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Canadian Institute.

ANNUAL REPORT OF THE COUNCIL, 1855.

The Council of the Canadian Institute have the honour to submit to the Members, the following Report of the operations of the past Session, and of the proceedings adopted by the Council with a view to the still more effective furtherance of the objects for which the Institute has been founded.

The Council have much satisfaction in reporting, that the progress of the Institute, as indicated by the number of its members, continues to furnish gratifying evidence of the increasing hold it is acquiring on the Province. Last year the Council drew attention to the fact that the members—who numbered only 112 at the close of 1851, the first year of incorporation—had increased, in all, to 333, and since then we have to report a further addition of 104 members, which, after deducting eighteen, resigned or deceased, make the present number of members constituting the Canadian Institute, 419, exclusive of those of the Athenæum.

In the last Annual Report, the Council referred to the anticipated amalgamation of the Athenæum with the Canadian Institute. This highly desirable union has since been happily completed. A permissive Act, giving the Athenæum full power to effect a junction with the Institute, was passed during the last Session of the Provincial Parliament, and since then the requisite deeds have been executed, and the valuable Library and Collection of Minerals have been transferred to the Canadian Institute. The importance of the addition thus acquired to the Library can scarcely be too highly estimated, as it consists, in all, of 800 volumes, including the Transactions of various of the leading Scientific and Literary Societies of Great Britain, as well as other works of a strictly scientific character. The Council recommend to their successors the duty of completing and continuing the valuable serial publications thus acquired; and of cultivating that intercourse with the Scientific Societies not only of Britain, but of Europe, which may secure an interchange of a class of publications so beneficial to the Institute.

The Minerals added to the Museum, in consequence of this amalgamation, it is believed will also prove a valuable addition to the collections of the Institute; but the difficulties attendant on their removal, and the very brief period that has elapsed since the completion of the requisite legal deeds for effecting the union with the Athenæum, have prevented a minute examination of them; and the Council would suggest the appointment of a small Committee, to superintend their classification, and to report on their nature and value.

The duty will devolve on the new Council to adopt means for carrying out, in the most liberal spirit, the conditions annexed to the acquisition of the Library of the Athenæum, whereby the Institute becomes bound to afford the public free access to the joint Library, under such restrictions as may be found requisite for its safety. In thus establishing a Library of Reference, specially designed to afford facilities for scientific and literary research, the Council feel assured that the members will hail it as an additional step in furtherance of the objects of the Institute, rather than as a condition detracting in any degree from the value of the increase made to the collections.

The Council avail themselves of this opportunity to record the obligations under which they, as well as all the members of the Institute, are laid to Oliver Mowat, Esq., one of their number, by whom all the requisite legal deeds, for effecting the union of the Athenæum with the Canadian Institute, have been gratuitously prepared and executed.

The additions made to the Library, by purchase, during the past year, include some works of value, among which the Council have been indebted to Lieutenant-Colonel Lefroy's good services, for enabling them to acquire seventeen volumes of the Philosophical Transactions, wanted to complete the Library set. But the Council have been induced to curtail their expenditure, in this and other respects, in anticipation of the inevitable outlay attendant on the resumption by the Government of the rooms provided for the use of the Institute in Government House.

The following List comprises the additions which have been made to the Library, by purchase, during the past year:—

Books Purchased for the Library.

	Vols.
Hand Book of Chemistry, by Leopold Gmelin, Professor of Chemistry in the University of Heidelberg, &c., &c., Vols. 1 to 8	8
Physiological Chemistry, by Prof. C. G. Lehman, translated by George E. Day, M.D., F.R.S., Vols. 1 & 2	2
Life of the Hon. Henry Cavendish, including abstracts of his more important scientific Papers, and a critical inquiry into the claims of all alleged discoveries of the composition of Water; by George Wilson, M.D., F.R.S.E., Lecturer on Chemistry, Edinburgh	1
Elements of Chemical and Physical Geology, by Gustav Bischof, Ph. D., Prof. of Chemistry and Technology in the University of Bonn; translated from the manuscript of the author by Benjamin H. Paul, F.C.S., & J. Drummond, M.D., Vcl. 1	1

Pres. Miss M. Gould

Life of John Dalton, by Wm. C. Henry, M.D., F.R.S.....	1
The Planetary System, its Order and Physical Structure, by J. P. Nicholl, LL.D., Prof. of Astronomy in the University of Glasgow, &c.....	1
Encyclopaedia Metropolitana, or System of Universal Knowledge. Third edition enlarged; second division applied sciences: Photography.....	1
Atlas of Physiological Chemistry, consisting of microscopic Figures, by Dr. Otto Funke, a Supplement to Lehman's Physiological Chemistry.....	1
A Pamphlet accompanying do., by the same author.....	1
Report of Sixth Anniversary Meeting of the Cavendish So. London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science, January, 1855.....	1
February, ".....	1
March, ".....	1
April, ".....	1
May, ".....	1
June, ".....	1
The Ethnological Journal—a Magazine of Ethnographical and Antiquarian Science. Edited by Luke Burke, Esq. New series, published quarterly.—No. 1, Jan., 1854.....	1
Philosophical Transactions for the years 1817-18-21-22-23-24-25, two Vols.—26, two Vols.—27-28-29-30-31-32 and 33—total Vols.....	17

