatemala	New Zealand	Vietnam
Hong Kong	Nigeria	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.

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

Doctor of Philosophy	....	....	....	3
Master of Arts	....	....	....	1
Master of Engineering	....	....	....	1
Master of Science	....	....	....	2
Bachelor of Arts	....	....	....	67
Bachelor of Architecture	....	....	....	4
Bachelor of Commerce	....	....	....	18
Bachelor of Engineering	....	....	....	25
Bachelor of Science	....	....	....	35
Bachelor of Science (Technology)	....	....	....	5
				<hr/>
				161
				<hr/>

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:

<i>Arts</i>	<i>Commerce</i>	<i>Science</i>
History II	Accountancy II	Pure Mathematics III
English II	Economics II	Applied Mathematics III
Psychology II	Economics III	
Scientific Thought II	Commercial Law II	
Economics II		

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

Angus-Leppan, P. V., B.Sc. (Eng.) (Rand), Ph.D. (Natal),
Dip.T.P. (Natal), M.I.L.S. (Natal); 16th December,
1963.

Professor of General Education and Head of Department of General Studies

Wood, J. F. D., B.Sc., B.E. (Syd.), M.I.E.Aust.; 16th
December, 1963.

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

Ashworth, H. I., O.B.E., M.A. (Manc.), B.A.(Hons.)
(Arch.) (Manc.), F.R.I.B.A., Hon. F.R.A.I.A.,
M.A.P.I., Am.F.R.A.I.C.; 1st January, 1964.

Professor, School of Physics

George, E. P., B.Sc., Ph.D. (Lond.), F.Inst.P., M.R.I.; 1st
January, 1964.

Professor, School of Biological Sciences

Barber, H. N., M.A., Sc.D. (Cantab.), Ph.D. (Lond.),
F.R.S., F.A.A.; 1st February, 1964.

Professor, School of Chemistry

Cavill, G. W. K., M.Sc. (Syd.), Ph.D., D.Sc. (Liv.), F.R.I.C.,
F.R.A.C.I.; 13th July, 1964.

Professor, School of Political Science

McCallum, D. M., B.A. (Syd.), B.Phil., M.A. (Oxon.);
31st August, 1964.

Professor, School of Surgery

Ludbrook, J., B.Med.Sc., M.B., Ch.M. (N.Z.), F.R.C.S.,
F.R.A.C.S.; 9th November, 1964.

Professor, School of Applied Psychology

Hammer, A. G., M.A. (Syd.); 1st December, 1964.

Professor, School of Electrical Engineering

Karbowiak, A. E., B.Sc., Ph.D. (Lond.), A.M.I.E.E.; 20th December, 1964.

Visiting Professor, School of Business Administration

Urwick, L. F., O.B.E., M.A. (Oxford); 15th October, 1963.

Visiting Professor, School of Sociology

Montague, J. B., Ph.D. (Michigan); 1st March, 1964.

Visiting Professor, School of Economics

Hadley, G. F., B.S. (Carnegie Inst.), A.M., Ph.D. (Harvard); 31st August, 1964.

Associate Professor, School of Paediatrics

Stevens, L. H., M.B., Ch.D., B.Sc. (N.Z.), Ph.D. (Lond.), M.R.A.C.P.; 9th December, 1963.

Associate Professor, Department of Drama

Weiner, A. B., B.A. (Temple), Ph.D. (Yale); 1st January, 1964.

Associate Professor, School of Mathematics

Delves, L. M., M.Sc. (N.Z.), D.Phil. (Oxon.); 1st January, 1964.

Associate Professor, School of Metallurgy

Hatherly, M., M.Sc., Ph.D., A.S.T.C., F.I.M.; 1st January, 1964.

Associate Professor, School of Pathology

Halley, J. B. W., M.D., Ch.B., (St. And.); 3rd March, 1964.

Associate Professor, School of Textile Technology

Nicholls, C. H., B.Sc. (Adel.), Ph.D. (Leeds), A.R.A.C.I.; 11th May, 1964.

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).

Edwards, R. A., B.Sc., Ph.D., A.S.T.C.; 18th October, 1963 (School of Chemical Engineering).

Cooley, D. R., B.E., A.M.Aus.I.M.M., A.M.I.E.Aust.; 11th November, 1963 (School of Mining Engineering, Broken Hill Division).

Giutronich, J. E., B.Sc. (Syd.), Ph.D.; 12th November, 1963 (School of Physics).

Elmslie, R. G., M.B., B.S. (Syd.), F.R.A.C.S.; 22nd November, 1963 (School of Surgery).

- Snoswell, A. M., B.Sc., Ph.D. (Adel.); 1st December, 1963 (School of Biological Sciences).
- Williams, C. A. D., A.R.A.I.A., M.S.A.I.A.; 9th December, 1963 (School of Architecture & Building).
- Basden, K. S., B.Sc., Ph.D., A.S.T.C., A.R.A.C.I., A.M.Aus.-I.M.M., A.M.Inst.F.; 1st January, 1964 (School of Chemical Engineering).
- Warner, R. F., Ph.D. (Lehigh), M.E.; 31st January, 1964 (School of Civil Engineering).
- Haggarty, G. J., B.E. (Syd.), S.M. (M.I.T.), Ph.D., A.M.I.E.Aust.; 1st February, 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.
- Holy, Z. J., Dipl.Ing. (Prague), M.Sc. (Birm.), M.Tech.; 3rd February, 1964 (School of Nuclear Engineering).
- 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).
- Ludbrook, J., B.Med.Sc., M.B., Ch.M. (N.Z.), F.R.C.S., F.R.A.C.S.; 17th February, 1964 (Faculty of Medicine).
- Archer, R. D., B.Sc. (Melb.), B.E. (Syd.), M.Sc. (Eng.), Ph.D. (Minn.), A.M.I.E.Aust., F.B.I.S., A.F.R.Ae.S., M.A.I.A.A. (U.S.); 21st February, 1964 (School of Mechanical Engineering).
- Taylor, J., B.Sc. (Nott.), A.M.I.Mech.E.; 21st February, 1964 (School of Mechanical Engineering).
- 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.
- Hind, E. C., M.E., A.S.T.C., A.M.I.E.Aust.; 10th March, 1964 (School of Mechanical Engineering).
- 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).
- MacManus, F., B.E. (N.U.I.), M.Sc. (Birm.), A.M.I.C.E.; 31st July, 1964 (School of Highway Engineering).
- Lamb, C. St. J., M.Sc. (Eng.) (Lond.), B.E., A.S.T.C.; 9th August, 1964 (School of Electrical Engineering).
- Dixon, J. D., M.A. (Melb.), Ph.D. (McG.); 10th August, 1964 (School of Mathematics).
- Bowen, L. O., B.Sc., B.E. (W. Aust.), Ph.D. (Lond.), M.Sc., A.Inst.P., A.A.I.P.; 11th August, 1964 (School of Physics).
- 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).
- Pilgrim, D. H., B.E., A.M.I.E.Aust.; 11th August, 1964 (School of Civil Engineering).
- 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).
- Colebatch, H. J. H., M.B., B.S. (Adel.), M.R.A.C.P.; 9th October, 1964 (School of Medicine).
- Blanks, H. S., B.Sc., M.E. (Syd.), A.M.I.E.E.; 12th October, 1964 (School of Electrical Engineering).
- 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:

- Miller, A. J., M.Sc., Ph.D. (Manc.); 7th September, 1964 (Institute of Highway and Traffic Research).
- Symes, H. E. J., D.Sc. (Eng.) (Rand), A.M.I.E.E., M.(S.A.)I.E.E., A.M.I.C.M. & E.E. (S.A.); 25th September, 1964 (School of Mining Engineering)—formerly Senior Lecturer, School of Electrical Engineering.

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.

- Wheen, G. A., M.A. (Syd.), Ed.D. (Col.), Master of the First Group of University Residential Colleges, 25th February, 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.
- Horton, A. R., B.A. (Syd.), Deputy to the Librarian, appointed Librarian, 9th November, 1964.

Resignations and retirements during the year were as follows:

- Skertchly, A. R. B., Associate Professor in Textile Technology, resigned 31st January, 1964.
- 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.
- Moran, V. J., Senior Lecturer in Metallurgy, resigned 31st 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.
- Turnbull, M. R. M., Senior Lecturer in History, resigned 13th July, 1964.
- Cope, T. I., Senior Lecturer in Obstetrics and Gynaecology, resigned 24th July, 1964.
- Guelke, R. W., Visiting Professor in Electrical Engineering, term of engagement ceased, 31st 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.
- Tichauer, E. R., Senior Lecturer in Mechanical Engineering, resigned 30th October, 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.

- Montague, J. B., Visiting Professor in Sociology, term of engagement ceased, 30th November, 1964.
- Carr, I. A., Senior Lecturer in Pathology, resigned 4th December, 1964.
- Burton, J. R., Senior Lecturer in Water Engineering, resigned 31st December, 1964.
- Craigie, N. R. M., Temporary Senior Lecturer in Structural Engineering, term of engagement ceased, 31st December, 1964.
- Snoswell, A. M., Senior Lecturer in Biological Sciences, resigned 31st December, 1964.

Newcastle University College

Professor of Engineering

Goodger, E. M., M.Sc. (Eng.), Ph.D. (Lond.), A.F.R.Ae.S., F.Inst.Pet., A.M.I.Mech.E., A.M.I.E.Aust.; 9th March, 1964.

Professor of Mathematics

MacDonald, I. D., M.A. (Aberd.), Ph.D. (Manc.); 31st August, 1964.

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

Tanner, R. G., M.A. (Melb. & Cantab.); 14th September, 1964.

Professor of Physics

Ellyett, C. D., M.Sc. (N.Z.), Ph.D. (Manc.), F.R.A.S.; 14th September, 1964.

Associate Professor, Department of Geology

Nasher, Beryl, B.Sc., Dip.Ed. (Syd.), Ph.D. (Tas.); 1st January, 1964.

Associate Professor, Department of German

Ritchie, J. McP., M.A. (Aberd.), Dr. Phil. (Tubingen); 1st January, 1964.

Associate Professor, Department of Chemistry

Pickering, W. F. J., M.Sc., Ph.D., A.S.T.C., F.R.A.C.I.; 1st January, 1964.

Senior Lecturer, Department of Geology

Engel, B. A., M.Sc. (N.E.); 14th April, 1964.

Senior Lecturer, Department of Geography

Jarrett, H. R., B.A. (Birm.), M.Sc.(Econ.), Ph.D. (Lond.), F.R.G.S.; 14th July, 1964.

Senior Lecturer, Department of Mathematics

Lambert, J. A., B.Sc. (Syd.), M.Sc.; 14th July, 1964.

Senior Lecturer, Department of Civil Engineering

Betts, N. O., B.Sc. (Eng.) (Capetown), B.Sc. (South Africa), M.Tech., A.M.I.C.E.; 1st October, 1964.

Wollongong University College

Professor of Mathematics

Keane, A., M.Sc. (Syd.), Ph.D.; 1st October, 1964.

*Associate Professor, Department of Mechanical Engineering*Bonamy, S. E., B.E. (Syd.), M.Sc. (Birm.), Ph.D., A.S.T.C.,
A.M.I.E.Aust., A.M.I.Mech.E.; 1st January, 1964.

Summary of Enrolments—1964 (All Centres)

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

Summary of Enrolments by Centres

	<i>Kensington</i>	<i>Newcastle</i>	<i>Wollongong</i>	<i>Broken Hill</i>	<i>Total</i>
Post-graduate ...	843	90	5	1	939
Undergraduate ...	7,699	1,361	444	82	9,586
Miscellaneous ...	377	51	14	10	452
Total	8,919	1,502	463	93	10,977

Enrolments, 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

Course	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	Total
Applied Chemistry	24	16	14	7	...	...	61
Applied Geology	4	7	3	1	...	...	15
Applied Psychology B.Sc.	10	5	...	...	...	...	15
Architecture	131	64	65	45	52	36	393
Arts	499	199	85	10	...	...	793
Building	13	10	11	13	...	...	47
Ceramic Engineering	1	2	2	...	...	...	5
Chemical Engineering	38	40	20	12	...	...	110
Civil Engineering	114	90	55	37	...	...	296
Civil Engineering Comb. B.Sc./B.E. ... ..	...	2	...	...	...	...	2
Commerce							
Accountancy	87	56	40	1	...	...	184
Applied Psychology	4	3	2	...	...	...	9
Economics	66	30	30	1	...	...	127
Industrial Relations	9	5	6	1	...	...	21
Statistics	2	3	1	...	...	...	6
Wool Commerce	3	1	3	...	...	...	7
Electrical Engineering	118	96	66	41	...	...	321
Food Technology	8	8	5	4	...	...	25
Fuel Engineering ... ..	...	1	2	...	...	...	3
Fuel Technology ... ..	...	1	...	1	...	...	2
Industrial Arts	8	4	11	6	...	...	29
Industrial Chemistry	27	10	4	2	...	...	43
Industrial Engineering	12	8	6	3	...	...	29
Industrial Engineering Comb. B.Sc./B.E.	1	...	...	...	...	...	1
Mechanical Engineering	61	47	25	23	...	...	156
Mechanical Engineering Comb. B.Sc./B.E. ... ..	...	7	...	...	...	...	7
Medicine	97	84	78	33	...	...	292
Metallurgy	8	10	13	4	...	...	35
Mining Engineering	6	7	1	2	...	...	16
Optometry	13	1	6	6	...	...	26
Polymer Science	2	...	...	...	...	...	2
Science	248	165	127	26	...	...	566
Science (Medicine) ... ..	...	...	...	3	...	...	3
Surveying	43	23	22	15	...	...	103
Textile Technology	17	...	...	...	...	...	17
Textile Chemistry ... ..	...	9	7	4	...	...	20
Textile Engineering ... ..	...	...	1	3	...	...	4
Textile Manufacture ... ..	...	1	...	...	...	...	1
Textile Physics ... ..	...	2	3	7	...	...	12
Wool Technology	15	8	5	8	...	...	36
	1,689	1,025	719	319	52	36	3,840

Sydney—Part-time Undergraduate Degree Courses

<i>Course</i>	<i>1st Year</i>	<i>2nd Year</i>	<i>3rd Year</i>	<i>4th Year</i>	<i>5th Year</i>	<i>6th Year</i>	<i>7th Year</i>	<i>8th Year</i>	<i>Conv.</i>	<i>Total</i>
Accountancy Diploma* ...	...	...	...	...	1	...	...	...	...	1
Aeronautical Engineering ...	5	...	2	3	1	1	...	...	...	12
Applied Biology ...	...	...	...	...	1	3	...	...	...	4
Applied Chemistry ...	55	33	53	31	38	59	7	...	3	279
Applied Physics ...	...	...	...	...	...	...	...	...	2	2
Applied Psychology ...	8	8	19	7	8	1	...	...	...	51
Architecture ...	64	42	24	...	...	...	...	...	3	133
Architecture* ...	...	...	...	14	28	21	...	...	...	63
Building* ...	5	14	6	6	9	...	...	...	...	40
Ceramics ...	1	1	1	...	...	...	...	...	...	3
Chemical Engineering ...	53	11	32	22	19	14	17	...	...	168
Civil Engineering ...	71	71	56	46	51	39	38	...	...	372
Commerce ...	466	...	...	...	...	...	...	...	...	466
Accountancy ...	3	129	60	67	74	24	2	...	11	370
Applied Psychology ...	1	11	8	6	5	1	...	...	...	32
Economics ...	...	58	56	15	38	16	...	...	...	183
Industrial Relations ...	...	3	3	3	1	3	...	...	...	14
Statistics ...	...	3	9	5	6	...	...	...	...	23
Wool Commerce ...	1	2	1	1	1	...	...	...	...	6
Electrical Engineering ...	68	52	45	53	49	28	10	...	20	325
Food Technology ...	14	4	2	...	...	...	...	...	...	20
Fuel Technology ...	4	1	1	...	2	...	...	...	...	8
Industrial Arts ...	18	2	3	1	...	...	...	...	...	24
Industrial Chemistry... ..	39	11	16	9	11	16	...	...	...	102
Industrial Engineering ...	15	8	11	18	10	3	1	...	...	66
Manual Arts* ...	1	3	7	2	54	...	...	...	...	67
Mechanical Engineering ...	61	35	46	45	41	26	17	...	...	271
Metallurgy ...	20	6	16	7	9	6	9	...	1	74
Naval Architecture ...	3	...	3	1	3	...	...	...	...	10
Optometry ...	...	...	...	...	1	...	...	...	15	16
Polymer Science ...	2	...	...	1	...	1	...	...	...	4
Quantity Surveying* ...	11	9	6	7	5	...	...	...	...	38
Radio Engineering* ...	...	...	...	1	2	...	...	...	...	3
Science ...	139	89	84	43	66	32	16	1	...	470
Sociology ...	28	17	13	...	...	...	...	...	...	58
Surveying ...	41	18	10	5	1	3	3	...	...	81
	1,197	642	593	419	535	297	120	1	55	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
	<u>647</u>

APPENDIX 3

Graduate Diplomas—Sydney

Corrosion Technology	....	....	....	5
Highway Engineering	....	....	....	6
Industrial Engineering	....	....	....	67
Librarianship	....	....	....	104
Mineral Technology	....	....	....	7
Fuel Technology	....	....	....	7
				<hr/>
				196

Other Courses—Sydney

Miscellaneous	....	....	....	....	286
<i>Ad hoc</i>	....	....	....	....	91
					<hr/>
					377

Newcastle—Full-time Undergraduate Degree Courses

<i>Course</i>	<i>1st Year</i>	<i>2nd Year</i>	<i>3rd Year</i>	<i>4th Year</i>	<i>5th Year</i>	<i>6th Year</i>	<i>Total</i>
Architecture	4	8	5	2	...	1	20
Arts	168	89	63	4	...	...	324
Chemical Engineering	1	1	2	7	...	...	11
Civil Engineering	7	6	7	5	...	...	25
Commerce	2	...	...	...	...	...	2
Accountancy	13	2	3	4	2	...	24
Economics	2	2	2	1	...	...	7
Electrical Engineering	4	2	...	...	...	...	6
Industrial Chemistry	3	2	1	...	...	...	6
Mechanical Engineering	4	4	6	18	...	...	32
Metallurgy	1	4	2	7	...	...	14
Science	41	34	23	6	...	...	104
	250	154	114	54	2	1	575

Newcastle—Part-time Undergraduate Degree and Diploma Courses

Course	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	Conv.	Total
Architecture	5	9	4	3	2	3	...	...	1	27
Architecture* ... ..	...	...	...	2	1	4	...	...	...	7
Arts	104	60	72	11	...	...	...	...	...	247
Chemical Engineering ...	7	5	3	8	4	8	2	1	...	38
Civil Engineering	3	3	5	3	...	9	8	...	...	31
Commerce	36	...	...	...	...	...	...	...	...	36
Accountancy	5	21	11	12	9	...	...	...	...	58
Economics	7	4	3	2	3	4	...	...	...	23
Industrial Relations ... ..	...	1	...	...	...	...	...	...	...	1
Electrical Engineering ...	6	14	4	5	2	2	3	...	...	36
Industrial Engineering ...	...	...	1	...	...	...	...	...	...	1
Industrial Chemistry... ..	16	8	6	3	3	3	2	...	...	41
Manual Arts* ... ..	...	...	1	7	4	...	...	...	...	12
Mechanical Engineering ...	23	19	11	12	5	7	6	...	...	83
Metallurgy	24	9	11	5	10	7	5	...	...	71
Science	24	9	14	11	3	13	...	...	...	74
	260	162	146	84	46	60	26	1	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
				—
				44
				—

Graduate Diplomas—Newcastle

Education	46
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Other Courses—Newcastle

Miscellaneous	51
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Wollongong—Full-time Undergraduate Degree Courses

Course	1st Year	2nd Year	3rd Year	4th Year	Total
Arts	68	...	...	...	68
Civil Engineering	2	2	...	...	4
Commerce	6	...	...	...	6
Electrical Engineering ...	4	1	...	...	5
Mechanical Engineering...	3	1	1	...	5
Medicine	2	...	...	...	2
Metallurgy	5	2	...	...	7
Science	22	14	1	...	37
Surveying	1	...	...	...	1
Textile Technology	1	...	...	...	1
	114	20	2	...	136

Wollongong—Part-time Undergraduate Degree Courses

<i>Course</i>	<i>1st Year</i>	<i>2nd Year</i>	<i>3rd Year</i>	<i>4th Year</i>	<i>5th Year</i>	<i>6th Year</i>	<i>Conv.</i>	<i>Total</i>
Applied Chemistry ...	3	1	...	...	...	1	...	5
Civil Engineering ...	5	1	3	...	...	...	...	9
Commerce ...	11	...	...	...	...	...	...	11
Electrical Engineering ...	13	5	5	5	7	6	...	41
Manual Arts*	1	...	...	...	1	...	...	2
Mechanical Engineering ...	17	8	5	12	11	11	...	64
Metallurgy ...	19	14	13	26	17	21	2	112
Mining Engineering ...	1	...	...	1	...	...	...	2
Optometry ...	...	...	...	...	...	...	...	...
Surveying ...	1	1	...	...	...	...	...	2
Science ...	23	16	9	5	7	...	...	60
	94	46	35	49	43	39	2	308

* 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
				—
				5
				—

Other Courses—Wollongong

Miscellaneous	....	....	....	13
<i>Ad hoc</i>	....	....	....	1
				—
				14
				—

Broken Hill—Part-time Degree and Diploma Courses

<i>Course</i>	<i>1st Year</i>	<i>2nd Year</i>	<i>3rd Year</i>	<i>4th Year</i>	<i>5th Year</i>	<i>6th Year</i>	<i>Total</i>
Civil Engineering ...	2	...	...	...	...	...	2
Electrical Engineering ...	4	1	...	3	...	...	8
Industrial Arts ...	...	...	...	...	...	1	1
Mechanical Engineering ...	4	4	5	2	3	5	23
Metallurgy ...	...	...	...	...	2	...	2
Mining Engineering ...	4	3	1	2	2	3	15
Science ...	14	3	10	2	2	...	31
	28	11	16	9	9	9	82

Higher Degrees—Broken Hill

Master of Engineering	1
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Other Courses—Broken Hill

Miscellaneous	10
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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

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
<i>The Australian Dairy Produce Board:</i> The Board donated an amount of £650 for studies on casein and cheese by the School of Chemical Engineering.			
<i>The Australian Automobile Association:</i> The Association donated an amount of £2,000 to provide a Fellowship in Traffic Engineering.			
<i>The Australian Institute of Nuclear Science and Engineering:</i> 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.

