

## LIBRARY SECTION

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This most important branch of the Association had not been given the attention that it deserved, not from want of thought on the part of previous councillors of the Association, but from the fact that its maintenance and upkeep on a modern basis absorbed too much of the funds available.

Upon the receipt of the Sir P. N. Russell bequest, however, matters appeared in a more favourable light, for we were able to set aside the whole of the interest accruing from this money for the sole purpose of library extension.

Much debate naturally took place as to the wisdom of a small body like this embarking upon a library of its own. But careful consideration has been given to the class of text book purchased, and to the way in which the money was expended upon binding and purchasing other books, periodicals and transactions. Generally speaking, no text book was placed on the shelves until it had been passed by a majority of the library committee, and even then if it treated with any specialized section it was handed to a member fully qualified to express an opinion as to its suitability for our needs. In this manner has our text book section been built up.

It has been very gratifying indeed to those interested to note the steady demand for more reading matter in our Association; more particularly does this apply to the student and junior members, and it is for these that the Council has always endeavoured to cater. No doubt in years to come the library will have attained to the standard that the present Council have in view, and it is to be hoped that the future Institution of Engineers, Australia, will add to and maintain the works already in existence with this object in view. We have no fears, however, in this regard.

We attach herewith a list of the various books, proceedings, etc., as a record of our efforts in the past.

#### List of Text Books and Other Proceedings

donated by various Scientific Bodies, now available for reference at the Society's Room, 5 Elizabeth Street, Sydney.

#### Memo re Borrowing Text Books for Reference

Text Books only may be borrowed by members for a period of three days, but if not in demand, a book may be kept for a further period of three days, when it is to be returned to the Librarian.

All books are available for reference from 11 a.m. to 5 p.m. week days, 10 a.m. to 12 noon, Saturdays.

#### List of Text Books—Subject Index.

Accident Prevention, Industrial .....	<i>Meyer</i>
Aeroplane, The .....	<i>Hubbard, Ledeboer &amp; Turner</i>
Aeroplane, Mechanics of the .....	<i>Duchene</i>
Air-plant, Compressed .....	<i>Peele</i>
Air-practice, Compressed .....	<i>Richards</i>
Alternating Currents .....	<i>Hay</i>
Alternating Current Motors .....	<i>McAllister</i>
American Petroleum Industry, 2 Vols. ....	<i>Bacon &amp; Hamor</i>
Appliances, Mechanical .....	<i>Hiscox</i>
Applied Electrochemistry and Welding .....	<i>Burgess-Cravens</i>
Applied Mechanics .....	<i>Andrews</i>
Architecture, Naval .....	<i>Peake</i>
Architecture, Theoretical Naval .....	<i>Attwood</i>
Australian Building Practice .....	<i>Nangle</i>
Australian Roads .....	<i>Cozne</i>
Australian Timbers .....	<i>Warren</i>
Autogenous Welding .....	<i>Granjon &amp; Rosenburg</i>
Beams, Girders and Columns, Design of .....	<i>Atherton</i>
Bearings .....	<i>Alford</i>
Bins and Grain Elevators, Walls .....	<i>Ketchum</i>
Boiler Construction .....	<i>Cruickshank</i>
Boilers, Marine .....	<i>Stromeyer</i>
Boilers, Marine Engines and .....	<i>Bauer &amp; Robertson</i>
Bridges, 3 Vols. and Supplement .....	
Bridge Construction .....	<i>Fidler</i>
Bridge Construction .....	<i>Haupt</i>
Bridge Engineering, 2 Vols. ....	<i>Waddell</i>
Building Practice, Australian .....	<i>Nangle</i>
Building Construction .....	<i>Prof. H. Adams</i>
Buildings, Application of Iron to .....	<i>Fairbairn</i>
Buildings, Steel Mill .....	<i>Ketchum</i>
Calculations for Engineers .....	<i>Larard &amp; Golding</i>
Cane Sugar .....	<i>Deerr</i>
Cement Industry, Portland .....	<i>Brown</i>
Centrifugal Pumps .....	<i>Loewenstein &amp; Crisse</i>