The following books have been bound, and added to the Library, from the Periodicals received during previous years :

Journal of the Franklin Institute, 1851.....	2	
" " " " 1852.....	2	
Athenæum, 1840.....	1	} Gift from Lt. Col. Lefroy.
" " " " 1841.....	1	
Athenæum, 1851.....	1	
" " " " 1853.....	1	
Transactions of the Board of Agriculture of Upper Canada, 1853.....	1	
Journal of Education, Upper Canada, 1853.....	1	
The Artizan, 1851.....	1	
" " " " 1852.....	1	
" " " " 1853.....	1	
London Quarterly Review, 1852.....	1	
" " " " 1853.....	1	
North British Review, 1852-3.....	1	
Westminster, " " 1852.....	1	
Edinburgh, " " 1852.....	1	
" " " " 1853.....	1	
Blackwood, July to December, 1852.....	1	
Civil Engineer and Architect's Journal, 1852....	1	
Anglo American, Vol. II. }.....	4	
" " " " III. }.....		
" " " " IV. }.....		
" " " " V. }.....		
Appleton's Mechanics' Magazine, 1851.....	1	
" " " " 1852.....	1	
" " " " 1853.....	1	
Art Journal, 1853.....	1	
" " " " 1854.....	1	
Blackwood's Magazine, 1854.....	2	
Westminster, 1854.....	1	
London Quarterly, 1854.....	1	
Edinburgh, Review, 1854.....	1	
Illustrated London News, 1853.....	2	
" " " " 1854.....	2	
Journal of the Franklin Institute, 1853.....	2	
" " Society of Arts, London, 1852-3. 1	1	
Civil Engineer and Architects' Journal, 1853, Vol. XVI.....	1	
Journal of Education, 1854.....	1	

The Council have great pleasure in acknowledging the liberality with which contributions continue to be made to the Library; and they feel assured that nothing is wanted but a permanent building, with suitable accommodation for the adequate display of the collections, to secure for the Institute a Library and Museum, alike creditable to itself, and of practical benefit in advancing the cause of science in the Province. The

following are the donations which have been received since last report:—

Donations to the Library.

	Vols.	
The Geology of the Island of Arran, by A. C. Ramsey.....	1	A. H. Armour.
Handbook for Field Service, edited by Captain Lefroy, Royal Artillery.....	1	Capt. Lefroy.
*Report of the Comrs. of Public Works for the years 1853 and 1855.....	1	Hon. W. B. Robinson.
*Return relating to Judicial Officers in L. Ca. 1	1	
*Titles & Documents relating to the Seigniorial Tenure, in return to an address of the Legislative Assembly, 1851.....	1	Thos. Henning.
*Edicts, Ordinances, Declarations, and Decrees relative to the Seigniorial Tenure, required by an address of the Legis. Assem., 1851....	1	
*Relation abrégée de quelques Missions des Pères de la Comp. de Jesus dans la Nouvelle France	1	
Transactions of the Literary and Historical Society of Quebec, Vols. I. & II.....	2	A. E. Meredith.
Annual Report of the Normal, Model, and Grammar Schools in U.C., year 1853.....	1	Dep't of Pub. Instruction, U.C.

From Mr. Bohn, per A. H. Armour:—

Cowper's Works, Vol. IV.....	1	
" " " " Vols. V. & VI.....	2	
Hungary, its History and Revolutions.....	1	Stand. Library.
History of Russia from the earliest Period... 1	1	
Locke's Philosophical Works, Vol. II.....	1	
Defoe's Works, edited by Sir W. Scott, Vol. I. 1	1	
" " " " Vol. II. 1	1	
Gibbon's Roman Empire, Vols. IV. & V.....	2	British Classics.
Prior's Life of Burke.....	1	
Burke's Works—Vindication of Nature, &c.....	1	
The Elegies of Propertius, &c.....	1	
The Geography of Strabo, Vol. I.....	1	Classical Lib'y
Xenophon's Anabasis.....	1	
Logic or Science of Inference.....	1	
India, Pictorial, Descriptive and Historical... 1	1	Illus. Library.
Nicolini's History of the Jesuits.....	1	Phil. Library.
Ordericus Vitalis—Ecclesiastical History.... 1	1	
Matthew Paris's English Chronicle.....	1	
Lamb's Specimens of English Dramatic Poets 1	1	Antiq. Library.
Marco Polo's Travels.....	1	
Florence of Worcester's Chronicle.....	1	
Ennemoser's History of Magic, in 2 Vols. 2	2	Sci. Library.
The Works of Philo Judeus, Vol. 1.....	1	Eccles. Library.
Lives of the Queens of Eng. before the Conq'st. 1	1	Blanchard &
The American Almanack, 1855.....	1	Lea, Philadel'a
Meteorological Observations made at the Hon. E. India Company's Magnetical Observatory at Madras—years, 1846-1850.....	1	Hon. E. I. Com.
Compendium of United States Census, 1850.... 1	1	Hn. J. M. Broadhead, per A. H. Armour.
Penal Codes of Europe, by H. S. Sandford..... 1	1	
Red River of Louisiana, by Lieut. Marcy..... 1	1	
Maps accompanying do.....	1	
Cruise of Dolphin, by Lieut. Lee.....	1	
Maps accompanying do.....	1	Hon. J. M. Broadhead, per A. H. Armour.
Exploration of the Valley of the Amazon, by Lieut. Gibbon.....	1	
Maps accompanying do.....	1	
Mexican Claims, Report of Select Committee... 1	1	
Sickness and Mortality on Board of Emigrant Ships—Report of Select Committee.....	1	
Railroad to the Pacific, &c.....	1	A. H. Armour.
Britania Depicta, by John Owen, 17th Cent'y. 1	1	E. C. Hancock.
The Case of the Black Warrior.....	1	Hon. J. M. Broadhead, per A. H. Armour.
Report of an Expedition down the Zuni and Colorado Rivers, by Capt. Sitgraves.....	1	A. H. Armour.
*Montreal and the Ottawa, by T. C. Keefer..... 1	1	A. H. Armour.