Boots Pure Drug Co. (Aust.) Pty. Limited: The Company provided £3,804 for a Research Fellowship in Wool Technology.

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

J. Howden & Co. (Aust.) Pty. Limited	100	0	0
Imperial Chemical Industries of A. & N.Z.	200	0	0
Joy Manufacturing Co. Pty. Limited	50	0	0
Monsanto Chemicals Aust. Pty. Limited	25	0	0
Moreland Metal Coy.	5	5	0
North Shore Gas Co. Limited	20	0	0
Petroleum Information Bureau	200	0	0
S.F. Aust. Pty. Limited	10	10	0
Sturtevant Engineering Co. Aust. Limited	50	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 overseas 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 overseas 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 overseas 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

M. A. Hough	....	....	....	20	0	0
I. Kingham	....	....	....	20	0	0
Roberts & Morrow	....	....	....	20	0	0
D. A. Rutherford	....	....	....	40	0	0
Springfield Pty. Limited	....	....	....	20	0	0
Stonehaven (Blayney) Pty. Limited	....	....	....	20	0	0
H. & J. M. Taylor	....	....	....	40	0	0
P. Warwick	....	....	....	20	0	0
F. G. White	....	....	....	20	0	0

Geigy (A/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:

Mr. J. S. Adams	....	....	....	£2	2	0
William Adams & Co. Limited	....	....	....	100	0	0

Ashfield Municipal Council	52	10	0
Associated Battery Makers of Aust. Limited	100	0	0
Australian Aluminium Co. Limited	100	0	0
Australian Bankers' Association	2,500	0	0
Australian Guarantee Corporation Limited	105	0	0
Australian National Industries	20	0	0
Australian Oil Refining Pty. Ltd.	100	0	0
Mr. E. F. Bezar	1	1	0
Berlei Limited	100	0	0
Birt & Co. Pty. Limited	10	0	0
Blue Mountains City Council	5	5	0
Mr. K. Bond	5	5	0
Bond's Industries Limited	100	0	0
Mr. G. Boreham	2	2	0
Mr. R. Boyer	19	8	0
Bradford Cotton Mills Ltd.	500	0	0
Mr. R. T. Brownell	5	0	0
Mr. H. Bunting	1	1	0
Mr. D. Butcher	8	8	0
Mr. J. J. Cahill	2	2	0
Mr. B. Cameron	8	8	0
Mr. J. M. Carswell	5	0	0
Civil Engineers Construction Manage- ment Course No. 4	48	6	0
Professor J. F. Clark	21	0	0
Mr. W. S. J. Cochrane	2	2	0
Colonial Sugar Refining Co. Limited	500	0	0
Commercial and General Acceptance Limited	50	0	0
Commonwealth Portland Cement Co. Limited	250	0	0
Comptoir National D'Escompte de Paris Concrete Industries (Monier) Ltd.	10	10	0
Mr. G. P. Cook	15	15	0
Mr. M. Curnow	7	7	0
Mr. M. Curnow	6	6	0
Dalgety & New Zealand Loan Limited	50	0	0
Mr. H. Dann	42	8	0
Davis Gelatine (Aust.) Pty. Limited	25	0	0
Mr. H. H. Dickinson	25	4	0
Mr. S. C. Derwent	95	18	0
Duly & Hansford Ltd.	50	0	0
Mr. D. Duncan	15	15	0
Mr. H. Eastwood	5	0	0
Email Limited	750	0	0
Esso Standard Oil (Aust.) Limited	50	0	0
Executive Staff of Psychiatric Hospitals	11	0	0
Farmer & Company Limited	100	0	0
Felt & Textiles (Aust.) Limited	250	0	0

A. Forsyth & Co. Pty. Limited	25	0	0
Mr. A. Geyer	12	12	0
Gilbert & Barker Manufacturing Co. (Aust.) Pty. Ltd.	200	0	0
R. W. Gillespie Trust	300	0	0
Mr. M. Gillies	2	2	0
Mr. C. R. Gold	2	2	0
Goldberg International Pty. Limited	52	10	0
Mr. J. M. Gothe	16	16	0
Greater Union Theatres Pty. Limited	105	0	0
Associate Professor L. M. Haynes	8	8	0
Mr. S. Heath	8	8	0
Mr. P. S. Hill	5	5	0
Mr. D. M. Hoare	7	7	0
Mr. B. Hodgson	10	10	0
Hoover (Aust.) Pty. Limited	315	0	0
M. R. Hornibrook (N.S.W.) Pty. Limited	25	0	0
Hoyts Theatre Limited	50	0	0
Institute of Municipal Administration	10	0	0
Insurance Institute of N.S.W.	100	0	0
Mr. J. S. Jeffrey	7	7	0
Mr. H. Kramer	5	5	0
Mr. E. J. Lee	3	3	0
John Lysaght (Aust.) Limited	2,000	0	0
Mr. A. B. McDowell	24	18	0
Mackellar County Council	10	10	0
Mr. R. C. Madsen	3	3	0
Malleys Limited	250	0	0
The Hon. J. J. Maloney	8	8	0
Mr. W. G. Mathieson	6	6	0
Members of the Administrative Staff Courses Nos. 7 & 8	58	10	0
Members of the State Health Services & Administrative Officers' Conference	5	0	0
Metal Manufactures Limited	150	0	0
Mulwaree Shire Council	5	5	0
Murrumbidgee County Council	100	0	0
Mutual Life & Citizens Assurance Co. Limited	1,500	0	0
Mr. W. S. Napier	26	5	0
National Safety Council of Australia	5	5	0
Mr. J. Neeson	5	0	0
Nestlé Co. (Aust.) Limited	250	0	0
N.S.W. Milk Board	250	0	0
The N.S.W. State Government	75,000	0	0
Nile Industries Pty. Limited	105	0	0
Nock & Kirby Limited	5	5	0
Mr. T. O'Neill	3	0	0
Peko-Wallsend Investments Limited	105	0	0
Penrith City Council	25	0	0

Mr. D. L. Phillips	3	3	0
Philips Electrical Industries Pty. Limited	500	0	0
Prospect County Council	50	0	0
Public Service Association of N.S.W.	10	0	0
Qantas Empire Airways	500	0	0
Professor B. Ralph	2	2	0
Rank Xerox (Aust.) Pty. Ltd.	15	0	0
Mr. F. Reid	1	1	0
Mr. J. Reid	2	2	0
Remington Rand (Aust.) Pty. Limited	10	0	0
Residential Course for Executives No. 3	34	0	0
Rheem (Australia) Pty. Limited	250	0	0
Mr. W. C. Ritchie	3	3	0
Mr. S. C. Robertson	1	1	0
Mr. H. Routley	8	8	0
Rural Bank of N.S.W.	2,000	0	0
Mr. G. Scott	10	10	0
Shop Stewards Course No. 1	3	3	0
Shop Stewards Courses Nos. 2 & 3	5	8	0
Mr. J. Shipway	1	0	0
Mr. W. E. Simmons	7	7	0
Smith Kline & French Laboratories	105	0	0
Professor E. B. Smyth	5	5	0
Mr. G. Smythe	3	3	0
Mr. K. Spencer	21	0	0
W. C. Stevens Pty. Limited	10	10	0
Mr. J. A. Stuart	5	5	0
Mr. W. I. Summons	7	7	0
Mr. T. Swadling	2	2	0
Mr. C. C. Thomas	24	3	0
Timber Development Association	20	0	0
Mr. J. Trimmer	3	3	0
Tubemakers of Aust. Limited	100	0	0
Unilever (Aust.) Pty. Limited	500	0	0
Mr. A. Urquhart	8	8	0
Visiting Professor L. F. Urwick	36	15	0
Vehicle Builders Employees' Federation	100	0	0
W. Watson & Sons Ltd.	10	10	0
Mr. L. Wells	1	1	0
Mr. J. R. Westerway	10	10	0
Mr. M. F. Whiddon	9	9	0
W. D. & H. O. Wills (Aust.) Ltd.	500	0	0
Mr. S. J. Wilmott	5	5	0
Mr. C. R. Wilshire	7	7	0
Dr. A. Wilson	7	7	0
Mr. R. E. Wilson	37	6	0
Mr. J. Wolfenson	8	8	0
Wollongong City Council	50	0	0
Mr. R. W. Woodhead	5	0	0
Wormald Bros. (Aust.) Pty. Limited	100	0	0

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

School of Mathematics	£146	7	9
Department of Mathematics, Newcastle	345	6	3

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:

Tritium Research Project (Dr. J. Garnett)	£200	0	0
School of Chemical Engineering Research Fund	200	0	0
Equipment for Entomology Section (School of Biological Sciences)	200	0	0

School of Mathematics: The undermentioned firms contributed a total of £70 to the Theory of Statistics Prize Fund of the School:

Data Control Business Systems	£10	0	0
Broken Hill Proprietary Co. Ltd.	10	0	0
Macdougalls Ltd.	20	0	0
Business Equipment Pty. Ltd.	20	0	0
Peacock Bros. Pty. Ltd.	10	0	0

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. Thorburn)	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 oversea 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
<i>Economic and Financial Research Fund</i>			
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.

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 totalling £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 overseas 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 attractants 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

Australian Chemical Holdings Ltd.	10	10	0
Australian Gas Light Co. Ltd.—Prize in Department of Industrial Engineer- ing	5	5	0
Australian Glass Manufacturers Co. Pty. Ltd.	2	2	0
Australian Institute of Builders	50	0	0
Australian Institute of Cost Accountants	10	10	0
Australian Institute of Metals	12	12	0
Australian Institute of Metals, Port Kembla Branch—Prize, Wollon- gong University College	20	0	0
Australian Optical Association	21	0	0
Australian Paper Manufacturers Ltd.	10	10	0
Australian Welding Institute	5	0	0
Babcock & Wilcox (Aust.) Pty. Ltd.	10	10	0
Board of Architects	21	0	0
Boiler Inspection Association	10	10	0
Borden Chemical Co. (Aust.) Pty. Ltd.	125	0	0
Broken Hill Pty. Co. Ltd.	15	0	0
S. R. Brown Pringle, Wolff & Co.	10	0	0
Business Equipment Pty. Ltd.	20	0	0
Chamber of Manufactures of N.S.W.	50	0	0
Chemical Society of University of N.S.W.	24	0	0
Cockatoo Dock & Engineering Co. Pty. Ltd.	2	2	0
Arthur Cocks & Co. Ltd.	5	5	0
Colonial Sugar Refining Co. Ltd.	71	0	0
Conzinc Ltd.	10	10	0
Corneal Lens Corp. Pty. Ltd.	10	10	0
G. E. Crane & Sons Ltd.	155	0	0
Data Control Business Systems	10	0	0
Department of Education, N.S.W.	21	0	0
Drug Houses of Australia Ltd.	5	5	0
Duly & Hansford Ltd.	5	5	0
Dunlop Rubber (Aust.) Ltd.	105	0	0
Eagle & Globe Steel Co. Ltd.	5	5	0
Edwin V. Nixon & Partners	10	10	0
Electrolytic Zinc Co. (Aust.) Ltd.	5	5	0
English Electric Co. (Aust.) Pty. Ltd.	10	10	0
Esso Standard Oil (Aust.) Pty. Ltd.	50	0	0
Mrs. J. M. Falls	10	0	0
Ford Motor Co. of Aust.	10	0	0
General Electric Co. Aust. Pty. Limited	1	1	0
Greenwood Challoner & Co.	10	10	0
Hoover (Aust.) Pty. Ltd.	20	0	0
Inglis Hudson Trust	3	11	1
Institute of Diesel Engineers	10	10	0
Institute of Fuel	15	15	0
Institute of Quantity Surveyors	26	5	0

Institute of Radio & Electronic Engineers	30	0	0
James Hardie & Co. Pty. Ltd.	70	0	0
John Fairfax Ltd.	42	0	0
Manual Arts Teachers' Association	10	10	0
Marley Reliance Industries Pty. Ltd.	25	0	0
Master Builders' Association	200	0	0
Merck Sharp & Dohme (Aust.) Pty. Ltd.	52	10	0
Morganite Pty. Ltd.	50	0	0
Professor R. H. Myers	10	0	0
MacDougalls Ltd.	20	0	0
F. MacLurcan	5	5	0
Nestlé Co. Limited	2	2	0
North Shore Gas Co.	5	5	0
N.S.W. Geological Society	12	12	0
Optical Products Pty. Ltd.	21	0	0
Opticians & Optometrists Assoc. of N.S.W.	10	10	0
Parkes Wool Promotion Committee	25	0	0
Petroleum Refineries (Aust.) Pty. Limited	31	10	0
Mr. S. W. G. Ratcliff	10	10	0
Royal Australian Institute of Architects	25	0	0
Shakespeare Dinner Sponsors and Organ- izers—Shakespeare Prize in Depart- ment of Drama	125	0	0
Smith Kline & French Laboratories	25	0	0
Standard Telephones & Cables Pty. Ltd.	2	2	0
State Public Service R.S.S.A.I.L.A. Branch	10	10	0
Statistical Society of Australia	6	6	0
Stauffer Chemical Co.	10	10	0
Taxation Institute of Australia	10	10	0
Tooheys Ltd.	2	2	0
Tooth & Co. Ltd.	2	2	0
Unilever (Aust.) Pty. Ltd.	63	0	0
(Mr. J. Watson) Wollongong Pastoral Co.	6	6	0
F. W. Williams	21	0	0
E. S. Wolfenden	10	10	0
Henry H. York & Co. Pty. Ltd.	25	0	0

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	0	0
Research into the problems associated with sealing control in distillation processes (School of Chemical Engineering)	500	0	0
Research into improved methods for the design and construction of farm dams (School of Civil Engineering)	2,250	0	0
Study of flow characteristics of semi-circular side-channel spillways (School of Civil Engineering)	750	0	0
Study of measurement of time of concentration and hydrographic characteristics of small rural catchments using radio-active tracers (School of Civil Engineering)	500	0	0
Research on the effects of exotic softwood afforestation on water yield (School of Civil Engineering)	2,500	0	0
Research into the derivation of initial loss (School of Civil Engineering)	750	0	0
Research on desiccation failures in small dams (School of Civil Engineering)	1,050	0	0
Review and analysis of the use of plastic in the field of water engineering (School of Civil Engineering)	850	0	0
Maintenance Water Research Reference Library at Manly Vale	2,000	0	0

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	0	0
Scarifier and combine drill points	2,215	0	0

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. Congalton	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	} 17,925	0	0
(b) effects of ionising radiation on wool			
(c) relationship between yarn and fibre irregularity			

Investigation of:

(a) the permanence of wool bleaches	} 11,100	0	0
(b) blowing at temperatures near 100°C.			

Improvements in wool scouring	15,030	0	0
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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:

Source of Income	1964		1963		1962	
	Amount	%	Amount	%	Amount	%
	£		£		£	
1. State Government Grants—						
Recurrent Expenditure	3,182,175		2,768,000		2,340,000	
Schedule Projects	933,800		826,585		1,456,000	
General Research	62,500		...		...
Non-schedule Projects	134,615		...		20,000	
Total	4,313,090	47·81	3,594,585	45·28	3,816,000	49·03
2. Commonwealth Government Grants—						
Recurrent Expenditure	2,212,000		1,715,000		1,528,000	
Schedule Projects	585,058		826,585		1,111,000	
General Research	62,500		...		...
Total	2,859,558	31·70	2,541,585	32·02	2,639,000	33·90
3. Special Purposes Funds—						
Research	437,207		306,697		267,308	
Scholarships, Prizes, etc.	37,895		44,067		33,643	
Other	368,857		575,540		347,666	
Total	843,959	9·36	926,304	11·67	648,617	8·33
4. Students' Fees	909,833	10·09	802,232	10·11	590,924	7·59
5. Other General Income	94,296	1·04	72,991	0·92	89,436	1·15
Total Income	9,020,736	100·00	7,937,697	100·00	7,783,977	100·00

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:

Expenditure Headings	1964		1963		1962	
	Amount	%	Amount	%	Amount	%
	£		£		£	
1. Salaries and Staff Charges—						
Recurrent Expenditure	4,836,193		3,941,351		3,367,574	
General Research Grants	25,453		...		...
Special Purposes—Research	220,065		169,574		124,120	
Special Purposes—Other	41,127		40,968		56,539	
Total	5,122,838	62·66	4,151,893	55·08	3,548,233	45·13

Expenditure Headings	1964		1963		1962	
	Amount	%	Amount	%	Amount	%
	£		£		£	
2. New Buildings(including Sites)						
Grants for Building Projects etc. under States Grants (Universities) and Universities (Financial Assistance) Acts	853,162		1,276,063		2,555,738	
Grants—Non-schedule Projects ...	79,907		7,021		4,490	
Special Purposes—Research ...	...		1,988		42,478	
Special Purposes—Other	11,744		53,936		61,125	
Total	944,813	11·56	1,339,008	17·77	2,663,831	33·88
3. Maintenance Expenses—						
Recurrent Expenditure	1,096,037		1,055,459		792,389	
General Research	11,556		...		...
Special Purposes—Research ...	62,491		42,074		24,528	
Special Purposes—Scholarships etc.	38,694		40,447		43,960	
Special Purposes—Other	117,952		118,657		83,859	
Total	1,326,730	16·22	1,256,637	16·67	944,736	12·01
4. Major Plant and Equipment, Furniture and Library—						
Recurrent Expenses	404,260		479,501		352,506	
General Research	54,566		...		...
Grants for Building Projects etc. under States Grants (Universities) and Universities (Financial Assistance) Acts	102,881		157,514		201,750	
Grants—Non-schedule Projects ...	20,071		...		...
Special Purposes—Research ...	96,376		88,524		80,200	
Special Purposes—Other	103,693		64,554		71,890	
Total	781,847	9·56	790,093	10·48	706,346	8·98
Total Expenditure	8,176,228	100·00	7,537,631	100·00	7,863,146	100·00

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.

Funds	1964	1963	1962
	£	£	£
Recurrent Purposes	73,189	11,375	129,463
General Research... ..	33,425	...	...
Special Purposes—Research	266,886	208,612	204,074
Special Purposes—Scholarships etc.	23,161	23,960	20,341
Special Purposes—Other	1,490,190	1,395,849	1,098,424
State Government Non-schedule Projects	100,127	65,490	72,510
State and Commonwealth Government Grants for Schedule Projects under States Grants (Universities) and Universities (Financial Assistance) Acts ...	821,728	258,913	39,320
Total Funds	2,808,706	1,964,199	1,564,132

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:

Source of Income	1964		1963		1962	
	Amount	%	Amount	%	Amount	%
	£		£		£	
1. <i>State Government Grants—</i>						
Consolidated Revenue Fund ...	3,182,175	50·38	2,768,000	51·95	2,340,000	51·66
2. <i>Commonwealth Government Grants—</i>						
Recurrent	2,212,000	35·02	1,715,000	32·19	1,528,000	33·73
3. <i>Students' Fees</i>	909,833	14·41	802,232	15·05	590,924	13·04
4. <i>Other General Income</i>	11,997	0·19	43,019	0·81	71,697	1·57
Total Income	6,316,005	100·00	5,328,251	100·00	4,530,621	100·00

Expenditure was incurred as follows:

Expenditure Headings	1964		1963		1962	
	Amount	%	Amount	%	Amount	%
	£		£		£	
1. <i>Salaries and Staff Charges</i>	4,836,193	77·33	3,941,351	72·37	3,367,574	74·92
2. <i>Maintenance Expenses</i>	1,045,190	16·71	1,033,126	18·97	779,007	17·33
3. <i>Major Plant and Equipment, Furniture and Library</i>	372,808	5·96	471,862	8·66	348,149	7·75
Total Expenditure	6,254,191	100·00	5,446,339	100·00	4,494,730	100·00

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.

