

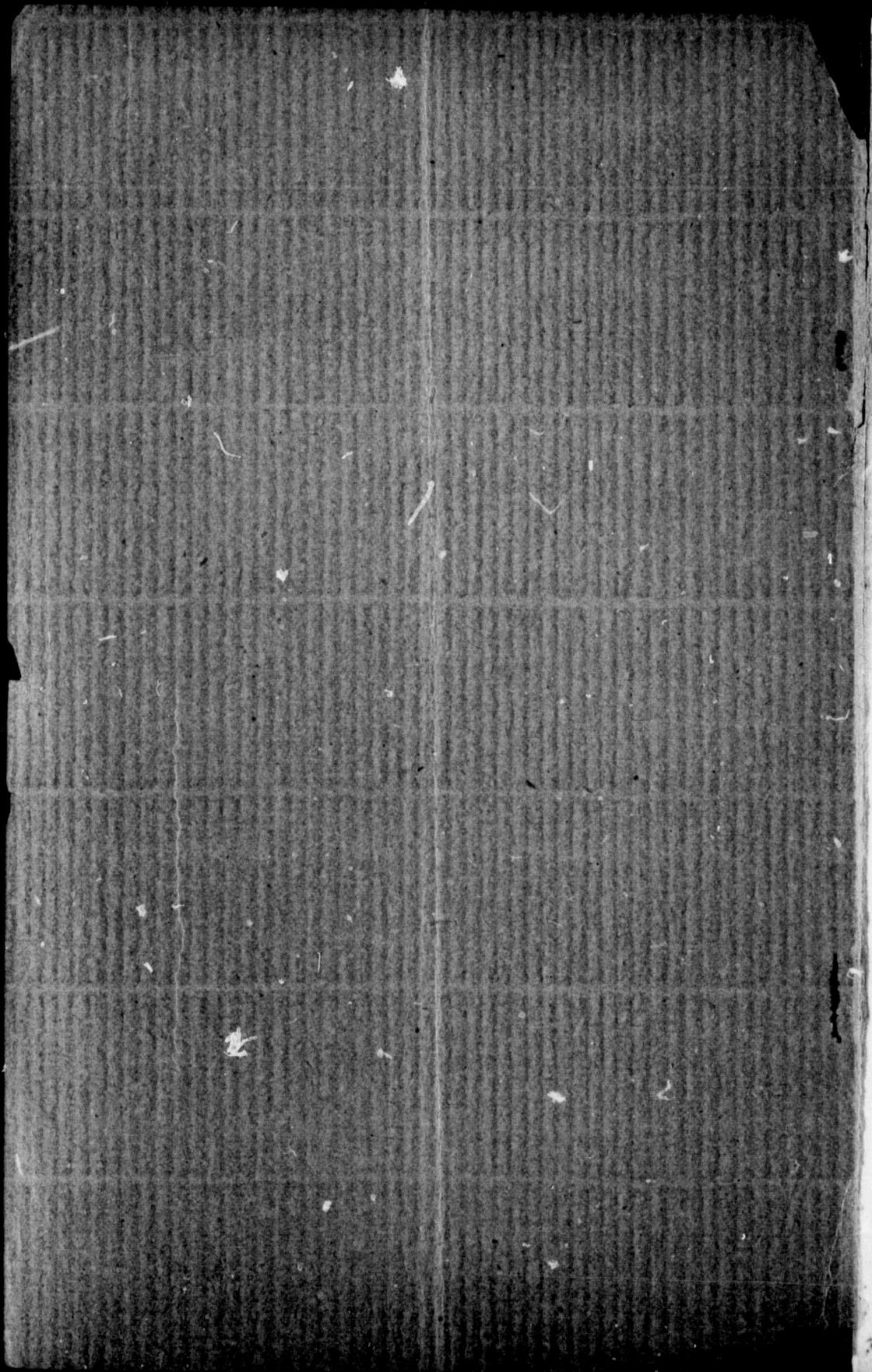
Robert Bell

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**ANNUAL REPORT**  
OF THE  
**GOVERNORS, PRINCIPAL AND FELLOWS**  
OF  
**MCGILL UNIVERSITY,**  
**MONTREAL,**  
For the Year 1893.

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Visitor of the University.)*

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*To His Excellency the Right Honourable the Earl of Aberdeen,  
Governor-General of Canada.*

MAY IT PLEASE YOUR EXCELLENCY :—

We beg leave respectfully to submit to Your Excellency, as Visitor of the University under its Royal Charter, the following report of its history and progress in the educational year ending December 31, 1893.