Those marked thus (*) are Pamphlets.

Foster & Whitney's Report on the Geology of the Lake Superior land district. Part II.—The Iron district, with Map.....	1	Hon. J. M. Broadhead, per A. H. Armour.	Bombay Magnetical and Meteorological Observations, 1849.	1	E. I. Company.
The Constitution of the United States.....	1		Do. 1851.	1	
Patent Office Reports, 1852, part II., agricult'g	1		*Sixteenth Annual Report of the Regents of the University of the State of New York, March, 1855	1	The Regents.
“ 1853, “ “ 1	1		*Annual Report of the Trustees of the State Library of the State of New York, March, 1855	1	
“ 1849-50, “ “ 1	1		*Twenty-Seventh Annual Report of the Natural History Society of Montreal, May 18, 1855...	1	Board.
“ 1849-50, mechanics 1	1		Journal of the Board of Agriculture of Upper Canada, No. II., Vol. I., July, 1855	1	
*Charter and By-Laws of Toronto Exchange....	1		*Outlines of Flemish Husbandry, applicable to the Improvement of Agriculture in Canada... 2	2	Hon. W. B. Robinson.
The Mechanical Inventions of James Watt.—Muirhead. London, John Murray—in 3 Vols. 3	3	G. Wilson, N.Y. per A. Brunel.	*Hogan's Essay.....	2	
*Documents submitted by the Bureau of Agriculture to the Legislature of Canada, 1851... 1	1	Bureau of Agriculture.	*Return to an Address from the Legislative Assembly for Copy of certain Correspondence relative to Montreal Harbor.....	1	Hon. W. B. Robinson.
Lardner's Natural Philosophy, Astronomy, &c. 1	1	Prof. Hind.	*Summary of the Proceedings of the Legislative Assembly of Canada (1st Session of the 5th Parliament, 1854-55).....	1	
*The Roman Law—A Lecture, by F. W. Torrance, Esq.	1	A. Morris.	*Report of the New York State Cabinet of Natural History.....	1	
*Boston Journal of Natural History, vol. iv. p. 1. 1	1		*Report on the Alms House, Albany, State of New York, 1853.....	1	Dr. Beeks, per C. Jones.
Do. do. “ 2. 1	1		*Report on the Public Schools of Albany.....	1	
Do. do. “ 3. 1	1		*Sixth Annual Report of the Albany Penitentiary, 1855.....	1	
And the Printed Sheets in continuation.....	1	By the Society, per G. P. Ure.	*Report of the Directors of Northern Railway, July 16th, 1855.....	1	From Board.
Canadian Agriculturist, 1854, Vol. VI.	1	Exchange by So.	Report of the Commissioners of Patents for the year 1854, Arts and Manufactures, Vol. II., Illustrations.....	1	United States Patent Office.
Espy's Second Report on Meteorology	1		Journal of the Royal Geographical Society, with Maps and Illustrations, Vol. 24, 1854.....	1	From the Societies.
United States Coast Survey, 1853	1		Quarterly Journal of the Royal Geological Society, Vol. XI., Part 2, No. 42, May, 1855...	1	
Maps to accompany do., 1854	1		Map of the Province of Canada and the Lower Colonies, showing the Connection by Steam Navigation with the United States and with Britain, by the Route of the Great Salt Lakes, &c., prepared for Commissioners of Paris Exhibition, by Thomas Keefer, C. E.	1	Author, per Dr. Chewett.
Stansbury's Expedition to the Great Salt Lake	1	Hon. J. M. Broadhead, per A. H. Armour.	Mercator's Projection, &c., by the same author, for the Commissioners.....	1	
