

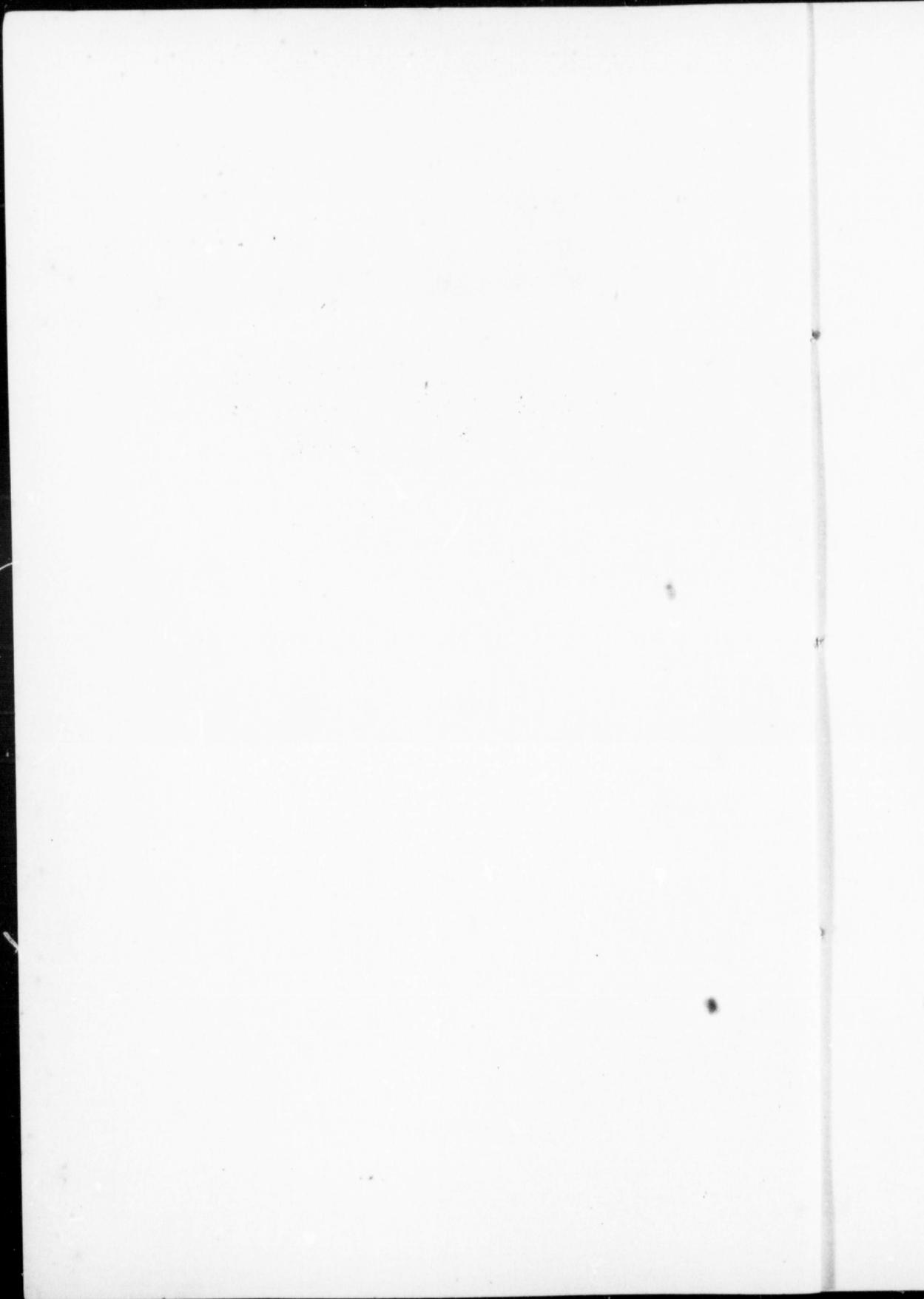
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ANNUAL REPORT  
OF  
MCGILL UNIVERSITY  
1884.

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ANNUAL REPORT  
OF THE  
MCGILL UNIVERSITY, MONTREAL,  
FOR THE YEAR 1884.

(Published by permission of his Excellency the Governor-General, Visitor of  
the University.)

*To His Excellency the Right Honourable and Most Noble the  
Marquis of Lansdowne, Governor-General of Canada.*

MAY IT PLEASE YOUR EXCELLENCY :—

The following Report on the condition and progress of McGill University, Montreal, and its affiliated Colleges and Schools, for the year ending December 31st, 1884, is respectfully presented to Your Excellency, as Visitor of the University, by the Governors, Principal and Fellows.

In the present Session, the number of Students in McGill College is as follows :—

Students in Law .....	26
Students in Medicine .....	233
Students in Arts, Undergraduates .....	109
“ “ Partial and Occasional .....	54
“ “ Special Course for Women, Under- graduates and Partial .....	15
“ “ Occasional .....	14
Students in Applied Science, Undergraduates .....	48
“ “ “ Partial and Occasional..	12
Total .....	511

Or, deducting 5 students entered in more than one Faculty, in all 506.

The students in Morrin College, Quebec, are 23 in the Undergraduate Course, and 12 Occasional.

The students in St. Francis College, Richmond, are 3 in the Undergraduate Course and 8 Occasional.

The teachers in training in the McGill Normal School are 105.

The pupils in the Model School of McGill Normal School are 385.

The total number of persons thus receiving educational benefits from the University is 1,042.

Of the students and teachers in training in McGill College and the Normal School, more than four hundred are persons not residing in Montreal, but attracted to it by the educational advantages offered by the University and its affiliated institutions.

In the School Examinations of June last, 33 candidates were successful; of whom 28 passed as Associates in Arts, and 5 for the Junior Certificate. Ten of the successful candidates were young women, two of whom stood at the head of the list. The candidates were sent up from seven schools, two of them in the city of Montreal.

Two of these schools, viz., the Lincoln College, Sorel, and the Cowansville Academy, become entitled to rank as affiliated Schools.

An amendment has been made in the regulations for the certificate of Senior Associate in Arts, on the suggestion of the Protestant Committee of the Council of Public Instruction, whereby the Classical subjects in that examination are assimilated to those in the Intermediate Examination.