Chemistry, Engineering .....	<i>Phillips</i>
Civil Engineering .....	<i>Rankine</i>
Civil Engineering Practice .....	<i>Taylor</i>
Coal Gas, Manufacture of .....	<i>Richards</i>
Coking Practice, Modern .....	<i>Byrom &amp; Christopher</i>
Collieries, Mechanical Engineering of, 3 Vols. ....	<i>Futers</i>
Columns, Design of Beams, Girders and .....	<i>Atherton</i>
Compressed Air Plant .....	<i>Peele</i>
Compressed Air Practice .....	<i>Richards</i>
Concrete, Plain and Reinforced .....	<i>Taylor &amp; Thompson</i>
Condensing, Cooling and Evaporating Apparatus .....	<i>Hausbrand</i>
Conductors and Lightning Guards .....	<i>Lodge</i>
Construction, Locomotive .....	<i>Meyer</i>
Construction and Drawing, Machine Design .....	<i>Spooner</i>
Contracts, Specifications, & Engineering Relations .....	<i>Mead</i>
Continuous Current Dynamo Design .....	<i>Hobart</i>
Control of Water, The .....	<i>Parker</i>
Corrosion and Preservation of Iron and Steel ....	<i>Cushman &amp; Gardner</i>
Costs, Counting House and Factory Organisation .....	<i>Williamson</i>
Cranes .....	<i>Bottcher &amp; Tolhausen</i>
Cranes, Electric .....	<i>Broughton</i>
Data, Etc., for Mechanical Engineers .....	<i>Clark</i>
Design, Construction and Drawing, Machine .....	<i>Spooner</i>
Design of Steel Bridges .....	<i>Kunz</i>
Designing, Theory and Practice in .....	<i>Adams</i>
Dictionary, American Mechanical, 3 Vols. ....	<i>Knight</i>
Dictionary, English Language .....	
Dictionary of Engineering, 3 Vols. ....	<i>Spon</i>
Diesel Engines .....	<i>Chalkley</i>
Drop-forging, Die-sinking, and Machine Forming of Steel ..	<i>Woodworth</i>
Drying Machinery and Practice .....	<i>Marlowe</i>
Dynamo Design, Continuous Current .....	<i>Hobart</i>
Earth Pressure, Walls and Bins .....	<i>Cain</i>
Electric Cranes .....	<i>Broughton</i>
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Electrical Engineering, Elements of .....	<i>Sewell</i>
Electricity, Modern Views of .....	<i>Lodge</i>
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Engineering Chemistry .....	<i>Phillips</i>
Engineering Dictionary, 3 Vols. ....	<i>Spon</i>
Engineering Handbook .....	<i>Reed</i>
Engineering, Textbook of Mechanical .....	<i>Lincham</i>
Engineers' Handbook .....	<i>Kempe</i>
Engineers, Calculations for.....	<i>Larard &amp; Golding</i>
Engineers, Manual of Rules, Tables, and Data for .....	<i>Clark</i>
Engineers' Mechanical Pocket Book .....	<i>Kent</i>
Engineers, Useful Information for .....	<i>Fairbairn</i>
Engines, Testing of Motive Power .....	<i>Royds</i>
Engines, Theory of Heat .....	<i>Inchley</i>
Evaporating, Condensing and Cooling Apparatus .....	<i>Hausbrand</i>
Fats and Greases, Lubricating Oils .....	<i>Hurst</i>
Factory Administration and Accounts .....	<i>Elbourne</i>
Flour Manufacture .....	<i>Amos</i>
Forging-drop, Die-sinking .....	<i>Woodworth</i>