Maps to accompany do.	1		Report of a Geological Survey of Wisconsin, Iowa, and Minnesota, and incidentally of a portion of Nebraska Territory, made by instructions from the United States Treasury Department, by David Dale Owen, United States Geologist.....	1	Hon. J. M. Broadhead.
Patent Office Report, Part II., 1853	1		Illustrations of ditto	1	
*Official Army Register, United States, 1855 ... 1	1		*Report of the Niagara Railway Suspension Bridge.....	1	J. M. Street.
*Navy Register, United States, 1855.....	1		*Report of the Proceedings of Select Committee on Charges against the late Administration.. 1	1	
Census of Canada, 1851-2.....	2	A. H. Armour.	*T. C. Tache's Report on Canada, for the Commissioners of Paris Exhibition.....	1	From Department, Quebec.
*Report of Select Committee on Geological Survey of Canada ..	1	Hon. W. B. Robinson.	*Return for Copies of Documents relative to the Construction of Lighthouses and Piers below Quebec, and relating to Tenders and Contract for Tug Boats plying on the St. Lawrence below Quebec.....	1	
*Annual Report, Normal, Model, &c. Schools, 1852	1		*The American Journal of Insanity, Vol. XII., No. 2.....	1	Exchange.
*Report of Committee on Accidents, Great Western Railway of Canada, Nov. 3, 1854.....	1	Hon. J. H. Cameron.	*Recherches Sur Les Eaux Minérales du Canada, par M. T. Sterry Hunt, de la Commission Géologique du Canada.....	3	Author.
*Report on the Caughnawaga Canal, and Improvements of the Rapids of the St. Lawrence	1		Journal and Transactions of the Board of Agriculture of Upper Canada, No. 3, Vol. I., Oct. 1855	2	Board.
Quarterly Journal of the Geological Society, May, 1854.....	1		Italian Navigation—Report on the Agricultural Canals of Piedmont and Lombardy, addressed to the Hon. E. I. Com., by Capt. R. Baird Smith, F.G.S., &c. Vols. 1 and 2	2	From Lieut.-Col. Lefroy, R.A.
Do. August, 1854.....	1				
Do. November, 1854	1				
Do. February, 1851	1	From the Sec.			
Journal of the Asiatic Society of Great Britain and Ireland, Vol. XVI., Part I.....	1				
Catalogue of Manuscripts in Arabic, &c.....	1				
Essay on Architecture of the Hindoos, by Ráno Ráz	1	From the Soc.			
Address of the Earl of Ellesmere at the Anniversary Meeting of the Royal Geographical Society, May 22, 1854	1				
Journal of the Transactions of the Board of Agriculture of Upper Canada, No. I. Vol. I. April, 1855	2	Per Board.			
*Report of Dredging Lake St. Peter, River St. Lawrence Improvement, with Chart, Thomas Keefer, Esq.	1	Hon. W. B. Robinson.			
Documents relating to the Colonial History of New York, Vol. V.	1	The Regents.			
*Geological Survey of Canada, Report of Progress, Year 1852-3, W R. Logan.....	1				
*Preliminary Report, Secretary to the Executive Commissioners of Canada in connection with World's Exposition, Paris, 1855. T. C. Tache.	1				
*Second Report of Standing Committee on Public Accounts.....	1				
*Statement of Sums expended out of £30,000, granted for Aiding the Settling of Vacant Land in Lower Canada	1	Hon. W. B. Robinson.			
*Report of Commissioners on Public Works, 1852 and 1853	1				
*Report on Caughnawaga Canal	1				
Report on Trade and Navigation	1				
Railway Map of Upper Canada.....	2				

