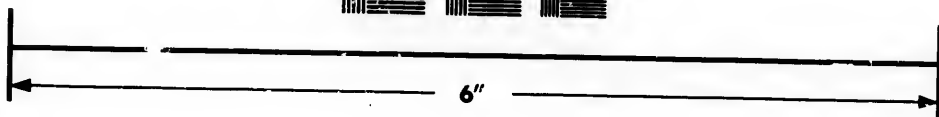
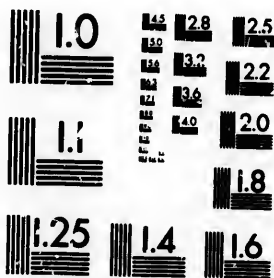


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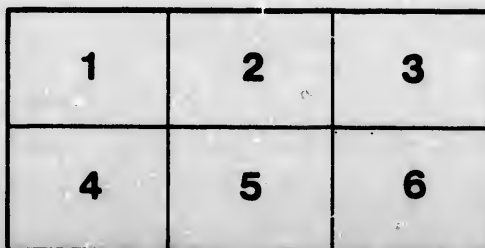
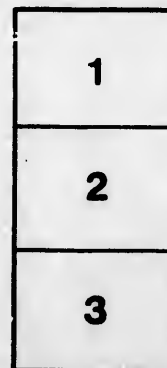
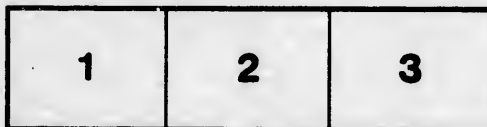
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# THE CANADIAN INSTITUTE.

ROYAL CHARTER OF INCORPORATION OF "THE CANADIAN INSTITUTE," GRANTED 4TH NOVEMBER, 1851.

PROVINCE OF CANADA.—ELGIN AND KINCARDINE.

VICTORIA by the Grace of God of the United Kingdom of Great Britain and Ireland, Queen, Defender of the Faith, &c. &c.

*To all whom these presents shall come, greeting:*

Whereas William E. Logan, John O. Browne, Frederick F. Passmore, Kivas Tully, William Thomas, Thomas Ridout, Sandford Fleming, and others of our loving subjects in our Province of Canada, have formed themselves into a Society for the encouragement and general advancement of the Physical Sciences, the Arts and Manufactures, in this part of our Dominions; and more particularly for promoting the acquisition of those branches of Knowledge which are connected with the Professions of Surveying, Engineering, and Architecture: being the Arts of opening up the Wilderness and preparing the country for the pursuits of the Agriculturist, of adjusting with accuracy the boundaries of Properties, of improving and adorning our Cities and the habitations of our subjects, and otherwise smoothing the path of Civilization; and also being the Arts of directing the great sources of Power in Nature for the use and convenience of man, as the means of production and of traffic both for external and internal trade, and materially advancing the development of the Resources and of the Industrial Productions and Commerce of the County; and have commenced the formation of a Museum for collections of Models and Drawings of Machines and Constructions, New Inventions and Improvements, Geological and Mineralogical Specimens, and whatever may be calculated, either as Natural Productions or Specimens of Art, to promote the purposes of Science and the general interests of society, and have subscribed and collected certain sums of money for these purposes.

And whereas, in order to secure the property of the said Society and to extend its useful operations and at the same time to give it a more permanent establishment among the Literary and Scientific Institutions of this part of our Dominions, we have been besought to grant to the said William E. Logan, John O. Browne, Frederick F. Passmore, Kivas Tully, William Thomas, Thomas Ridout, Sandford Fleming, and to those who now are or shall hereafter become members of the said Society, our Royal Charter of Incorporation, for the purpose aforesaid.

Now know ye that we, being desirous of encouraging a design so laudable and salutary, of our especial grace, certain knowledge, and mere motion, have

willed, granted and declared, and do by these presents for us, our heirs and successors, will, grant and declare that the said William E. Logan, John O. Browne, Frederick Passmore, Kivas Tully, William Thomas, Thomas Ridout, Sandford Fleming, and such others of our loving subjects as now are members of the said Society, or shall at any time hereafter become members thereof according to such regulations or by-laws as shall be hereafter framed or enacted, shall by virtue of these presents be the members of, and form one body politic and corporate for the purposes aforesaid, by the name of "The Canadian Institute," by which name they shall have perpetual succession and a common seal, with full power and authority to alter, vary, break, and renew the same at their discretion, and by the same name to sue and be sued, implead, and be impleaded, answer and be answered unto, in every court of us, our heirs and successors, and be forever capable in the law to purchase, receive, possess, and enjoy to them and their successors, any goods and chattels whatsoever, and also to be able and capable in law (notwithstanding the Statutes of Mortmain) to take, purchase, possess, hold and enjoy, to them and their successors, a Hall or House, and any Messuages, Lands, Tenements, or Hereditaments whatsoever, the yearly value of which, including the site of the said Hall, shall not exceed in the whole the sum of Two thousand pounds, computing the same respectively at the rack rent which might have been had or gotten for the same respectively at the time of the purchase or acquisition thereof, and to act in all the concerns of the said body politic and corporate for the purposes aforesaid as fully and effectually, to all intents, effects, constructions and purposes whatsoever, as any other of our liege subjects or any other body politic or corporate in our said Province of Canada, not being under any disability, might do in their respective concerns.

And we do hereby grant our especial license and authority unto all and every person and persons, bodies politic and corporate, otherwise competent, to grant, sell, alien, and convey in Mortmain unto and to the use of the said Society and their successors any Messuages, Lands, Tenements, or Hereditaments, not exceeding such annual value as aforesaid. And our will and pleasure is, and we further grant and declare, that there shall be a General Meeting of the Members of the said body politic and corporate, to be held from time to time as hereinafter mentioned, and that there shall always be a Council to direct and manage the concerns of the said body politic and corporate, and that the general meetings of the Council shall have the entire direction and management of the same in the manner and subject to the regulations hereinafter mentioned. But our will and pleasure is, that at all General Meetings and Meetings of the Council, the majority of the members present, and having a right to vote thereat respectively, shall decide upon the matters propounded at such meetings, the person presiding therein having, in case of an equality of numbers, a second or casting vote.

And we do hereby also will, grant, and declare that the Council shall consist of a President, not more than three nor less than one Vice-President, and not more than eleven nor less than three other Members, to be elected out of the members of the said body politic and corporate, and that the first Mem-

bers of the Council, exclusive of the President, shall be elected within six calendar months after the date of this our Charter, and that the said William E. Logan shall be the first President of the said body politic and corporate.

And we do hereby further will, grant and declare that it shall be lawful for the Members of the said body politic and corporate hereby established to hold General Meetings once in the year or oftener, for the purposes hereinafter mentioned—viz., that the General Meeting shall choose the President, Vice-Presidents, and other Members of the Council; that the General Meeting shall make and establish such by-laws as they shall deem to be useful and necessary for the regulation of the said body politic and corporate, for the admission of members, the establishment of Branch Societies, the management of the estate, goods, and business of the said body politic and corporate, and for fixing and determining the manner of electing the President, Vice-Presidents, and other Members of the Council, and the period of their continuance in office, as also of electing and appointing a Treasurer, two Auditors, and two Secretaries, and such other officers, attendants, and servants, as shall be deemed necessary or useful for the said body politic and corporate, and such by-laws from time to time shall or may alter, vary, or revoke, and shall or may make such new and other by-laws as they shall think most useful and expedient, so that the same be not repugnant to the laws of England, to these presents, or to the laws and statutes of this our Province of Canada, and shall and may also enter into any resolution and make any regulation respecting any of the affairs and concerns of the said body politic and corporate as shall be thought necessary and proper.

And we further will, grant and declare that the Council shall have the sole management of the income and funds of the said body politic and corporate, and also the entire management and superintendence of all the other affairs and concerns thereof, and shall and may—but not inconsistently or contrary to the provisions of this our Charter or any existing by-law, the laws of England, or the laws and statutes of our said Province of Canada—do all such acts and deeds as shall appear to them necessary or essential to be done for the purpose of carrying into effect the objects of the said body politic and corporate.

And we further will, grant and declare that the whole property of the said body politic and corporate shall be vested, and we do hereby vest the same, solely and absolutely in the members thereof, and that they shall have full power and authority to sell, alienate, charge or otherwise dispose of the same as they shall think proper; but that no sale, mortgage, incumbrance, or other disposition of any Messuages, Lands, Tenements, or Hereditaments belonging to the said body politic or corporate shall be made, except with the approbation and concurrence of a General Meeting.

And we lastly declare it to be our royal will and pleasure that no resolution or by-law shall on any account or pretence whatsoever be made by the said body politic and corporate in opposition to the general scope, true intent and meaning of this our Charter, the laws of England, or the laws and statutes of this our said Province of Canada, and that if any such rule or by-law shall be

made, the same shall be absolutely null and void to all intents, effects, constructions and purposes whatsoever.

In testimony whereof we have caused these our Letters to be made Patent, and the Great Seal of our said Province to be hereunto affixed.

Witness our Right Trusty and Right Well-beloved Cousin James, Earl of Elgin and Kincardine, Knight of the Most Ancient and Most Noble Order of the Thistle, Governor General of British North America, and Captain General and Governor-in-Chief in and over our Provinces of Canada, Nova Scotia, New Brunswick, and the Island of Prince Edward, and Vice Admiral of the same, &c. &c., at Quebec, this fourth day of November, in the year of Our Lord One Thousand Eight Hundred and Fifty one, and in the fifteenth year of our reign.