Foundry Practice, Modern .....	<i>Sharp</i>
Friction and Lost Work in Machinery .....	<i>Thurston</i>
Fuel Economy, Smoke Prevention and .....	<i>Booth &amp; Kershaw</i>
Fuel, Introduction to Study of .....	<i>Brislee</i>
Fuel Oil .....	<i>Butler</i>
Fuel, Treatise on .....	<i>Galloway</i>
Ganots' Physics .....	<i>Atkinson &amp; Reinold</i>
Gas, Manufacture of Coal .....	<i>Richards</i>
Gas Producer .....	<i>Dowson &amp; Larter</i>
Gas Engines .....	<i>Goodeve</i>
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Gas Engines Manual .....	<i>Tookey</i>
Gas, Petrol and Oil Engine, 2 Vols. Vol. 1, <i>Clerk</i> ; Vol 2; <i>Clerk &amp; Burls</i>	
Gearing, Mill .....	<i>Box</i>
Girders and Columns, Design of Beams .....	<i>Atherton</i>
Girders and Similar Structures, Strains in .....	<i>Stoney</i>
Grain Elevators, Wall, Bins, and .....	<i>Ketchum</i>
Graphic Statics, 4 Vols. ....	<i>Charnock</i>
Greases, Lubricating Oils, Fats, and .....	<i>Hurst</i>
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Handbook for Machine Designers, Shop Men & Draftsmen ...	<i>Halsey</i>
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Handbook of the Steam Engine .....	<i>Haeder &amp; Powles</i>
Handling and Storing of Material .....	<i>Zimmer</i>
Harbour Engineering .....	<i>Cunningham</i>
Heat for Engineers .....	<i>Darling</i>
Heat, Theory of .....	<i>Maxwell</i>
Heat, Treatise on .....	<i>Box</i>
Heat Engines, Theory of .....	<i>Inchley</i>
Highway Engineering .....	<i>Blanchard &amp; Droune</i>
Hydraulics, 2 Vols. ....	<i>Dunkerley</i>
Hydraulics, Treatise on .....	<i>Unwin</i>
Hydraulic Machinery, Modern Pumping and .....	<i>Butler</i>
Hydraulic Tables, Coefficients and Formulae .....	<i>Neville</i>
Industrial Accident Prevention .....	<i>Meyer</i>
Industrial Chemistry—Inorganic .....	<i>Martin</i>
Industrial Chemistry—Organic .....	<i>Martin</i>
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Inspection of Railway Materials .....	<i>Bodmer</i>
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Locomotive Construction, Modern .....	<i>Meyer</i>
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Lubrication and Lubricants .....	<i>Archbutt &amp; Deeley</i>
Machine Design, Construction and Drawing .....	<i>Spooner</i>

Machine Forming of Steel, Drop-forging, and Die-sinking ..	<i>Woodworth</i>
Machinery and Mill Work, Friction and Lost Work in ....	<i>Thurston</i>
Machinery and Practice, Drying .....	<i>Marlowe</i>
Macrow's Pocket Book .....	<i>Macrow</i>
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Rules and Tables, 3 Vols. ....	<i>Prof. Rankine</i>
Rules and Tables and Data for Mechanical Engineers .....	<i>Clark</i>
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Welding, Autogenous .....	<i>Granjon &amp; Rosenburg</i>
Welding, Oxy-acetylene .....	<i>Miller</i>