Chart 1

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

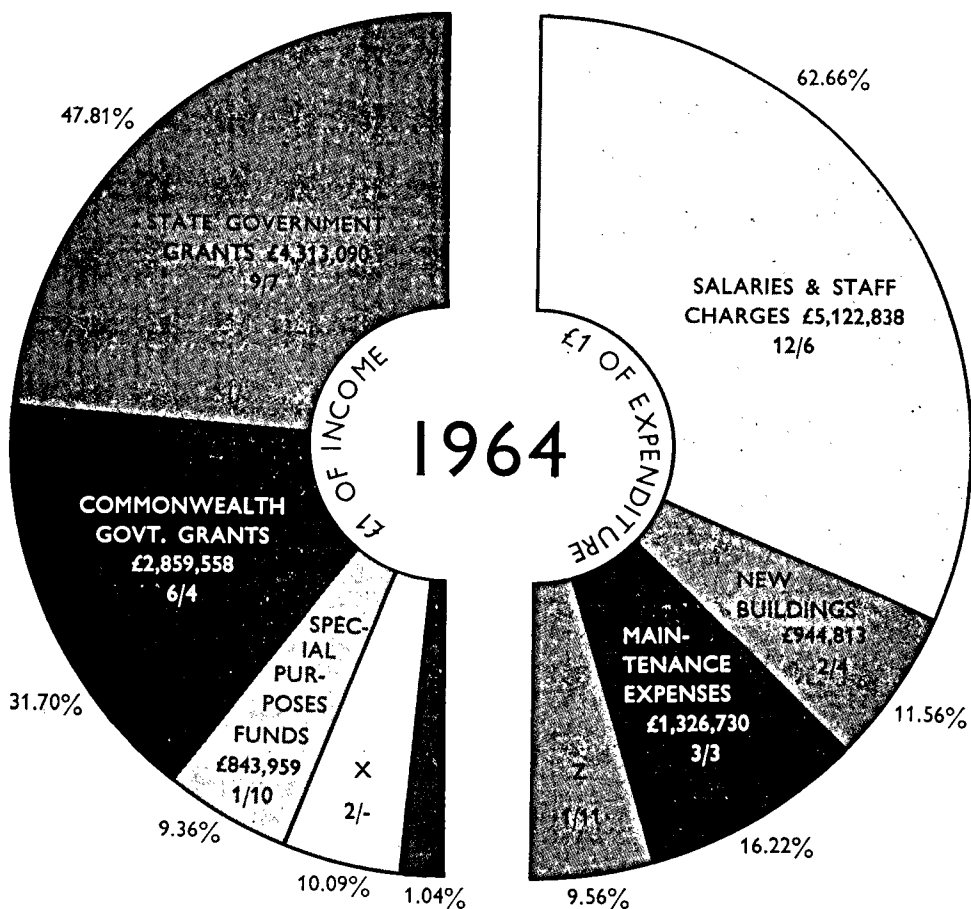
A. The amounts received from the various sources of income and incurred on the various purposes of expenditure.

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



X Students' Fees, £909,833.

Y Other General Income, £94,296.

Z Plant, Furniture and Library, £781,847.

Chart 2

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

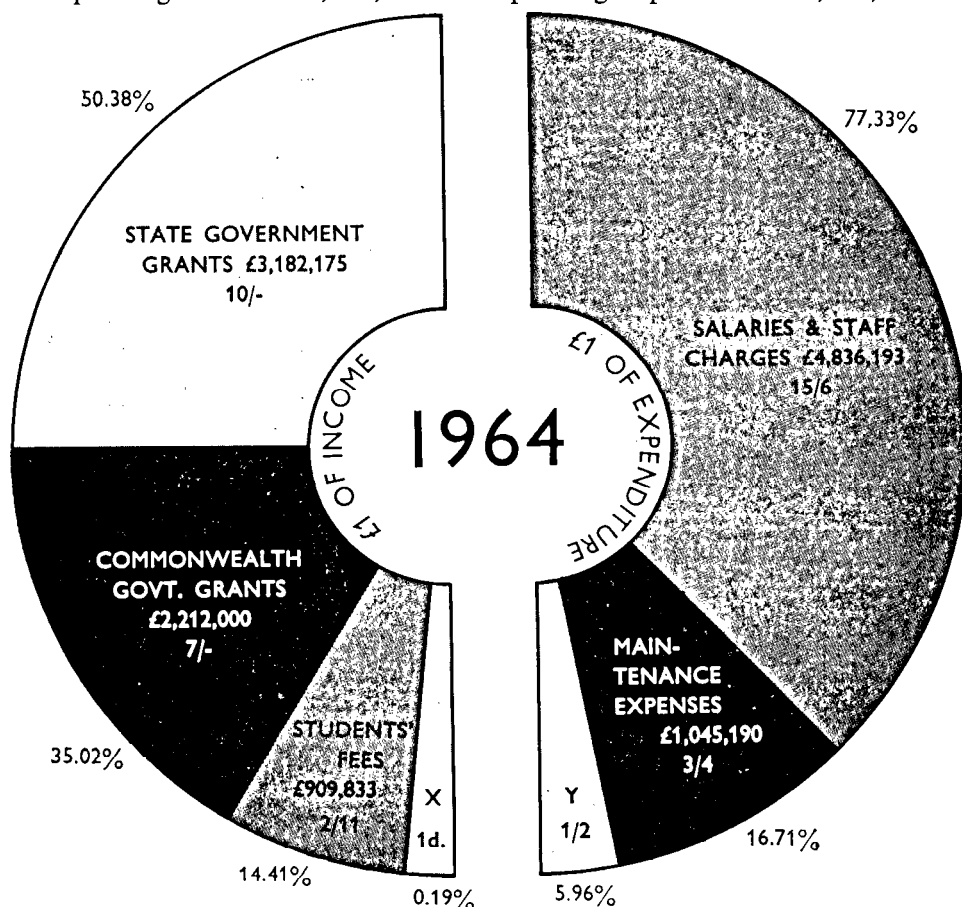
A. The amounts received from the various sources of income and incurred on the various purposes of expenditure.

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) micropalaeontological 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 Infrsizer 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 plywoods to determine the

structural properties of various timbers used in its manufacture with particular reference to performance as bulkhead sheeting 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 Univiv 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: oscillograph; 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 arterio-venous 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 vaso-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 new-born 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 post-graduate 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.

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

	Other than Newcastle University College	Newcastle University College	Total		Other than Newcastle University College	Newcastle University College	Total
	£ s. d.	£ s. d.	£ s. d.		£ s. d.	£ s. d.	£ s. d.
BALANCES—				BANK ACCOUNTS—THE RURAL			
General Funds—(as per Annexure				BANK OF NEW SOUTH			
“A” attached)	69,261 0 9	3,928 0 10	73,189 1 7	WALEs—			
Special Purposes Funds (Research)—				Kingsford Branch—The University	1,877,312 5 0	—	—
(as per Annexure “B” attached) ...	267,069 10 6	Dr. 183 5 9	266,886 4 9	of New South Wales Account ...			
Special Purposes Funds (Scholarships				Newcastle Branch—The University		26,153 0 9	1,903,465 5 9
Bursaries and Prizes)—(as per				of New South Wales Newcastle			
Annexure “C” attached)	20,600 0 11	2,561 1 8	23,161 2 7	College Account	—		
Special Purposes Funds (Other Pur-				SUNDRY ADVANCES	6,711 10 6	140 0 0	6,851 10 6
poses)—(as per Annexure “D”				INVESTMENTS (AT COST)—(as per			
attached)	1,468,623 1 2	21,566 11 9	1,490,189 12 11	Annexure “F” attached)	882,415 13 6	4,150 0 0	886,565 13 6
				SUNDRY DEBTORS	11,823 12 2	—	11,823 12 2
	1,756,292 12 7	23,944 7 8	1,780,237 0 3				
State Government—General Loan							
Grants — Miscellaneous — (as per							
Annexure “E” attached)	100,126 17 2	—	100,126 17 2				
Grants for Building Projects, Furnish-							
ings and Equipment and Capital							
Equipment under the State Grants							
(Universities) Act 1960-1964—(as							
per Annexure “H” attached)	111,001 18 3	—	111,001 18 3				
Grants for Building Projects, etc. and							
for Buildings for Halls of Residence							
and Affiliated Residential Colleges							
under the Universities (Financial							
Assistance) Act 1963-1964—(as per							
Annexure “I” attached)	710,725 18 9	—	710,725 18 9				
Grants for Special Research Purposes							
under the Universities (Financial							
Assistance) Act 1963-1964—(as per							
Annexure “J” attached)	30,854 13 8	2,570 12 3	33,425 5 11				
	£2,778,263 1 2	£30,443 0 9	£2,808,706 1 11		£2,778,263 1 2	£30,443 0 9	£2,808,706 1 11

J. P. BAXTER,
Vice-Chancellor.

J. O. A. BOURKE,
Bursar.

E. H. DAVIS,
Accountant.

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.

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

THE UNIVERSITY OF

STATEMENT OF INCOME

1ST JANUARY, 1964 TO

GENERAL

EXPENDITURE									
					Other than Newcastle University College		Newcastle University College		Total
					£	s. d.	£	s. d.	£ s. d.
Salaries and Wages	...	...	...	...	4,019,815	11 10	519,873	10 2	4,539,689 2 0
Employer's Contribution to Superannuation Fund	...	...	...	...	143,815	10 0	20,098	11 7	163,914 1 7
Payroll Tax	...	...	...	...	103,539	12 10	13,681	4 3	117,220 17 1
Workers' Compensation Insurance Premiums and Other Staff Charges	...	...	...	...	14,298	19 8	1,070	6 7	15,369 6 3
Total Salaries and Associated Charges	...	...	...	...	4,281,469	14 4	554,723	12 7	4,836,193 6 11
Teaching and Research—Departmental Maintenance and Minor Equipment	...	...	...	...	479,167	14 3	57,752	16 0	536,920 10 3
Plant	...	...	...	...	199,579	1 0	20,402	14 10	219,981 15 10
Repairs, Alterations and General Maintenance of Buildings	...	...	...	...	141,468	3 9	7,932	13 2	149,400 16 11
Books, Periodicals and Pamphlets	...	...	...	...	106,443	6 8	35,651	1 10	142,094 8 6
Power, Lighting and Heating	...	...	...	...	72,240	18 9	4,273	6 11	76,514 5 8
Administration and General Overhead—Materials, Travelling Expenses, etc.	...	...	...	...	64,370	8 2	5,763	13 0	70,134 1 2
Telephones and Advertising	...	...	...	...	63,859	9 8	5,745	7 2	69,604 16 10
Printing and Postages	...	...	...	...	46,064	0 3	6,385	14 8	52,449 14 11
Contributions, Grants and Subscriptions	...	...	...	...	37,705	0 0	7,500	0 0	45,205 0 0
Furniture	...	...	...	...	37,641	14 1	4,542	9 5	42,184 3 6
Expenses of New Appointments	...	...	...	...	19,673	5 10	4,400	9 4	24,073 15 2
Rates and Property Insurance	...	...	...	...	22,282	11 4	1,099	13 2	23,382 4 6
Examination Expenses	...	...	...	...	13,485	16 6	2,585	18 5	16,071 14 11
Expenses of Motor Vehicles	...	...	...	...	10,660	3 10	460	0 8	11,120 4 6
Bursaries	...	...	...	...	5,322	6 6	—	—	5,322 6 6
Rentals	...	...	...	...	2,432	7 7	—	—	2,432 7 7
Legal Fees and Similar Charges	...	...	...	...	150	17 6	50	0 0	200 17 6
Miscellaneous Expenses	...	...	...	...	11,841	19 7	1,361	18 10	13,203 18 5
Total Expenditure	...	...	...	...	5,615,858	19 7	720,631	10 0	6,336,490 9 7
Balance carried forward 31st December, 1964	...	...	...	...	69,261	0 9	3,928	0 10	73,189 1 7
					£5,685,120	0 4	£724,559	10 10	£6,409,679 11 2

NEW SOUTH WALES

D EXPENDITURE

DECEMBER, 1964

FINDS

INCOME											
						Other than Newcastle University College	Newcastle University College		Total		
						£	s.	d.	£	s.	d.
Fees—											
Students' Fees	...	...	...	...	...	768,936	4	7	88,068	18	6
Library Fees	...	...	...	...	...	45,443	6	8	7,385	0	0
						814,379	11	3	95,453	18	6
State Grants for Recurrent Expenditure—											
Received	...	...	...	...	...	2,579,636	0	0	322,439	0	0
Accrued	...	...	...	...	...	236,903	18	6	43,196	1	6
						2,816,539	18	6*	365,635	1	6*
Total Fees and State Grants						3,630,919	9	9	461,089	0	0
Commonwealth Grants for Recurrent Expenditure—											
Received	...	...	...	...	...	1,770,439	0	0	224,561	0	0
Accrued	...	...	...	...	...	192,210	0	0	24,790	0	0
						1,962,649	0	0*	249,351	0	0*
Commonwealth Grants for Residential Colleges						11,805	0	0	—		
Less Paid to Residential Colleges	...	...	...	...	...	11,805	0	0	—		
						—			—		
Other Income						84,374	12	2	9,921	10	10
Total Income						5,677,943	1	11	720,361	10	10
Balance brought forward 1st January, 1964						7,176	18	5	4,198	0	0
						£5,685,120	0	4	£724,559	10	10
									£6,409,679	11	2

Notional distribution only.

THE UNIVERSITY OF
SPECIAL PU
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STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR T

Fund	Balances Brought Forward 1st Jan., 1964	Receipts 1964	Total
	£ s. d.	£ s. d.	£ s. d.
OTHER THAN NEWCASTLE UNIVERSITY			
COLLEGE—			
American Chemical Society Petroleum Research Fund			
Grant—Research on Complexes in Catalysis ... ..	.....	2,094 11 4	2,094 11 4
The Asthma Foundation of New South Wales Grants—			
Research Fellowship—Dr. G. B. Field ... ..	.....	2,290 0 0	2,290 0 0
Research in School of Pathology ... ..	.....	3,232 0 0	3,232 0 0
Atmospheric Pollution Research Fellowship	4,028 18 4	100 0 0	4,128 18 4
Australian Atomic Energy Commission Grants—			
Study of Surface Properties of Beryllium Oxide ... ..	.....	700 0 0	700 0 0
Radiation Stability of Chemical Compounds	497 15 1	1,000 0 0	1,497 15 1
Research Studentship—R. M. Hoskinson	40 8 1	.....	40 8 1
Graduate Teaching Programme in Nuclear Sciences...	1 4 9	.....	1 4 9
Research into High Temperature Uranium and			
Thorium Fuel Elements	156 12 10	.....	156 12 10
Heat Transfer between Solids and Gases at High			
Temperatures	948 1 10	.....	948 1 10
Study of HIFAR Fuel Processing in Australia	4,451 14 11	.....	4,451 14 11
Reaction of Metals with Compound Gases	881 6 6	.....	881 6 6
Reaction of Ferrous Alloys and Certain Other			
Materials of Construction with Complex Gases at			
High Temperatures ... ..	.....	5,450 0 0	5,450 0 0
Research Studentship—L. A. Baker	653 18 0	.....	653 18 0
Investigation into the Insulation of Enclosed Cavities			
in which Heat Transfer occurs by Natural Con-			
vection ... ..	.....	5,100 0 0	5,100 0 0
Resonance Absorption and Temperature Dependence	1,145 2 7	2,100 0 0	3,245 2 7
Effect of Radiation upon Multi-component Model			
Systems of Biological Relevance	18 4 4	.....	18 4 4
Research into Punched Card Storage and Retrieval of			
Nuclear Engineering Information	201 7 2	Dr.201 7 2†	.....
Optimisation of the Factors Governing Production of			
Cobalt-60	1,671 12 10	.....	1,671 12 10
Australian Automobile Association Grants—			
Study on Road Use and Road Financing in Australia	222 18 0	.....	222 18 0
Fellowship in School of Traffic Engineering	506 0 8	2,000 0 0	2,506 0 8
Australian Broadcasting Control Board Post-Television			
Social Survey	234 16 5	.....	234 16 5
Australian Dairy Produce Board Grant—Studies on			
Casein and Cheese ... ..	.....	650 0 0	650 0 0
Australian Institute of Nuclear Science and Engineering			
Grants—			
Investigation of the Mechanism of Recoil Carbon-14			
and Recoil Labelling of Organic Molecules	9 8 11	.....	9 8 11
Application of Electron Spin Resonance (ESR)			
Spectroscopy to the Study of Radiation Stability			
of Organic Compounds	3 1 8	.....	3 1 8
Facilities for Research into Radio-Chemical Aspects of			
the Separation of the Higher Actinide Elements by			
Solvent Extraction and Ion Exchange Process	189 15 4	.....	189 15 4
Research on Radiation Catalysis	46 9 11	100 0 0	146 9 11
Post-doctoral Fellowship—Dr. D. J. Corderoy	492 0 10	1,234 8 9	1,726 9 7
Post-doctoral Fellowship—Dr. R. J. Hussey ... ..	.....	2,817 16 0	2,817 16 0
Post-graduate Research Studentship—A. J. Morton...	26 9 8	.....	26 9 8
<i>Carried Forward:</i>	16,427 8 8	28,667 8 11	45,094 17 7

†Refund of balance of grant.

ANNEXURE "B"

NEW SOUTH WALES

ROSES FUNDS

(Arch)

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

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1,085 8 10	.....	.....	1,085 8 10	1,009 2 6
2,155 0 3	.....	.....	2,155 0 3	134 19 9
1,249 3 7	181 11 6	57 12 6	1,488 7 7	1,743 12 5
2,838 18 5	20 18 3	250 0 0	3,109 16 8	1,019 1 8
.....	660 9 2	.....	660 9 2	39 10 10
899 1 11	.....	.....	899 1 11	598 13 2
.....	1 4 9	.....	1 4 9	40 8 1
.....
.....	.....	.....	.....	156 12 10
.....	306 3 6	3 6	306 7 0	641 14 10
599 16 3	77 19 1	17 4	678 12 8	3,773 2 3
523 1 9	.....	.....	523 1 9	358 4 9
.....
156 9 2	3,138 15 2	.....	3,295 4 4	2,154 15 8
155 17 9	404 18 9	.....	560 16 6	93 1 6
.....
46 0 6	1,889 3 10	.....	1,935 4 4	3,164 15 8
1,298 8 11	95 16 0	92 14 9	1,486 19 8	1,758 2 11
.....	18 4 4	.....	18 4 4	.....
.....
Cr. 50 14 10	388 17 5	.....	338 2 7	1,333 10 3
.....	.....	222 18 0	222 18 0	.....
1,694 11 7	.....	90 13 0	1,785 4 7	720 16 1
.....
174 19 7	.....	4 4 10	179 4 5	55 12 0
379 14 6	.....	14 10 4	394 4 10	255 15 2
.....
.....	9 8 11	.....	9 8 11	.....
.....	3 1 8	.....	3 1 8	.....
.....	20 4 2	.....	20 4 2	169 11 2
.....	64 1 5	.....	64 1 5	82 8 6
1,651 7 9	.....	75 1 10	1,726 9 7	.....
763 19 8	.....	610 5 6	1,374 5 2	1,443 10 10
.....	35 12 1	.....	35 12 1	Dr. 9 2 5
15,621 5 7	7,316 10 0	1,419 1 7	24,356 17 2	20,738 0 5