W. B. RICHARDS,  
*Attorney General.*

By Command,  
F. A. MEREDITH,  
*Assistant Secretary.*

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## REGULATIONS AND BY-LAWS OF THE CANADIAN INSTITUTE,

*As amended at the Special General Meetings, Jan. 23rd and Dec., 1886.*

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### REGULATIONS.

#### SECTION I. INCORPORATION.

The Canadian Institute is established under Royal Charter, granted November 4th, 1851.

#### SECTION II. OBJECT

The object of the Institute is the promotion of Pure and Applied Science.

#### SECTION III. CONSTITUTION.

1. The Canadian Institute shall consist of Members and Associates.
2. There shall be three classes of members, *Ordinary*, *Life*, and *Honorary* members.
3. Ordinary members shall be persons whose pursuits or studies are connected with the Arts or Sciences, or who are desirous of forwarding the objects of the Institute.
4. Ordinary members may become life members by compounding their annual subscriptions by the payment of fifty dollars.
5. Honorary members shall be persons who are eminent for their scientific attainments.

6. The number of honorary members shall be limited to twenty-five, of whom not more than five shall be residents of Ontario. X

7. Associates shall have all the privileges of membership, except the right of voting, or taking part in the business management of the Institute or sections, or of receiving copies of the publications of the Institute.

8. For the promotion of the study of special branches of pure and applied science the Institute shall be divided into such Sections as the Council shall from time to time determine, subject to the subsequent approval of the Institute. Each Section shall frame its own regulations and by-laws, subject to the approval of the Council.

9. The officers of the Institute shall be a President, a Vice-President, a Secretary, a Treasurer, an Editor, a Librarian, a Curator, and as many members of Council as shall be necessary to complete the number of fifteen members, all of whom shall be elected annually by the members of the Institute.

#### SECTION IV.

##### THE ELECTION OF MEMBERS.

1. All persons desirous of being admitted into the Institute as ordinary members must be proposed at least one week before their election, in accordance with a form to be obtained from the Secretary, which form must be subscribed by at least two members of the Institute.

2. Honorary members must be recommended by at least three members, who shall certify that the candidate is a person eminent for his attainments in science.

3. Every recommendation of a candidate as an honorary member must be delivered to the Secretary, who shall submit the same to the Council for enquiry; and when the recommendation of such candidate is approved by the Council, it shall be signed by the Chairman, and read at the first following ordinary meeting, previous to the ballot being taken.

4. All persons desirous of being admitted to the Institute as associates must be recommended by two members, who shall certify to their fitness.

5. Every recommendation of a candidate as an associate must be delivered to the Secretary, who shall submit the same to the Council; and in case the recommendation be approved by the Council, it shall be signed by the Chairman, and the candidate shall be admitted as an associate.

6. All elections of members shall be by ballot, and the proportion of votes requisite for the election of any person shall be more than three-fourths of the ballot.

7. Whenever any person is elected a member or associate, the Secretary shall immediately inform him of the same by letter; and no person shall be considered a member of any class, or an associate, until he has signified his acquiescence in the election, and paid his first annual subscription.

8. If any complaint is brought against a member, the charge shall be considered by the Council in the first instance, and an opportunity shall be given to the accused to clear himself. If the Council consider it desirable, they

shall call a special general meeting, of which not less than a month's notice shall be given; and in case two-thirds of the members present at that meeting are of opinion that such member should be expelled, the presiding officer at that meeting shall declare him to be expelled.

#### SECTION V.

##### THE ELECTION OF OFFICERS.

1. The President, Vice-President, Treasurer, Secretary, Editor, Curator, Librarian, and as many other members of Council as may be necessary, at each annual general meeting, to complete the number of fifteen members of Council, shall be elected annually by ballot from amongst the members of the Institute at the general meeting on the first Saturday in May, and if that day falls upon a holiday, then upon the following Saturday.

2. Nominations for these offices must be made at the ordinary meeting immediately preceding the annual general meeting, and only those shall be eligible who have been so nominated.

3. Any member nominated to an office and not elected thereto shall be eligible as a member of the Council.

4. At the annual election the Chairman shall appoint two scrutineers, who shall receive the votes of the members, count them, and report to the presiding officer, who shall declare the result to the members.

5. A separate ballot shall be taken for the President, for the Vice-President, and for each of the other officers, except the Councillors; and a ballot shall then be taken for the remaining members of Council.

6. If in any case the votes are equal, the decision shall be by ballot.

7. Each section shall elect its own officers at the meeting of section preceding the annual meeting of the Institute.

8. The new Council shall enter upon their duties on the Saturday following their election.

9. Two Auditors shall be appointed at the ordinary meeting held on the third Saturday in March of each year; one by the members, the other by the Chairman.

#### SECTION VI.

##### MEMBERS' SUBSCRIPTIONS.

1. The annual subscription of each member residing in or within ten miles of the city of Toronto shall be four dollars, of each member residing elsewhere two dollars, and of each associate one dollar. All subscriptions shall be due in advance on the first day of January, and all new members shall pay *pro rata* in advance until the thirty-first day of December next following the date of their election.

2. Every member shall receive a copy of the transactions and proceedings of the Institute published after his election, so long as he shall continue in good standing.

3. Every member and associate shall be considered as belonging to the Institute, and, as such, liable to the payment of his annual subscription, until he has signified to the Secretary, in writing, his desire to withdraw, when his name shall be erased from the list of members.



4. No member or associate shall be entitled to any of the privileges of the Institute whose subscription shall be twelve months in arrear, and the name of any member whose annual subscriptions are two years in arrear may be erased from the list of members by the Council, and any member whose name is so erased shall cease to be a member of the Institute.

#### SECTION VII.

##### THE PRESIDENT, VICE-PRESIDENT, AND CHAIRMEN OF SECTIONS.

1. It shall be the duty of the President to carry into effect the regulations of the Institute. He shall preside at all meetings of the Institute at which he is present, and shall regulate and keep order in the proceedings.

2. In the absence of the President it shall be the duty of the Vice-President to preside at the meetings and regulate the proceedings. But in the absence of the President and Vice-President, the members present may elect one of their number to take the chair at such meeting.

3. The Chairmen of Sections shall preside at the meetings of their respective Sections.

#### SECTION VIII.

##### THE TREASURER.

1. The Treasurer shall keep an account of all the moneys of the Institute, and of all dealings therewith.

2. All moneys received for or on account of the Institute shall be paid over to the Treasurer, who shall deposit the same in one of the chartered banks in the city of Toronto to the account and for the use of the Institute, unless otherwise ordered by the Council.

3. No money of the Institute shall be paid out except by order of the Council, and cheques shall be drawn in such manner as the Council shall from time to time direct.

#### SECTION IX.

##### THE SECRETARY.

1. The duty of the Secretary shall be to take minutes of all the proceedings of the Institute and of the Council, and enter them in the proper books; to read at each meeting the minutes of the preceding meeting with a view to their verification, and, subject to the direction of the Chairman, to bring before the meeting all business matters according to the order established by the by-law in that behalf. He shall also conduct the correspondence of the Institute.

2. The Secretaries of Sections shall perform the functions of Recording and Corresponding Secretaries for their own Sections, unless the Section shall have appointed a Corresponding Secretary, in which case the Secretary of that Section shall perform the duties of Recording Secretary only.

3. The duties of the Assistant Secretary shall be defined from time to time by the Council.

#### SECTION X.

##### THE EDITOR.

The Editor shall have charge of the publication of the Proceedings of the Institute, in conjunction with an Editing Committee to be nominated by the Council from among its members at the first meeting thereof after the annual

meeting. All papers or abstracts of papers read before the Institute and intended for publication shall be handed to the Editor at the close of the respective meetings at which they were read, or as soon as possible thereafter, and the decision as to the propriety or expediency of publishing any paper shall rest with the Editing Committee.

SECTION XI.  
THE LIBRARIAN.

The Librarian shall have the care of all books, plans, drawings, and other documents, and shall have the general superintendence of the same, under the direction of the Council. He shall keep a list of all donations to the library in the order in which they are received, with the names of the donors.

SECTION XII.  
THE CURATOR.

1. The Curator shall have charge of the museum, and of all models and specimens deposited therein, and shall have the general superintendence of the same, under the direction of the Council; and he shall keep a list of all contributions, with the names of the contributors.

2. The Assistant Curators shall be appointed by the Sections, and shall assist the Curator in the care of the museum and the specimens contained in it, so far as relates to their own departments.

SECTION XIII.  
THE COUNCIL.

1. The President, the Vice-President, the Secretary, the representatives of Sections, the Treasurer, the Editor, the Librarian, the Curator, and as many other members of Council as may be necessary, at the annual general meeting, to complete the number of fifteen members, shall constitute the Council, and shall have the direction and management of the affairs of the Institute.

2. The Council shall meet at least once a month during the session, or oftener if necessary, to conduct the business of the Institute.

3. Any two members of the Council may, by letter to the Secretary, require a special meeting to be called, and two days' notice of such meeting must be given to each member of the Council.

4. At any meeting of the Council five members thereof shall constitute a quorum.

5. The Council shall have power to appoint Committees for special purposes, and such Committees shall report to the Council.

6. The Council shall present at the annual general meeting a report on the state of the Institute, in which shall be given an abstract of all the proceedings, and of the receipts and expenditures, during the year ending March 31st next before such meeting.

7. The Secretaries of Sections shall, on the first Saturday in April of each year, present to the Council a report on the work done by their respective sections during the year.

8. In the event of any office becoming vacant before the annual general meeting, by death or otherwise, the Council shall have power to fill the

vacancy ; and in the event of any officer being unable to perform his duties, the Council shall have power to relieve him from the performance of such duties for the time being, and to appoint another member to act in his stead.