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 ADAMS, Prof. Henry—Building Construction.  
 ALFORD—Bearings.  
 AMOS—Processes of Flour Manufacture.  
 ANDREWS—Applied Mechanics.  
 ARCHBUTT & DEELEY—Lubrication, 7 Lubricants.  
 ATHERTON—The Design of Beams, Girders and Columns.  
 ATKINSON & REINOLD—Ganot's Physics.  
 ATTWOOD—Text Book of Theoretical Naval Architecture.  
 BACON & HAMOR—American Petroleum Industry, 2 Vols.  
 BARLOW—Strength of Materials.  
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 BAUER & ROBERTSON—Marine Engines and Boilers.  
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 BLANCHARD & DROWNE—Text Book of Highway Engineering.  
 BODMER—Inspection of Railway Materials.  
 BOOTH & KERSHAW—Smoke Prevention and Fuel Economy.  
 BOTTCHER & TOLHAUSEN—Cranes, Construction, Equipment and Working.  
 BOURNE—The Steam Engine.  
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 BRISLEE—An Introduction to the Study of Fuel.  
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 BURLS, CLERK and—The Gas, Petrol and Oil Engine.  
 BUTLER—Modern Pumping and Hydraulic Machinery.  
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 CLARK—Manual of Rules, Tables and Data for Mechanical Engineers.  
 CLARK—Tramways—Their Construction and Working.  
 CLERK—The Gas, Petrol and Oil Engine, Vol. 1.  
 CLERK & BURLS—The Gas, Petrol and Oil Engine, Vol. 2.  
 CLOSE & COX—Topographical Surveying.  
 COANE—Australasian Roads.  
 CRISSEY, LOEWENSTEIN and—Centrifugal Pumps, Design and Construction.  
 CHRISTOPHER, BYROM and—Modern Coking Practice.  
 CRUICKSHANK—Principles and Practice of Boiler Construction.  
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 DEELEY, ARCHBUTT and—Lubrication and Lubricants.  
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- DOWSON & LARTER—Producer, Gas.  
 DROWNE, BLANCHARD and—Text Book on Highway Engineering.  
 DUCHENE—The Mechanics of the Aeroplane.  
 DUNKERLEY—Hydraulics, 2 Vols.  
 ELSDEN, GREENWELL and—Practical Stone Quarrying.  
 ELEY—How to Save a Big Ship.  
 ELBOURNE—Factory Administration and Accounts.  
 FAIRBAIRN—Useful Information for Engineers.  
 FIDLER—A Practical Treatise on Bridge Construction.  
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 FLEMING—Wireless Telegraphist's Pocket Book.  
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 FUTERS—Mechanical Engineering of Collieries.  
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 GRANJON & ROSENBERG—Autogenous Welding.  
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 HAEDER & HUSKISSON—Handbook on the Gas Engine.  
 HAEDER & POWLES—Handbook of the Steam Engine.  
 HALSEY—Hand Book for Machine Designers, Shop Men and Draftsmen.  
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 HOOL—Reinforced Concrete Construction, 3 Vols.  
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 HURST—Valves and Valve-Gearing.  
 HURST—Lubricating Oils, Fats and Greases.  
 INCHLEY—The Theory of Heat Engines.  
 JAMIESON—Steam and Steam Engines, including Turbines and Boilers.  
 JOHNSON—Theory and Practice of Surveying.  
 KEMPE—Engineers' Hand Book.  
 KENT—Mechanical Engineers' Hand Book.  
 KERSHAW, BOOTH and—Smoke Prevention and Fuel Economy.  
 KETCHUM—Steel Mill Buildings.  
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 PEELE—Compressed Air Plant.  
 PEEL—Mining Engineers' Handbook.  
 PHILLIPS—Engineering Chemistry.  
 POPPLEWELL—The Prevention of Smoke.  
 POWLES, HAEDER and—Hand Book of the Steam Engine.  
 PRENTIS & WHITE—Modern Underpinning.  
 RANKINE—Civil Engineering.  
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 SPON—Dictionary of Engineering, 3 Vols.  
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 TAYLOR, F. W.—The Art of Cutting Metals.  
 TAYLOR, F. NOEL—Manual of Civil Engineering Practice.  
 TAYLOR & THOMPSON—Concrete—Plain and Reinforced.  
 THURSTON—Friction and Lost Work in Machinery and Mill Work.  
 TOOKEY—The Gas Engine Manual.  
 TRUMBULL—Underground Surveying.  
 TURNER, HUBBARD, LEDEBOER and—The Aeroplane.  
 TYNDALL—On Light  
 UNWIN—A Treatise on Hydraulics.  
 UNWIN—Text Books of Science, Vol. 1.  
 UNWIN AND MELLANBY—Text Book of Science, Vol. 2.  
 WADDELL—Bridge Engineering.