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CA

Fund	Balances Brought Forward 1st Jan., 1964	Receipts 1964	Total
	£ s. d.	£ s. d.	£ s. d.
<i>Brought Forward:</i> ...	16,427 8 8	28,667 8 11	45,094 17
Australian Institute of Nuclear Science and Engineering Grants—(contd.)—			
Post-graduate Research Studentship—G. W. Cox ...	425 19 0	Dr. 118 19 4*	306 19
Neutron Diffraction Studies of Reactive Metals ...	368 15 10	1,467 0 0	1,835 15 1
Rates of Heat Transfer between Fins and in Slots of Cylindrical Surfaces ...	.....	950 0 0	950 0
Slowing Down and Resonance Absorption in Nuclear Reactors ...	46 10 11	.....	46 10 1
Radiation Damage Studies in Textile Fibres and Related High Polymers ...	42 16 11	500 0 0	542 16 1
The Effect of Irradiation on Endoparasite Development ...	.....	260 0 0	260 0
Research on Fast Neutron Spectrometer ...	106 4 0	.....	106 4
An Investigation of Pulsed Neutron Techniques in Reaction Physics ...	.....	1,050 0 0	1,050 0
Australian Mineral Industries Research Association Grant—			
Wire Rope Research Project ...	.....	3,935 6 8	3,935 6 8
Australian Paper Manufacturers' Research Fellowship ...	Dr. 11 8	.....	Dr. 11 8
Australian Road Research Board Grants—			
Reinforced Concrete Beams in Combined Bending, Shear and Torsion ...	.....	2,275 0 0	2,275 0
Fellowship in Traffic Engineering ...	Dr. 918 0 4	4,363 8 4	3,445 8
Australian Wool Board Grants—			
The Selection Efficiency of 2- and 4-Tooth Merino Rams ...	.....	2,575 0 0	2,575 0
Impact of Nutritional Factors, Yass River Valley ...	.....	420 0 0	420 0
Continuous Wool Processing ...	.....	7,487 0 0	7,487 0
Banana Growers Federation Co-operative Ltd. Grant—			
Research into Spray-drying of Bananas ...	137 16 0	.....	137 16
Adolph Basser Trust Scholarship in Nuclear Engineering ...	13 4	.....	13 4
Boots' Research Fellowship in Wool Technology ...	21 15 5	4,068 13 2	4,090 8
CIBA Limited Grant—Research on Phosphoinositides ...	1,075 5 2	3,738 0 0	4,813 5
Coal Carbonisation Research Fund ...	1 4 5	.....	1 4 5
Colonial Sugar Refining Co. Ltd. Grants—			
Research into the Fluidised Bed-burning of Australian Gypsums ...	160 4 2	.....	160 4 2
Evaluation of the Efficacy of Calcium Sucrose Phosphate as an Inhibitor of Dental Caries ...	.....	1,000 0 0	1,000 0
Commonwealth Post-graduate Awards to 1962 ...	2,841 5 11	Dr. 2,841 5 11†	.....
Commonwealth Post-graduate Awards, 1963 ...	12,688 14 10	Dr. 3,899 14 10‡	8,789 0
Commonwealth Post-graduate Awards, 1964 ...	.....	72,400 0 0	72,400 0
Commonwealth Post-graduate Research Awards for Overseas Students ...	3,606 15 2	5,200 0 0	8,806 15 2
Commonwealth Scientific and Industrial Research Organisation Grants—			
Drying Shrinkage of Concrete ...	.....	1,850 0 0	1,850 0
The Strength and Durability of Epoxy-bonded Concrete Members ...	.....	1,850 0 0	1,850 0
Commonwealth Scientific and Industrial Research Organisation Project and Reserve Bank of Australia Grant from Rural Credits Development Fund—Research into Agricultural Engineering ...	35 2 3	.....	35 2 3
H. G. Conde Memorial Research Fellowship ...	1,012 11 10	1,100 0 0	2,112 11 10
Council on Library Resources Inc., (U.S.A.) Grant—			
Alphabetical Subject Indexing Especially in Relation to the Relative Indexing of Classifications ...	.....	3,346 8 5	3,346 8 5
Dental Health Education and Research Foundation Grant—			
The Dentist/Patient Relationship ...	.....	2,000 0 0	2,000 0
Department of Civil Aviation Grant—Study of the Efficiency of Departmental Airways Operations Staff ...	57 3 0	500 0 0	557 3 0
Department of Main Roads, N.S.W. Grants—			
Contribution to Highway and Traffic Research ...	22,547 1 3	50,000 0 0	72,547 1 3
<i>Carried Forward:</i> ...	60,684 16 1	194,143 5 5	254,828 1 6

*Refund of balance of grant.

†Transfer of previous year's balance to General Funds.

‡Transfer of balance to General Funds.

ANNEXURE "B"—continued

DAR YEAR 1st JANUARY, 1964 TO 31st DECEMBER, 1964—continued

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
15,621 5 7	7,316 10 0	1,419 1 7	24,356 17 2	20,738 0 5
136 19 8	170 0 0	.....	306 19 8	.....
1,129 18 6	300 7 10	41 6 5	1,471 12 9	364 3 1
.....	.....	.....	.....	950 0 0
.....	.....	.....	.....	46 10 11
.....	248 13 3	.....	248 13 3	294 3 8
.....	17 9 4	.....	17 9 4	242 10 8
.....	62 16 0	.....	62 16 0	43 8 0
.....	617 0 0	.....	617 0 0	433 0 0
1,133 18 7	175 12 1	44 0 5	1,353 11 1	2,581 15 7
Cr. 11 8	.....	.....	Cr. 11 8	.....
2,486 1 11	120 11 6	52 6 0	2,658 19 5	Dr. 383 19 5
2,509 4 10	.....	61 19 10	2,571 4 8	874 3 4
.....	1 14 3	84 13 8	86 7 11	2,488 12 1
2,333 12 2	165 0 0	22 7 3	2,520 19 5	420 0 0
.....	.....	.....	.....	4,966 0 7
13 4	.....	.....	13 4	137 16 0
2,865 12 2	800 18 8	131 16 8	3,798 7 6	.....
1,271 12 8	.....	55 4 1	1,326 16 9	292 1 1
.....	1 4 5	.....	1 4 5	3,486 8 5
.....	104 0 0	.....	104 0 0	.....
.....	.....	.....	.....	56 4 2
8,789 0 0	.....	.....	8,789 0 0	1,000 0 0
53,764 5 2	.....	.....	53,764 5 2	.....
1,467 14 8	1,379 16 5	99 11 3	2,947 2 4	18,635 14 10
.....	13 15 3	.....	13 15 3	5,859 12 10
1,171 7 4	.....	.....	1,171 7 4	1,836 4 9
.....	35 2 3	.....	35 2 3	678 12 8
980 6 11	.....	.....	980 6 11	.....
.....	.....	.....	.....	1,132 4 11
.....	.....	.....	.....	3,346 8 5
45 14 0	7 0 5	2 5 10	55 0 3	1,944 19 9
198 12 6	.....	5 2 7	203 15 1	353 7 11
.....	34,762 7 6	3,739 19 9	38,502 7 3	34,044 14 0
95,905 8 4	46,299 19 2	5,759 15 4	147,965 2 10	106,862 18 8

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CALE

Fund	Balances Brought Forward 1st Jan., 1964			Receipts 1964			Total		
	£	s.	d.	£	s.	d.	£	s.	d.
<i>Brought Forward:</i> ...	60,684	16	1	194,143	5	5	254,828	1	6
Department of Main Roads, N.S.W. Grants—(contd.) ...									
Research on Mild Steel Structural Members ...	3,692	4	8	.....			3,692	4	8
Department of Nuclear and Radiation Chemistry Research Fund ...	500	0	0	.....			500	0	0
Department of Public Health Grant—Research into Chest X-ray Survey Campaign, N.S.W. ...	1,204	8	5	500	0	0	1,704	8	5
Department of Public Works Grant—Research in Industrial Ceramics ...	24	16	6	.....			24	16	6
Elanco Products Company Grant—Studies on Sheep Breeding Research ...	.....			550	0	0	550	0	0
Farm Management Study Groups Account ...	200	0	0	374	0	6	574	0	6
General Flock Testing Research Fund ...	1,190	5	0	1,699	6	3	2,889	11	3
General Motors-Holden's Grants—Post-graduate Research Fellowship—D. P. Dunne ...	.....			1,400	0	0	1,400	0	0
Post-graduate Research Fellowship—B. J. Restall ...	924	17	3	.....			924	17	3
Post-graduate Research Fellowship—R. G. Mitchell ...	904	8	9	Dr. 378	1	9*	526	7	0
Post-graduate Research Fellowship—B. L. Gulson ...	.....			1,500	0	0	1,500	0	0
Graziers Association of N.S.W. Grant—Burdekin Trust Fellowship in Parasitology ...	576	16	8	2,516	5	0	3,093	1	8
Imperial Chemical Industries of Australia and New Zealand Ltd. Research Fellowship ...	229	17	3	1,100	0	0	1,329	17	3
Impulse Generator Research Fund ...	2,692	15	5	.....			2,692	15	5
Joint Coal Board Research Fellowship—S. St. J. Warne ...	100	11	5	.....			100	11	5
The Leukemia Research Foundation Grant ...	250	0	0	.....			250	0	0
Life Insurance Medical Research Fund of Australia and New Zealand Grants—Research in School of Physiology—Professor P. I. Korner ...	1,249	3	2	3,240	0	0	4,489	3	2
Research in School of Physiology—Dr. Mary J. Scott ...	.....			600	0	0	600	0	0
Long Range Weather Forecasting Trust Research Grant ...	135	11	6	.....			135	11	6
Merck, Sharp and Dohme (Aust.) Pty. Ltd. Research Fellowship in Medicine ...	2,961	15	2	2,255	16	0	5,217	11	2
Mobil Oil Australia Pty. Ltd. Grants—The Mobil Lubrication Research Project ...	1,000	0	0	500	0	0	1,500	0	0
The Mobil Highway Engineering Fellowship ...	.....			1,150	0	0	1,150	0	0
Mohair Advisory Board (South Africa) Grant—Research in Various Aspects of Mohair ...	.....			1,250	0	0	1,250	0	0
Monsanto Chemicals Australia Ltd. Grant for Research ...	133	0	8	.....			133	0	8
National Gas Association of Australia Grant—Removal of Organic Sulphur from Town Gas ...	48	14	11	.....			48	14	11
National Health and Medical Research Council Grants—Post-graduate Scholarship, Department of Microbiology ...	1,350	8	6	927	8	6†	2,277	17	0
Research in Department of Biochemistry—Dr. K. G. Rienits ...	.....			699	0	0	699	0	0
Research in Department of Microbiology—Dr. C. H. Doy ...	.....			600	0	0	600	0	0
Research in School of Medicine—Prof. A. W. Steinbeck ...	232	13	11	2,614	0	1†	2,846	14	0
Training Grant—School of Medicine ...	825	0	0	1,500	0	0	2,325	0	0
Research in School of Anatomy—Prof. M. J. Blunt ...	223	7	10	987	5	8†	1,210	13	6
Research in School of Anatomy—Dr. G. S. Molyneux ...	.....			260	0	0	260	0	0
Studies on Anaemia in New Guinea ...	.....			915	10	0	915	10	0
Research in School of Physiology—Prof. I. Darian-Smith ...	437	0	8	Dr. 135	11	11†	301	8	9
<i>Carried Forward:</i> ...	81,772	13	9	220,768	3	9	302,540	17	6

*Transfer of portion of grant to Post-graduate Research Fellowship—B. L. Gulson.

†Includes adjustment of portion of previous grant.

ANNEXURE "B"—continued

FISCAL YEAR 1st JANUARY, 1964 TO 31st DECEMBER, 1964—continued

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d. 95,905 8 4	£ s. d. 46,299 19 2	£ s. d. 5,759 15 4	£ s. d. 147,965 2 10	£ s. d. 106,862 18 8
2,600 11 1	11 10 8	26 13 10	2,638 15 7	1,053 9 1
.....	500 0 0	.....	500 0 0	.....
1,002 9 5	47 15 0	31 14 11	1,081 19 4	622 9 1
.....	.....	.....	.....	24 16 6
.....	122 0 0	335 13 2	457 13 2	92 6 10
.....	184 12 8	236 12 11	421 5 7	152 14 11
179 7 8	1,522 3 6	461 12 0	2,163 3 2	726 8 1
904 6 8	.....	.....	904 6 8	495 13 4
703 2 1	221 15 2	.....	924 17 3	.....
.....	284 7 4	.....	284 7 4	241 19 8
1,048 16 5	252 9 6	.....	1,301 5 11	198 14 1
1,974 10 5	767 10 6	420 2 3	3,162 3 2	Dr. 69 1 6
1,100 4 3	.....	.....	1,100 4 3	229 13 0
.....	1,640 15 0	.....	1,640 15 0	1,052 0 5
.....	.....	.....	.....	100 11 5
.....	.....	.....	.....	250 0 0
1,004 3 0	2,911 0 7	43 12 4	3,958 15 11	530 7 3
.....	65 18 0	.....	65 18 0	534 2 0
.....	.....	9 6 8	9 6 8	126 4 10
1,786 19 5	74 16 2	78 9 5	1,940 5 0	3,277 6 2
1,150 0 0	338 0 3	.....	338 0 3	1,161 19 9
.....	.....	.....	1,150 0 0	.....
.....	.....	.....	.....	1,250 0 0
.....	70 19 4	.....	70 19 4	62 1 4
.....	.....	.....	.....	48 14 11
1,080 2 10	1,137 3 5	.....	2,217 6 3	60 10 9
.....	539 0 0	.....	539 0 0	160 0 0
237 14 5	.....	8 7 2	246 1 7	353 18 5
1,361 17 8	371 5 10	38 2 0	1,771 5 6	1,075 8 6
795 0 0	452 6 6	240 0 0	1,487 6 6	837 13 6
788 5 9	217 13 10	23 1 9	1,029 1 4	181 12 2
.....	40 5 7	.....	40 5 7	219 14 5
875 3 11	.....	21 17 7	897 1 6	18 8 6
Cr. 3 4	200 8 9	.....	200 5 5	101 3 4
114,498 0 0	58,273 16 9	7,735 1 4	180,506 18 1	122,033 19 5

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CAL

Fund	Balances Brought Forward 1st Jan., 1964			Receipts 1964			Total		
	£	s.	d.	£	s.	d.	£	s.	d.
<i>Brought Forward:</i> ...	81,772	13	9	220,768	3	9	302,540	17	6
National Heart Foundation of Australia Grants—									
Research in Department of Biochemistry—									
Dr. A. M. Snoswell ...	65	9	4	1,170	5	11*	1,235	15	3
Research in School of Medicine—Dr. D. E. L. Wilcken ...	1,470	14	1	1,130	0	0	2,600	14	1
Senior Research Fellowship—Dr. D. E. L. Wilcken ...	158	5	10	3,250	18	8*	3,409	4	6
Research in School of Medicine—Dr. H. Colebatch ...				2,361	0	0	2,361	0	0
Research in School of Surgery—Assoc. Prof. J. B. Johnston ...	296	7	2	Dr. 296	7	2†			
Research in School of Pathology—Dr. I. A. Carr ...	217	12	3	Dr. 1	15	2*	215	17	1
Research in School of Physiology—Prof. P. I. Korner ...	728	15	3	1,321	4	9*	2,050	0	0
Research in School of Physiology—Dr. G. D. Thorburn ...	2,235	0	0	3,400	0	0	5,635	0	0
Research in School of Physiology—Dr. A. W. T. Edwards ...	22	16	4	1,480	0	0	1,502	16	4
Research Fellowship—Dr. G. S. Stokes ...	Dr. 109	6	5	1,248	0	8*	1,138	14	3
Research in School of Physiology—Dr. R. A. B. Holland ...	2,100	10	9	303	9	3*	2,404	0	0
National Union of Australian University Students Grants—									
Research on Problem Solving in Mathematics and Physics ...	1,720	17	1	Dr. 1,475	0	0‡	245	17	1
A Study of the Use of Student Opinion on the Appraisal of University Teaching ...				1,475	0	0‡	1,475	0	0
N.S.W. State Cancer Council Research Grants—									
Dr. J. L. Garnett—School of Chemistry ...	604	8	3	Dr. 6	8	7*	597	19	8
Dr. P. S. Clezy—School of Chemistry ...	194	8	11	Dr. 40	8	11*	154	0	0
Dr. E. M. Stephenson—School of Biological Sciences ...	307	18	5	Dr. 64	10	5*	243	8	0
J. F. Williams—School of Biological Sciences ...	424	14	11	982	5	1*	1,407	0	0
Dr. B. R. A. O'Brien—School of Anatomy ...	1,293	14	5	1,036	9	0*	2,330	3	5
The New South Wales College of Nursing and others Grant for Research—Associate Professor A. A. Congalton ...	569	8	9	375	0	0	944	8	9
Nuffield Foundation Grants—									
Joint Research Project with the University of Sydney on Crystal Structure Analyses Using X-ray Data from a Rotating Anode Source at Low Temperature	3,395	10	1				3,395	10	1
Research Chair in School of Mechanical Engineering	21,997	15	8				21,997	15	8
Oil and Colour Chemists Association Research Scholarship—B. E. Thompson ...	75	0	0	Dr. 75	0	0†			
Pasture Research Programme—Mr. J. D. McFarlane ...	1,355	8	8	82	4	6	1,437	13	2
Perpetual Trustee Company Limited Grants from Bowling Bequest—									
Research in School of Medicine—Dr. J. W. Lance ...				1,010	0	0	1,010	0	0
Research in School of Medicine—Prof. I. Darian-Smith				1,200	0	0	1,200	0	0
Refrigeration and Air Conditioning Research Fund	540	13	3	950	0	0	1,490	13	3
Research and Other Special Purposes Fund of the School of Surgery ...	1,379	10	10				1,379	10	10
Research Corporation (U.S.A.) Grant—									
Study of Turbulent Density Currents ...				1,203	4	11	1,203	4	11
Research in Industrial Relations—Donations ...	1,426	14	0	800	0	0	2,226	14	0
Research Institute of Nuclear Engineering—Grant for Purchase of Plant and Other Purposes ...	24,950	9	2				24,950	9	2
Research into Administrative Staffing Structure of Hospitals Service ...	Dr. 14	4	7				Dr. 14	4	7
Reserve Bank of Australia Grants from Economic and Financial Research Fund—									
The Impact of Automation on a Section of Australia's White Collar Work Force ...	883	9	4	300	0	0	1,183	9	4
The Australian Agricultural Machinery Industry ...	47	14	10				47	14	10
Restrictive Practices and Monopolies and Pricing and Investment Policies of Public Undertakings ...	731	16	7				731	16	7
<i>Carried Forward:</i> ...	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.

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

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
114,498 0 0	58,273 16 9	7,735 1 4	180,506 18 1	122,033 19 5
1,168 5 2	18 2 9	49 7 4	1,235 15 3	.....
575 14 0	1,885 0 10	28 15 10	2,489 10 8	111 3 5
3,183 11 4	5 8 0	94 11 1	3,283 10 5	125 14 1
.....	119 7 3	.....	119 7 3	2,241 12 9
.....
877 2 1	194 0 2	.....	194 0 2	21 16 11
.....	687 2 4	37 10 3	1,601 14 8	448 5 4
1,127 9 2	3,776 13 10	48 13 10	4,952 16 10	682 3 2
.....	1,251 10 2	.....	1,251 10 2	251 6 2
1,125 13 3	9 14 0	.....	1,135 7 3	3 7 0
594 18 6	794 2 8	25 12 2	1,414 13 4	989 6 8
.....	Cr. 28 1 11	.....	Cr. 28 1 11	273 19 0
952 3 0	65 1 11	47 12 0	1,064 16 11	410 3 1
8 18 6	557 8 11	.....	566 7 5	31 12 3
44 0 5	59 1 0	.....	103 1 5	50 18 7
.....	214 8 0	.....	214 8 0	29 0 0
1,008 5 2	280 0 0	35 4 5	280 0 0	1,127 0 0
582 0 0	.....	17 16 11	1,043 9 7	1,286 13 10
.....	5 12 6	.....	605 9 5	338 19 4
.....	1,969 18 1	26 11 6	1,996 9 7	1,399 0 6
5,022 14 1	.....	151 9 2	5,174 3 3	16,823 12 5
.....
913 16 8	88 19 5	156 2 1	1,158 18 2	278 15 0
.....	1,010 0 0	.....	1,010 0 0	.....
.....	1,231 0 9	.....	1,231 0 9	Dr. 31 0 9
.....	611 6 0	.....	611 6 0	879 7 3
36 17 4	137 12 10	15 2 6	189 12 8	1,189 18 2
.....	.....	21 4 0	21 4 0	1,182 0 11
756 12 8	16 18 0	50 8 7	823 19 3	1,402 14 9
.....	1,003 3 3	.....	1,003 3 3	23,947 5 11
.....	Cr. 14 4 7	.....	Cr. 14 4 7	.....
318 5 0	.....	27 8 5	345 13 5	837 15 11
.....	.....	.....	.....	47 14 10
.....	.....	32 6 7	32 6 7	699 10 0
132,794 6 4	74,223 2 11	8,600 18 0	215,618 7 3	179,113 15 11