#### SECTION XIV.

##### THE AUDITORS.

The Auditors shall audit the accounts of the Institute for the year ending on March 31st next after their appointment, and they shall present their report to the Council at least one week before the annual general meeting.

#### SECTION XV.

##### THE ORDINARY MEETINGS.

1. The ordinary meetings of Sections shall take place at such times as may be agreed upon by the Sections, subject to the approval of the Council.
2. The ordinary meetings of the Institute shall be at such times as the Council shall direct.

#### SECTION XVI.

##### SPECIAL GENERAL MEETING.

1. The Council may at any time call a special general meeting of the Institute on six days' notice in writing thereof to city members, which notice may be either given personally or transmitted by post to the last known address of the member.
2. It shall be the duty of the Council to call a special general meeting of the Institute at any time between October 1st and May 1st on being required in writing by at least twelve members to do so.

#### SECTION XVII.

##### THE ANNUAL GENERAL MEETING.

The annual general meeting of the Institute shall be held on the first Saturday in May of each year, at twenty o'clock (eight o'clock in the evening), for the purpose of receiving and considering the Report of the Council on the state of the Institute, and electing the officers and members of the Council for the ensuing year.

#### SECTION XVIII.

##### BRANCH SOCIETIES.

Members of the Institute residing at a distance of ten miles from the city of Toronto shall have power to form themselves into branch societies for the purpose of holding meetings and discussing subjects proper to the objects of the Institute, and such branch societies shall be governed by such by-laws as the Council may from time to time enact for such purposes.

#### SECTION XIX.

##### ALTERING THE REGULATIONS.

A motion to alter any by-law or regulation of the Institute may be made at the annual general meeting, or at a special general meeting called for the purpose, and not otherwise ; and notice of the proposed alteration shall have been given at two consecutive ordinary meetings prior thereto.

## SECTION XX.

## THE PROPERTY OF THE INSTITUTE.

1. The whole of the property and effects of the Institute, of what kind soever, shall be vested in the Council of the Institute, subject to the limitations prescribed by the Charter.

2. Every paper, map, or drawing, which may be presented to the Institute, shall be considered the property thereof, unless there shall have been some arrangement to the contrary, and the Council may publish the same in connection with their transactions, or, with the consent of the author, in any other form. No communication made to the Institute shall be published by any other person but the author without the previous consent of the Council.

3. Every paper presented to the Institute for publication shall be referred to an Editing Committee appointed by the Council. Notices or abstracts of all papers not published in full may be prepared by the Editing Committee.

4. No papers, plans, maps, or other property belonging to the Institute, shall be taken out of the rooms thereof without the consent of the Council; but every member shall have a right to inspect the same at such hours as the Council may appoint.

## SECTION XXI.

## DONATIONS AND BEQUESTS.

1. The names of all persons who shall contribute to the library, the museum, or the general fund of the Institute, shall be read at the annual general meeting, and such persons shall be recorded as benefactors in the published transactions of the Institute.

2. Every person desirous of bequeathing to the Institute any manuscripts, books, maps, plans, drawings, instruments, geological, botanical, or other specimens, natural curiosities, works of art or manufacture, or personal property, is requested to make use of the following form in his will, viz.:—"I give and bequeath to the CANADIAN INSTITUTE, incorporated by Royal Charter, November 4th, 1851 (*here enumerate and particularize the effects or property intended to be bequeathed*), and I hereby declare that the receipt of the Treasurer of the said Institute for the time being shall be an effectual discharge to my executors for the said legacy."

## BY-LAW.

At the ordinary meetings of the Institute, the following order of business shall be observed as closely as circumstances will admit:—

1. The minutes of the previous meeting shall be read and confirmed, and signed by the Chairman; and no entry shall be considered valid until this is done.

2. Nomination of candidates for admission.
3. Business arising out of the minutes.
4. Communications received since last meeting.
5. Donations received.

6. Communications from the Council.

7. Communications from Sections.

8. Notices of motion.

9. New business.

10. Election of Candidates. A ballot shall be taken for the entire body of candidates proposed for admission ; if one-fourth or more black balls appear, the ballot shall be taken for each individually ; and any candidate shall be rejected against whom appear a number of black balls equal to one-fourth of the number of members voting.

11. The reading of papers.

12. Announcements.

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## REGULATIONS OF THE LIBRARY AND READING-ROOM.

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1. Any member may obtain the loan of any book or periodical, not to exceed two volumes or numbers at any one time, for a period not longer than two weeks in the case of periodicals, and three weeks in that of books, except such books or periodicals as shall be reserved by the Council, and so marked in the catalogue.

2. Periodicals shall not be loaned until they have been on the table one month in case of monthlies and quarterlies, and one week in the case of weeklies.

3. If any member retain a book or periodical longer than the time specified, he shall be notified by the Librarian, and shall return it at once.

4. In case any book or periodical is injured or lost while in the possession of a member, it must be replaced by a perfect copy or an equivalent in value.

5. No book or periodical shall be removed from the Library or Reading-Room without the permission of the Librarian, and the presentation of a ticket signed by the applicant, who shall be responsible for the books, &c., taken out until such ticket is cancelled.

6. Any member may introduce a friend, not resident in Toronto or vicinity, to the privilege of reading in the Library or Reading-Room for a period not exceeding one month, on entering his own name with that of the person introduced by him in a visitors' book to be kept for that purpose.

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\* \* \* The Reading-Room is open every afternoon from 1 to 6 p.m., and on Saturdays also from 10 to 12 a.m., and in the evening during the Session.

The no. of Honorary Members in Ontario is by contract limited to Five for now full blessing Sir. D. Wilson - D. Workman Sandford Fleming, Kives Tully and Prof. Chapman: 14 See pages 6 & 7.

LIST OF PERIODICALS FOR THE YEAR 1887.

- |                               |                                 |
|-------------------------------|---------------------------------|
| Athenaeum.                    | Longman's Magazine.             |
| Atlautic Monthly.             | Maomillan's Magazine.           |
| Blackwood's Magazine.         | Mind.                           |
| Century Magazine.             | Nature.                         |
| Contemporary Review.          | Nineteenth Century.             |
| Das Echo (Presented).         | North American Review.          |
| Edinburgh Review.             | Popular Science Monthly.        |
| English Historical Magazine.  | Punch.                          |
| English Illustrated Magazine. | Saturday Review.                |
| Fortnightly Review.           | Science.                        |
| Graphic.                      | Scientific American.            |
| Hardwicke's Science Gossip.   | Scientific American Supplement. |
| Harper's Monthly.             | Scottish Review.                |
| Illustrated London News.      | Spectator (Presented).          |
| Lancet.                       | Week.                           |
| Law Quarterly Review.         | Westminster Review.             |
| London Quarterly Review.      |                                 |

*It is proposed to add to this List as the Membership increases.*

This is an *old* LIST OF MEMBERS. *list of first*  
*now complete 1890*

HONORARY MEMBERS.

- |  |                  |
|--|------------------|
| Cumming, W. H., M.D.   | Victoria, B.C.   |
| Lefroy, Sir J. Henry, Lieut-General, C.M.G., F.R.S.            | London, Eng.     |
| McCaul, Rev. John, LL.D.                                       | Toronto.         |
| Provancher, M. l'Abbé.   | Cap Rouge, Que.  |
| Stewart, Professor Balfour, Owens College.                     | Manchester, Eng. |
| Wilson, Daniel, LL.D., F.R.S.E., President University College. | Toronto.         |

LIFE MEMBERS.

- |  |                     |
|--|---------------------|
| Broadhead, Hon. J. G.                            | Washington, D.C.    |
| Clewett, W. C., M.D.                             | York Township, Ont. |
| Fleming, Sandford, C.E., LL.D., C.M.G.           | Ottawa, Ont.        |
| McNish, Rev. Neil, D.D.                          | Cornwall, Ont.      |
| Murray, George, Barrister-at-Law.                | Churchville, Ont.   |
| Hunt, T. Sterry, F.R.S.                          | Montreal, Que.      |
| Page, John                                       | Matilda, Ont.       |
| Rosebrugh, A. M., M.D.                           | Toronto.            |
| Roweall, Henry                                   | "                   |
| Scadding, Rev. Henry, D.D.                       | "                   |
| Smith, L. W., Q.C., D.C.L., Barrister-at-Law     | "                   |
| Stennet, Rev. W., M.A.                           | Cobourg, Ont.       |
| Young, Professor G. P., M.A., University College | Toronto.            |

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ORDINARY MEMBERS.