Eleven Scholarships and Exhibitions, of the value of \$100 to \$125, severally, were awarded in the examinations held in September last. Of these, eight were the gift of W. C. McDonald, Esq., one of Mrs. Redpath, one of George Hague, Esq., and one of Dr. Johnson. The whole number of Scholarships and Exhibitions, including those held for two years, is fourteen.

The Scott Exhibition of \$66, the gift of the Caledonian Society of Montreal, a prize of \$25, contributed by S. Greenshields, B.A., and a prize of the value of \$25, contributed by Leslie Skelton, Esq., also two prizes in books,

given by W. W. Watson, Esq. and Prof. Bovey, were awarded in the Faculty of Applied Science.

An exhibition of \$100 contributed by Mr. J. H. Burland, B. Ap. Sc., was awarded in the course of Practical Chemistry in the Faculty of Applied Science.

In the Faculty of Arts 90 Exemptions from Fees were granted on Benefactors' Scholarships.

At the meetings of Convocation, held in March and May last, the following degrees were conferred:—

Doctors of Medicine.....	34
Masters of Applied Science.....	2
Bachelors of Civil Law.....	11
Bachelors of Arts, in Course.....	19
"    " <i>ad eundem</i> .....	1
Bachelors of Applied Science .....	7
	—
	74

The Gold Medal offered by Your Excellency for merit in an Honour Course in Modern Languages was not awarded; but the Silver Medal for the highest standing in the examination for the degree in Applied Science was gained by a deserving candidate.

The Elizabeth Torrance, Holmes, Chapman, Prince of Wales, Anne Molson, Logan, and Sutherland Gold Medals were awarded in the Faculties of Law, Medicine and Arts.

A Gold, a Silver, and a Bronze Medal, for Physical Culture, offered for competition by R. J. Wicksteed, LL.D., of Ottawa, were also awarded.

The income of the Hannah Willard Lyman Endowment Fund was, as usual, given in prizes for the examinations of the Ladies' Educational Association of Montreal.

At the close of the Session of the McGill Normal School, in July, the following diplomas were granted by the Hon. the Superintendent of Education:—

For Academies, University Graduates.....	5
"    "    Ordinary Diplomas.....	7
"    Model Schools .....	30
"    Elementary Schools.....	43
	—
	85

making a total of 1,668 diplomas given by the School since its commencement. The Silver Medal given by Your Excellency, the Prince of Wales' Bronze Medal and Prize, and the Charles Wilson Prize were awarded to deserving candidates.

With reference to the above statistics, it is deserving of notice that the number of students in the Faculties of Medicine and Arts is greater than in any previous Session, and also that there has been a considerable increase in the number of students in Morrin College, Quebec, and St. Francis College, Richmond. The former has six students in the Fourth Year, who may be expected to graduate at the end of the Session.

The office of President of the Board of Royal Institution and Chancellor of the University having become vacant by the lamented death of the late Honorable Charles D. Day, LL.D., to whom the University and the cause of education are under so deep obligations, the Honorable James Ferrier, Senator, the senior member of the Board of Governors, and the only surviving member of the original Board, was unanimously and cordially elected by his colleagues of the Board of Governors to fill these offices.

On the fourth of October, the Honorable Donald A. Smith, a gentleman whose interest in education and munificent gifts for its advancement and support are well known, was appointed a member of the Board of Governors.

The Principal returned in June to his duties in this country, and was in time to take part in the preparations for receiving the British Association, of which he had been appointed one of the Vice-Presidents. Before leaving Great Britain he appeared as our representative at the Tercentenary of his *alma mater* the University of Edinburgh, and received the degree of LL.D. from that University. The distinction which Her Majesty has been graciously pleased, through Your Excellency, to confer on him, is regarded by this University as an honour to itself and as a gratifying recognition of the claims of science and education.

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The meeting of the British Association for the Advancement of Science in Montreal, and in the rooms of this University and its affiliated Colleges, deserves special mention as an important event in the history of the University and of Canadian science. It is a source of congratulation that the eminent success of the meeting and the hospitality of the University have been recognized by the gift of a gold medal in the Faculty of Applied Science, as a permanent memorial of the occasion and an encouragement to the prosecution of scientific studies. The endowment of the medal has been subscribed by the members individually, but the Council of the Society has added to the value of the gift by providing the die as a donation from the Association itself. We quote here the resolutions on the subject proposed by the Council and passed by the General Committee:—

“During the Meeting of the British Association at Montreal, a proposal was made to commemorate the first visit of the British Association to the Dominion of Canada, and the reception at Montreal, by founding a Gold Medal in McGill University, as a permanent memorial of the Meeting.

“There are at present five Gold Medals in the Faculty of Arts of the McGill University. Two of the five are for Science subjects, but for the special Faculty of Applied Science there is only one Silver Medal.

“Although the final decision as to the details of the award would be left to the authorities of the University, it was suggested that the Medal should be given annually to the Graduating Class in the Faculty of Applied Science, any surplus income to be expended in prizes in that Faculty.

“In support of this proposal private subscriptions from Members and Associates at Montreal were paid or promised to the amount of nearly £500, and it is believed that many Members of the Association who were unable to attend the Meeting, or who had left Montreal before the close thereof, will be glad to contribute to the fund.

“The Council are of opinion that this commemoration of a Meeting which was held under such exceptional circumstances, and which proved so eminent a success, should not be wholly left to individual members to carry out, but should also bear the impress of being the act of the Association; they would therefore suggest to the General Committee that their sanction be given to the Council to obtain, at the expense of the Association, a die suitable to the

occasion, and that the General Treasurer of the Association take the necessary steps to receive the fund from the Treasurer of the Committee which was formed at Montreal, and transmit it in a suitable manner to the authorities of McGill College."

In connection with the visit of the Association, the Corporation of the University, following a custom observed in similar circumstances by Universities in Great Britain, granted the degree of Doctor of Laws to nineteen of the eminent gentlemen present on the occasion.