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CAL

Fund	Balances Brought Forward 1st Jan., 1964			Receipts 1964			Total		
	£	s.	d.	£	s.	d.	£	s.	d.
<i>Brought Forward:</i> ...	150,844	6	11	243,887	16	3	394,732	3	2
Reserve Bank of Australia Grants from Rural Credits									
Development Fund—									
Isotopic Studies of Ground Water Resources of									
Alluvial Formations ...				1,000	0	0	1,000	0	0
Modification of Natural Fibres by Radiation Copoly-									
merisation with Synthetics ...				1,000	0	0	1,000	0	0
Relationship of Rainfall and Run-off ...	1,015	5	6				1,015	5	6
Improved Design Techniques for Spray Irrigation ...	138	10	6				138	10	6
Storm Analysis for Farm Dam Design ...	2,000	0	0	2,000	0	0	4,000	0	0
Seepage Control in Farm Dams ...	44	2	5				44	2	5
The Sealing of Catchments to Increase Run-off ...	1,497	3	4	1,500	0	0	2,997	3	4
Chemical and Botanical Analyses and Research on									
Feed Intake of Ewes on Pasture at Canberra ...	1,256	5	9	1,200	0	0	2,456	5	9
Determination of the Net Energy Storage and Bio-									
energetics of Sheep ...	2,735	16	2				2,735	16	2
A Biochemical Study of Fungal Filaments Involved in									
the Stability of Soil Aggregates and Other Soil									
Properties ...	389	13	4				389	13	4
Study of Streptomyces Species from Agricultural Soils	3,300	0	0	3,700	0	0	7,000	0	0
Study of Microbial Response to the Physico-chemical									
Environment ...				4,119	0	0	4,119	0	0
Investigation of Grain Damage by Mechanical Bulk-									
handling Equipment ...	1,150	0	0				1,150	0	0
Study of Forced and Free Flow of Granular Materials									
through Open and Closed Conduits ...	570	0	0	500	0	0	1,070	0	0
Rothman's University Endowment Fund Grant—Post-									
doctoral Research Fellowship ...	4	15	9	Dr. 4	15	9†			
Rural Bank of New South Wales Grant—Investigation of									
Aspects of Water Problem in Australia ...	462	15	4				462	15	4
Sandoz Australia Pty. Ltd. Research Fellowship in Medi-									
cine ...	277	14	0	4,227	4	2	4,504	18	2
Schering Research Grant—Study of Progestogens ...	800	0	0	703	0	4	1,503	0	4
School of Chemical Engineering Research Fund ...	224	0	7	240	18	8	464	19	3
School of Civil Engineering Research Fund ...	86	16	0	2	0	0	88	16	0
School of Electrical Engineering Research Fund ...	1,472	19	11	126	5	0	1,599	4	11
School of Metallurgy Research and Special Activities Fund	847	6	3	66	7	5	913	13	8
School of Nuclear Engineering Post-graduate Research									
Fund ...	1,627	16	8				1,627	16	8
School of Physics and Optometry Research Fund ...	24	0	0	52	14	0	76	14	0
School of Wool Technology General Research Fund ...	39	7	7				39	7	7
School of Wool Technology No. 1 Research Unit, Mul-									
berrygong ...	365	6	2	1,571	9	3	1,936	15	5
Smith, Kline and French Laboratories (Australia) Ltd.									
Grant—Research in School of Medicine ...	286	17	3	2,000	0	0	2,286	17	3
Social Science Research Council Grant—Study of Local									
Government in Sydney (Miss R. Atkins) ...	40	0	0				40	0	0
Temporary Post-graduate Research Fellowship in Wool									
Technology ...				474	8	9	474	8	9
Tooeys Ltd. Grant—Studies on the Continuous Fer-									
mentation of Micro-organisms ...				250	0	0	250	0	0
Tritium Radiation Chemistry Research Fellowship ...	89	14	9				89	14	9
Tritium Research Project—Dr. J. L. Garnett ...	326	3	4	200	0	0	526	3	4
Union Carbide Australia Ltd. Post-graduate Research									
Grant ...	102	18	5				102	18	5
Upjohn Pty. Ltd. Grant—Studies in Controlled Sheep									
Breeding Using Repromix ...				1,675	0	0	1,675	0	0
U.S. Air Force Grants—									
Research on Positronium ...	862	5	3	1,652	9	0	2,514	14	3
Research on the Nuclear Three Body Problem ...	1,777	6	6	5,863	14	8*	7,641	1	2
<i>Carried Forward:</i> ...	174,659	7	8	278,007	11	9	452,666	19	5

*Includes refund of portion of previous grant.

†Refund of balance of grant.

ANNEXURE "B"—continued

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

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
132,794 6 4	74,223 2 11	8,600 18 0	215,618 7 3	179,113 15 11
.....	.....	.....	.....	1,000 0 0
.....	.....	.....	.....	1,000 0 0
307 7 3	336 19 2	26 4 0	670 10 5	344 15 1
61 10 9	.....	.....	61 10 9	76 19 9
1,597 8 9	.....	.....	1,597 8 9	2,402 11 3
.....	.....	.....	.....	44 2 5
1,119 3 1	742 16 10	15 3 1	1,877 3 0	1,120 0 4
1,026 18 11	14 6	43 15 10	1,071 9 3	1,384 16 6
447 14 9	19 15 4	294 6 8	761 16 9	1,973 19 5
.....
169 13 4	220 0 0	.....	389 13 4	.....
1,884 7 5	624 7 3	82 1 8	2,590 16 4	4,409 3 8
.....	.....	.....	.....	4,119 0 0
.....	654 7 6	.....	654 7 6	495 12 6
.....	.....	.....	.....	1,070 0 0
.....
.....	.....	.....	.....	462 15 4
1,825 9 2	27 11 9	.....	1,853 0 11	2,651 17 3
298 9 0	231 3 7	73 19 7	603 12 2	899 8 2
.....	209 10 0	.....	209 10 0	255 9 3
.....	34 19 6	.....	34 19 6	53 16 6
.....	3 11 8	.....	3 11 8	1,599 4 11
.....	.....	.....	.....	910 2 0
400 0 0	645 16 0	.....	1,045 16 0	582 0 8
.....	19 12 0	.....	19 12 0	57 2 0
.....	39 7 7	.....	39 7 7	.....
28 10 0	1,109 6 3	911 6 1	2,049 2 4	Dr. 112 6 11
265 6 8	25 4 3	21 10 7	312 1 6	1,974 15 9
.....	.....	.....	.....	40 0 0
474 8 9	.....	.....	474 8 9	.....
.....	.....	.....	.....	250 0 0
89 14 9	.....	.....	89 14 9	.....
269 16 1	.....	200 0 0	469 16 1	56 7 3
.....	18 0 0	.....	18 0 0	84 18 5
462 12 0	207 0 0	404 11 3	1,074 3 3	600 16 9
1,290 13 5	353 3 3	8 14 2	1,652 10 10	862 3 5
91 0 0	4,251 19 11	1,072 8 4	5,415 8 3	2,225 12 11
144,904 10 5	83,998 9 3	11,754 19 3	240,657 18 11	212,009 0 6

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CAL

Fund	Balances Brought Forward 1st Jan., 1964	Receipts 1964	Total
	£ s. d.	£ s. d.	£ s. d.
<i>Brought Forward:</i> ...	174,659 7 8	278,007 11 9	452,666 19 5
U.S. Department of Army Grant—Research on the Preparation of some New Chelating Ligands and the Investigation of their Metallic Complexes ...	.....	6,673 9 9	6,673 9 9
U.S. Department of Health, Education and Welfare Grants—			
The Synthesis of Phosphoinositides ...	2,024 13 10	4,599 15 0	6,624 8 10
Insect Venoms, Attractants and Repellents ...	Dr. 387 10 4	6,713 12 9	6,326 2 5
The Electrical Properties of Psychotropic Substances ...	776 16 8	5,098 5 7	5,875 2 3
Instrumental Control of Respiration ...	463 1 3	3,298 17 9	3,761 19 0
Research Fellowship—Dr. W. Corpe ...	.....	222 9 11	222 9 11
Mediation of Vascular Responses in Inflammation ...	.....	7,669 16 2	7,669 16 2
Water Research Foundation of Australia Grants—			
Nuclear Chemical Study of the Age and Renewal Rate of the Great Artesian Basin ...	217 5 4	900 0 0	1,117 5 4
Research Fellowship on Problems Associated with Sealing Control in Distillation Processes ...	920 10 9	500 0 0	1,420 10 9
Research Fellowship on Growth of Green Algae as a Method of Sewage Treatment ...	1,554 11 5	.....	1,554 11 5
Flow Characteristics of Semi-circular Side-channel Spillways ...	449 2 10	750 0 0	1,199 2 10
Study of Unsaturated Soil with Special Reference to Drainage and Irrigation Problems ...	500 0 0	.....	500 0 0
Study of Measurement of Time of Concentration and Hydrographic Characteristics of Small Rural Catchments Using Radioactive Tracers ...	709 7 7	500 0 0	1,209 7 7
Research on the Effects of Exotic Softwood Afforestation on Water Yield ...	1,441 7 6	2,500 0 0	3,941 7 6
Research on the Optimum Design of Storage Reservoirs ...	300 0 0	.....	300 0 0
Research on Low Cost By-wash Construction of Farm Dams ...	220 7 8	.....	220 7 8
Derivation of Initial Loss ...	.....	750 0 0	750 0 0
Desiccation Failures in Small Dams ...	.....	1,050 0 0	1,050 0 0
Review and Analysis of the Use of Plastic in the Field of Water Engineering ...	.....	850 0 0	850 0 0
Water Research Foundation of Australia and Reserve Bank of Australia Grant—			
Improved Methods for the Design and Construction of Farm Dams ...	846 18 0	2,250 0 0	3,096 18 0
The Wellcome Trust Grant—Studies on Anaemia in New Guinea ...	.....	3,750 0 0	3,750 0 0
Wheat Industry Research Council Grants—			
Bulk Handling of Wheat ...	560 0 0	150 0 0	710 0 0
Soil Tillage Investigation ...	1,897 13 5	1,235 15 10*	3,133 9 3
Research on Scarifier and Combine Drill Points ...	.....	2,215 0 0	2,215 0 0
Research on Comparative Performance of Different Systems of Tine Mounting ...	.....	910 0 0	910 0 0
W. D. & H. O. Wills (Australia) Ltd. Grants—			
Ultra-high Vacuum Diffraction Study ...	1,670 0 0	1,400 0 0	3,070 0 0
Research on Stochastic Processes at the Australian National University, Canberra ...	400 0 0	400 0 0	800 0 0
Wool Research Committee Grants—			
Investigation of Properties of Thin Wool Felts and Compressibility Characteristics of Raw Wool ...	291 1 4	Dr. 291 1 4*	.....
Research on X-ray and Wave Diffraction in Keratin ...	1,382 16 9	1,830 14 1*	3,213 10 10
Appointment of a Senior Research Fellow ...	558 1 1	.....	558 1 1
<i>Carried Forward:</i> ...	191,455 12 9	333,934 7 3	525,390 0 0

*Includes refund of portion of previous grant.

ANNEXURE "B"—continued

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

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
144,904 10 5	83,998 9 3	11,754 19 3	240,657 18 11	212,009 0 6
3,642 13 9	141 14 1	806 10 4	4,590 18 2	2,082 11 7
4,039 18 6	114 16 5	238 19 5	4,393 14 4	2,230 14 6
3,716 13 10	206 15 5	187 7 1	4,110 16 4	2,215 6 1
5,121 9 2	1,082 1 5	168 19 10	6,372 10 5	Dr. 497 8 2
.....	2,252 11 3	23 0 5	2,275 11 8	1,486 7 4
312 11 8	222 9 11	.....	222 9 11	.....
.....	263 9 5	.....	576 1 1	7,093 15 1
.....	294 9 9	.....	294 9 9	822 15 7
1,340 5 4	80 2 11	2 6	1,420 10 9	.....
.....	.....	.....	.....	1,554 11 5
867 5 5	29 12 3	.....	896 17 8	302 5 2
18 12 11	187 14 8	1 7 6	207 15 1	292 4 11
.....	309 11 10	16 13 2	326 5 0	883 2 7
1,934 12 3	1,199 3 6	253 14 10	3,387 10 7	553 16 11
.....	7 12 5	.....	7 12 5	292 7 7
197 17 9	13 8 7	9 1 4	220 7 8	.....
135 13 9	.....	81 4 4	135 13 9	614 6 3
.....	.....	.....	81 4 4	968 15 8
.....	.....	.....	.....	850 0 0
1,920 3 0	335 7 11	285 2 8	2,540 13 7	556 4 5
53 2 0	4,584 9 8	131 11 3	4,769 2 11	Dr. 1,019 2 11
.....	406 2 10	30 0 0	436 2 10	273 17 2
2,272 4 6	472 13 7	234 6 11	2,979 5 0	154 4 3
1,779 8 9	28 14 5	216 15 8	2,024 18 10	190 1 2
824 10 8	41 9 0	61 14 5	927 14 1	Dr. 17 14 1
.....	4,335 9 11	.....	4,335 9 11	Dr. 1,265 9 11
10 0 0	9 3 2	313 10 8	332 13 10	467 6 2
.....
572 7 4	2,618 6 4	22 17 2	3,213 10 10	.....
558 1 1	.....	.....	558 1 1	.....
174,222 2 1	103,235 19 11	14,837 18 9	292,296 0 9	233,093 19 3

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CALENDAR YEAR 1964

Fund	Balances Brought Forward 1st Jan., 1964			Receipts 1964			Total		
	£	s.	d.	£	s.	d.	£	s.	d.
<i>Brought Forward:</i> ...	191,455	12	9	333,934	7	3	525,390	0	0
Wool Research Committee and Australian Wool Board Grants—									
Flock Testing Research	Dr6,742	11	0	16,447	11	7*	9,705	0	7
Investigation of Anomalies in Fibre Processing	Dr1,911	18	4	7,553	0	0	5,641	1	8
Research on Competition between Wool Fibres	Dr. 869	15	1	2,842	9	7†	1,972	14	6
Research on Ram Wastage—Urinary Calculi	Dr. 774	12	6	2,795	12	11†	2,021	0	5
Absorption of Acids and Alkalis in Wool and Complexes of Dyes and Surface-active Agents	1,677	12	7	2,591	13	10†	4,269	6	5
Accelerated Ageing of Worsted Manufacture	862	17	11	3,200	0	0	4,062	17	11
Development of Weft Tension Regularity Device	977	17	10	1,986	14	5†	2,964	12	3
Investigation of Significant Wool Properties in Processing and End Use, Effect of Ionising Radiation on Wool, Relationship between Yarn and Fibre Irregularities	6,550	0	4	17,425	4	4†	23,975	4	8
The Permanence of Wool Bleaches and Investigation of Blowing at Temperatures near 100°C	Dr1,965	7	3	11,100	0	0	9,134	12	9
Improvements in Wool Scouring	2,032	6	9	15,030	0	0	17,062	6	9
Studies in Wool Polymer Reactions	459	14	2	4,200	0	0	4,659	14	2
Investigation of Wool Top Manufacture	14,696	6	4	17,000	0	0	31,696	6	4
Total—Other than Newcastle University College	206,448	4	6	436,106	13	11	642,554	18	5
NEWCASTLE UNIVERSITY COLLEGE—									
Australian Atomic Energy Commission Grants—									
Heat Content of Unirradiated Beryllium Oxide	1,371	13	3	.....			1,371	13	3
Australian Institute of Nuclear Science and Engineering Grants—									
Effect of Radiation Damage on the Mechanical Properties of Mild Steel ... ..	.....			50	0	0	50	0	0
The Structure of Transition Metal Alloys	30	4	11	100	0	0	130	4	11
Mechanical Properties of Radiation Damaged Aluminium Alloys	332	9	1	300	0	0	632	9	1
Neutron Diffraction Studies on the Spinel Structure ... ..	.....			100	0	0	100	0	0
Commonwealth Post-graduate Awards, 1964 ... ..	.....			.....			.....
Reserve Bank of Australia Grants from Economic and Financial Research Fund—									
Industrial Structure and Policy in Australia	428	14	9	.....			428	14	9
Cessnock—A Problem in Adapting Environment to Changing Economic Circumstances ... ..	.....			550	0	0	550	0	0
Total—Newcastle University College	2,163	2	0	1,100	0	0	3,263	2	0
TOTAL SPECIAL PURPOSE FUNDS (RESEARCH)	208,611	6	6	437,206	13	11	645,818	0	5

*Includes transfer of £300 from Special Purpose Funds (Other) and refund of portion of previous grant.
†Includes refund of portion of previous grant.

ANNEXURE "B"—continued

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

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
174,222 2 1	103,235 19 11	14,837 18 9	292,296 0 9	233,093 19 3
9,845 12 11	806 18 4	2,099 4 8	12,751 15 11	Dr. 3,046 15 4
4,757 12 11	756 11 7	232 0 6	5,746 5 0	Dr. 105 3 4
1,589 15 3	43 3 8	57 16 8	1,690 15 7	281 18 11
1,243 6 11	518 3 8	135 7 5	1,896 18 0	124 2 5
1,472 15 2	1,393 19 10	556 0 0	3,422 15 0	846 11 5
1,322 1 2	1,693 0 1	106 4 4	3,121 5 7	941 12 4
476 8 11	389 12 5	16 5 10	882 7 2	2,082 5 1
5,160 5 8	8,966 14 4	856 6 6	14,983 6 6	8,991 18 2
3,896 19 11	2,371 9 5	21 5 0	6,289 14 4	2,844 18 5
5,297 6 2	5,150 15 3	318 3 4	10,766 4 9	6,296 2 0
1,499 0 4	1,050 2 10	.....	2,549 3 2	2,110 11 0
8,057 6 2	10,698 2 9	333 7 3	19,088 16 2	12,607 10 2
218,840 13 7	137,074 14 1	19,570 0 3	375,485 7 11	267,069 10 6
.....	1,371 13 3	.....	1,371 13 3	.....
.....	47 16 1	.....	47 16 1	2 3 11
.....	18 7 9	.....	18 7 9	111 17 2
.....	534 13 7	1 4 0	535 17 7	96 11 6
.....	98 14 5	9 9	99 4 2	15 10
1,066 3 1	.....	.....	1,066 3 1	Dr. 1,066 3 1
.....	.....	28 18 0	28 18 0	399 16 9
158 12 6	31 13 5	88 1 11	278 7 10	271 12 2
1,224 15 7	2,102 18 6	118 13 8	3,446 7 9	Dr. 183 5 9
220,065 9 2	139,177 12 7	19,688 13 11	378,931 15 8	266,886 4 9

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

Fund	Balances Brought Forward 1st Jan., 1964	Receipts 1964	Total	Payments 1964	Balances Carried Forward 31st Dec., 1964
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
OTHER THAN NEWCASTLE UNIVERSITY COLLEGE—					
Abbott Laboratories Pty. Ltd. Grants—					
Abbott Fellowship in Clinical Research	2,309 14 1	.....	2,309 14 1	1,646 2 0	663 12 1
Foundation Scholarship in Medicine ... ..	.....	200 0 0	200 0 0	200 0 0	.....
G. I. Adcock Scholarship in Food Technology	800 0 0	700 0 0	1,500 0 0	1,200 0 0	300 0 0
Wm. Arnott Pty. Ltd. Scholarship	400 0 0	400 0 0	800 0 0	400 0 0	400 0 0
Australian Estates Scholarship in Wool Technology ... ..	.....	500 0 0	500 0 0	500 0 0	.....
Australian Institute of Metals, Port Kembla Branch Prize ... ..	.....	20 0 0	20 0 0	.....	20 0 0
Banks and Business Houses Scholarship in Wool Technology	1,113 16 2	576 17 6*	1,690 13 8	.....	1,690 13 8†
Peter Beckman Memorial Prizes in Physical Chemistry Fund	215 12 7	10 0 0	225 12 7	20 0 0	205 12 7†
Bond's Industries Ltd. Grants—					
Scholarship No. 1 ... ..	.....	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 2 ... ..	.....	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 3 ... ..	.....	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 4 ... ..	.....	500 0 0	500 0 0	500 0 0	.....
Boots' Scholarship in Medicine ... ..	.....	100 0 0	100 0 0	100 0 0	.....
Borden Chemical Company (Australia) Pty. Ltd. Award Fund	10 0 0	100 0 0	110 0 0	90 0 0	20 0 0
Bradford Cotton Mills Ltd. Grants—					
Scholarship No. 1 ... ..	.....	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 2 ... ..	.....	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 3 ... ..	.....	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 4 ... ..	.....	500 0 0	500 0 0	500 0 0	.....
R. J. Webster Prize Fund	1,062 3 10	50 0 0	1,112 3 10	50 0 0	1,062 3 10†
Burroughs Wellcome and Co. (Aust.) Ltd. Foundation Scholarship in Medicine ... ..	.....	200 0 0	200 0 0	200 0 0	.....
Carnation Company Pty. Ltd. Award in Paediatrics	27 10 0	10 10 0	38 0 0	10 10 0	27 10 0