Abrey, G. B., C.E.....	Toronto.	Chamberlain, A. F., BA....	Toronto.
Acheson, G., B.A.....	"	Christie, William.....	"
Alexander, H. S.....	"	Chubb, S. J.....	"
Allan, Hon. G. W.....	"	Clark, J. M., M.A., Barris-	"
Allen, S. R.....	"	ter-at-Law.....	"
Andrews, W. S.....	"	Clark, Rev. Professor, M.A.,	"
Armstrong, Charles.....	"	Trinity College.....	"
Armstrong, T. C. L., LL.B.,	"	Copp, W. W.....	"
Barrister-at-Law.....	"	Covernton, C. W., M.D.....	"
Arnoldi, Frank, Barrister-at-	"	Cox, Arthur.....	"
Law.....	"	Creelman, W. F. W., M.A.,	"
Bain, James, jun. Treas er, Toronto	"	Barrister-at-Law.....	"
Baker, A., M.A.....	"	Curry, S. George.....	"
Baldwin, Rt. Rev. M. S.,	"	Dale, T. Nelson.....	Toronto.
Bishop of Huron.....	London, Ont.	Dale, W., M.A.....	"
Baldwin, R. R., B.A.....	Toronto.	Dawson, R.....	"
Barber, J. S.....	"	Dick, David B.....	"
Barnett, J. Davies..	Port Hope, Ont.	Dickson, G. A., M. A.....	"
Bayliss, Benjamin, jun. ....	Toronto.	Doel, W. H., J.P.....	"
Beale, W. L.....	"	Douglass, W. A., B.A.....	"
Beaty, James, jun., Q. C.,	"	Duncan-Clark, S. C.....	"
L.C.L.....	"	Dunlop, Prof., J. C., M.A ..	"
Bethune, G. S. C.....	"	Durand, C. F.; B.A.....	"
Bethune, R. H.....	"	Elliot, R. W.....	Toronto.
Bigelow, N. G., M.A., Bar-	"	Ellis, Prof. W. H., M.A.,	"
rister-at-law.....	"	M. B.....	"
Blain, David, LL.D.....	"	Elvins, Andrew.....	"
Blain, Hugh.....	"	Ewing, W. B.....	"
Blake, W. H., Barrister-at-	"	Ferguson, Rev. Prof.,	"
Law.....	"	Queen's College... Kingston, Ont.	"
Blue, Archibald.....	"	Fessenden, C., B.A....	Napanee, Ont.
Boulton, W., C.E.....	"	Fisken, J. Kerr, B. A.....	Toronto.
Boyle, David, Curator.....	"	Fitzgerald, Gerald.....	"
Brock, Henry, Barrister-at-	"	Fox, W. W.....	"
Law.....	"	Frost, W. A., B. A.....	"
Brodie, W., D.D.S.....	"	Galbraith, Prof. J., M.A ..	Toronto.
Bronson, J. L.....	"	Garden, J. F.....	"
Brooke, D. O.....	"	Garnier, Dr.....	Lucknow, Ont.
Browning, T. B., M.A., Bar-	"	Gaunt, A.....	Toronto.
rister-at-Law.....	"	Geddes, Captain Gamble,	"
Bryce, P. H., M.A., M.D..	"	A.D.C.....	"
Burnfield, Rev. G.,	"	Goldie, James.....	Guelph, Ont.
M. A.....	Brockville, Ont.	Gordon, Lieut. A. R., R.N,	Toronto.
Burns, W., B.A.....	Brampton.	Gzowski, Col. C. S.....	"
Burgess, Thos., J. W.,	"	Gzowski, C. S., jun.....	"
M.B.....	London, Ont.	Haldane, William.....	Toronto.
Cameron, I. H., M. D.....	Toronto.	Hale, Horatio.....	Clinton, Ont.
Cameron, J. H., B.A.....	"	Hall, John, sen., M.D.....	Toronto.
Campbell, Rev. Prof., Montreal, Que.	"	Hamilton, J. C., LL.B., Bar-	"
Carpmael, Charles, M. A ..	Toronto.	rister-at-Law.....	"
Carter, E. T.....	"	Hamilton, A., M.D.....	"
Cassidy, J. J., M.D.....	"		
Cassidy, W.....	"		

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Haalam, Rev. Geo. E., M.A., Toronto.	Lawson, A. C., B.A.... Ottawa, Ont.
Henderson, William..... "	Lennox, C. D..... Toronto.
Heyden, Lawrence..... "	Levey, Charles..... "
Heys, Professor T..... "	Lindsay, Charles..... "
Hirschfelder, C. A..... "	Lindsey, G. G. S., B.A..... "
Hodgins, Frederick B..... "	Livingston, J. A..... "
Holgate, Henry, C. E..... "	Logie, T. M., B.A..... "
Hollingworth, S..... "	Loudon, Prof. J., M. A., University College..... "
Horsey, J. H..... "	Loudon, W. J., B.A..... "
Horwood, J. C..... "	
Houston, W., M.A..... "	
Howell, Henry S..... Galt, Ont.	Macallum, A. B., B.A..... Toronto.
Howland, H. S., jun..... Toronto.	McAree, John, P.L.S..... "
Howland, O. A., Barrister- at-Law..... "	McCabe, William, M.A..... "
Howland, W. H., Mayor of Toronto..... "	McConnell, John, M.B..... "
Hughes, B. B..... "	Macdonald, J. K..... "
Hughes, James L..... "	Macdougall, Alan, M. Inst., C.E., F.R.S.E., Secretary "
Hunter, J. H., M.A..... "	McDougall, J., B.A.... London, Ont.
Huston, W. H., M.A..... "	Macfarlane, A., D.Sc., F.R.S.E., Prof. University of Texas, Austin, Texas, U.S.A.
Hutton, Prof. M., M.A., University College..... "	McGill, Anthony, B.A., Ottawa, Ont.
	Mackenzie, Ernest C..... Toronto.
Ives, J. T. B., F.G.S. .... Toronto.	McKenzie, T., B.A..... "
	McKinnon, G. A..... "
Jardine, S ..... Toronto.	McKinnon, J. H..... "
Jarvis, George H., Barrister- at-Law..... "	McLean, Rev. John, B.A., Ft. McLeod
Johnson, Alfred S., M.A. Cornell Univ... Ithaca, N.Y., U.S.A	Maclean, Wallace, B.A.... Toronto.
Johnson, Arthur Jukes, M.D. Toronto	MacLennan, James, Q. C., Barrister-at-Law..... "
Jennings, W. T..... London, Ont.	McMurchy, A., M.A..... "
	McMurrich, Prof. J. P., Ha- verford College..... Pa., U.S.A.
Keefe, S. L., C.E.... Brockville, Ont.	McMurrich, W. B., M.A., Barrister-at-Law..... Toronto.
Keefe, T. A..... Port Arthur, Ont.	Macoun, John, M. A., F.R.S.C..... Ottawa, Ont.
Kelso, J. J..... Toronto.	McPherson, A. F..... Toronto.
Kendall, E. J..... "	Macpherson, Sir David L., K.C.M.G..... "
Kennedy, George, M.A., LL.D., Editor..... "	Manchee, F. D..... "
Kennin, F. N..... "	Marling, Alexander, LL.B.. "
Kerr, John L..... "	Martin, I. E., B.A..... "
Kerr, W. H. C., M.A., Bar- rister-at-Law..... "	Mason, Alfred H., F.C.S., Montreal.
Keys, D. R., B.A..... "	Mason, J. Herbert..... Toronto.
Kingsford, R. E., M.A., Bar- rister-at-Law..... "	Massey, W. E. H..... "
Kirkland, T., M.A..... "	Melville, W. P..... "
Knowlton, W. H..... "	Meredith, E. A., M. A., LL.D., Vice-President.... "
Laboureaux, Rev. Fa- ther..... Penetanguishene.	Merritt, W. H., F.G.S.... "
Laidlaw, C. E..... Toronto.	Middleton, F. H..... "
Lander, J. C..... "	Middleton, W. E., Barrister- at-Law..... "
Langton, John, M.A..... "	Miles, C. F..... "
Langton, Thomas, Barrister- at-Law..... "	Millar, J. B..... "
	Milligan, T. C., Barrister- at-Law..... "



	Robertson, Thomas.....	Toronto.
	Robinson, J. M.D.....	London, Ont.
	Ross, Hon. G. W., LL.B., Minister of Education....	Toronto.
	Rouse, M. L.....	"
	Ryerson, G. S., M.D.....	"
	Scott, T. M.....	Toronto.
	Seath, John, B.A.....	"
	Shaw, George E., B.A. Librarian.....	"
	Shutt, F. T., M.A., F.C.S.	"
	Simpson, T. W., B. A., M.D.	"
	Sloan, John.....	"
	Smith, A.....	"
	Smith, Goldwin, M.A., D. C. L.....	"
	Smoke, S. C., M.A., Barris- ter-at-Law.....	"
	Speight, T. B., P.L.S.....	"
	Squair, John, B.A.....	"
	Steele, Henry.....	"
	Stupart, R. F.....	"
	Sullivan, Dion, C., LL.B....	"
	Talbot, D. H., Sioux City, Ia., U.S.A.	
	Tassie, W. T.....	Toronto.
	Tout, Charles Hill.....	"
	Tully, Kivas, C.E.....	"
	Tyrrell, J. B., B.A.....	Ottawa, Ont.
	Tyrrell, J. D., M.D.....	Toronto.
	VanderSmissen, W. H., M.A. President.....	Toronto.
	Wagner, C. F.....	Toronto.
	Waltou, Charles A.....	"
	Webber, B. C.....	"
	Whetham, C., B.A., Johns Hopkins Univ.....	Baltimore, Md.
	Wilgress, G. S., B.A.....	Toronto.
	Will, A. Percival.....	"
	Williams, J. B.....	"
	Wilson, G. H.....	"
	Winnett, Henry.....	"
	Workman, Joseph, M.D....	"
	Wright, Prof. R. Ramsay, M.A., B.Sc., Univ. College	"
	Wrong, Rev. G. M., M.A....	"
	Milner, W. S., B.A....	Lindsay, Ont.
	Monk, T. H.....	Toronto.
	Morphy, Henry E., Barris- ter-at-Law.....	"
	Morrow, John.....	"
	Mosey, R.....	"
	Mouat, J. Gordon.....	"
	Mowat, Hon. Oliver, Q.C., Attorney-General.....	"
	Mulvey, T. J., B.A.....	"
	Mutton, W. George.....	"
	Nairn, John.....	Toronto.
	Neilson, Hugh.....	"
	Nesbitt, Wallace.....	"
	Nevitt, R. B., M.D.....	"
	Noble, James.....	"
	Notman, John.....	"
	Oldright, William, M.D....	Toronto.
	O'Reilly, W. T., M.D.....	"
	O'Sullivan, D. A., M. A., LL. D., Barrister-at-Law..	"
	Palmer, L. L., M.D.....	Toronto.
	Panton, Prof. J. H., M.A....	Guelph.
	Parkhurst, E. R.....	"
	Payne, F. F.....	"
	Payne, Hugh V.....	"
	Pearce, James H.....	"
	Pearce, W.....	Calgary, N. W. T.
	Petman, R.....	Toronto.
	Petry, Charles B.....	"
	Phillips, Frederick.....	"
	Phipps, R. W.....	"
	Pike, W. H., Professor, Uni- versity College.....	"
	Proudfoot, Hon. Vice-Chan- cellor.....	"
	Pursey, F. J.....	"
	Pursey, G. G.....	"
	Ramsey, James G.....	Toronto.
	Reeve, R. A., M.D.....	"
	Reid, J. Warren, B.A.....	Ottawa, Ont.
	Richardson, C. G.....	Toronto.
	Richardson, Jas. H., M.D....	"
	Ridout, Charles.....	"
	Rippon, E. V.....	"
	Ritchie, George, B.A., B.Sc. Barrister-at-Law.....	"