- WALTON—Steel Ships.  
 WARREN—Australian Timbers.  
 WELLINGTON—Economic Theory of Railway Location.  
 WHITE & PRENTIS—Modern Underpinning.  
 WIMPERIS—The Internal Combustion Engine.  
 WILLIAMSON—Counting House and Factory Organisation.  
 WOODSWORTH—Drop-forging, Die-sinking and Machine Forging of Steel.  
 ZIMMER—The Mechanical Handling and Storing of Material.

**List of Proceedings and Transactions Donated.**

- Proceedings of the Institute of Civil Engineers, 1862-1916.  
 Proceedings of the Institute of Mechanical Engineers, 1881-1917.  
 Journal of the Institute of Electrical Engineers, 1892-1917.  
 Transactions of the Society of Engineers, 1861-1916.  
 Proceedings of the Institution of Automobile Engineers, 1911-1916.  
 Transactions of the Liverpool Engineering Society, 1909-1915.  
 Transactions of the North-east Coast of Engrs. and Shipbuilders, 1884-1898.  
 Transactions of the Engineers and Shipbuilders in Scotland, 1886-1916.  
 Transactions of the Institute of Naval Architects, 1879-1916.  
 Transactions of the North of England Mining and Mech. Engrs., 1885-1915.  
 Transactions of the Institution of Gas Engineers, 1915-16.  
 Transactions of the Institution of Water Engineers, 1915.  
 Proceedings of the Huddersfield Engineering Society, 1916.  
 Transactions of the Institute of Marine Engineers, 1909-1915.  
 Transactions of the Royal Scottish Society of Arts.  
 Transactions of the American Inst. of Electrical Engineers, 1891-1899.  
 Proceedings of the American Society of Civil Engineers, 1887-1917.  
 Transactions of the American Institute of Mining Engineers, 1886-1917.  
 Journal of the Western Society of Engineers, 1899-1917.  
 Proceedings of the Engineers' Club of Philadelphia, 1890-1912.  
 Bulletins of the University of Illinois, 1906-1917.  
 Society of Naval Architects and Marine Engineers, 1906-1916.  
 Publications of the John Crerar Library.  
 Publications of the Smithsonian Institute.  
 The Locomotive, 1912-1915.  
 Publications of the Travellers' Insurance Co., 1917.  
 Transactions of the Canadian Society of Civil Engineers, 1890-1917.  
 Proceedings of the Royal Society of Canada.  
 Proceedings of the Nova Scotian Institute of Science.  
 Transactions of the South African Inst. of Electrical Engrs., 1915-1917.  
 Transactions of the New Zealand Institute, 1915.  
 Proceedings of the Australasian Inst. Mining Engrs., 1897-1917.  
 Proceedings of the Victorian Inst. of Engineers, 1883-1913.  
 Proceedings of the South Australian Inst. of Engrs., 1913-1915.  
 Proceedings of the West Australian Inst. of Engrs., 1910-1913.  
 Proceedings of the Northern Engineering Inst. of N.S.W., 1889-1916.  
 Proceedings of the Sydney University Engineering Scy., 1900-1912.  
 Proceedings of the Royal Society of N.S.W., 1888-1917.  
 Proceedings of the Electrical Association of N.S.W., 1914-1915.  
 Proceedings of the Barrow and District Association of Engineers.  
 Proceedings of the Midland Institute of Civil and Mechanical Engineers.  
 Proceedings of the Cold Storage and Ice Association.  
 Proceedings of the Iron and Steel Institute.