Wool Technology	1,166 3 7	43 2 6	1,209 6 1	500 0 0	709 6 1†
Davies Coop (N.S.W.) Pty. Ltd. Grants—					
Scholarship No. 1	500 0 0	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 2	500 0 0	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 3	500 0 0	500 0 0	500 0 0	500 0 0	.....
Department of Drama—Shakespeare Prize Fund	126 8 7	126 8 7	.....	126 8 7†	.....
Department of External Studies General Prize Fund	7 2 0	8 8 0	15 10 0	12 9 9	3 0 3
Department of Industrial Engineering Prize Fund	73 17 0	5 5 0	79 2 0	.....	79 2 0
Dewey and Almy Pty. Ltd. Undergraduate Scholarship in Food Technology	400 0 0	400 0 0	400 0 0	400 0 0	.....
Donation towards Part-time Scholarship in Wool Commerce	105 0 0	Dr. 105 0 0‡	.....	.....	.....
Donations of Royalties towards a Prize or Scholarship in Mathematics	835 14 5	Dr. 45 4 4¶	790 10 1	20 0 0	770 10 1†
Drug Houses of Australia Ltd. Foundation Scholarship in Medicine	200 0 0	200 0 0	200 0 0	200 0 0	.....
Faculty of Medicine Undergraduate Scholarship Fund	21 0 0	.....	21 0 0	.....	21 0 0
Felt and Textiles of Australia Ltd. Grants—					
Scholarship No. 1	500 0 0	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 2	500 0 0	500 0 0	500 0 0	500 0 0	.....
Scholarship No. 3	250 0 0	500 0 0	750 0 0	750 0 0	.....
Scholarship No. 4	500 0 0	500 0 0	500 0 0	500 0 0	.....
Fibremakers Ltd. Scholarship in Textile Technology	500 0 0	500 0 0	500 0 0	500 0 0	.....
Geigy (Australia) Pty. Ltd. Grants—					
Foundation Scholarship in Medicine	200 0 0	200 0 0	200 0 0	200 0 0	.....
Scholarship in Wool Technology	300 0 0	300 0 0	300 0 0	300 0 0	.....
Industrial Public Relations Service of Australia Grant—					
The Sydney Homes Exhibition Scholarship	248 9 11	.....	248 9 11	.....	248 9 11
Johnson and Johnson Ltd. Grants—					
Prize Fund—Department of External Studies	52 17 6	2 17 6	55 15 0	4 6 3	51 8 9†
Foundation Scholarship in Medicine	200 0 0	200 0 0	200 0 0	200 0 0	.....
Joint Coal Board Scholarships	1,547 0 0	.....	1,547 0 0	1,547 0 0	.....
Lempriere (Australia) Pty. Ltd. Scholarship in Wool Commerce	400 0 0	Dr. 400 0 0‡	.....	.....	.....
Mathematics Prize Fund, Wollongong University College	208 1 3	318 12 6¶	526 13 9	.....	526 13 9†
Mauri Bros. and Thomson Pty. Ltd. Scholarship	400 0 0	400 0 0	400 0 0	400 0 0	.....
May and Baker (Australia) Pty. Ltd. Foundation Scholarship in Medicine	50 0 0	200 0 0	250 0 0	200 0 0	50 0 0
Merck Sharp and Dohme (Australia) Pty. Ltd. Foundation Scholarship in Medicine	50 0 0	100 0 0	150 0 0	100 0 0	50 0 0
Monsanto Chemicals (Australia) Ltd. Scholarship	71 13 1	.....	71 13 1	.....	71 13 1
National Council of Wool Selling Brokers Scholarship	500 0 0	500 0 0	500 0 0	500 0 0	.....
Parke Davis and Co. Foundation Scholarship in Medicine... ..	50 0 0	100 0 0	150 0 0	100 0 0	50 0 0
Frank J. Peplow Prize Fund	267 0 3	11 17 6	278 17 9	12 0 0	266 17 9†
Pfizer Corporation Foundation Scholarship in Medicine	50 0 0	200 0 0	250 0 0	50 0 0	200 0 0
Carried Forward:	11,392 15 8	14,433 14 9	25,826 10 5	18,212 8 0	7,614 2 5

*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

Fund	Balances Brought Forward 1st Jan., 1964	Receipts 1964	Total	Payments 1964	Balances Carried Forward 31st Dec., 1964
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
<i>Brought Forward:</i>	11,392 15 8	14,433 14 9	25,826 10 5	18,212 8 0	7,614 2 5
Pauline Price Scholarship in Dramatic Art	2,080 6 9	110 0 0	2,190 6 9	110 0 0	2,080 6 9†
Public Service Association of New South Wales Scholarship ... ..	.....	100 0 0	100 0 0	100 0 0	.....
Raymond E. Purves/Clyde Industries Ltd. Engineering Scholarship ... ..	.....	900 0 0	900 0 0	900 0 0	.....
Reserve Bank of Australia—					
50th Anniversary Scholarship	373 14 0	1,594 0 0	1,967 14 0	1,671 9 8	296 4 4
50th Anniversary Post-Graduate Scholarship ... ..	.....	1,798 0 0	1,798 0 0	889 10 10	908 9 2
Residential College Scholarship—Professor J. F. D. Wood ... ..	.....	500 0 0	500 0 0	.....	500 0 0
School of Mathematics—Theory of Statistics Prize Fund	100 0 0	70 0 0	170 0 0	30 0 0	140 0 0
School of Psychology Staff Prize Fund	39 9 0	1 9 6	40 18 6	5 0 0	35 18 6†
Simon-Carves (Australia) Pty. Ltd. Prize Fund	275 1 3	11 17 6	286 18 9	10 10 0	276 8 9†
J. B. Speakman Prize Fund	200 10 0	10 10 0	211 0 0	10 0 0	201 0 0†
Sunbeam Corporation Ltd.—Scholarship in Wool Technology ... ..	.....	500 0 0	500 0 0	.....	500 0 0
Sydney Technical College Union Prize Fund	807 8 7	28 10 0	835 18 7	25 0 0	810 18 7†
Charles V. and Jean Abbott Treloar Bequest	750 0 0	.....	750 0 0	.....	750 0 0
Tyree Electrical Co. Pty. Ltd. Scholarship in Electrical Engineering ... ..	.....	250 0 0	250 0 0	.....	250 0 0
Unilever Scholarship in Food Technology	400 0 0	400 0 0	800 0 0	400 0 0	400 0 0
The University of New South Wales Prize Fund	1,216 4 7	1,834 2 1	3,050 6 8	1,538 8 6	1,511 18 2
University of New South Wales Students' Union Foundation Day ... ..	.....	.....	.....	.....	.....
Scholarship Fund	2,213 6 8	107 10 0	2,320 16 8	315 5 6	2,005 11 2†
Upjohn Pty. Ltd. Foundation Scholarship in Medicine ... ..	.....	200 0 0	200 0 0	200 0 0	.....
L. F. Urwick Prize in Business Administration ... ..	.....	210 19 4	210 19 4	.....	210 19 4†
Veteran Motorists of Australia Prize in Traffic Engineering	221 17 8	10 10 0	232 7 8	10 0 0	222 7 8†
John Vicars and Co. Ltd. Scholarship in Textile Technology ... ..	.....	500 0 0	500 0 0	500 0 0	.....
Washington H. Soul Pattinson & Co. Ltd. Foundation Scholarship ... ..	.....	.....	.....	.....	.....
in Medicine ... ..	.....	200 0 0	200 0 0	150 0 0	50 0 0
George Weston Foods Limited Undergraduate Scholarship in Food ... ..	.....	.....	.....	.....	.....
Technology ... ..	.....	400 0 0	400 0 0	400 0 0	.....
W. D. & H. O. Wills (Australia) Ltd. Scholarship in Medicine	100 0 0	200 0 0	300 0 0	200 0 0	100 0 0
Wool Research Trust Fund Grants—					
Scholarship—C. A. Worthington ... ..	.....	400 0 0	400 0 0	400 0 0	.....
Scholarship—R. Robson ... ..	.....	400 0 0	400 0 0	400 0 0	.....
Scholarship—R. K. Pritchard ... ..	.....	400 0 0	400 0 0	400 0 0	.....
Scholarship—K. A. White ... ..	.....	400 0 0	400 0 0	400 0 0	.....
Scholarship—S. Wyber ... ..	.....	400 0 0	400 0 0	400 0 0	.....
Scholarship—G. E. Eagleton ... ..	.....	400 0 0	400 0 0	400 0 0	.....
Scholarship—D. F. McManamey ... ..	.....	400 0 0	400 0 0	400 0 0	.....
Scholarship—C. G. Baker ... ..	.....	400 0 0	400 0 0	400 0 0	.....
Scholarship—M. Smith ... ..	.....	400 0 0	400 0 0	400 0 0	.....

Scholarship—S. W. Duggan	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—M. D. Young	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—G. Hayton	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—N. G. Child	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—W. E. Elson	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—J. R. Tait	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—B. B. Lightfoot	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—K. Lancaster	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—M. Delaney	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—A. J. Madeley	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—D. R. Meek	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—R. Moors	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—M. Pailthorpe	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—J. Whitney	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—V. A. Jacobs	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—G. S. Dickinson	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—P. Berry	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—P. Sidebottom	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—C. R. Matson	400 0 0	400 0 0	400 0 0	400 0 0	.....
Scholarship—W. D. Ainsworth	400 0 0	400 0 0	400 0 0	400 0 0	.....
Wallace Wurth Memorial Prize in Medicine	1,639 8 8	96 7 5	1,735 16 1	.....	1,735 16 1†
Total—Other than Newcastle University College	21,810 2 10	37,267 10 7	59,077 13 5	38,477 12 6	20,600 0 11
NEWCASTLE UNIVERSITY COLLEGE					
The W. E. Clegg Memorial Prize Fund	119 2 6	5 5 0	124 7 6	.....	124 7 6†
A. J. Day Memorial Prize Fund	57 13 9	2 13 9	60 7 6	2 13 9	57 13 9†
B. A. Helmore French Prize Fund	102 12 6	5 5 0	107 17 6	5 5 0	102 12 6†
Ernest Helmore Memorial Prize Fund	102 12 6	5 5 0	107 17 6	5 5 0	102 12 6†
Gertrude Helmore Memorial Prize Fund	102 10 0	5 0 0	107 10 0	5 0 0	102 10 0†
Mathematics Prize Fund, Newcastle University College	126 4 2	350 13 9	476 17 11	.....	476 17 11†
Morison Special Economics Prize Fund	1,026 5 0	52 10 0	1,078 15 0	52 10 0	1,026 5 0†
Mrs. and Col. H. L. Wheeler History Prizes Fund	513 2 6	26 5 0	539 7 6	26 5 0	513 2 6†
General Prize Fund ... ..	.....	174 10 0	174 10 0	119 10 0	55 0 0
Total—Newcastle University College	2,150 2 11	627 7 6	2,777 10 5	216 8 9	2,561 1 8
TOTAL SCHOLARSHIPS, BURSARIES, PRIZES ETC.	£23,960 5 9	37,894 18 1	61,855 3 10	38,694 1 3	23,161 2 7

†Including Investment as per Annexure "F".

Total Investments—

Other than Newcastle University College — £12,030 0 0

Newcastle University College — £2,050 0 0

THE UNIVERSITY OF SPECIAL PURPOSES (Other Special Purposes)

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE YEAR 1964

Fund	Balances Brought Forward 1st Jan., 1964			Receipts 1964			Total		
	£	s.	d.	£	s.	d.	£	s.	d.
OTHER THAN NEWCASTLE UNIVERSITY COLLEGE—									
Andrews Laboratories Pty. Ltd. Grant—Andrews Lectures				150	0	0	150	0	0
Applied Arts Fund	1,017	9	2	500	0	0	1,517	9	2
Architectural Research Foundation Fund				877	10	0	877	10	0
Sir Adolph Basser Donations towards Equipping Residential Colleges	44,681	5	0	2,102	1	8	46,783	6	8
Biochemistry Kit Purchases and Replacements Account	21	7	0	267	15	0	289	2	0
Biological Materials and Specimens Prepared for Department of Education, N.S.W.	5	5	0	4,097	19	4	4,103	4	4
Biology Excursions Fund	143	1	5	463	10	0	606	11	5
Broken Hill—Establishment of the W. S. and L. B. Robinson University College				50,710	18	9	50,710	18	9
Building Degree Course Foundation Fund	1,339	19	4				1,339	19	4
Building Research Laboratory Fund	500	0	0	500	0	0	1,000	0	0
Ceramics Laboratory—Donations towards Equipping	3,287	17	3				3,287	17	3
Chair of Marketing Fund	19,528	19	11				19,528	19	11
Chemistry Kit Purchases and Replacements Accounts—									
School of Chemistry	1,884	3	3	6,581	12	2*	8,465	15	5
School of Chemical Engineering	40	15	0				40	15	0
Broken Hill Division	81	15	10	23	1	0	104	16	10
Wollongong University College	194	7	1				194	7	1
Granville Division	331	9	9	Dr. 331	9	9†			
Clean Air Conference—August 1965				1,361	15	0	1,361	15	0
Colonial Sugar Refining Co. Ltd. Grant towards Overseas Travel Expenses—Professor S. J. Angyal				200	0	0	200	0	0
Commonwealth Literary Fund Grant—Lectures in Australian Literature, School of English	100	0	0	100	0	0	200	0	0
Continuation Studies Residential College Building Fund	1,042	15	0	92,977	10	3	94,020	5	3
Council of the City of Sydney Grants—									
Training of Health Inspectors	16	18	3				16	18	3
Subsidy towards Trace Radioactivity Laboratory	1,296	3	1	2,200	0	0	3,496	3	1
Department of Anaesthesia Development Fund	40	0	0	90	0	0	130	0	0
Department of Education, N.S.W., Contribution to Construction of Micro-techniques Unit Building	7,530	0	0	Dr. 551	9	4‡	6,978	10	8
Department of Fuel Engineering—Equipment Fund	961	8	5				961	8	5
Department of Main Roads N.S.W. Grant—Chair of Highway Engineering	5,255	17	3	5,000	0	0	10,255	17	3
Department of Motor Transport Project—Testing of Traffic Signal Lanterns				2,000	0	0	2,000	0	0
Department of Nuclear and Radiation Chemistry—Special Purposes Fund	19	16	1				19	16	1
Design Office, School of Mechanical Engineering—Donations towards Equipment				65	0	0	65	0	0
Development of Bachelor of Commerce Course in Industrial Relations	969	13	3				969	13	3
Division of Post-Graduate and Extension Studies—									
Adult Education Courses Fund				3,075	0	0	3,075	0	0
Donations to School of Biological Sciences Fund				21	0	0	21	0	0
Donations to University Special Purposes Fund	2,656	11	3	173	14	8	2,830	5	11
Donations towards Equipment for Entomology Section, School of Biological Sciences				200	0	0	200	0	0
<i>Carried Forward:</i>	92,946	17	7	172,855	8	9	265,802	6	4

*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

POSES FUNDS

(purposes)

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

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
.....	.....	150 0 0	150 0 0	.....
.....	71 0 0	.....	71 0 0	1,446 9 2
.....	.....	.....	.....	877 10 0
.....	4,864 12 2	4,945 8 1	9,810 0 3	36,973 6 5†
.....	.....	.....	.....	289 2 0
3,854 6 10	92 10 10	166 16 0	4,113 13 8	Dr. 10 9 4
.....	324 18 8	.....	324 18 8	281 12 9
.....	.....	132 13 9	132 13 9	50,578 5 0†
.....	.....	.....	.....	1,339 19 4
.....	.....	.....	.....	1,000 0 0
.....	27 0 0	.....	27 0 0	3,260 17 3
1,877 16 11	248 4 6	278 5 2	2,404 6 7	17,124 13 4
.....	7,281 17 6	.....	7,281 17 6	1,183 17 11
.....	.....	.....	.....	40 15 0
.....	200 9 2	.....	200 9 2	104 16 10
.....	.....	.....	.....	Dr. 6 2 1
.....	.....	5 8 0	5 8 0	1,356 7 0
.....	.....	200 0 0	200 0 0	.....
.....	.....	100 0 0	100 0 0	100 0 0
.....	.....	.....	.....	94,020 5 3†
.....	.....	.....	.....	16 18 3
116 7 6	2,005 3 5	5 5 6	2,126 16 5	1,369 6 8
.....	.....	21 9 0	21 9 0	108 11 0
.....	.....	6,978 10 8	6,978 10 8	.....
.....	168 8 0	.....	168 8 0	793 0 5
5,602 8 11	.....	151 9 3	5,753 18 2	4,501 19 1
.....	.....	.....	.....	2,000 0 0
.....	.....	.....	.....	19 16 1
.....	65 0 0	.....	65 0 0	.....
.....	.....	716 13 10	716 13 10	252 19 5
273 10 3	504 2 10	.....	777 13 1	2,297 6 11
.....	.....	.....	.....	21 0 0
.....	.....	1 15 9	1 15 9	2,828 10 2
.....	.....	.....	.....	200 0 0
11,724 10 5	15,853 7 1	13,853 15 0	41,431 12 6	224,370 13 10

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CAL

Fund	Balances Brought Forward 1st Jan., 1964		Receipts 1964		Total	
	£	s. d.	£	s. d.	£	s. d.
<i>Brought Forward:</i> ...	92,946	17 7	172,855	8 9	265,802	6 4
Donations towards Expenses of Special Lectures—						
School of Architecture and Building ...	.....		15 0 0		15 0 0	
Donations towards Furnishing of Common Room, School						
of Biological Sciences ...	5 5 0		<i>Dr.</i> 5 5 0*		.....
Donations towards Overseas Travel Expenses—						
Dr. J. L. Garnett ...	.....		222 8 7		222 8 7	
Donations towards Overseas Travel Expenses—						
Dr. D. Haneman ...	.....		200 0 0		200 0 0	
Donations towards Overseas Travel Expenses—						
Associate Professor A. Jenkins ...	.....		600 0 0		600 0 0	
Donations towards Overseas Travel Expenses—						
Dr. J. R. Norman ...	.....		26 5 0		26 5 0	
Donations towards Overseas Travel Expenses—						
Associate Professor A. Datyner ...	750 0 0		.....		750 0 0	
Donations towards Overseas Travel Expenses—						
Professor N. R. Wills ...	100 0 0		.....		100 0 0	
Donations towards Overseas Travel Expenses—						
Dr. E. A. Davis ...	.....		155 0 0		155 0 0	
Donations towards Overseas Travel Expenses—						
Dr. W. R. Pitney ...	.....		550 0 0		550 0 0	
Donations towards Overseas Travel Expenses—						
Professor J. Beveridge ...	.....		759 16 5		759 16 5	
Donations towards Purchase of Research Equipment at						
Prince Henry Hospital ...	67 10 0		.....		67 10 0	
Donations towards Purchase of X-ray Generator ...	250 0 0		305 0 0		555 0 0	
Electricity Commission of N.S.W. Project—						
Special Research Grants (Manly Vale) ...	9,713 2 11†		10,000 0 0		19,713 2 11	
English Proficiency Tests for Overseas Students Account	.....		55 6 6		55 6 6	
External Studies Courses in Hospital Administration—						
Contributions by Statutory Hospital Authorities ...	2,987 6 7		7,521 13 6		10,509 0 1	
Faculty of Medicine Special Purposes Account ...	.....		4,545 0 0		4,545 0 0	
Flock Testing Services—School of Wool Technology ...	.....		127 4 0		127 4 0	
Fluid Mechanics/Thermodynamics Laboratory Equipping						
Fund ...	22,810 0 0		.....		22,810 0 0	
Grazcos Co-operative Ltd. Grant—Purchase of Equip-						
ment for the Measuring of Subcutaneous Temperatures						
in Sheep ...	50 0 0		.....		50 0 0	
Hire of Data Processing Machines Reserve Account ...	6,222 0 3		.....		6,222 0 3	
Hydraulic Research and Equipment Programme Fund ...	1,649 11 8		1,562 12 10		3,212 4 6	
Insecticide Laboratory Ancillary Rooms—						
Donations towards Equipment ...	547 18 0		.....		547 18 0	
Interest Earned on Special Purposes Accounts ...	62,768 2 5		28,774 2 5		91,542 4 10	
Interest Earned on Non-schedule General Loan Accounts	15,856 17 10		5,068 19 5		20,925 17 3	
Interest Earned on Schedule Works Accounts ...	67,386 0 2		23,937 8 2		91,323 8 4	
Kulnura Quarries Pty. Ltd. Project—						
Investigation of Quarry Materials ...	260 10 0		<i>Dr.</i> 260 10 0‡		.....
Mathematical Competition for High School Students—						
1964 ...	.....		224 15 0		224 15 0	
Mathematical Competition for High School Students—						
1963 ...	116 7 4		101 12 9‡		218 0 1	
Mathematics Educational Projects Fund ...	.....		15 0 0		15 0 0	
Mathematics Summer School—1965 ...	.....		1,459 2 3		1,459 2 3	
Mathematics Summer School—1964 ...	1,453 9 9		<i>Dr.</i> 188 2 3‡		1,265 7 6	
Medical School of the Air—Donations ...	1,395 16 2		145 11 9		1,541 7 11	
New South Wales State Government Grant for Com-						
pensation on Land Appropriation ...	.....		28,126 0 0		28,126 0 0	
<i>Carried Forward:</i> ...	287,336	15 8	286,899	10 1	574,236	5 9

*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.