## ASSOCIATES.

Armstrong, C. W.....	Toronto
Brown, Hubert.....	"
Brown, J. F.....	"
Douglas, F.....	"
Elliot, W.....	"
Forbes, W. A.....	"
Goldstone, G. T.....	"
Gregg, A. H.....	"
Herbert, F. H.....	"
Hewett, D. A.....	"
Hynes, J. P.....	"
King, G. W.....	"
Knowles, Arthur.....	"
Langley, Charles.....	"
Macklin, H. G.....	"
Maloney, F. F.....	"
Otter, F.....	"
Simpson, Henry.....	"
Smith, W. A.....	"
Sproatt, Harry.....	"
Symons, W. L.....	"
Tilley, W. C.....	"
Tyrrell, Ernest.....	"
Vincent, George.....	"
Wickson, A. F.....	"
Wilby, Ernest.....	"

## THE CANADIAN INSTITUTE

*Exchanges with the following Societies and Periodicals :*

## I.—A M E R I C A.

## (1.)—CANADA.

Canadian Practitioner, Toronto.  
 Meteorological Reports, Toronto.  
 Public Library, Toronto.  
 Education Department, Toronto.  
 Provincial Board of Health, Toronto.  
 Publications of the Provincial Government.  
 Geological and Natural History Survey of Canada, Ottawa.  
 Parliamentary Library, Ottawa.  
 Royal Society of Canada, Ottawa.  
 Ottawa Field Naturalists' Club, Ottawa.  
 Entomological Society of Ontario, London.  
 Hamilton Association, Hamilton.  
 Natural History Society of Montreal.  
 Literary and Historical Society of Quebec, Quebec.  
 Le Naturaliste Canadien, Cap Rouge, Que.  
 Natural History Society of New Brunswick, St. John, N. B.  
 Nova Scotia Historical Society, Halifax, N. S.  
 Nova Scotia Institute of Natural Sciences, Halifax, N. S.  
 Manitoba Historical and Scientific Society, Winnipeg, Man.—19.

## (2).—UNITED STATES.

Bureau of Steam Engineering, Navy Department, Washington, D. C.  
 Smithsonian Institution, Washington, D. C.  
 Bureau of Ethnology, Washington, D. C.  
 United States Geological Survey, Washington, D. C.  
 Philosophical Society of Washington, Washington, D. C.  
 United States Coast and Geodetic Survey, Washington, D. C.  
 United States National Museum, Washington, D. C.  
 Department of Agriculture (Division of Chemistry), Washington, D. C.  
 California Academy of Science, San Francisco, Cal.  
 Technical Society of the Pacific Coast, San Francisco, Cal.  
 Western Scientist, San Diego, Cal.  
 Colorado Scientific Society, Denver.  
 Bridgeport Scientific Society, Bridgeport, Conn.  
 American Journal of Science, New Haven, Conn.  
 Connecticut Academy of Arts and Science, New Haven, Conn.  
 Yale College Observatory, New Haven, Conn.  
 Georgia Historical Society, Savannah, Ga.  
 Chicago Historical Society, Chicago.  
 Illinois State Laboratory of Natural History, Champaign, Ill.  
 American Antiquarian and Oriental Journal, Chicago, Ill.  
 Brookville Society of Natural History, Brookville, Ind.  
 Academy of Natural Sciences, Davenport, Iowa.  
 State Historical Society of Iowa, Iowa City.  
 Kansas Historical Society, Topeka.  
 Kansas Academy of Science, Topeka.  
 Academy of Natural Sciences, New Orleans, La.  
 Peabody Institute, Baltimore, Md.  
 Johns Hopkins University, Baltimore, Md.  
 United States Naval Institute, Annapolis, Md.  
 Boston Society of Natural History, Boston, Mass.  
 American Academy of Arts and Sciences, Boston, Mass.  
 Observatory of Harvard College, Cambridge, Mass.  
 Harvard University Library, Cambridge, Mass.  
 Museum of Comparative Zoölogy at Harvard College, Cambridge, Mass.  
 Peabody Museum of Archaeology and Ethnology, Cambridge, Mass.  
 American Association for the Advancement of Science, Cambridge, Mass.  
 American Society for Psychical Research, Cambridge, Mass.  
 Essex Institute, Salem, Mass.  
 Peabody Academy of Science, Salem, Mass.  
 American Antiquarian Society, Worcester, Mass.  
 Worcester Society of Antiquity, Worcester, Mass.  
 Agricultural College, near Lansing, Mich.  
 Academy of Natural Sciences, Minneapolis.  
 Geological and Natural History Survey of Minnesota, Minneapolis.

Academy of Sciences, St. Louis, Mo.  
 Missouri Historical Society, St. Louis, Mo.  
 Sedalia Natural History Society, Sedalia, Mo.  
 New Jersey Historical Society, Newark, N. J.  
 E. M. Museum of Geology and Archaeology, Princeton College, Princeton, N. J.  
 New York Academy of Sciences, New York.  
 American Museum of Natural History, Central Park, New York.  
 American Society of Civil Engineers, New York.  
 Journal of Speculative Philosophy, New York.  
 Linnean Society of New York, New York.  
 New York Microscopical Society, New York.  
 School of Mines Quarterly, Columbia College, New York.  
 Magazine of American History, New York.  
 American Geographical Society, New York.  
 New York Academy of Anthropology, New York.  
 American Chemical Society, New York.  
 Electrical Review, New York.  
 Electrician and Electrical Engineer, New York.  
 American Institute of Mining Engineers, New York.  
 Political Science Quarterly, New York.  
 New York State Library, Albany, N. Y.  
 New York State Museum of Natural History, Albany, N. Y.  
 Buffalo Society of Natural Sciences, Buffalo, N. Y.  
 Buffalo Historical Society, Buffalo, N. Y.  
 Cornell University, Ithaca, N. Y.  
 Vassar Brothers Institute, Poughkeepsie, N. Y.  
 Oneida Historical Society, Utica, N. Y.  
 Rensselaer Society of Engineers, Troy, N. Y.  
 Ohio Mechanics' Institute, Cincinnati, O.  
 Historical and Philosophical Society of Ohio, Cincinnati, O.  
 Cincinnati Society of Natural History, Cincinnati, O.  
 Denison University, Laboratories of Biology and Natural History, Granville, O.  
 University of Pennsylvania, Philadelphia.  
 American Catholic Quarterly Review, Philadelphia.  
 American Naturalist, Philadelphia.  
 American Philosophical Society, Philadelphia.  
 Academy of Natural Sciences of Philadelphia, Philadelphia.  
 Franklin Institute of the State of Pennsylvania, Philadelphia.  
 Historical Society of Pennsylvania, Philadelphia.  
 Wyoming Historical and Geological Society, Wilkesbarre, Pa.  
 Rhode Island Historical Society, Providence, R. I.  
 Newport Natural History Society, Newport, R. I.  
 University of Virginia.  
 Wisconsin Academy of Sciences, Arts, and Letters, Madison.  
 State Historical Society of Wisconsin, Madison.—89.

## (3.)—MEXICO.

Museo Nacional de México.—1.

## (4.)—CUBA.

La Sociedad Antropologica de la Isla de Cuba.—1.

## (5.)—SOUTH AMERICA.

Instituto Historico, Geographico, e Ethnographico do Brazil, Rio de Janeiro.

Annaes da Escola de Minas de Ouro Preto.

Sociedade de Geographia de Lisboa no Brazil.

Academia Nacional de Ciencias en Córdoba (Republica Argentina).—4.

## II.—EUROPE.

## (1.)—GREAT BRITAIN AND IRELAND.

## ENGLAND.

Birmingham Natural History and Microscopical Society.

Journal of Microscopy and Natural Science, Bath.

The Scientific Enquirer, Bath.

Cambridge Philological Society.

Cambridge Philosophical Society.

Royal Geological Society of Cornwall, Penzance.

Literary and Philosophical Society of Leeds.

Literary and Philosophical Society of Liverpool.

Liverpool Astronomical Society.

Liverpool Polytechnic Society.

Royal Geographical Society, London.

Royal Astronomical Society, London.

Royal Microscopical Society, London.

Royal Society, London.

Victoria Institute, London.

Quekett Microscopical Club, London.

Society for Psychical Research, London.

Anthropological Institute of Great Britain and Ireland, London.

Royal Colonial Institute, London.

Linnean Society of London.

London Mathematical Society, London.

Institution of Civil Engineers, London.

Financial Reform Association, London.

British Museum, London.

British Museum, Natural History Section, London.

Palestine Exploration Fund, London.

Patent Office, London.