#### FACULTY OF LAW.

The capital of the endowment of the "Gale Chair" having been in part paid in, and the interest on the remainder guaranteed, the Board of Governors have appointed William H. Kerr, Q.C., D.C.L., the Dean of the Faculty of Law, to be the first Gale Professor.

The Corporation having been informed of a provision in the Provincial Act incorporating the Bar of this Province, which appeared to require, under certain circumstances, the submission of the Courses in Law of Universities to the regulation of the Provincial Government, it was thought necessary to call the attention of the members of the Government to the apparent conflict of the law with the chartered rights of the University, and with the guarantees given to Protestant Education at the time of Confederation, and it is hoped that due attention will be given to these representations.

#### FACULTY OF MEDICINE.

The appointment of Dr. Osler, so widely and favourably known in connection with his work as a professor and as an original investigator, to a chair in Philadelphia, while a well merited recognition of his reputation, deprives the Faculty of Medicine of his valuable services. In the meantime no appointment has been made to the vacant chair, but its duties are being efficiently discharged by Dr. Wilkins and Dr. J. Wesley Mills.

It is hoped that arrangements may be made to enlarge the building of this Faculty before next Session, and especially to provide increased laboratory accommodation.

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## FACULTY OF ARTS.

In this Faculty a subscription extending over five years, for the maintenance of the Chair of Botany, having been contributed by friends of the University, the Governors have been enabled to continue the valuable services of Professor Penhallow. An important addition to the staff of the Faculty has also been made by the appointment of J. Mason Mulgan, B.A. of Oxford, to the position of Assistant to the Professor of Classical Languages and Literature.

The die of the Hiram Mills Gold Medal has been executed by Wyon, of London, and it is expected that the medal will be offered for competition in the examinations of next session.

An important addition has been made to the work of this Faculty in the institution of a Special Course for Women, under the liberal endowment of the Honorable Donald A. Smith. The number of students entered is thirty in all, of whom fifteen are regular students preparing to go up for University examinations. The regulations for this special course at present extend only to the work of the First and Second Years of the Course in Arts, leading to the examinations for Senior Associate in Arts. They provide for separate lectures, but for identical courses of study and examinations. The standing of the Female Students in the Christmas Examinations has been very satisfactory, though from the shortness of the notice of the commencement of the lectures, no opportunity of previous preparation was given,—a circumstance which has no doubt also diminished the number of regular students.

The questions as to provision for women in the Third and Fourth Years, and as to the degree or certificate to be conferred on them in case of their proceeding to the final examinations, are still under discussion of the Faculty of Arts and the Corporation.

In more immediate relation to the work proper to the Faculty of Arts, we may remark that it is ground of satisfaction that in this Province a Confederation of Colleges in connection with this University has long been in operation,

on terms mutually advantageous to the University and to the Theological and Local Colleges affiliated with it; and that in our relation to the sister University of Bishop's College, we have already arrived at united action with respect to the Matriculation Examination in Arts and those for the Associate in Arts and Senior Associate, and that there would seem to be no serious obstacle in the way of establishing identical examinations for the degree.

The Faculty of Arts, owing to its larger classes and the probable requirements of the Classes for Women in the Third and Fourth Years, urgently requires a considerable extension and improvement of its class-rooms.

#### FACULTY OF APPLIED SCIENCE.

In the staff of this Faculty no change has occurred, and the number of its students is scarcely as large as last year. Its work and number of students would probably be increased by the institution of an additional Professorship of Mechanical Engineering, by the provision of a separate building for its use, and by the extension of its laboratories. A demand is also arising for the institution of a course of Electrical Engineering, for which the University already possesses a large proportion of the necessary means of instruction. In the meantime this Faculty is doing a useful work, more particularly in Civil and Mining Engineering and Practical Chemistry, and its number of students is encouraging.

#### NORMAL SCHOOL.

In the course of the year an exhaustive report was prepared by the Principal of the school as to the manner in which the teachers trained in it have fulfilled their obligations to teach. It was found possible to obtain exact information respecting 700 out of 1,099 persons educated in the school since its commencement in 1857. These have taught for an average of five and a half years each, and there is no reason to doubt that those not heard from have attained a similar average.

With reference to the last five years, it was found that 265 persons had received diplomas, and information was

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obtained respecting 238 of these. Of this number 196 are known to have been engaged in teaching and 158 are still employed. The total possible number of years of teaching of the whole number trained was 542 years, and the actual number of years ascertained was 443, or more than 80 per cent. These results are most satisfactory, and, taken in connection with the excellence of the training given, show how great the benefits of the school must have been.

With the view of enabling the Principal and Professors of the school to take part in Teachers' Institutes in the country, a regulation of the Protestant Committee of the Council of Public Instruction has authorised the shortening of the session of the school by one month.

Under the revised regulations of the Protestant Committee of the Council of Public Instruction respecting Academy Diplomas, and with the aid of the College classes for women, it is hoped that many of those who take the Academy Diploma of the Normal School will be enabled to pass the Intermediate Examination, and thus to attain to the second grade of Academy Diploma. By these means the standing and efficiency of the holders of the Academy Diploma will be advanced.

#### LIBRARY.

The Report of the Library Committee is appended. Among the matters to which it refers, special mention may be made of the following: (1) The catalogue of the 307 volumes of Tracts and Pamphlets relating to English History, presented by Mr. Peter Redpath, to whom the University is indebted for defraying the cost of this most important addition to the interest and accessibility of these invaluable documents. (2) The purchase of the Shakespeare collection of the late T. D. King, Esq., for the Library, by the Honorable D. A. Smith and Mr. W. C. McDonald, and the provision, by a subscription of friends of the University, of a suitable cabinet for containing this unique acquisition. (3) The presentation to the Library, through Your Excellency, of Her Majesty's recently published volume entitled "More Leaves from a Journal of Life in the

Highlands," bearing Her Majesty's signature. (4) Several considerable donations of books, more especially from Peter Redpath, Esq., Honorable Judge Mackay, the McGill College Book Club, Dr. T. Sterry Hunt and R. Forsyth, Esq. The Committee reports the total number of books as having reached 24,322 volumes.