ANNEXURE "D"—continued

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

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
11,724 10 5	15,853 7 1	13,853 15 0	41,431 12 6	224,370 13 10
.....	15 0 0	.....	15 0 0	.....
.....
.....	.....	222 8 7	222 8 7	.....
.....	.....	200 0 0	200 0 0	.....
.....	.....	600 0 0	600 0 0	.....
.....	.....	26 5 0	26 5 0	.....
.....	.....	750 0 0	750 0 0	.....
.....	.....	100 0 0	100 0 0	.....
.....	.....	155 0 0	155 0 0	.....
.....	.....	550 0 0	550 0 0	.....
.....	.....	759 16 5	759 16 5	.....
.....	.....	.....	.....	67 10 0
.....	555 0 0	.....	555 0 0	.....
8,164 9 6	4,044 17 3	368 4 5	12,577 11 2	7,135 11 9
.....	44 7 0	.....	44 7 0	10 19 6
8,293 16 9	597 13 0	311 16 0	9,203 5 9	1,305 14 4
2,811 15 3	45 6 10	890 17 5	3,747 19 6	797 0 6
.....	.....	.....	.....	127 4 0
.....	7,128 12 2	.....	7,128 12 2	15,681 7 10
.....	50 0 0	.....	50 0 0	.....
.....	5,813 14 1	.....	5,813 14 1	408 6 2
67 15 9	92 7 0	638 19 2	799 1 11	2,413 2 7
.....	124 12 0	.....	124 12 0	423 6 0
.....	.....	.....	.....	91,542 4 10
.....	.....	30 0 0	30 0 0	20,925 17 3
.....	.....	.....	.....	91,293 8 4
.....
.....	.....	161 17 9	161 17 9	62 17 3
.....	.....	218 0 1	218 0 1	.....
.....	.....	4 11 5	59 13 6	15 0 0
55 2 1	74 15 0	574 16 11	1,265 7 6	1,399 8 9
615 15 7	4 6 5	30 15 2	751 0 1	790 7 10
715 18 6	.....	28,126 0 0	28,126 0 0	.....
32,449 3 10	34,443 17 10	48,573 3 4	115,466 5 0	458,770 0 9

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CAL

Fund	Balances Brought Forward 1st Jan., 1964			Receipts 1964			Total		
	£	s.	d.	£	s.	d.	£	s.	d.
<i>Brought Forward:</i>	287,336	15	8	286,899	10	1	574,236	5	9
New South Wales State Government Grants—Purchase of Special Equipment	41,788	0	0	.....			41,788	0	0
New South Wales State Government Grants—Alleviation of Drainage Problem on Kensington Site ... ..	.....			50,000	0	0	50,000	0	0
Paint Technology Laboratory— Donations towards Equipping	25	3	3	.....			25	3	3
Pathology Instrument Kit Purchases and Replacements Account ... ..	.....			7	19	6	7	19	6
Permanent Trustee Co. Ltd. Donation ... ..	.....			2,500	0	0	2,500	0	0
Philosophy Books for University Library— Donations towards Purchase	280	5	5	.....			280	5	5
Plastics and Rubber Technology Laboratory—Donations	399	13	7	150	0	0	549	13	7
Provision for Catering—Department of Industrial Engineering Special Courses	15	2	0	.....			15	2	0
Provision for Employers' Superannuation Pension Subsidy transferred from Special Purpose Funds	1,415	5	10	3,344	16	3	4,760	2	1
Provision for Long Service Leave Entitlements transferred from Special Purpose Funds	256	1	9	789	19	6	1,046	1	3
Provision for Replacement of Motor Vehicles—School of Wool Technology	829	5	6	<i>Dr.</i> 299	0	0*	530	5	6
Public Accountants Registration Board Grant towards Graduate and Honours Library, School of Accountancy	278	3	9	250	0	0	528	3	9
Purchase of Computer for Wollongong University College	.....			8,604	0	0†	8,604	0	0
Reading/Orthoptic Clinic Account	142	13	9	258	6	0	400	19	9
Rheem Australia Pty. Ltd. Donations towards Utilisation of Materials from "Subiaco"	1,000	0	0	.....			1,000	0	0
Rightwear Shoe Co. Pty. Ltd.—Donation ... ..	.....			2,500	0	0	2,500	0	0
Sale of Sand—Daceyville Sports Area	14,063	7	3	8	4	4	14,071	11	7
Sale of Wool—Research Project, C.S.I.R.O. Canberra	249	3	4	223	18	9	473	2	1
Sale of Sand—Botany Street, Randwick site	12,755	14	11	16,510	4	5	29,265	19	4
School of Chemistry Equipment Fund	400	0	0	.....			400	0	0
School of Highway Engineering—Donations for Purchase of Equipment	75	0	0	.....			75	0	0
School of Paediatrics Special Purposes Fund	40	0	0	60	10	0	100	10	0
School of Physics—Fire Replacement Account	600	8	5	.....			600	8	5
School of Textile Technology Special Purposes Fund	142	12	5	.....			142	12	5
School of Wool Technology—Special Purposes Donations	80	0	0	.....			80	0	0
Science Summer School—1965 ... ..	.....			2,157	5	0	2,157	5	0
Science Summer School—1964	2,127	0	0	200	0	0	2,327	0	0
Special Courses—Post Graduate and Extension Studies etc.	11,138	4	0	24,848	6	1	35,986	10	1
Special Library Fees Transfers	46,306	18	0	45,606	16	8	91,913	14	8
Special Purposes Fund—Professor McMahon	21	0	0	.....			21	0	0
Student Health Services—Inoculation Account ... ..	.....			28	0	0	28	0	0
Student Loan Fund	2,617	2	10	134	19	6	2,752	2	4
Study Leave Assistance Fund	20,672	0	0	25,500	0	0	46,172	0	0
Sydney County Council Measurements Laboratory— Contributions	2,200	0	0	1,000	0	0	3,200	0	0
Teaching Laboratory Educational Research Unit— Donations towards Establishment	575	0	0	.....			575	0	0
Union Carbide Australia Ltd.—Contribution to Overseas Travel Expenses of University Staff ... ..	.....			200	0	0	200	0	0
Unisearch Ltd.—Donations	123	10	5	.....			123	10	5
University of New South Wales Residential College Building Development Account	33,272	7	7	12,965	0	4	46,237	7	11
<i>Carried Forward:</i>	481,225	19	8	484,448	16	5	965,674	16	1

*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.

ANNEXURE "D"—continued

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

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d. 32,449 3 10	£ s. d. 34,443 17 10	£ s. d. 48,573 3 4	£ s. d. 115,466 5 0	£ s. d. 458,770 0 9
.....	.....	.....	.....	41,788 0 0
.....	.....	.....	.....	50,000 0 0
.....	.....	.....	.....	25 3 3
.....	.....	.....	.....	7 19 6
.....	.....	2,500 0 0	2,500 0 0	.....
.....	.....	.....	.....	280 5 5
.....	274 16 0	.....	274 16 0	274 17 7
.....	.....	.....	.....	15 2 0
.....	.....	.....	.....	4,760 2 1†
.....	.....	.....	.....	1,046 1 3
.....	530 5 6	.....	530 5 6	.....
.....	.....	396 11 2	396 11 2	131 12 7
.....	23,504 0 0	.....	23,504 0 0	Dr. 14,900 0 0
.....	305 16 11	.....	305 16 11	95 2 10
.....	.....	.....	.....	1,000 0 0
.....	.....	2,500 0 0	2,500 0 0	.....
.....	.....	4,560 0 0	4,560 0 0	9,511 11 7
100 0 0	230 3 3	194 2 11	524 6 2	Dr. 51 4 1
.....	250 0 0	.....	250 0 0	29,265 19 4
.....	.....	.....	.....	150 0 0
.....	.....	75 0 0	75 0 0	.....
.....	47 0 0	.....	47 0 0	53 10 0
.....	96 0 0	.....	96 0 0	504 8 5
.....	91 18 7	45 15 0	137 13 7	4 18 10
.....	80 0 0	.....	80 0 0	.....
.....	27 18 6	32 14 0	60 12 6	2,096 12 6
50 0 0	.....	45 16 10	95 16 10	2,231 3 2
6,554 16 6	9,361 8 2	15,667 8 10	31,583 13 6	4,402 16 7
.....	.....	59,709 19 3	59,709 19 3	32,203 15 5
.....	.....	.....	.....	21 0 0
.....	10 19 5	.....	10 19 5	17 0 7
.....	.....	572 0 0	572 0 0	2,180 2 4†
.....	.....	24,755 0 0	24,755 0 0	21,417 0 0
.....	947 9 0	.....	947 9 0	2,252 11 0
.....	.....	.....	.....	575 0 0
.....	.....	200 0 0	200 0 0	.....
.....	.....	.....	.....	123 10 5
.....	.....	Cr. 5,000 0 0	Cr. 5,000 0 0†	51,237 7 11†
39,154 0 4	70,201 13 2	154,827 11 4	264,183 4 10	701,491 11 3

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CAL

Fund	Balances Brought Forward 1st Jan., 1964	Receipts 1964	Total
	£ s. d.	£ s. d.	£ s. d.
<i>Brought Forward: ...</i>	481,225 19 8	484,448 16 5	965,674 16 1
Water Research Foundation of Australia Grant—			
Water Research Reference Library, Manly Vale ...	Dr. 75 15 2	2,000 0 0	1,924 4 10
Wollongong University College Appeal Fund ...	39,344 19 1	Dr. 3,932 13 2*	35,412 5 11
Wollongong University College Library Appeal Fund ...	1,687 3 2	511 4 9	2,198 7 11
Wool Research Committee Grants—			
Translation of Russian Literature ...	7 5 11	Dr. 7 5 11†	.....
Purchase of Textile Machinery ...	2,949 9 6	Dr. 2,949 9 6‡	.....
Wallace Wurth Memorial Lecture Fund ...	207 3 4	217 0 5	424 3 9
Sub-Total: ...	525,346 5 6	480,287 13 0	1,005,633 18 6
Trust Accounts—			
University Union ...	Dr. 824 0 1		
Residential College ...	2,087 12 1		
Sale of Publications—First National Instalment			
Credit Conference ...	.....	
University Union—Radio Receiver Hire Fees ...	.....	
University Unions' Subscriptions ...	104 0 0		
Biochemistry Kit Deposits ...	504 0 0		
Chemistry Kit Deposits ...	7,061 0 0		
Students' Union Subscriptions ...	77 15 0		
Students' Sports Associations' Subscriptions ...	21 3 4		
Key Deposits—			
School of Architecture ...	29 0 0		
School of Civil Engineering ...	1 0 0		
School of Electrical Engineering ...	5 5 0		
Tool Kit Deposits—School of Chemical Technology	88 0 0	16,962 1 0	97,234 6 8
Orthoptic Equipment Deposits ...	14 0 0		
Pathology Instrument Kit Deposits ...	165 0 0		
Anatomy Dissection Manual and Histology Slides			
Deposits ...	355 0 0		
Licence Fees for Services provided at University			
Union ...	54 3 4		
Kensington College Ltd. (Basser College) Fund ...	5,000 0 0		
New South Wales University Press Ltd. Investment			
Fund ...	5,000 0 0		
University of New South Wales Union Investments			
for Capital Purposes Fund ...	60,200 0 0		
Contributions Payable for Use of Canteen, Wollon-			
gong University College ...	195 7 0		
Licence Fees for Use of Facilities, Wollongong			
University College ...	134 0 0		
Working Accounts—			
Central Store Working Advance ...	Dr. 12,982 6 5		
"Duchess" Computer Working Account, School of			
Chemical Engineering ...	.....	
Duplicating Services Working Account ...	.....	
Institute of Highway and Traffic Research—			
I.B.M. Computer Working Account ...	.....	
Purchase of Books for Students in School of			
Librarianship ...	7 3 2	Dr. 1,949 9 5	Dr. 15,849 3 2
Purchase of Radios for Station 2UV—Working			
Account ...	Dr. 1,373 7 7		
Radio Carbon Dating Service Working Account,			
Department of Nuclear and Radiation Chemistry			
Sale of Films Produced by Educational Research Unit	448 17 1		
Carried Forward: ...	591,718 17 5	495,300 4 7	1,087,019 2 0

*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.

ANNEXURE "D"—*continued*AR YEAR 1ST JANUARY, 1964 TO 31ST DECEMBER, 1964—*continued*

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d. 39,154 0 4	£ s. d. 70,201 13 2	£ s. d. 154,827 11 4	£ s. d. 264,183 4 10	£ s. d. 701,491 11 3
1,973 5 7	54 3 10	155 0 5	2,182 9 10	Dr. 258 5 0
.....	205 9 7	205 9 7	35,206 16 4†
.....	26 2 5	1,647 6 8	1,673 9 1	524 18 10
.....
.....
.....	424 3 9†
41,127 5 11	70,281 19 5	156,835 8 0	268,244 13 4	737,389 5 2
.....	Dr. 273 0 11
.....	1,262 7 3
.....	59 17 0
.....
.....	132 0 0
.....	772 0 0
.....	2,913 0 0
.....	288 6 8
.....	134 13 4
.....	29 0 0
.....	1 0 0
.....	5 5 0
.....	88 0 0
.....	2 0 0
.....	270 0 0
.....	550 0 0
.....	80 3 4
.....
.....	5,134 7 6†
.....	85,200 0 0†
.....	327 10 0
.....	257 17 6
.....	Dr 16,802 2 1
.....	1,810 5 10
.....	Dr. 189 9 9
.....	392 13 3
.....	19 18 11
.....	Dr. 997 11 1
.....	Dr. 167 0 3
.....	84 2 0
41,127 5 11	70,281 19 5	156,835 8 0	268,244 13 4	818,774 8 8

STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CAL

Fund	Balances Brought Forward 1st Jan., 1964	Receipts 1964	Total
<i>Brought Forward:</i>	£ s. d. 591,718 17 5	£ s. d. 495,300 4 7	£ s. d. 1,087,019 2 0
Working Accounts (continued)			
Sale of (Union) Publications, Broken Hill Division...	.....	Dr. 1,398 5 11	642 9 4
Summer School of Chemistry, Wollongong University College—1964	192 3 9		
"Thermofax" Copying Machine Working Account, Wollongong University College	23 11 5		
"Utecom" Materials and Maintenance Working Account	447 5 3		
Wool Working Account, School of Textile Technology	1,513 9 10		
Wool Working Account, School of Wool Technology	Dr. 495 10 9	Dr148,170 17 1	649,206 3 2
"Xerox" Copying Machine Working Account, University Library	359 15 9		
Suspense Accounts	797,377 0 3		
Total Other than Newcastle University College	1,391,136 12 11	345,731 1 7	1,736,867 14 6
NEWCASTLE UNIVERSITY COLLEGE—			
Chemistry Kit Purchases and Replacements Account ...	583 8 5	828 15 4	1,412 3 9
Commonwealth Literary Fund Grant ... ..	.....	50 0 0	50 0 0
Donation towards Purchase of Library Books	1,556 14 5	708 15 0	2,265 9 5
Donations towards Purchase of Major Plant for Department of Psychology	25 0 0	120 0 0	145 0 0
English Proficiency Tests for Overseas Students ... ..	.....	10 0 0	10 0 0
Joint Coal Board Grant—Differential Thermal Analysis Equipment ... ..	.....	1,500 0 0	1,500 0 0
Royal Australian Institute of Architects—Donation for Purchase of Library Books	8 6	.....	8 6
Supplementary Grants—Study Leave ... ..	.....	9,250 0 0	9,250 0 0
	2,165 11 4	12,467 10 4	14,633 1 8
Trust Accounts—			
Chemistry Kit Deposits	2,544 0 0	10,657 18 11	13,204 18 11
Union Subscriptions ... ..	.....	
Students' Association Subscriptions	2 0 0		
Students' Sports League Subscriptions	1 0 0		
Suspense Account ... ..	.....	
Unclaimed Moneys ... ..	.....	
Total Newcastle University College	4,712 11 4	23,125 9 3	27,838 0 7
TOTAL SPECIAL PURPOSES (Other Special Purposes)	1,395,849 4 3	368,856 10 10	1,764,705 15 1

†Including investment as per Annexure "F".

Total Investments—

Other than Newcastle University College — £354,760 0 0
Newcastle University College — £2,100 0 0

ANNEXURE "D"—continued

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

Payments 1964				Balances Carried Forward 31st Dec., 1964
Salaries and Staff Superannuation	Equipment and Maintenance	Other	Total	
£ s. d. 41,127 5 11	£ s. d. 70,281 19 5	£ s. d. 156,835 8 0	£ s. d. 268,244 13 4	£ s. d. 818,774 8 8
.....	.....	.....	.....	Dr. 123 10 0
.....
.....	.....	.....	.....	183 10 9
.....
.....	.....	.....	.....	708 2 3
.....	.....	.....	.....	Dr. 1,336 3 0
.....	.....	.....	.....	1,210 9 4
.....	.....	.....	.....	649,206 3 2
41,127 5 11	70,281 19 5	156,835 8 0	268,244 13 4	1,468,623 1 2
.....	1,412 3 9	..... 50 0 0	1,412 3 9 50 0 0	.....
.....	.....	.....	.....	2,265 9 5†
.....	.....	.....	.....	145 0 0
.....	.....	9 5 1	9 5 1	14 11
.....	.....	.....	.....	1,500 0 0
.....
.....	.....	4,800 0 0	4,800 0 0	8 6
.....	.....	.....	.....	4,450 0 0
.....	1,412 3 9	4,859 5 1	6,271 8 10	8,361 12 10
.....	.....	.....	.....	2,124 0 0
.....	.....	.....	.....	7 0 0
.....	.....	.....	.....	4 0 0
.....	.....	.....	.....	3 0 0
.....	.....	.....	.....	11,065 18 11
.....	.....	.....	.....	1 0 0
.....	1,412 3 9	4,859 5 1	6,271 8 10	21,566 11 9
41,127 5 11	71,694 3 2	161,694 13 1	274,516 2 2	1,490,189 12 11

THE UNIVERSITY OF NEW SOUTH WALES
STATEMENT OF TOTAL RECEIPTS AND PAYMENTS FOR THE CALENDAR YEAR 1st JANUARY, 1964, TO
31st DECEMBER, 1964, AND AGGREGATE STATEMENT OF OPERATIONS SINCE THE INCORPORATION
OF THE UNIVERSITY ON 1st JULY 1949, TO 31st DECEMBER, 1964
General Loan Account Grants from N.S.W. State Treasury

Aggregate Position for Period 1st July, 1949, to 31st Dec., 1963	Particulars	Operations 1st January to 31st December, 1964			Aggregate Position for Period 1st July, 1949, to 31st Dec., 1964
		Other than Newcastle University College	Newcastle University College	Total	
£ s. d.		£ s. d.	£ s. d.	£ s. d.	£ s. d.
	<i>Balance brought forward 1st January, 1964</i>	48,921 12 4	16,568 0 11	65,489 13 3	
	<i>Receipts—</i>				
5,089,015 2 3	Grant—N.S.W. State Treasury... ..	134,615 0 0	.....	134,615 0 0	5,223,630 2 3
206,016 18 9	Vestments in N.S.W. Treasury Books ... ..	.....	.....	.....	206,016 18 9
5,295,032 1 0	<i>Total Receipts</i>	134,615 0 0	.....	134,615 0 0	5,429,647 1 0
	<i>Total Receipts plus balance brought forward</i>	183,536 12 4	16,568 0 11	200,104 13 3	
	<i>Payments—</i>				
3,811,844 4 7	Buildings—(including site development)	78,631 4 0	11,809 0 11	90,440 4 11	
	Less Repayments previous year's expenditure	10,533 8 10	.....	10,533 8 10	
		68,097 15 2	11,809 0 11	79,906 16 1	3,891,751 0 8
1,795 0 0	Land ... ..	.....	.....	.....	1,795 0 0
1,194,162 10 0	Major Plant and Equipment	15,312 0 0	4,759 0 0	20,071 0 0	1,214,233 10 0
213,073 11 9	Furniture ... ..	.....	.....	.....	213,073 11 9
8,667 1 5	Basic Library ... ..	.....	.....	.....	8,667 1 5
5,229,542 7 9	<i>Total Payments</i>	83,409 15 2	16,568 0 11	99,977 16 1	5,329,520 3 10
.....	<i>Balance carried forward 31st December, 1964</i>	100,126 17 2	.....	100,126 17 2	100,126 17 2
£5,229,542 7 9	<i>Total Payments plus credit balance carried forward</i>	183,536 12 4	16,568 0 11	200,104 13 3	£5,429,647 1 0