A Descriptive Catalogue of the London Trades Tavern and Coffee House Tokens, Current in the 17th century, presented to the London, England, Corporation Library, by Henry Buy Hanbury Beaufoy.....	1	From the Corporation Library, London, England, per A. H. Armour.		*Reports 1st and 2nd, Inquiry into Public Income and Expenditure	1	
Documents relating to the Colonial History of the State of New York, Paris Documents, 1631-1744, Vol. IX.....	1	Regents of the University, State of New York.		*Report of Inquiry into Public Departments ...	1	
Patent Office Reports, 1854, Agriculture.....	1	Hon. J. M. Brodhead, per A. H. Armour.		*Political Catechism, in French	1	
Minutes of the Committee of Council on Education, with Appendices and Plans of School Houses, 1839-40.....	1	Rev. W. Agar Adamson, D.C.L.		*Public Accounts for the year 1852	1	
Do. do. 1844, Vol. I.	1			*Annual Report of the Post Master General, for the Year ending 5th of April, 1852	1	
Do. do. 1845, Vol. I.	1			*Report Commissioners of Public Works, 1851.	1	
Minutes of the Committee of Council on Education, with Appendices and Plans of School Houses, 1845.....	1			*Report of Select Committee on Charges against the late Ministry, 1854	1	
Do. do. England and Wales, 1847-8-9	1			*Seigniorial Tenure, J. C. Tache.....	1	
Do. do. 1848-9, Correspondence, &c.	1			*Public Accounts, 1853	1	
Do. do. Correspondence, Tabulated Statements of Grants, &c., 1848-49-50, Vol. I.	1			*Report on the Riot at Chalmers' Church.....	1	
Do. do. do. Vol. II.	1			*Report on Accidents on Great Western Railway.	1	
Do. do. Financial Statements, &c., and Reports by Her Majesty's Inspectors of Schools, 1850-51	1	Rev. W. Agar Adamson, D.C.L.		*Second Report on Public Accounts, 1853	1	
Do. do. Schools of Parochial Unions in England and Wales, &c., 1850-51-52	1			*Report on the Management of Public Lands ..	1	
Do. do. Correspondence, &c. 1851-2.	1			*Report on Agricultural Societies in L. Canada.	1	
Do. do. do. 1852-3.	1			*Documents—Bureau of Agriculture.....	1	Hon. P. de Blaquiere.
Total.....	12			*Journal of the Transactions of the Board of Agriculture of Upper Canada, No. II., Vol. I. ...	1	
Journal of the Legislative Council, 1848.....	1			*Do. No. III., Vol. I.	1	
Do. do. Vol. VIII., 2nd Session of Third Parliament, 1849, Part I.	2			*Roman Catholic Bishop of Toronto, &c., on Separate Common Schools	1	
Do. do. Vol. IX., Third Session of Third Parliament, 1850.....	1			*Seven Letters on the Common School System...	1	
Do. French	1			*Correspondence on Separate Schools	2	
Appendices, No. I. & No. II., Vol. IX., 1850...	2			*Annual Report of the Normal, Model and Common Schools, Upper Canada, 1851	1	
Journal of the Legislative Council, 1851.....	1			*Do. 1853	1	
Do. do. Vol. XI.....	1			*Report on Ice Bridge at Quebec	1	
Legislative Council Sessional Papers, No. I., Vol. VIII., 2nd Session 3rd Parliament, 1849.	1			*Heat and Ventilation, &c.....	1	
Do. French	1			*Philosophie des Chemins de Fer	1	
Do., No. II., French	2			*Report on the St. Lawrence and Ottawa Junction Railway.....	1	
Do., No. III.	2			*Report on organizing the Militia.....	1	
Canada Legislative Council Sessional Papers:—				*The Upper Canada Journal	1	
No. 4, Vol. XI., 1st Sess. 4th Parl., 1852-3.	1			*Report on Cause of Fire in Parliament Buildings, 1854	1	
5, do. do.	1			*Report on North Shore Railway	1	
6, do. do.	1			*Return on Admiralty Tariff of Fees	1	
7, do. do.	1			*Return—Contracts to the Junction Canal	1	
8, do. do.	1			“ Schools in the Ottawa District	2	
9, do. do.	1			“ connected with Grand Trunk Railroad	1	
Statutes of Canada, Vol. III., 1851	2			“ Montreal Harbour	1	
Do. 1852-3, Part I.,	1			*Papers—Late Welland Canal Company	1	
Do. 1852-3, 4th Parliament, 16th Victoria.....	1			*Statement of Expenditure of £30,000 in aid of Settling Vacant Lands in Lower Canada.....	3	Hon. P. de Blaquiere.
Do. 1854-5, Part I.....	3			*County Lotbinere Election Committee.....	1	
Do. do. “ II.....	3			*Report—Catalogue of Books in Library of the Legislative Assembly.....	1	
Census of the Canadas, 1851-2, Vol. I.	1			*Orders of the Court of Chancery	2	
Trade and Navigation, 1850	1			*Dispatches—referring to Seigniorial Tenure in Lower Canada	1	
Edicts et Ordonnances, Vol. II.	1			*Estimate of Expenses of Civil Government, 1853	1	
Total (half-bound Books).....	34			*Loose Sheets—The Statutes of Canada.	1	
*Return Plank or Macadamized Roads, &c. 185	1			*Logan's Geological Survey—Report of Progress, 1848-49.....	1	
*Annual Report of Inspectors of Provincial Penitentiary	1			*Do. 1850-51.....	1	
*Reports of Commissioners on Discipline and Management of the Provincial Penitentiary.	1			*Do. 1851-52	1	
*Reports of Commissioners on Public Works, 1850	1				58	
*Do. 1851	1					
*Summary of Proceedings of the Legislative Assembly, 1st Session, 5th Parliament, 1854 ...	1					
*Prize Essay, Alex. Morris.....	1					
*Canada, by Hon. F. Hincks	1					