#### PETER REDPATH MUSEUM.

The Museum Committee reports the continued and increasing usefulness of the building and its collections, and large additions to the former by donations and exchange, and by purchase with the donation of J. H. R. Molson, Esq., as well as constant progress in the arrangement, labelling and exhibition of the material possessed by the Museum. The number of visitors registered amounted to 2,120.

The classes in Natural History and Geology, a summer class in Botany, the new classes of the Special Course for Women, and one of the Courses of Lectures of the Ladies' Association, have been held in the building; and the Geological Section of the British Association was accommodated in its Lecture Theatre. Mr. Redpath continues his donation of \$1,000 toward Museum maintenance, and Mrs. J. H. R. Molson that for the salary of Mr. T. Currie as Assistant Curator.

#### OBSERVATORY.

The Report of Professor McLeod, the Superintendent of the University, is appended, and shows a continued and extending usefulness.

The Meteorological Observations have been continued, both in the direction of obtaining the laws of variation for the district, and in connection with the weather probabilities; and information has been regularly given to the public. One of Negretti & Zambra's Thermographs has been added to the apparatus. Improvements of various kinds have been made in the time service, and the work of fixing the longitude and latitude of the Observatory has been completed.

In view of the importance of the station, and of the work of the Observatory, the enlargement of its operations with-

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in the two past years, and the employment for some time of Mr. Chandler as Assistant, it seems proper to ask for larger public aid than heretofore, and a petition has been accordingly prepared and presented to the Honorable the Minister of Marine and Fisheries, asking for an increase of the Government Grant, which it is hoped may be favourably entertained.

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While the facts and statistics of the above Report afford much material for congratulation, as well as ground for the expression of gratitude to the friends of education and of thankfulness to God for the measure of success which has attended our efforts, we do not desire to conceal the drawbacks and disadvantages under which the higher education still labours. We must refer especially to the desirableness of increasing the number of instructors in certain directions, and of better remunerating those we have, and to the need of larger provision for scholarships and exhibitions, and of the institution of teaching fellowships, to the want of a college dining hall, and of additional class-rooms and laboratories. In these and other directions there is much to be done that cannot be accomplished with the present limited income of the University, diminished as it has been in recent years by the fall in the rate of interest on investments. But for the shrinkage of income produced by the cause last mentioned, the liberal benefactions received within the last three or four years would already have greatly advanced the position of the University, and would have relieved it from some at least of the disabilities now affecting its usefulness; but we may hope that the continuance of such liberality will ere long effect this most desirable result.

Signed on behalf of the corporation,

JAMES FERRIER,  
*Chancellor of the University.*

*STATEMENT of the RECEIPTS and EXPENDITURE of the  
from 1st July, 1883,*

**RECEIPTS.**

<b>GOVERNMENT GRANTS, &amp;c.:-</b>	
Provincial .....	\$ 2,500 00
Superior Education Fund.....	1,650 00
Dom. Government to Observatory, \$500; Observers, \$500.....	1,000 00
City of Montreal, to Observatory, \$150; Harb'r. Com'rs. do \$250	400 00
	\$ 5,550 00
<b>SCHOLASTIC FEES:-</b>	
Faculty of Arts, (Ordinary and Library).....	1,444 00
Faculty of Applied Science, (Ordinary and Library).....	2,985 20
Botany and Zoology Fees.....	250 00
Registration, Ordinary, \$248, Higher Degrees, \$8.....	256 00
School Examination Fees.....	199 00
Diploma Fees.....	438 00
Gymnasium Fees.....	302 50
	5,874 70
COLLEGE GROUNDS.....	172 00
<b>ANNUAL DONATIONS :-</b>	
Scholarships and Exhibitions.....	575 00
Medals and Prizes.....	327 73
	902 73
<b>SPECIAL DONATIONS :-</b>	
Current Expenses.....	5,325 00
Redpath Museum, Maintenance.....	1,000 00
Transit of Venus.....	40 00
	6,365 00
<b>INTEREST, &amp;c., FROM INVESTMENTS :-</b>	
Net Returns, including arrears from former years .....	31,599 66
SUNDRY PETTY RECEIPTS.....	61 37
	\$ 50,525 46
<b>RECEIPTS—SPECIAL FUNDS :-</b>	
New Engineering Apparatus.....	184 00
Molson Museum Maintenance.....	2,036 18
Chair of Botany, Maintenance.....	3,695 00
Special Donation, Museum.....	1,000 00
Leancoil and Campbell Fund—Interest.....	1,943 54
	8,858 72
<b>INVESTMENT ACCOUNT :-</b>	
Gale Chair, on account.....	8,333 33
Greenshields Chair, on account.....	26,666 66
Scott Chair, on account.....	27,738 19
Edward McKay Legacy.....	5,000 00
Leancoil Endowment.....	50,000 00
Campbell Memorial Fund, on account.....	28,556 04
New Endowment Fund, 1881, on account.....	1,000 00
	147,294 22
Investments repaid during year.....	50,356 00
SPECIAL SAVINGS BANK BALANCES on hand, 1st July, 1883 .....	3,543 10
GENERAL BANK BALANCE " ".....	5,619 74
	9,162 84
OVERDRAFT, Observatory Savings account, 30th June, 1884.....	67 66
	\$236,264 90

VERIFIED, A. H. PLIMSOLL, Auditor.