THE UNIVERSITY OF NEW SOUTH WALES
SCHEDULE OF INVESTMENTS AS AT 31st DECEMBER, 1964

Description	Interest Rate	Face Value	Book Value Cost	Maturity Date	Account
	Per Cent.	£ s. d.	£ s. d.		
OTHER THAN NEWCASTLE UNIVERSITY COLLEGE—					
<i>Special Purposes Funds</i>					
<i>Scholarships, Bursaries, Prizes etc.</i>					
<i>(See Annexure "C")</i>					
<i>Metropolitan Water Sewerage and Drainage Board—</i>					
Inscribed Stock—Loan No. 129 ...	4½	250 0 0	250 0 0	1/3/1965	Frank J. Peplow Prize Fund.
—Loan No. 134 ...	4½	600 0 0	600 0 0	1/6/1965	Sydney Technical College Union Prize Fund.
—Loan No. 136 ...	4½	250 0 0	250 0 0	1/9/1965	Simon-Carves (Aust.) Pty. Ltd. Prize Fund.
—Loan No. 262 ...	5½	200 0 0	200 0 0	1/7/1969	Veteran Motorists of Aust. Prize Fund.
—Loan No. 312 ...	5½	1,000 0 0	1,000 0 0	1/8/1967	Pauline Price Scholarship Fund.
—Loan No. 320 ...	5½	300 0 0	300 0 0	1/10/1967	Donations of Royalties towards providing a Prize or Scholarship in Mathematics, Wollongong University College.
—Loan No. 385 ...	5½	500 0 0	500 0 0	1/12/1968	Commercial Banking Co. of Sydney Ltd.
—Loan No. 385 ...	5½	1,500 0 0	1,500 0 0	1/12/1968	Banks' and Business Houses Scholarship in Wool Technology.
—Loan No. 385 ...	5½	400 0 0	400 0 0	1/12/1968	Donations of Royalties towards providing a Prize or Scholarship in Mathematics.
—Loan No. 400 ...	5½	1,500 0 0	1,500 0 0	1/2/1997	Wallace Wurth Memorial Prize in Medicine.
—Loan No. 435 ...	5½	230 0 0	230 0 0	1/6/1970	Wallace Wurth Memorial Prize in Medicine.
—Loan No. 435 ...	5½	300 0 0	300 0 0	1/6/1970	Donation of Royalties towards providing a Prize or Scholarship in Mathematics.
—Loan No. 435 ...	5½	200 0 0	200 0 0	1/6/1970	Mathematics Prize Fund, Wollongong University College.
—Loan No. 435 ...	5½	2,000 0 0	2,000 0 0	1/6/1970	Students' Union Foundation Day, 1962 Scholarship Fund.
—Loan No. 435 ...	5½	30 0 0	30 0 0	1/6/1970	Staff Prize in Psychology.
—Loan No. 435 ...	5½	100 0 0	100 0 0	1/6/1970	L. F. Urwick Prize Fund.
Carried Forward: ...		£9,360 0 0	£9,360 0 0		

SCHEDULE OF INVESTMENTS—continued

ANNEXURE "F"—continued

Description	Interest Rate	Face Value		Book Value Cost		Maturity Date	Account
	Per Cent.	£	s. d.	£	s. d.		
<i>Brought Forward:</i>		9,360	0 0	9,360	0 0		
<i>Prospect County Council—</i>							
Inscribed Stock—Loan No. 58 ...	5½	1,000	0 0	1,000	0 0	1/8/1966	Pauline Price Scholarship Fund—National Institute of Dramatic Art.
—Loan No. 65 ...	5½	50	0 0	50	0 0	1/12/1981	Johnson & Johnson Pty. Ltd.—Prize Fund—Department of External Studies.
<i>Sydney County Council—</i>							
Inscribed Stock—Elect. Loan No. 140...	5½	200	0 0	200	0 0	1/3/1970	J. B. Speakman Prize Fund.
<i>Commonwealth Loan—</i>							
Treasury Bonds—Loan No. 114 ...	5	200	0 0	200	0 0	15/9/1974	Peter Beckman Memorial Prize Fund.
Treasury Bonds—Loan No. 118 ...	5	1,000	0 0	1,000	0 0	15/12/1979	R. J. Webster Prize Fund.
Inscribed Stock—Loan No. 149 ...	5	100	0 0	100	0 0	15/5/1984	L. F. Urwick Prize Fund.
Inscribed Stock—Loan No. 149 ...	5	120	0 0	120	0 0	15/5/1984	Shakespeare Prize Fund in Department of Drama and National Institute of Dramatic Art.
Total Scholarships etc. Investments ...		£12,030	0 0	£12,030	0 0		
<i>Other Special Purposes</i> (See Annexure "D")							
<i>Metropolitan Water Sewerage and Drainage Board—</i>							
Inscribed Stock—Loan No. 136 ...	4½	900	0 0	900	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

Board—(continued)										
Inscribed Stock—Loan No. 370	...	5½	8,000	0	0	8,000	0	0	1/10/1968	University of New South Wales Union.
—Loan No. 385	...	5½	4,500	0	0	4,500	0	0	1/12/1968	University of New South Wales Union.
—Loan No. 385	...	5½	1,000	0	0	1,000	0	0	1/12/1968	Employer's Superannuation Pension Subsidy.
—Loan No. 385	...	5½	3,000	0	0	3,000	0	0	1/12/1968	Donations by late Sir Adolph Basser towards Equipping of Residential College.
—Loan No. 385	...	5½	3,000	0	0	3,000	0	0	1/12/1968	University of New South Wales—Residential College Building Development.
—Loan No. 385	...	5½	600	0	0	600	0	0	1/12/1968	University of New South Wales—Residential College Building Development.
—Loan No. 435	...	5½	33,100	0	0	33,100	0	0	1/6/1970	Donations by late Sir Adolph Basser towards Equipping of Residential College.
—Loan No. 435	...	5½	23,300	0	0	23,300	0	0	1/6/1970	University of New South Wales—Residential College Building Development.
—Loan No. 435	...	5½	2,200	0	0	2,200	0	0	1/6/1970	Student Loan Fund.
—Loan No. 435	...	5½	400	0	0	400	0	0	1/6/1970	Wallace Wurth Memorial Lecture Fund.
—Loan No. 435	...	5½	2,000	0	0	2,000	0	0	1/6/1970	Employer's Superannuation Pension Subsidy Fund.
—Loan No. 435	...	5½	5,000	0	0	5,000	0	0	1/6/1970	New South Wales University Press Ltd.
—Loan No. 435	...	5½	52,000	0	0	52,000	0	0	1/6/1970	University of New South Wales Union.
—Loan No. 435	...	5½	900	0	0	900	0	0	1/6/1970	Wollongong University College Appeal Fund.
—Loan No. 530	...	4½	50,000	0	0	50,000	0	0	1/7/1970	Broken Hill—Establishment of the W. S. & L. B. Robinson University College.
Prospect County Council—										
Inscribed Stock—Private Loan No. 124		5	90,000	0	0	90,000	0	0	21/8/1969	University of New South Wales—Residential College Building Development.
Commonwealth Loan—										
Special Bonds—Series B	...	4-5	5,000	0	0	5,000	0	0	1/10/1966	University of New South Wales—Residential College Building Development.
Special Bonds—Series D	...	4½-5	2,860	0	0	2,860	0	0	1/1/1968	University of New South Wales—Residential College Building Development.
Total Other Special Purposes Investments	...		£354,760	0	0	£354,760	0	0		

SCHEDULE OF INVESTMENTS—continued

ANNEXURE "F"—continued

Description	Interest Rate	Face Value		Book Value Cost		Maturity Date	Account
	Per Cent.	£	s. d.	£	s. d.		
<i>General Funds</i>							
<i>Metropolitan Water Sewerage and Drainage Board—</i>							
Inscribed Stock—Loan No. 60 ...	3½	36,450	0 0	36,079	8 6	1/3/1966	General Investment of Funds Held.
—Loan No. 63 ...	3½	31,300	0 0	30,784	17 1	1/5/1966	General Investment of Funds Held.
—Loan No. 136 ...	4½	9,100	0 0	9,100	0 0	1/9/1965	General Investment of Funds Held.
—Loan No. 136 ...	4½	33,000	0 0	33,222	15 0*	1/9/1965	General Investment of Funds Held.
—Loan No. 136 ...	4½	4,800	0 0	4,854	0 0*	1/9/1965	General Investment of Funds Held.
—Loan No. 139 ...	4½	11,900	0 0	27,185	12 6*	1/10/1965	General Investment of Funds Held.
—Loan No. 89 ...	4½	15,100	0 0				
—Loan No. 320 ...	5½	6,000	0 0	6,000	0 0	1/10/1967	General Investment of Funds Held.
—Loan No. 290 ...	5½	9,500	0 0	9,728	15 10*	1/2/1966	General Investment of Funds Held.
—Loan No. 385 ...	5½	500	0 0	500	0 0	1/12/1968	General Investment of Funds Held.
—Loan No. 435 ...	5½	6,640	0 0	6,640	0 0	1/6/1970	General Investment of Funds Held.
—Loan No. 663 ...	5	50,000	0 0	50,000	0 0	1/8/1969	General Investment of Funds Held.
—Loan No. 675 ...	5½	5,000	0 0	5,000	0 0	1/12/1979	General Investment of Funds Held.
—Private Loan No. 111 ...	5½	50,000	0 0	50,070	16 8	1/9/1968	General Investment of Funds Held.
—Private Loan No. 375 ...	5½	50,000	0 0	50,000	0 0	26/9/1965	General Investment of Funds Held.
<i>Prospect County Council—</i>							
Inscribed Stock—Loan No. 65 ...	5½	50	0 0	50	0 0	1/12/1981	General Investment of Funds Held.
—Private Loan No. 124 ...	5	10,000	0 0	10,000	0 0	21/8/1969	General Investment of Funds Held.
<i>The Sydney County Council—</i>							
Inscribed Stock—Loan No. 180 ...	5½	60,000	0 0	63,118	12 6*	15/12/1966	General Investment of Funds Held.
—Private Loan URA ...	£3 6 3	25,000	0 0	25,040	12 6*	1/2/1965	General Investment of Funds Held.
—Private Loan ORA ...	3½	50,000	0 0	49,804	9 1	1/7/1966	General Investment of Funds Held.
—Private Loan DD ...	£3 6 3	50,000	0 0	49,747	16 1	30/9/1965	General Investment of Funds Held.
<i>Less Investment Amortisation Accounts</i>				516,927	15 9		
<i>Total General Funds Investments ...</i>				1,302	2 3		
		£514,340	0 0	£515,625	13 6		
<i>Total Other than Newcastle University College</i>		£881,130	0 0	£882,415	13 6		

Special Purposes Funds										
<i>Scholarships, Bursaries, Prizes etc.</i>										
(See Annexure "C")										
<i>Metropolitan Water Sewerage and Drainage Board—</i>										
Inscribed Stock—Loan No. 145	...	5½	100	0	0	100	0	0	1/4/1976	B. A. Helmore Prize Fund.
—Loan No. 145	...	5½	500	0	0	500	0	0	1/4/1976	H. L. Wheeler Prize Fund.
—Loan No. 178	...	5½	1,000	0	0	1,000	0	0	1/7/1977	Morison Special Economics Prize Fund.
—Loan No. 199	...	5½	100	0	0	100	0	0	1/7/1978	W. E. Clegg Memorial Prize Fund.
—Loan No. 262	...	5½	100	0	0	100	0	0	1/7/1969	Ernest Helmore Memorial Prize Fund.
—Loan No. 435	...	5½	50	0	0	50	0	0	1/6/1987	A. J. Day Memorial Prize Fund.
—Loan No. 435	...	5½	100	0	0	100	0	0	1/6/1970	Mathematics Prize Fund.
<i>Commonwealth Loan</i>										
Inscribed Stock—Loan No. 102	...	5	100	0	0	100	0	0	15/4/1976	Gertrude Helmore Memorial Prize Fund.
Total Scholarships etc. Investments	...		£2,050	0	0	£2,050	0	0		
<i>Other Special Purposes—</i>										
(See Annexure "D")										
<i>Metropolitan Water Sewerage and Drainage Board—</i>										
Inscribed Stock—Loan No. 435	...	5½	1,500	0	0	1,500	0	0	1/6/1970	Donations towards Purchase of Library Books.
<i>Commonwealth Loan</i>										
Treasury Bonds ... ..	...	5	100	0	0	100	0	0	15/4/1965	Donations towards Purchase of Library Books.
Treasury Bonds ... ..	...	4½	150	0	0	150	0	0	15/11/1965	
Treasury Bonds ... ..	...	3½	100	0	0	100	0	0	15/12/1965	
Treasury Bonds ... ..	...	4½	100	0	0	100	0	0	15/2/1967	
Treasury Bonds ... ..	...	5½	150	0	0	150	0	0	15/8/1970	
Total Other Special Purposes Investments ...			£2,100	0	0	£2,100	0	0		
Total Newcastle University College Investments			£4,150	0	0	£4,150	0	0		
TOTAL INVESTMENTS			£885,280	0	0	£886,565	13	6		

THE UNIVERSITY OF
STATEMENT OF INCOME
GRANTS FOR BUILDING PROJECTS AND EQUIPPING
1st JANUARY, 1964, TO

EXPENDITURE			
Particulars	Other than Newcastle University College	Newcastle University College	Total
	£ s. d.	£ s. d.	£ s. d.
ERECTION OF BUILDINGS—			
Faculty of Science, Kensington—			
Building "A"	7,126 16 9		
Less adjustment previous years' expenditure—Lecture Hall	5,119 2 2		
	2,007 14 7		2,007 14 7
Newcastle Science and Engineering ... ..	.....	376 4 8	376 4 8
	£2,007 14 7	£376 4 8	£2,383 19 3

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

AND EXPENDITURE

UNDER THE STATES GRANTS (UNIVERSITIES) ACT, 1958

TO 31 DECEMBER, 1964

INCOME			
Particulars	Other than Newcastle University College	Newcastle University College	Total
	£ s. d.	£ s. d.	£ s. d.
Balance brought forward 1st January, 1964 ...	2,007 14 7	376 4 8	2,383 19 3
	£2,007 14 7	£376 4 8	£2,383 19 3

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

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

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

THE UNIVERSITY OF
STATEMENT OF INCOME
GRANTS FOR BUILDING PROJECTS, FURNISHINGS
AND EQUIPMENT
UNDER THE STATES GRANTS ACT, 1960
1st JANUARY 1964, to 31st DECEMBER 1964

EXPENDITURE											
						£	s.	d.	£	s.	d.
BUILDING PROJECTS—											
Science Building "A" .....	...	...	...	...	...	778	10	5			
Schools of Medicine and Biological Sciences .....	...	...	...	...	...	5,673	6	11			
Installation of Water, Electricity, Gas and other services and preparation of sites .....	...	...	...	...	...	10,944	16	0			
Halls of Residence .....	...	...	...	...	...	26,381	7	5			
Faculty of Arts .....	...	...	...	...	...	7,074	0	0			
Library .....	...	...	...	...	...	3,414	9	0			
Total Building Projects									54,266	9	9
FURNISHINGS AND EQUIPMENT—											
Science Building "A" .....	...	...	...	...	...	4,554	10	2			
Schools of Medicine and Biological Sciences .....	...	...	...	...	...	25,918	7	0			
University College, Wollongong .....	...	...	...	...	...	239	12	1			
Schools of Mechanical and Electrical Engineering .....	...	...	...	...	...	24,250	10	8			
Halls of Residence .....	...	...	...	...	...	12,463	12	6			
Total Furnishings and Equipment									67,426	12	5
CAPITAL EQUIPMENT									23,834	4	8
Total Expenditure									145,527	6	10
Balance carried forward 31st December, 1964									111,001	18	3
									£256,529	5	1

ANNEXURE "H"

NEW SOUTH WALES

AND EXPENDITURE

INGS AND EQUIPMENT AND CAPITAL EQUIPMENT

(UNIVERSITIES) ACT, 1960-1964

1st DECEMBER, 1964

INCOME				£	s.	d.	£	s.	d.
Balance brought forward 1st January, 1964	...	...	...				256,529	5	1
COMMONWEALTH GRANTS—									
(For Facilities in Teaching Hospitals)—									
Building Projects	...	...	...	254,200	0	0			
Furnishings	...	...	...	10,210	0	0			
Equipment	...	...	...	27,550	0	0			
				291,960	0	0			
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.

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

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

THE UNIVERSITY OF
STATEMENT OF INCOME
GRANTS FOR BUILDING PROJECTS ETC. AND FOR BUILDINGS FOR
UNDER THE UNIVERSITIES (FINANCIAL ASSISTANCE) ACT, 1963-1964,
1ST JANUARY, 1964 TO 31ST DECEMBER, 1964

EXPENDITURE		£	s.	d.	£	s.	d.
BUILDING PROJECTS ETC.—							
KENSINGTON							
Faculties of Arts and Commerce and School of Mathematics ...		230,778	9	10			
Administration		26,660	15	7			
School of Civil Engineering		40,615	14	0			
Library		187,598	1	4			
School of Physics—Alterations		173	11	11			
Robert Heffron Building, School of Chemistry—							
Alterations		26,000	0	0			
Faculty of Applied Science—Alterations		1,097	6	3			
School of Textile Technology—Alterations		514	16	6			
Schools of Chemical Engineering and Chemical Technology—							
Alterations		14,509	12	7			
School of Metallurgy—Alterations		363	8	10			
Faculty of Architecture		2,053	5	8			
Students' Union—Extensions		9,499	19	3			
Minor Works		12,024	13	1			
Installation of Water, Electricity, Gas and Other Services and							
Preparation of Sites		54,015	1	8			
Provision of Sporting Facilities—Daceyville		9,483	18	7			
Halls of Residence		2,000	0	0			
					617,388	15	1
WOLLONGONG							
Students' Union		24,649	12	4			
Department of Metallurgy—Alterations		26,849	17	4			
					51,499	9	8
NEWCASTLE (Shortland)							
Faculties of Arts, Commerce and Science, and Library and							
Administration		104,139	16	6			
Students' Union		1,417	0	0			
Installation of Water, Electricity, Gas and other Services and							
Preparation of Sites		33,687	0	0			
					139,243	16	6
Total Expenditure					808,132	1	3
Balance carried forward 31st December, 1964					710,725	18	9
					£1,518,858	0	0

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.

STATISTICS OF RESIDENCE AND AFFILIATED RESIDENTIAL COLLEGES (FEDERAL ASSISTANCE) ACT 1963-1964

1ST DECEMBER, 1964

[illegible]

E. H. DAVIS,
Accountant.

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
STATEMENT OF INCOME
GRANTS FOR SPECIAL
UNDER THE UNIVERSITIES (FINANCE)
1ST JANUARY, 1964 TO 31ST

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

J. P. BAXTER,
Vice-Chancellor.

NEW SOUTH WALES
AND EXPENDITURE
RESEARCH PURPOSES
CIAL ASSISTANCE) ACT 1963-1964
31ST DECEMBER, 1964

INCOME													
Particulars					Other than Newcastle University College			Newcastle University College		Total			
					£	s.	d.	£	s.	d.	£	s.	d.
Commonwealth Grant					57,000	0	0	5,500	0	0	62,500	0	0
State Grant					57,000	0	0	5,500	0	0	62,500	0	0

THE UNIVERSITY OF
STATEMENT OF INCOME
FOR THE PURPOSES OF THE UNIVERSITY
RECURRENT EXPENDITURE
1st JANUARY, 1964 TO 31st DECEMBER, 1964

EXPENDITURE													
								£	s.	d.	£	s.	d.
Salaries and Wages	...	...	...	...	...	...	...	4,539,689	2	0			
Employer's Contribution to Superannuation Fund	...	...	...	...	...	...	...	163,914	1	7			
Pay-roll Tax	...	...	...	...	...	...	...	117,220	17	1			
Workers' Compensation Insurance Premiums and Other Staff Charges	...	...	...	...	...	...	...	15,369	6	3			
											4,836,193	6	11
Teaching and Research—													
Departmental Maintenance and Minor Equipment	...	...	...	...	...	...	...				536,920	10	3
Plant—													
Capital*	...	...	...	...	...	...	...	31,452	0	6			
Revenue	...	...	...	...	...	...	...	188,529	15	4			
											219,981	15	10
Repairs, Alterations and General Maintenance of Buildings—													
Capital*	...	...	...	...	...	...	...	50,846	15	10			
Revenue	...	...	...	...	...	...	...	98,554	1	1			
											149,400	16	11
Books, Periodicals and Pamphlets	...	...	...	...	...	...	...				142,094	8	6
Power, Lighting and Heating	...	...	...	...	...	...	...				76,514	5	8
Administration and General Overhead—													
Materials, Travelling Expenses etc.	...	...	...	...	...	...	...				70,134	1	2
Telephones and Advertising	...	...	...	...	...	...	...				69,604	16	10
Printing and Postages	...	...	...	...	...	...	...				52,449	14	11
Contributions, Grants and Subscriptions	...	...	...	...	...	...	...				45,205	0	0
Furniture	...	...	...	...	...	...	...				42,184	3	6
Expenses of New Appointments	...	...	...	...	...	...	...				24,073	15	2
Rates and Property Insurance	...	...	...	...	...	...	...				23,382	4	6
Examination Expenses	...	...	...	...	...	...	...				16,071	14	11
Expenses of Motor Vehicles	...	...	...	...	...	...	...				11,120	4	6
Bursaries	...	...	...	...	...	...	...				5,322	6	6
Rentals	...	...	...	...	...	...	...				2,432	7	7
Legal Fees and Similar Charges	...	...	...	...	...	...	...				200	17	6
Miscellaneous Expenses	...	...	...	...	...	...	...				13,203	18	5
Total Expenditure	...	...	...	...	...	...	...				6,336,490	9	7
Balance carried forward 31st December, 1964	...	...	...	...	...	...	...				73,189	1	7
											£6,409,679	11	2

*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 expenditure on special research purposes, on University purposes.

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

SYDNEY, 21st October, 1965.

1ST DECEMBER, 1964

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

CALENDAR OF THE UNIVERSITY OF NEW SOUTH WALES 1966 VOL. 2

S 378.94405 / NEW / 1 B