The above list of donations, it will be observed, includes no additions to the Museum. This, there can be little doubt, is mainly ascribable to the want of any adequate means for the classification or display of the objects acquired for this purpose; and it is with sincere satisfaction that the Council anticipate the speedy possession by the Institute of a Hall for its Museum, wherein may be accumulated illustrations of every branch of science, and of the historical antiquities and ethnological relics specially pertaining to the aboriginal races of Canada and the New World.

The following papers have been read at the ordinary meetings of the Institute, during the session 1854-5 :-

Communications.

- H. COWING, Esq.—“Description of a new Steam Plough and Portable Steam Engine for general purposes,” with illustrative plans. 2nd Dec., 1854.
- Prof. BOVELL, M.D.—“On some specimens of Infusoria obtained from Rice Lake and the River Humber,—and on an interesting specimen of *Plumatella* found in Rice Lake.” 16th Dec., 1854.
- Prof. BOVELL, M.D.—“Remarks on the Respiratory Organs of the Lobster,—and on some peculiarities of the Intestinal Canal of the Bear;” illustrated by prepared specimens. 16th Dec., 1854.
- Prof. WILSON, LL.D.—“On some Conchological Relics of the Red Indians of Western Canada, illustrated by specimens of shells and other relics taken from Indian Mounds near Lake Huron.” 6th Jan., 1855.
- Professors IRVING and CHERRIMAN—“On the Eclipse of May 26th, 1854.” 13th Jan., 1855.
- Prof. CHAPMAN—“Some observations on Carbonate of Lime as an igneous product.” 13th Jan., 1855.
- Prof. CHAPMAN—“On the object of the Salt condition of the Sea.” 20th Jan., 1855.
- Prof. CHERRIMAN, M.A.—“On the Meteorological results of 1854.” 20th January, 1855.
- Prof. BOVELL, M.D.—“On the transfusion of Milk, as practised in the Cholera Sheds at Toronto in 1854.” 27th Jan., 1855.
- Prof. WILSON, LL.D.—“On traces of the use of Moveable Types, and imprinting with Coloured Pigments, amongst the Romans of the Second and Third Centuries.” 27th Jan., 1855.
- Major LACHLAN—“An account of an extraordinary Sudden Fall in the Waters of the Niagara River, in March 1848, caused by a temporary obstruction of the outlet of Lake Erie by Ice.” 3rd February, 1855.
- Prof. HIND, M.A.—“A Practical Illustration of a mode of Manufacturing Gun Cotton.” 3rd February, 1855.
- THOS. HENNING, Esq.—“On the Asteroids,” 10th February, 1855.
- Professor BOVELL, M.D.—“Some Observations on Microscopic Preparations of Chalk, from Barbadoes, containing Fossil Infusoria.” 10th February, 1855.
- SANFORD FLEMING, Esq., C. E.—“Explanation and Mode of Use of Sang’s Platometer.” 17th February, 1855.
- Professor WILSON, LL.D.—“On Some Physical Elements of Ethnological Classification, and their Bearing on the Question of the Unity of the Human Race.” 17th February, 1855.
- Professor HIND, M.A.—“On the North American Drift.” 24th February, 1855.
- Rev. Professor HINCKS—“On the Classification of Birds.” 3rd March, 1855.
- Professor CROFT, D.C.L.—“Results of Analyses of some Spurious Mexican Coinage.” 10th March, 1855.
- Rev. W. BLEASDELL, M.A.—“On the Indian Tribes of Canada.” 10th March, 1855.
- Major LACHLAN—“On the Union of Lakes Erie and St. Clair.” 17th March, 1855.
- T. C. CLARKE, Esq., C. E.—“On Railway Truss Bridges.” 17th March, 1855.
- Professor CROFT, D.C.L.—“Remarks on a Specimen of Bitumen from the Western District.” 17th March, 1855.
- Professor CHAPMAN—“Description of a Convenient Method of Tabulating the Organic Remains found in various Strata.” 17th March, 1855.
- Professor HIND, M.A.—“On the Origin of the Basins of the Great American Lakes.” 24th March, 1855.
- F. W. CUMBERLAND, Esq., C. E.—“Notes of a Visit to the Works of the Toronto and Guelph Railroad.” 31st March, 1855.
- PAUL KANE, Esq.—“On the Habits and Customs of the Chinook Indians.” 31st March, 1855.
- Prof. CHAPMAN—“Additional Notes on the Saltiness of the Sea, being the substance of a communication to Lieut. Maury, U. S. Navy, Superintendent of the Washington Observatory, arising out of a Correspondence on Prof. Chapman’s paper published in the March No. of the *Canadian Journal*.” 14th April, 1855.
- Prof. CHAPMAN—“Further Views and Authorities in support of observations on an example of igneous origin of Carbonate of Lime.” 14th April, 1855.
- ANDREW HOOD, Esq.—“Description of a new Astronomical and Surveying Instrument.” 14th April, 1855.
- T. C. CLARKE, Esq., C. E.—“On the Action of the Ice upon the Railway Bridge at Rice Lake.” 21st April, 1855.

Prof. HIND, M.A.—“On the occurrence of Crystallized Carbonate of Lime in the Native Copper of Lake Superior.” 21st April, 1855.

SANFORD FLEMING, Esq., C. E.—“Notes on the Welland Canal.” 21st April, 1855.