Trübner's American, European, and Oriental Literary Record, London.  
 Physical Society of London.  
 National Association for the Advancement of Social Science, London.  
 The Sanitary Institute of Great Britain, London.  
 The Chemical News, London.  
 Royal Antiquarian Society, London.  
 Meteorological Office, London.  
 Literary and Philosophical Society of Manchester.  
 Manchester Geological Society, Manchester.  
 Manchester Association of Employers, Foremen, and Draughtsmen of the  
 Mechanical Trades of Great Britain.  
 Society of Antiquaries of Newcastle-upon-Tyne.  
 Somersetshire Archaeological and Natural History Society.—39.

## SCOTLAND.

Royal Society of Edinburgh.  
 Royal Society of Antiquaries.  
 Royal Scottish Society of Arts.  
 Royal Physical Society.  
 Edinburgh Botanical Society.  
 Edinburgh Geological Society.  
 Scottish Geographical Society.  
 Royal Philosophical Society, Glasgow.  
 Glasgow Geological Society, Glasgow.  
 Natural History Society of Glasgow.  
 Institution of Engineers and Shipbuilders of Scotland.—11.

## IRELAND.

Royal Irish Academy, Dublin.  
 Royal Dublin Society, Dublin.  
 Royal Geological Society of Ireland, Dublin.  
 The Institution of Civil Engineers of Ireland.  
 Naturalists' Field Club, Belfast.  
 Belfast Natural History and Philosophical Society.—6.

## (2.)—AUSTRIA-HUNGARY.

Siebenbürgischer Verein für Naturwissenschaften in Hermannstadt.  
 K. Böhmisches Gesellschaft der Wissenschaften, Prag.  
 K. K. Universitäts-Sternwarte, Prag.  
 Naturhistorischer Verein "Lotos," Prag.  
 Civico Museo di Storia Naturale di Trieste.  
 K. K. Geologische Reichsanstalt, Wien.  
 K. K. Geographische Gesellschaft, Wien.  
 K. K. Zoologisch Botanische Gesellschaft.  
 K. K. Naturhistorisches Hofmuseum.  
 K. K. Central Anstalt für Meteorologie und Erd-Magnetismus.  
 Anthropologische Gesellschaft in Wien.

Wissenschaftlicher Club in Wien.  
 Oesterreichischer Ingenieur-und Architekten Verein, Wien.  
 Ornithologischer Verein, Wien.—14.

## (3.)—BELGIUM.

Académie Royale des Sciences, des Lettres et des Beaux Arts de Belgique.  
 Société Royale de Botanique de Belgique.  
 Société Royale Belge de Géographie.  
 Musée Royal d'Histoire Naturelle de Belgique.—4.

## (4.)—DENMARK.

Kongelige Bibliotheket.  
 Kongelige Danske Videnskabernes Selskab.  
 Kongelige Nordiske Oldskrift Selskab.  
 Nordisk Tidsskrift for Filologi.—4.

## (5.)—FRANCE.

Académie Nationale des Sciences, Arts et Belles-Lettres de Caen.  
 Société Nationale des Sciences de Cherbourg.  
 Société Géologique de Normandie.  
 Société Géologique du Nord.  
 Société pour l'Étude des Langues Romanes, Montpellier.  
 Académie des Sciences, Inscriptions et Belles-Lettres de Toulouse.  
 Annales des Mines, Paris.  
 Annales des Ponts et Chaussées, Paris.  
 Société des Ingénieurs Civils, Paris.  
 Société Nationale des Antiquaires de France, Paris.  
 Société Géologique de France, Paris.  
 Société Académique Indo-Chinoise de France, Paris.  
 Société d'Ethnographie, Paris.  
 Société Américaine de France, Paris.  
 Société d'Anthropologie de Paris, Paris.  
 Bibliothèque Nationale, Paris.  
 Société de Géographie, Paris.  
 Cosmos, Paris.  
 L'Électricité, Paris.  
 Association Française pour l'Avancement des Sciences, Paris.  
 Journal des Sociétés Scientifiques, Paris.  
 Revue de Linguistique et de Philologie Comparée, Paris.  
 Société Zoologique de France, Paris.  
 Société Mathématique de France, Paris.  
 Bulletin d'Histoire Ecclésiastique et d'Archéologie Religieuse des Diocèses de  
 Valence, Digne, Gap, Grenoble, et Viviers.—22.

## ALGERIA.

Société de Géographie et d'Archéologie de la Province d'Oran.  
 Académie d'Hippone.—2.

## (6.)—GERMANY.

- Königliche Preussische Akademie der Wissenschaften, Berlin.  
 Gesellschaft Naturforschender Freunde, Berlin.  
 Gesellschaft für Erdkunde, Berlin.  
 Berliner Gesellschaft für Anthropologie, Ethnologie und Urgeschichte, Berlin.  
 Bibliographie der Staats- und Rechtswissenschaften, Berlin.  
 Archiv der Mathematik und Physik, Berlin.  
 Naturhistorischer Verein für die Preussischen Rheinlande und Westphalen,  
 Bonn.  
 Naturwissenschaftlicher Verein, Bremen.  
 Naturwissenschaftlicher Verein "Isis," Dresden.  
 Senckenbergische Naturforschende Gesellschaft, Frankfurt-am-Main.  
 Naturwissenschaftlicher Verein, Frankfurt-an-der-Oder.  
 Oberhessische Gesellschaft für Natur- und Heilkunde, Giessen.  
 Königliche Gesellschaft der Wissenschaften, Göttingen.  
 Naturwissenschaftlicher Verein, Hamburg.  
 Verein für Naturwissenschaftliche Unterhaltung, Hamburg.  
 Naturhistorisches Museum zu Hamburg, Hamburg.  
 Geographische Gesellschaft, Hannover.  
 Naturhistorischer Verein für Niedersachsen, Hannover.  
 Historischer Verein für Niedersachsen, Hannover.  
 Naturhistorisch-Medicinischer Verein, Heidelberg.  
 Verein für Naturkunde, Kassel.  
 Ostpreussische Physikalisch-Oekonomische Gesellschaft zu Königsberg.  
 Naturforschende Gesellschaft zu Leipzig.  
 Königlich Sächsische Gesellschaft der Wissenschaften zu Leipzig.  
 Verein für Vaterländische Naturkunde in Württemberg.  
 Naturhistorische Gesellschaft zu Nürnberg.  
 Königlich Baierische Akademie der Wissenschaften, München.  
 Deutsche Gesellschaft für Anthropologie, Ethnologie und Urgeschichte,  
 München.  
 Görres Gesellschaft (Historisches Jahrbuch), München.  
 Verein für Naturkunde, Offenbach-am-Main.  
 Zeitschrift für Physiologische Chemie, Strassburg.  
 Nassauischer Verein für Naturkunde, Wiesbaden.—32.

## (7.)—ICELAND.

- Islenzka Fornleifafélag, Reykjavik.—1.

## (8.)—ITALY.

- Ateneo di Brescia, Brescia.  
 Società Storica per la Provincia e Antica Diocesi di Como.  
 R. Istituto di Studi Superiori in Firenze.  
 Società Italiana di Antropologia, Etnologia, e Psicologia Comparata, Firenze.  
 Sezione Fiorentina della Società Africana d'Italia, Firenze.  
 Società Entomologica Italiana, Firenze.



- Società di Lettura e Conversazione Scientifiche, Genova.  
 R. Accademia di Belle Arti, Milano.  
 R. Istituto Lombardo di Scienze e Lettere, Milano.  
 Società Veneto-Trentina di Scienze Naturali, Padova.  
 Società Toscana di Scienze Naturali, Pisa.  
 Gazzetta Chimica Italiana, Palermo.  
 Circolo Matematico di Palermo, Palermo.  
 Società Siciliana per la Storia Patria, Palermo.  
 R. Accademia di Scienze, Lettere, e Belle Arti di Palermo, Palermo.  
 Direzione del Giornale del Genio Civile, Roma.  
 Società Geografica Italiana, Roma.  
 R. Comitato Geologico d'Italia, Roma.  
 R. Accademia dei Lincei, Roma.  
 Bullettino di Bibliografia e di Storia delle Scienze Matematiche e Fisiche, Roma.  
 "Cosmos" di Guido Cora, Torino.  
 Notarisia Commentarium Phycologicum, Venezia.—22.

## (9.)—NETHERLANDS.

- Koninklijke Akademie van Wetenschappen, Amsterdam.  
 Koninklijke Zoologisch Genootschap "Natura Artis Magistra," Amsterdam.  
 École Polytechnique de Delft.  
 Société Hollandaise des Sciences à Harlem.  
 Fondation de P. Teyler van der Hulst, Harlem.  
 Nederlandsche Botanische Vereeniging, Leiden.  
 Nederlandsche Dierkundige Vereeniging, Leiden.  
 Recueil des Travaux Chimiques des Pays-Bas, Leiden.  
 Koninklijk Nederlandsch Meteorologisch Instituut, Utrecht.—9.

## (10.)—NORWAY.

- Polytekniske Forening, Kristiania.  
 Forening til Norske Fortidsminde-merkens Bevaring, Kristiania.  
 Videnskabs Selskabet i Kristiania.  
 Kongelige Norske Frederiks Universitetet, Kristiania.  
 Nyt Magazin for Natur Videnskaberne, Kristiania.—5.

## (11.)—PORTUGAL.

- Sociedade de Geographia de Lisboa.  
 Académie Royale des Sciences de Lisbonne.—2.

## (12.)—RUSSIA.

- Kharkow Mathematical Society.  
 Société des Naturalistes à l'Université Impériale de Kharkow.  
 Société Impériale des Naturalistes de Moscou.  
 Société Physico-Chimique Russe à l'Université de St. Petersburg  
 Comité Géologique, St. Petersburg.—5.