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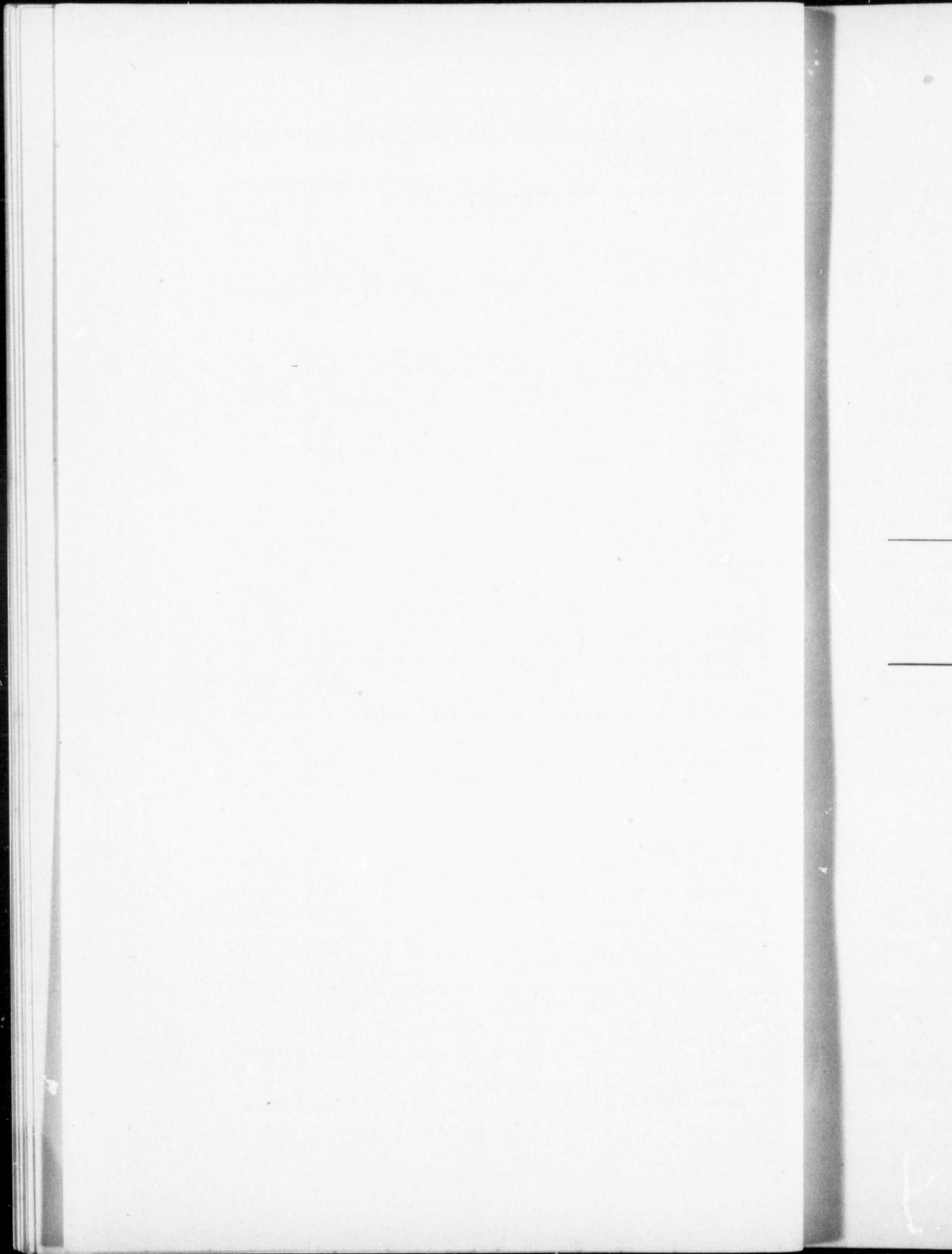
ROYAL INSTITUTION for the ADVANCEMENT of LEARNING,  
to 30th June, 1884.

EXPENDITURE.

	ADMINISTRATION:—		
	Salaries (Principal, Secretary and Clerk) . . . . .	\$ 3,900 00	
	Office Expenses . . . . .	245 99	
	Porters and Caretakers . . . . .	1,182 67	
			\$ 5,328 66
\$ 5,550 00	GENERAL EXPENSES:—		
	Fuel . . . . .	1,007 64	
	Printing, Advertising and Stationery . . . . .	1,168 74	
	Charges (Gibson and Mills Annuities, Insurance, &c) . . . . .	1,565 57	
	College Repairs, \$745 88; Grounds, Maintenance, \$409 96. . . . .	1,155 84	
	Law Charges, \$125 90; Sundries, \$10 50. . . . .	136 40	
			5,034 19
	EDUCATION:—		
	Faculty of Law . . . . .	1,381 11	
	Faculty of Arts . . . . .	20,638 34	
5,874 70	Faculty of Applied Science . . . . .	7,324 23	
172 00	Observatory . . . . .	1,524 20	
	Diplomas . . . . .	59 70	
	Nat. Phil. Class, \$27 32; Chemicals, \$28 44. . . . .	55 76	
	Gymnastic Instruction . . . . .	302 50	
	School Examinations . . . . .	289 20	
902 73			31,575 04
	SCHOLARSHIPS AND EXHIBITIONS . . . . .	2,221 74	
	MEDALS AND PRIZES . . . . .	741 00	
			2,962 74
6,365 00	LIBRARY—Maintenance, \$1,057 63; Books and Binding, \$640 50. . . . .		1,698 13
31,599 66	MUSEUM—Maintenance . . . . .		1,454 53
61 37	IMPROVEMENTS AND ADDITIONS—College Grounds . . . . .	167 55	
50,525 46	Fixtures and Furniture, \$320 90; Chem. Labor't'y, \$327 49. . . . .	648 39	
	Sundries . . . . .	100 98	
			916 92
	TOTAL ORDINARY EXPENDITURE . . . . .		\$ 48,970 21
	EXTRAORDINARY EXPENDITURE;—		
	College Buildings and Lodge—New Roofs . . . . .	2,207 20	
	Special Assessments—Sherbrooke St. Drain and Sidewalk . . . . .	1,235 20	
			3,442 40
8,858 72			\$52,412 64
	EXPENDITURE—SPECIAL FUNDS:—		
	Molson Museum Maintenance . . . . .	540 00	
	Special Donation, Museum . . . . .	801 64	
	Leachoil and Campbell Fund, Interest . . . . .	500 00	
			1,841 61
	INVESTMENT ACCOUNT:—		
	Invested during the year . . . . .	89,478 23	
17,294 22	Scott and Gale Chairs, Advances and Expenses . . . . .	777 62	
30,356 00			90,255 85
	SPECIAL SAVINGS BANK BALANCES on hand 30th June, 1884. . . . .	12,874 40	
	LEACHOIL AND CAMPBELL BANK BALANCE . . . . .	66,499 58	
9,162 84	GENERAL BANK BALANCE . . . . .	42,380 82	
67 66			121,754 80
6,264 90			\$266,264 90

MONTREAL, 2nd July, 1884.