While the Council believe that the above list includes some original papers not less creditable to the Institute than any that have been produced in former years, they feel precluded from any special notice of them, owing to the unusually large share that the members of Council have had to take in this department of the ordinary proceedings. The foregoing list, it will be seen, includes 33 papers, of which the very large proportion of 24 have been contributed exclusively by members of Council. This is a state of things which they feel it to be their duty specially to bring under the notice of the members at large. So numerous a body as the Institute now is, ought to include a much greater number of working members; and the Council are led to believe that their apparent supineness arises, in part at least, from the mistaken idea that communications can only be made in the form of elaborate essays. They would strongly urge on their successors, and on the members at large, the encouragement of brief communications, in greater number, as at once more calculated to give general interest to the ordinary meetings, and to elicit such results of personal knowledge and observation as are best calculated to add to the true value of the published proceedings. Short notices of natural phenomena, features of local geology, objects of natural history, and the like subjects, derived from personal observation, must be readily producible by many members who have hitherto borne no active part in the Society’s proceedings, but whose contributions would most effectually promote the objects which it is designed to accomplish. Among the papers communicated during the past year, the Council have pleasure in referring to three on engineering works of the province, which were appreciated by the members as acceptable contributions to a department to which previous reports have referred, only to express regret at its neglect.

The anticipated resumption for public use, of the apartments occupied by the Institute in the Government House, consequent on the removal of the seat of government to Toronto—to which attention was especially directed in the last Annual Report,—led the Councils to devise plans for preventing the best interests of the Institute being affected thereby. The results of these are already known to the members. Temporary rooms, in a convenient locality, have been secured on advantageous terms, and are now occupied, and in use for the regular weekly meetings. The munificent gift by George William Allan, Esq., one of the Vice-Presidents, of a valuable site in Pembroke-street, whereon to erect a permanent Hall for the Institute, was acknowledged in the report of last year; and a general meeting, called for the purpose, authorized the Council to accept the gift, and to take all requisite steps for the erection of a suitable building.

In furtherance of this, two successive grants of £500 each have been made by the Legislature, and an appeal by the Council to the members generally has already been so far responded to, that the Council have to acknowledge a subscription list, which though as yet only including the names of sixty-eight members, out of more than four hundred, amounts to the sum of £716 10s. F. W. Cumberland, Esq., having further liberally offered his valuable services as architect, immediate steps were taken for commencing the permanent building, and on the 13th of November, His Excellency the Governor General

was graciously pleased to lay the foundation stone, in the presence of the Council and a large body of the members.

On the evening of the same day, the members of the Institute assembled, by invitation, to a *Conversazione* at Moss Park, the residence of G. W. Allan, Esq., Vice-President, when His Excellency the Governor General again honoured them with his presence. An interesting collection of objects of natural history and works of art was provided for inspection. Professors Bovell, Croft, Cherriman and Hincks, and Mr. Glen, exhibited a variety of preparations by means of microscopes they had contributed for the use of the members; and papers were read: by Professor Wilson "On Some Associations of the Canadian and English Maple," and by Paul Kane, Esq., "Notes of a Trip to Lord Selkirk's Settlement on Red River, Hudson Bay Company's Territory." The *Conversazione* proved a highly agreeable reunion, attracting an unusually numerous attendance of members, and placing the Institute under additional obligations to the Vice-President for bringing them together, in circumstances calculated to give a fresh stimulus to the proceedings of the ensuing session, and to have a permanently beneficial effect on the Society.

The Council have much pleasure in congratulating the members on so auspicious a commencement of operations for providing permanent accommodation for the Library and Museum, and a suitable Hall for their meetings, in a building exclusively devoted to the use of the Institute. They recommend to their successors to carry out the object with as little delay as possible; while at the same time it is their duty to remind the members that further liberality on their part will be requisite to enable the Council to execute the plans furnished by the architect, even in a modified form.

The rapid increase in the number of the members of the Institute has forced on the notice of the Council the impossibility of meeting future applications for the early numbers of the *Journal*, or of obtaining complete sets to present to corresponding Societies; and as the only alternative open to them was the reprinting the earlier numbers at a considerable cost, or commencing a new series: after mature consideration they have determined on the latter course as in all respects most conducive to the best interests of the Society. The necessity of such a change has led to a reconsideration of the whole plan of the *Journal*, with a view to the more effectual accomplishment of the objects for which it was instituted, and the Council have accordingly, after much deliberation, prepared a scheme for conducting the new series of the *Journal*, to be submitted to the consideration of the members, at the Annual General Meeting. In laying this plan before the Institute, the Council feel bound to refer to the continued success of the *Journal*, under its present management, and to record their sense of the zeal with which Professor Hind has fulfilled his duties as editor of the series which it is now proposed to bring to a close.

The Canadian Journal—New Series.

1. The *Journal* to be published in octavo form, each alternate month, beginning with January, 1856.
2. All "Original Communications" to be inserted first, under this or some similar general heading, and whether long or short, to have invariably the name or initials of the author.
3. Original Reviews to form the Second Division in each number, and Reports of the Meetings of the Institute and other Societies, the Third Division.
4. All matter derived from published sources, to be printed in small type, and to form a distinct division, or appendix, under the title of "Scientific and Literary Excerpts," or some other similar heading.
5. The conduct of the *Journal* to be entrusted to an Editing Committee, to be annually nominated by the Council from the general body of the Members of the Institution, at their first meeting in November.