**List of Magazines, Periodicals, &c., Donated.**

The Engineer, 1869-1917.  
 Engineering, 1886-1917.  
 The United Empire.  
 The Power User.  
 The Colliery Guardian.  
 Journal of the Manchester Steam Users' Association.  
 The Practical Engineer.  
 Concrete, 1914-1917.  
 Science Abstracts, 1917.  
 Journal of Letters Patent.  
 Indian Engineering.  
 The Technical Gazette, Sydney Technical College.  
 Architecture.  
 The Australian Statesman and Mining Standard.  
 The Commonwealth Engineer.  
 The Australian Mining and Engineering Review.  
 The Contract Reporter.  
 Report of the Trustees of the Australian Museum.  
 The Railway and Tramway Budget of N.S.W.  
 Annual Report of the Chief Inspector of Machinery, West Australia.  
 Annual Report of the Chief Inspector of Machinery, Brisbane.  
 Annual Report of the Railway Commissioner, South Australia.  
 The Railway Engineer.  
 Engineering News Record  
 Industrial Management.  
 Machinery.

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**Library and Reading Room Rules.**

In accordance with a resolution passed at the Council meeting on November 1st, 1917:—

1. The interest from the P. N. Russell bequest is to be wholly expended on the Library in such sums as Council may from time to time determine.

2. The Library Committee shall consist of three corporate members of the Association, in addition to the Hon. Librarian and the Hon. Secretary of the Association.

At least three members of the Committee shall be members of the Council.

Three members of the Committee shall form a quorum.

3. The Library Committee shall be appointed annually at the first meeting of Council after the Annual General Meeting.

4. The Library Committee shall have power to expend up to £10 in the purchase of books or in binding, etc., without first obtaining the consent of Council, but all accounts for payment must be passed by the Council.

5. Subject to the approval of Council, the Library Committee shall make rules for the management of the Library.

It shall be responsible for the binding and purchasing of books, periodicals, papers, etc., and for the expenditure of all money in connection with the Library voted by Council for its use, and shall arrange for the insurance and safe housing of all books, papers, specimens, etc., under its control.

It shall annually make an examination of the property in connection with the Library, and report at the October meeting of Council, detailing the state of the Library affairs.

6. Keys of the Library presses shall be held by the Hon. Librarian and the Hon. Secretary of the Association.

7. Except when closed on Public Holidays or by special order of the Library Committee, the Library and Reading Room shall be open from 11 a.m. to 5 p.m. Mondays to Fridays, and 10 a.m. to noon Saturdays, also on General Meeting nights from 7 p.m. until 8 p.m.

8. Books shall not be lent to any persons except Corporate Members, Hon. Members, Associates, Graduates or Students of the Association, but a person entitled to borrow a book may send a messenger with a signed order for it.

9. Each Member shall be entitled to introduce a friend to the Reading Room, whose name shall be written in the Visitors' Book, together with that of the Member introducing him.

Library privileges to the extent of reference are extended to members of any Institution or

Society with which this Association exchanges proceedings.

10. No person shall borrow or have in his possession at one time more than two volumes belonging to the Library.

11. No unbound Transactions, Proceedings, Periodicals, Magazines or Pamphlets shall be taken from the Library.

12. Text-books may be lent for a period of 1 week, and, if not in demand, for a further period of three days, when they must be returned to the Librarian.

13. Transactions, Proceedings, Periodicals, etc., more than ten years old, shall be for consultation in the Library only, and shall not be lent. Those ten years old or less may be lent under the same conditions as Text-books.

14. The Library Committee shall have power to state that any particular book shall be for consultation in the Library only, and shall not be lent.

15. The Librarian shall keep a Register, in which shall be entered the titles of the books lent, the date of lending, the name of the borrower, and the date of the return of the book or books to the Library. The borrower of the book or books, or the bearer of his order, shall initial the entry of such borrowing, and the Librarian or Attendant shall initial the date of the return of the book.

16. The borrower shall be responsible for the safe return of the book, and if it be damaged or lost he shall make good such damage or loss. The Hon. Librarian shall advise the last borrower to this effect within three days of knowledge of the same.

NOTE.—The foregoing Rules may be amended at any time by the Library Committee, with the sanction of the Council.

(Signed) J. McNAMARA,  
Hon. Secretary.