W. C. BAYNES, *Bursar.*



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APPENDICES.

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*To the C*

GENTLEMEN

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REPORT OF THE LIBRARY COMMITTEE FOR THE  
YEAR 1884.

*To the Corporation of McGill University :*

GENTLEMEN :—

The Committee for the general management of the Library beg to submit the following as their Second Annual Report on the condition, etc., of the Library.

In the last Annual Report, reference was made to certain alterations and additions in the Library-chamber, which were found to be necessary in order to secure greater accommodation for readers and more shelf-room for books. Your Committee have to report, that the Board of Governors sanctioned the alterations, and provided the means for carrying them into effect, and they have been found to be a great improvement in every respect.

After so many years use, and exposure to the dryness of the atmosphere, the book-cases were found to be in need of certain repairs for their future preservation, and an application was made to the Governors for a grant wherewith to have these repairs made; and with the funds placed at their disposal by the Governors your Committee were enabled to have the work done.

Some progress has been made in binding books, but not to such an extent as the number remaining unbound renders desirable. This arises from the lack of funds at the disposal of the Governors for this among other things needing to be done. And in connection with these items of expenditure on the Library, it may not be out of place for your Committee to bear testimony to the willingness which the Governors uniformly manifest to make grants to the utmost of the means at their disposal for the carrying into effect of whatever tends to maintain or improve the condition of the Library.

During the meetings of the British Association, your Committee made it their special object to render the Library

as useful as possible, for purposes of reference, etc., to members of the Association; and, to this end, the hours during which it was kept open were extended, and additional assistance was procured by a special grant from the Board of Governors.

A very important and much-needed improvement has been made by the preparation and printing, in a handsome form, of a special Catalogue of the 307 vols. of very valuable Tracts and Pamphlets in the Redpath Collection, to which reference was made in the last Annual Report. For this service the University is indebted to Mr. Peter Redpath, the Donor of the Collection, who defrayed the entire cost of the preparation and printing of the Catalogue. Much credit is also due to Mr. Taylor, the Assistant Librarian, who was charged by Mr. Redpath with the preparation of the Catalogue, for the very careful and satisfactory manner in which he did his part of this important work.

And in this connection your Committee deem it expedient again to call attention to the matter of the continuation up to date of the *Catalogue of Authors*, the parts of which already published set forth the contents of the Library at the end of the year 1876. Although the Card-catalogue has been continued up to the present time and is of great service to readers, still it does not show to benefactors and others interested the contents of the Library, nor can it be for purposes of reference of such wide use as a printed Catalogue would be.

The past year has been noteworthy for several valuable donations of books, among which special mention must here be made of the *T. D. King Shakespeare Collection*. The late Mr. King was for some thirty years well known in this city as an enthusiastic admirer and student of Shakespeare, and as such he had gathered together a select but valuable Collection of Editions of the Poet, and of works illustrative of his writings. It was felt by some friends of the College that it would be a pity that such a Collection should be scattered abroad, by public sale or otherwise, and the Hon. D. A. Smith and Mr. W. C. McDonald came forward and purchased the whole Collection, amounting to 214 vols., for

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the Library of the College; and your Committee cannot do better than lay before you the letter in which their Chairman received intimation of the gift, and which he laid before them at their regular meeting on the 2nd ult.

" 59 VICTORIA STREET,  
MONTREAL, Nov. 27, 1884.

DEAR SIR WILLIAM :

I have great pleasure in handing you the Catalogue of the Shakespearian Collection of the late Thomas D. King, and informing you that through the liberality of the Hon. D. A. Smith and W. C. McDonald, Esq., the Collection is now the property of the College Library.

Both Mr. Smith and Mr. McDonald wish, as a condition of the gift, that Mrs. King's desire to have the books kept together and known as Mr. King's Collection should be gratified, and for this purpose Mr. Moyse and I will raise sufficient money to place them in the Library without expense to the College.

I am, dear Sir William,

Yours very sincerely,

WILLIAM McLENNAN."

Whereupon your Committee resolved :—

That the above letter be referred to Corporation, with the recommendation that this donation of Messrs. Smith and McDonald be gratefully accepted, and on the condition set forth in Mr. McLennan's letter. They further recommend, that the special thanks of the Corporation be tendered to Messrs. Smith and McDonald for this timely and valuable gift to the Library.

A Sub-committee of your Committee was appointed to co-operate with Mr. McLennan and Prof. Moyse in transferring the books to the Library and in procuring a suitable cabinet for holding them. The books are now in the Library and are being entered in the Catalogue, whilst the cabinet is being made from designs approved by Messrs. McLennan and Moyse and the Sub-committee, and will be placed in the Library without cost to the College. Your Committee recommend that the valuable assistance which Messrs. Moyse and McLennan have rendered in this matter should be recognised by vote of thanks by the Corporation.

Among the other donations specially to be noted are :—

(1) A copy of Her Majesty's recently published volume,

entitled "More Leaves from the Journal of a Life in the Highlands from 1862 to 1882," and bearing Her Majesty's signature, with an intimation that it was her desire that this book be placed in the Library of McGill University as an evidence of her interest in that Institution, and of her belief that the record will not fail to be appreciated by her subjects in this Dominion. (2) Ninety-seven vols. from Mr. Peter Redpath, to be added to the Redpath Collection. (3) One hundred vols. on Historical and other subjects, from the Hon. Judge Mackay, collected by him during his recent visit to Europe, and some of them of great rarity; these are added to the former donation of Judge Mackay. (4) Ninety-nine vols. on miscellaneous subjects, from the McGill College Book Club. (5) Two hundred and one vols. from Dr. Sterry Hunt. (6) Fifty vols. Engineering works from Mr. R. Forsyth. (7) Eighteen vols., Scientific and Educational, from Principal Sir William Dawson; and (8) Fifty-four vols. Parliamentary Proceedings from Hon. Jonathan S. T. Wurtele.

Owing to the lack of adequate funds no additions of importance have been made in the Department of Classical Literature, Philology and Archæology since the generous gift of Mr. Alexander in 1869. New editions or new works in these subjects are constantly appearing; and it is greatly to be desired, in order to keep the Library abreast of the times, that some of them, at least, should have a place on our shelves.