## (13.)—SPAIN.

"Crónica Científica," Barcelona.  
 Real Academia de Ciencias Morales y Políticas, Madrid.  
 Real Academia de la Historia, Madrid.  
 Sociedad Geográfica de Madrid.—4.

## (14.)—SWEDEN:

Kongliga Universitetet, Lund.  
 Kongliga Fysiografiska Sällskapet, Lund.  
 Kongliga Svenska Vetenskaps Akademien, Stockholm.  
 Kongliga Biblioteket, Stockholm.  
 Kongliga Universitetet, Stockholm.  
 Svenska Sällskapet för Antropologi och Geografi, Stockholm.  
 Geologiska Föreningens i Stockholm, Stockholm.  
 Acta Mathematica, Stockholm.  
 Kongliga Universitetet, Upsala.—9.

## (15.)—SWITZERLAND.

La Société d'Histoire Naturelle, Bern.  
 Geographische Gesellschaft von Bern.  
 Naturforschende Gesellschaft in Bern.  
 Société de Physique et d'Histoire Naturelle, Genève.  
 Société de Géographie de Genève.  
 Société Neuchateloise de Géographie.—6.

## (16.)—TURKEY.

Syllogue Littéraire Grec de Constantinople.—1.

## III.—ASIA.

## (1.)—INDIA.

Asiatic Society of Bengal, Calcutta.  
 Geological Survey of India, Calcutta.  
 Survey of India Department, Calcutta.  
 The Indian Antiquary, Bombay.  
 The Orientalist, Kandy, Ceylon.—5.

## (2.)—JAPAN.

University of Tokio.  
 Asiatic Society of Japan, Tokio.  
 Deutsche Gesellschaft für Natur-und Völkerkunde Ost-Asiens, Tokio.—3.

## (3.)—JAVA.

Bataviaasche Genootschap van Kunsten en Wetenschappen, Batavia.  
 Nederlandsch-Indische Maatschappij van Nijverheid en Landbouw, Batavia.—2.

## IV. — AUSTRALASIA.

## (1.)—AUSTRALIA.

Royal Society of New South Wales, Sydney.  
Department of Mines, New South Wales, Sydney.  
Linnean Society of New South Wales, Sydney.  
Royal Society of Queensland, Brisbane.—4.

## (2.)—NEW ZEALAND.

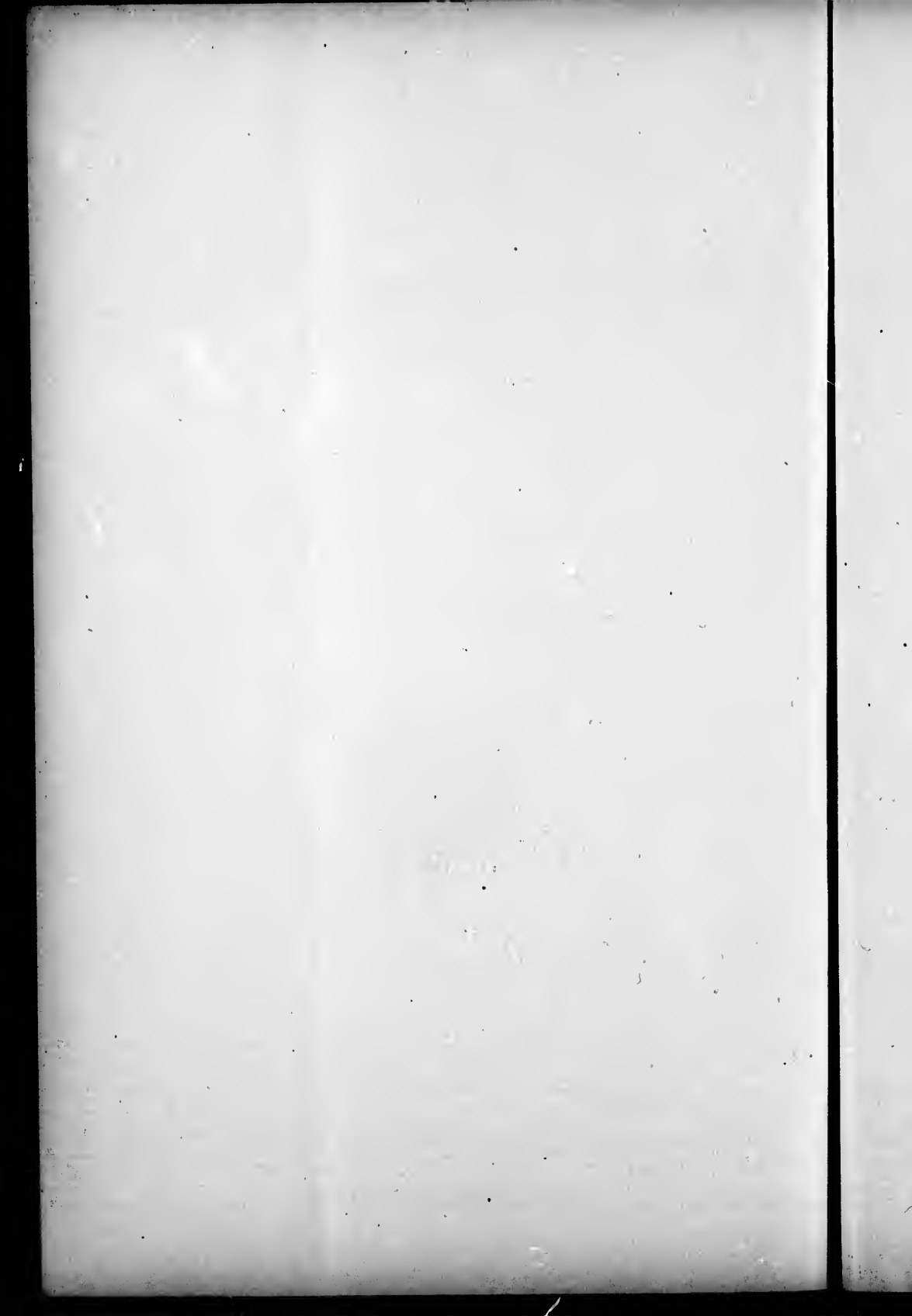
New Zealand Institute, Wellington.—1.

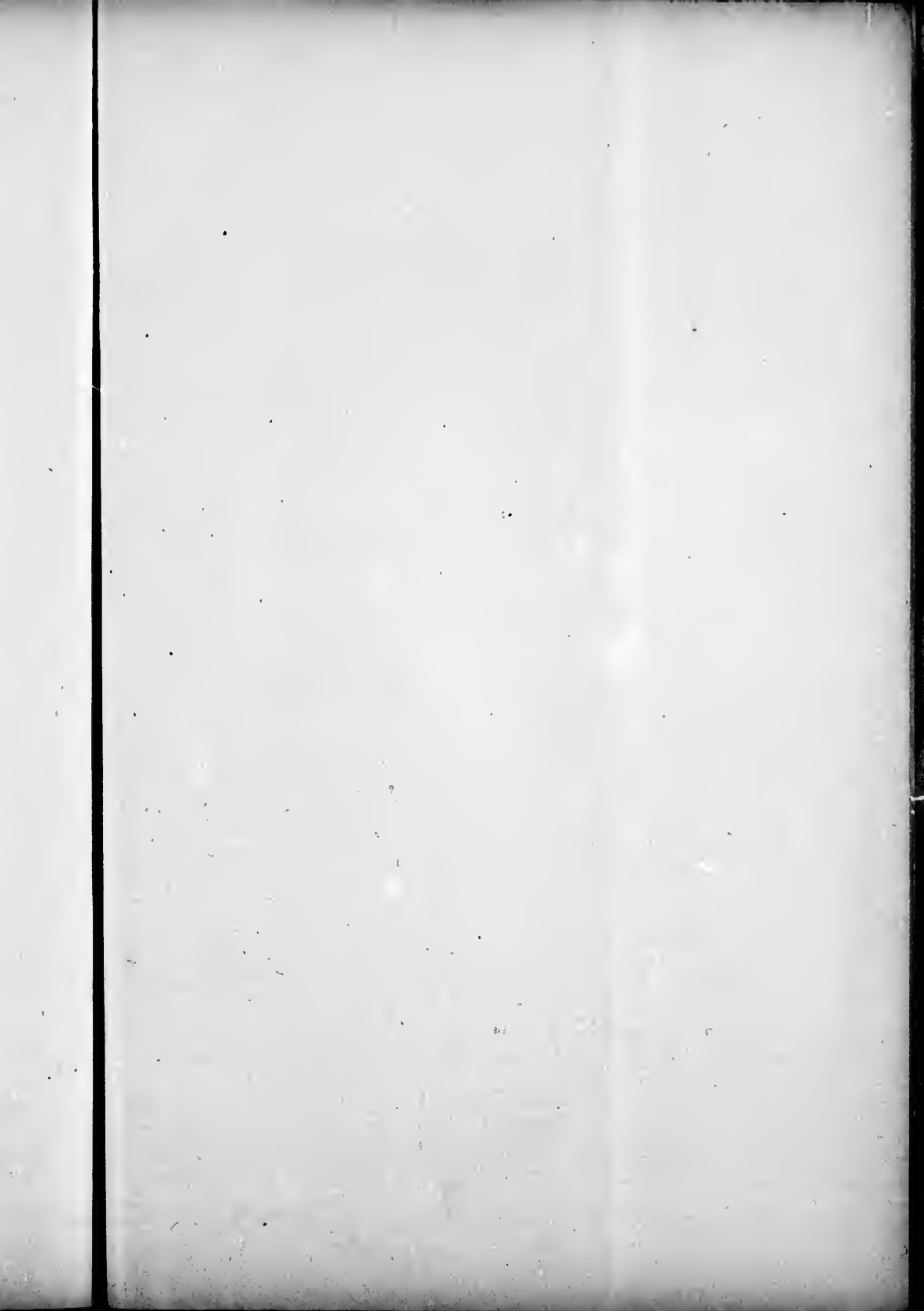
## (3.)—TASMANIA.