6. The Council to elect one of their Editing Committee as Convener, who shall perform the duties of General Editor in the conduct of the *Journal*, receiving and transmitting communications and works for review, to the members of the Committee to whom their subjects pertain; and exercising the general oversight requisite for the successful issue of a periodical publication.

7. The Convener to summon the Committee, once at least in the interval between the publication of each number, to deliberate on the contents of the succeeding number.

8. To be incumbent on each Member of the Editing Committee to endeavour to obtain original communications of interest and value in his own department, in addition to his own personal contributions.

9. The duties of the Editing Committee, to be classified and divided among its members, according to the following subdivisions, subject to alteration or addition by the Council:—I. Geology and Mineralogy. II. Physiology and Natural History III. Ethnology and Archeology. IV. Agricultural Science. V. Chemistry. VI. Mathematics and Natural Philosophy. VII. Engineering and Architecture.

The Council have much pleasure in congratulating the members on the highly satisfactory results shown by their financial statement for the present year, notwithstanding the extraordinary expenditure unavoidably incurred, in consequence of the removal from the rooms hitherto occupied, free of cost, in Government House, and the increase in the items of salary and rent, which the Treasurer's accounts show, in comparison with last year. The following statement, it will be seen, includes a sum of £150, received from the Athenæum, being the balance of two annual grants of £100 each, made by the Legislature to the Athenæum, for the purpose of carrying out the special objects which the Canadian Institute has now undertaken to accomplish. Of this sum, the Council recommend that £75 be added to the Building Fund, as an object in which the Library department is specially interested, and that the remainder be expended on books. The subjoined statement exhibits a balance in favour of the Institute of £1438 18s. 4d. This, however, it must be borne in remembrance, not only includes the special Government Grant of £1000 to the Building Fund, but also the sum of £187. 2s. of arrears and money due on account of *Journal*, no portion of which has yet been received by the Treasurer. The balance from 1854 also embraced, in like manner, the arrears of the year. In addition to this, there remain several outstanding accounts, including one of Messrs. Jacques and Hay, for fitting up the rooms now occupied by the Institute, in York Buildings, and for providing the requisite shelving for the large additions to the Library, consequent on the acquisition of the valuable collection of Books hitherto pertaining to the Toronto Athenæum, as well as the considerable additions acquired by donation and purchase. After all accounts are discharged, there will still remain a balance in hand, some portion of which the new Council will probably deem it advisable to transfer to the Building Fund.

ESTIMATE OF THE PRESENT POSITION OF THE CANADIAN INSTITUTE.

	£	s.	d.
Cash Balance from last year	85	16	3
" for Sale of <i>Journal</i>	£134	1	1½
" " Subscriptions received	804	11	5
" Waste Paper sold.....	2	6	10
" Due by Subscribers on account of <i>Journal</i>	£ 49	8	9
" Arrears due by Members	137	13	3
" Government Grant for 1854.....	250	0	0
" " " for 1855.....	250	0	0
" " " in aid of Building	1000	0	0
" due on union of the Athenæum with the Institute...	150	0	0
	£2363	17	7

Paid Cash on account of the publication of the Journal for 1854.....	£83	1	2
“ Ellis & Co., for engraving Logan’s Geological Map and the Victoria Bridge, &c.	84	1	4
“ Proof Reader.....	32	10	0
“ Publication of Toronto Harbour Reports.	63	19	0
“ Publication of the Journal for 1855.....	286	13	7
	550	5	1
“ Sundries on account of the Institute.....	135	11	6
“ for Library Books and Periodicals.....	67	1	4
Balance due Maclear & Co. on account of Journal.....	52	0	5
“ “ Armour & Co. on account of Library.....	15	14	3
“ “ Assistant Secretary’s Salary, to date.....	12	10	0
“ “ H. Piper, on account of the Institute.....	2	11	3
“ “ H. Rordens.....	1	6	3
“ “ Jacques & Hay for new Shelves in Library...	30	5	0
“ “ Ogilvie & Co.’s account against Institute.....	2	14	2
“ “ Editor of Journal.....	50	0	0
“ “ Reader.....	5	0	0
	924	19	3
Estimated Excess in favor of the Institute.....	£1438	18	4

COPY OF AUDITORS REPORT, 1855.

The Auditors beg to report to the Council of the Canadian Institute, that they have examined the Accounts for the year ending the 30th of November, 1855, as shown by the Cash Book, the Treasurer’s account, and corresponding Vouchers, and which shew a balance of One Thousand Two Hundred and Seventy-three Pounds Seventeen Shillings and Eight Pence; £1000 of which is invested and £273 17s. 8d. in the Bank and Treasurer’s hands, and which balance appears to them as correct.

D. CRAWFORD, }
SAMUEL SPREULL. } *Auditors.*

Toronto, 8th Dec., 1855.

CANADIAN INSTITUTE.

In closing this Report, the Council beg leave to congratulate the members of the Institute on the very promising aspect which its affairs present, and in resigning their duties to their successors, to express their earnest hope that the day is not very far distant, when this Institution will be recognized as one contributing to the advancement of the Province in an intellectual progress commensurate with its material prosperity.