Your Committee think that in view of the valuable donations that have, up to the present time, and from year to year, been made to the Library, the generosity of the Donors should have a more conspicuous recognition than can be given in the pages of an Annual Report.

They, therefore, recommend that tablets, bearing the names of Benefactors to the Library, be placed in an appropriate position, within or outside the Library-chamber.

Herewith is presented a Conspectus of the growth and use of the Library during the year now closed and reported on, which shows an increase for 1884 of 1,781 vols., bring-

ing the total number of vols. now in the Library up to 24,322. This annual increase is very gratifying, but it will ere long force attention to the question of providing additional room for the purposes of the Library.

All which is respectfully submitted by your Committee.  
On behalf of the Committee,

GEORGE CORNISH, LL.D.,  
*Honorary Librarian.*

MCGILL COLLEGE,  
January 20th, 1885.

CONSPECTUS OF LIBRARY FOR 1884.

<i>Quarters ending.</i>	<i>Readers.</i>	<i>Visitors.</i>	<i>Books read.</i>	<i>Books lent.</i>	<i>Total vols.</i>
(1884.)					
April 21....	1223	98	881	858	23,134
June 24....	176	36	137	591	23,181
Oct. 21....	310	515	215	620	24,038
(1885.)					
Jany. 20....	724	24	562	1073	24,322
	2433	673	1795	3142	

Number of Vols. January 23rd, 1884..... 22,541

Increase in 1884—Vols..... 1,781

REPORT OF THE MUSEUM COMMITTEE FOR THE  
YEAR 1884.

*To the Corporation of McGill University:*

GENTLEMEN,—

Your Committee have pleasure in reporting the continued usefulness and improvement of the Peter Redpath Museum.

The collections in Geology and Zoology purchased with the donation of \$1,000 contributed by J. H. R. Molson, Esq., and which were chiefly procured from Dr. Krantz, of Bonn, Dr. Dohrn, of Naples, Mr. Damon, of Weymouth, Mr. Charlesworth, of London, and Messrs. Moore, of Liverpool, were sent out early in the summer, along with other collections made by the Principal, or procured by him as donations or in exchange, and were for the most part labelled and arranged in the cases before the meeting of the British Association. The effect of these collections is to supply several important defects, and to render the Museum more complete for purposes of study and instruction.

In the course of the autumn, collections of duplicates in exchange for these donations were put up and forwarded to the British Museum, the Free Museum of Liverpool, the Royal Museum of Göttingen, and to several private collectors. A considerable quantity of duplicate fossils have also been arranged in drawers ready for similar exchanges.

In this work the services of Mr. T. Currie, kindly continued by the liberality of Mrs. J. H. R. Molson, have been of the greatest value.

In the department of Mineralogy and Lithology, a few additions have been made by purchase from Dr. Krantz and Mr. Damon, and several valuable donations have been received, more especially from Dr. Johnson Lavis, of Naples, from the Geological Survey, and from Dr. Girdwood.

Additional cases are now required in order to enable Dr. Harrington more fully to display and use these acquisitions.

Professor Penhallow has proceeded with the arrangement of the collection of plants, and has filled the large cabinet procured last year with the general herbarium. Another similar cabinet is now needed, more especially as it is likely that the herbarium will increase more rapidly than heretofore by exchanges. Much progress has also been made in arranging the collection of economic and physiological specimens, to which several valuable additions have recently been made.

In the past spring a practical class in Botany was carried on by Professor Penhallow, and a class in Zoology in connection with the Ladies' Educational Association is now in progress. The Museum has also been able, without inconvenience to the ordinary classes in Geology and Natural History, to accommodate the classes of the new Special Course for Women.

Your Committee had the pleasure of giving the use of the Museum Theatre and adjoining rooms to the Geological Section of the British Association during its recent meeting; and the Hall of the Museum was used for the reception given to the Association by the University, and in which we were honored with the presence of His Excellency the Governor-General and Lady Lansdowne, as well as with that of many other distinguished guests. During the meeting of the Association, the Museum was open daily to the members, and was visited by many of them, who expressed themselves as much pleased with the extent and arrangement of the collections and the plan of the building. Several of the members also spent considerable time in the Museum in the study of specialties in which they are interested.

The total number of visitors who have registered their names during the past year is 2,120.

Your Committee are indebted to Mr. Peter Redpath for the continuation of his gift of \$1,000 per annum for Museum maintenance.

On behalf of the Committee,

B. J. HARRINGTON, B.A., PH.D., F.G.S.

*January 28, 1885.*

## PRINCIPAL DONATIONS TO THE MUSEUM.

- From Mr. Thomas Watson, Little Rideau—Specimen of *Ruschnites*.
- “ Charles Gibb, B.A.—Specimens of *Echinus* and *Siderastrea*, West Indies.
- “ F. Hague, B.C.L.—Two mounted specimens of Plover and of Bittern.
- “ Mr. J. Hoyes Panton, Winnipeg—Collection of Fossils from Manitoba and North-West Territory.
- “ Mr. A. E. Barlow, Ottawa—Specimen of Jasper from Hull.
- “ The Right Reverend the Bishop of Huron—Large specimen of Amethyst and Fluor Spar, Thunder Bay.
- “ Mr. J. F. Nelles, Ottawa—Specimen of Apatite from Wakefield.
- “ Mr. James Crossley—Specimen of Samarskite, Berthier.
- “ Dr. Selwyn, F.R.S.—105 specimens Rocks from Eastern Townships.
- “ Mr. Charles Robb—Crystal of Phlogopite from N. Burgess.
- “ Col. Grant, Hamilton, Ont.—Fossils from the Clinton Formation, Hamilton.
- “ Prof. Boyd Dawkins, F.R.S., Manchester—Collection from Cresswell Caves.
- “ Prof. T. Rupert Jones, F.R.S., London—Collection of Fossils from South Africa.
- “ Prof. Renault, Paris—Fossil Plants from St. Etienne coalfield.
- “ Trustees of British Museum—Casts of Mesozoic Fossils.
- “ Prof. Van Koenen, Göttingen—Permian Fossils from Germany.
- “ Mr. R. Bell, London—Carboniferous and Cretaceous Fossils.
- “ Dr. John Evans, F.R.S.—Collection of Flint Implements.
- “ Mr. W. S. M. d'Urban, Exeter, England—Collection of Palaeolithic Implements.
- “ Mr. J. H. Thomas, Cardiff, England—Two casts Fossil Footprints.
- “ Trustees Free Museum, Liverpool, England—Skeleton of Gorilla.
- “ Dr. W. B. Carpenter, F.R.S., London—Specimens of *Orbitolites*.
- “ Mr. John E. H. Peyton, F.G.S.—Specimens of Wealden Fossils from England.
- “ Mr. J. K. Byrom, Manchester—Specimen of Fossil *Nelumbium* from Saskatchewan River.
- “ Geological Survey of Canada—Collection of Minerals.
- “ Mr. George Jammé, Londonderry, N.S.—Collection of Iron Ores.
- “ Mr. W. Drysdale—Specimen of *Clupea alta*, Utah.