Royal Society of Tasmania, Hobart Town.—1.

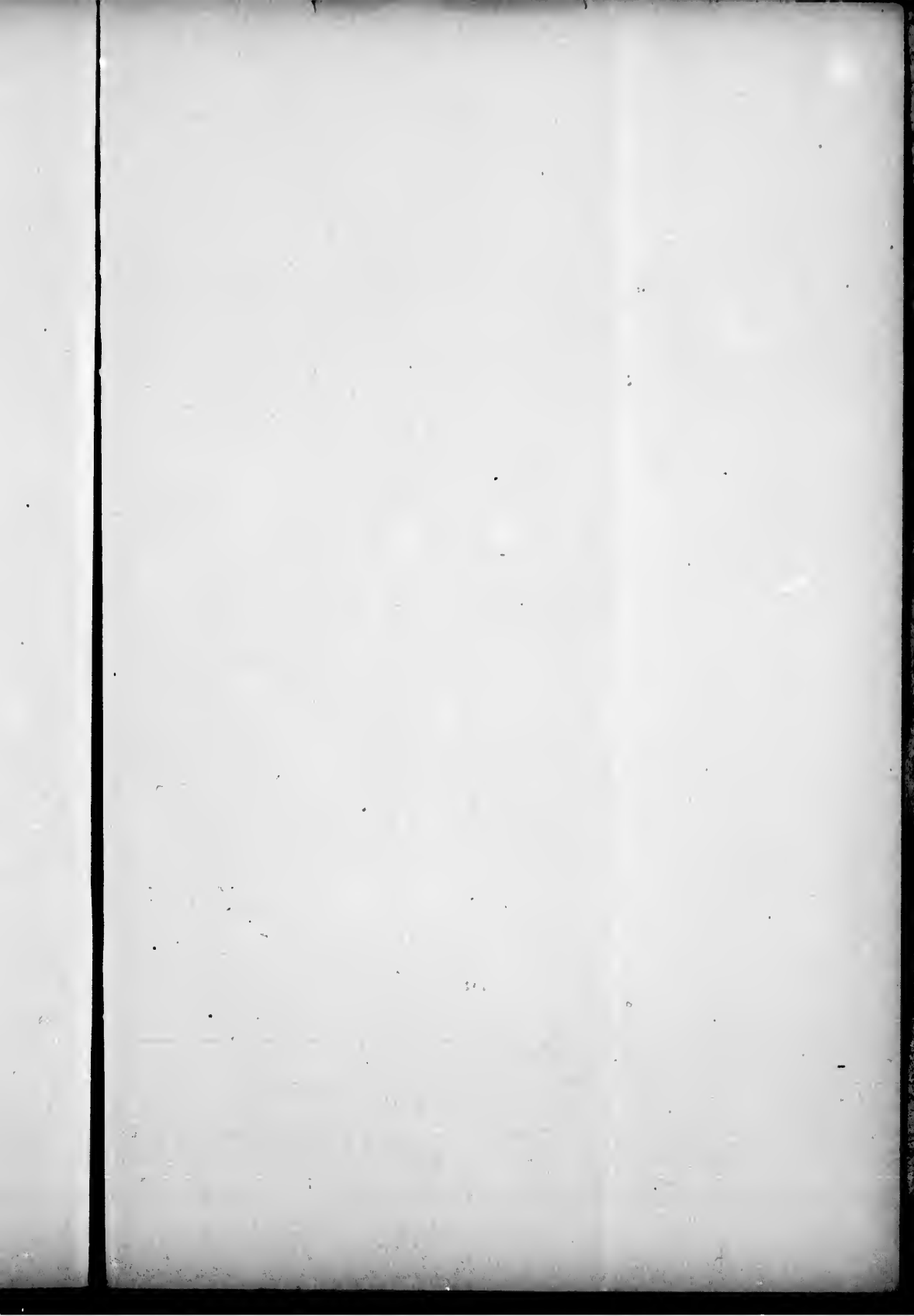
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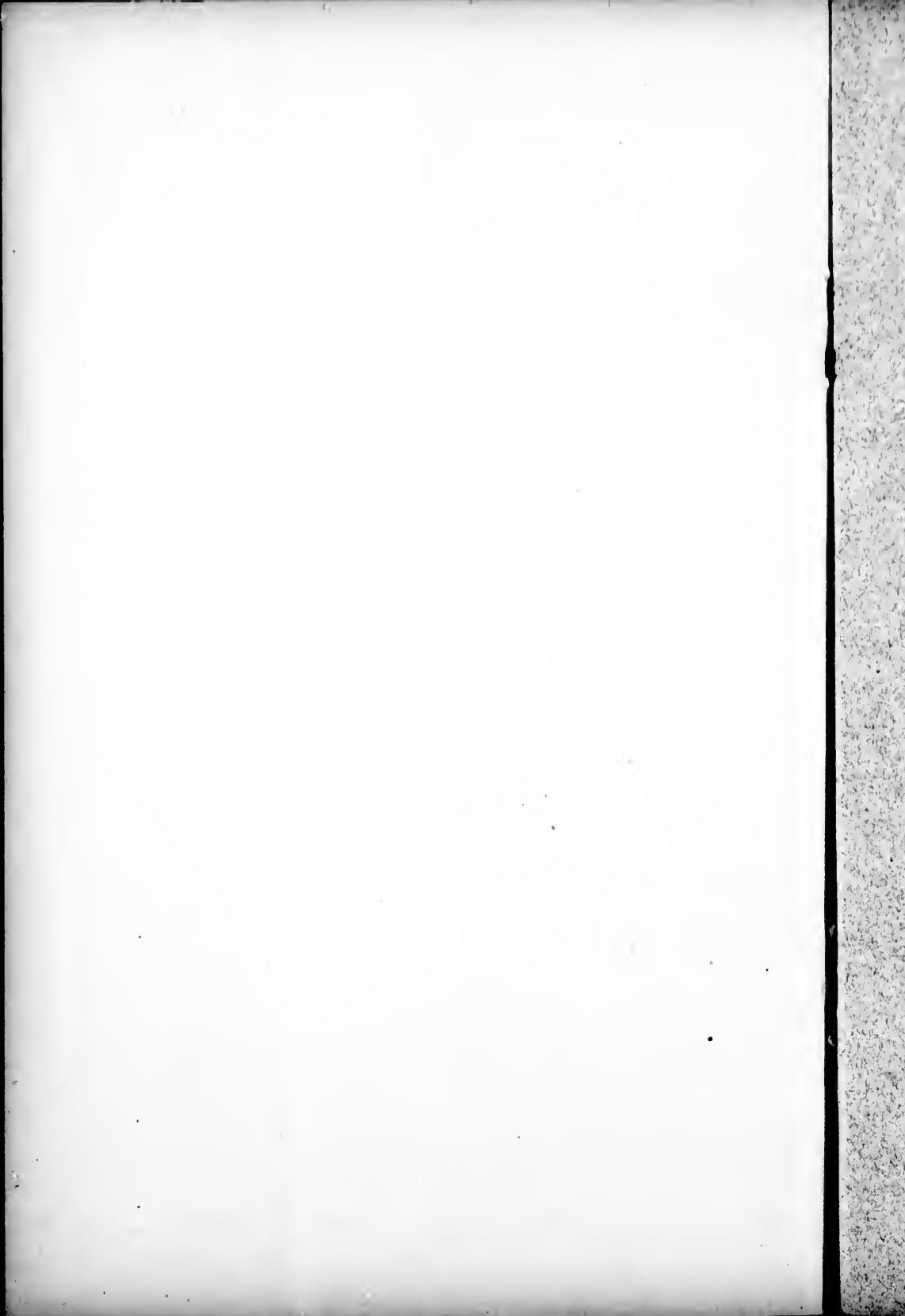














## PUBLICATIONS OF THE CANADIAN INSTITUTE.

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**FIRST SERIES**—Begun August, 1852; concluded December, 1855; 41 numbers, 3 vols. 4to.

**SECOND SERIES**—Begun January, 1856; concluded January, 1878; 92 numbers, 15 vols. 8vo.

**THIRD SERIES**—Begun 1879.

### NOTES.

1.—The First Series has for title, "The Canadian Journal: a Repertory of Industry, Science and Art; and a Record of the Proceedings of the Canadian Institute." The Second series has for title, "The Canadian Journal of Science, Literature, and History." The title of the Third Series is, "Proceedings of the Canadian Institute." Parts 1 & 2, Third Series, are entitled "The Canadian Journal: Proceedings of the Canadian Institute."

2.—By inadvertence, No. 85 (November, 1873) of the "Canadian Journal," 2nd Series (Vol. XIV.) immediately follows No. 79. There is, however, no *lacuna* between these two numbers, as is shown by the fact that the paging is consecutive.

3.—Societies wishing to exchange back numbers of their Proceedings can be supplied with complete sets of the Publications of the Canadian Institute, except Vol. XV., No. 5, Second Series, and Vol. I., Part 1, Third Series.

4.—Members having either of the above, Vol. XV., No. 5, Second Series, April, 1877, or Vol. I., Parts 1, 3 & 5; Vol. II., Parts 1 & 2; Vol. III., Part I, Third Series, and being willing to part with them, will please communicate with the Assistant Secretary.