- From Mr. F. W. Blacklock—Specimen of Lamprey.
- “ Charles Gibb, B.A., Abbottsford — Specimens Canadian Woods, also specimens illustrating Diseases of Plants.
  - “ Mr. Henry Brooks, Boston—Sections of Woods.
  - “ Prof. Penhallow—Collection of Plants from Northern Japan; specimens Japanese Paper.
  - “ Dr. G. M. Dawson, F.G.S.—Specimen of Sodalite from the Rocky Mountains.
  - “ Mr. Thomas Currie—Crystal of Apatite.
  - “ Mr. Dickson Anderson—Two species of West Indian Snakes.
  - “ Mr. W. A. Oswald, Bellerivière — Specimen of Natural Grafting.
  - “ Dr. Chas. Mohr, of Mobile, Ala.—Collection of Woods from Gulf States.

REPORT OF THE SUPERINTENDENT OF THE  
OBSERVATORY FOR THE YEAR ENDING  
DECEMBER 31st, 1884.

*To the Corporation of McGill University :*

GENTLEMEN,—

I have the honour to report on the work of the Observatory for the year now closed:—

The base or chief station series of Meteorological Observations has been carried forward without interruption throughout the year. The object of these observations is to deduce the laws of diurnal and annual variation of the meteorological elements for this district. The telegraphic observations, forming a part of the Canadian series of observations upon which the weather predictions are based, have been regularly despatched, each day, to the Meteorological Office at Toronto. The temperature observations have been greatly improved, this year, by the addition of one of Negretti & Zambra's thermographs, to our apparatus. The instrument was furnished by the Meteorological Office. It contains six thermometers, which are at present arranged as a bi-hourly series.

Summaries of the meteorological results for each month and for the year have been published.

The time service has received the usual careful attention. Determinations of clock errors have been made on 130 nights during the year. An observation for clock error comprises the measurement of the collimation of the transit, the inclination of the axis, and the observation of at least six stars—one polar star and one low-south star, from the combination of which the azimuth is deduced; and four time stars distributed as symmetrically as possible with reference to the zenith. From these observations the error of the time-piece employed is computed, and from comparisons with the standard clock made before and after the observations, its error is deduced, and if necessary a correction

applied to its rate. The Observatory time signals have been distributed as described in my report for last year. The time ball service has been improved by the erection of a new line of covered or insulated wire between the Observatory and the ball. All the time signals have been on the standard of the 75th meridian since Nov. 18th, 1883, when, in consonance with the railroad companies, and at my suggestion, the change was authorised for Montreal by the Mayor and Corporation of the city.

It is a matter of congratulation that the International Conference for fixing upon a meridian to be employed as a common zero of longitude for the world, which met at Washington in October last, has, by an almost unanimous vote, adopted the meridian of the transit instrument at Greenwich. It may also be proper to mention here, that incidental to an agreement that there should be a universal time reckoning, the origin of the day being the midnight of the initial meridian, the Conference recommended that the hours should be counted from zero to 24. This method for reckoning time, both for civil and astronomical purposes, will be adopted in the Greenwich Observatory on January 1st, 1885. I believe that the railroad companies of this continent will also shortly adopt it, and thus entirely remove the possibility of mistaking an afternoon for a forenoon hour, or *vice versa*. The new method of counting the hours is to be adopted in our work here from this date.

The reductions of the observations for the determination of difference of longitude between this Observatory and the Harvard College Observatory have been completed in so far as my observations are concerned. Owing to the unusual pressure of work, Professor Rogers has not been able finally to complete his reductions, but from the preliminary results which he has obtained I feel justified in stating that the resulting longitude of our transit instrument will be within two-tenths of a second of 4 hours, 54 minutes, 18.5 seconds west of Greenwich. The reductions of the observations made by me for the difference of longitude between Montreal and Toronto, and also those made by Mr. G. H. Chandler, M.A., and myself, between

Toronto and Cobourg, have been completed, and the final report only awaits the result of Mr. Carpmael's work. The difference of longitude between the Observatory at Toronto and the dome of the Faraday Hall at Victoria College, Cobourg, is 4 minutes, 55.2 seconds.

The latitude of the dome of this Observatory, as determined from a trigonometrical connection with the U. S. Coast Survey station on Mount Royal, is  $45^{\circ}, 30', 17''.0$ . The reduction to geocentric latitude is,  $11', 30''.58$ .

Our co-operation has been promised in a system of seismographic observations recently proposed by "*Science*."

I have the pleasure of acknowledging that the Observatory has been presented with a set of the Celestial Charts made at the Litchfield Observatory by Professor C. H. F. Peters.

The work of the Observatory has now reached such a point as to demand additional instrumental equipment and increased assistance. To meet these wants the Governors of the University made application to the Minister of Marine in February last for an increase in the Government grant. This application was unfortunately not successful, but I have reason to hope that a renewal of the application this year would meet with more success.

C. H. McLEOD, MA. E.,  
*Superintendent of the Observatory.*

MCGILL COLLEGE,  
Dec. 31st, 1884.