We have had in the last year to lament the removal by death of two of the Governors of the College, men eminent by the position which they held in the Dominion, and distinguished by their public services, the Hon. Sir Alexander Galt, G.C.M.G., LL.D., and the Hon. Sir J. J. C. Abbott, D.C.L., Q.C.

Of the public career of Sir Alexander Galt, it is unnecessary to give any account here. It is part of the history of the country. The University, no less than the Dominion, sustains a heavy loss by his decease. He was for twenty years one of the Governors. The varied

excellencies of his character, both in public and in private life, won for him the esteem and respect of all classes of the community, of which he was so conspicuous a member.

The public career of Sir J. J. C. Abbott and his position as Prime Minister of the Dominion are so well known that it is not necessary to do more than refer to them. It is fitting, however, to draw attention to the close and long continuance of his connection with the University. He was one of the earliest of its Graduates in Law, subsequently Dean of the Faculty of Law, and afterwards, for over thirteen years, a member of the Board of Governors. He was ever ready by his active co-operation and influence to promote the interests of the University, and his memory will be cherished by its friends.

We have also to mourn the death of the Hon. Rodolphe G. Laflamme, Q.C., D.C.L., Emeritus Professor in the Faculty of Law. The University unites with his colleagues in bearing testimony to his profound scholarship and extensive experience, to his uniform kindness of demeanour towards all who came in contact with him in the Faculty, whether Professors or students, and to the valuable services which he rendered to the cause of legal education.

#### NEW APPOINTMENTS.

Dr. James Stewart, Professor of Clinical Medicine, has been made Professor of Medicine and Clinical Medicine.

Dr. James Bell, Assistant-Professor of Surgery and Clinical Surgery.

Dr. George W. Major, B.A., Professor of Laryngology.

Dr. George Armstrong, Lecturer in Surgery.

Dr. F. G. Finley and Dr. H. A. Lafleur, B.A., Lecturers in Medicine and Clinical Medicine.

Dr. T. Johnson Alloway, Lecturer in Gynæcology.

Dr. T. J. W. Burgess, Lecturer on Mental Diseases.

Dr. H. S. Birkett, Lecturer on Laryngology.

In the Faculty of Arts, Frank D. Adams, M.Ap.Sc., Ph.D. (Heidelberg), has been appointed to the Logan Chair of Geology left vacant by the resignation of Sir Wm. Dawson.

By the creation of a new Chair of Physics, on the endowment of Mr. W. C. McDonald, to which Mr. H. L. Callendar, M.A., late Fellow of Trinity College, Cambridge, has been appointed, it has been possible at length to separate the Chairs of Mathematics and Natural Philosophy; Dr. Johnson, who has so long discharged the duties of both, being appointed to the former, and the duties of the latter being transferred to Prof. Cox, the change being indicated by the omission of the word "Experimental" in the title of his Chair, which is now that of McDonald Professorship of Physics, as is also that of Professor Callendar. The endowment of the Peter Redpath Chair of Natural Philosophy has, with the consent of the founder, been transferred to the Chair of Mathematics, which is to be entitled the Peter Redpath Chair of Pure Mathematics.

In the Faculty of Applied Science, Mr. Harry Bamford, M.Sc., has been appointed as Associate Professor of Hydraulics.

An additional lecturer and two assistants have also been appointed in the same Faculty.

#### UNIVERSITY BUILDINGS.

To estimate aright the rapidity of the recent advance of the University, it may be well to remember that, after about seventy years of existence, the greater part of its work was done in three large buildings on the College grounds, viz., the Centre Building, the Medical

Building, and the Peter Redpath Museum ; and that within the past year the number of large buildings has been actually doubled by the presentation to the University and the official opening of the McDonald Engineering Building, with which is connected the Workman Building, of the McDonald Physics Building, and of the new Library erected by Mr. Peter Redpath. Of these, the two former were opened by Your Excellency's predecessor, the Earl of Derby, on February 24th, 1893, on which occasion it could not but be gratifying to hear the testimony to their value generously given by the scientific men present from the United States, and to the candid expression of their wish to have buildings equally well fitted for their respective purposes in their own country.

The new Library, which was opened by Your Excellency on October 31st last, has since been found by experience to fulfil all the expectations which were expressed concerning it. The advantages of the stack-room arrangement, and the beauty and comfort of the general reading-room are deserving of special notice.

The extension of the Medical Building, whether effected or in progress, is referred to elsewhere.

#### NEW ENDOWMENTS AND DONATIONS.

Great as were the gifts reported under this head last year, they are even greater this year, the Medical Faculty on this occasion receiving the bulk of them.

The Hon. Sir Donald A. Smith has given the sum of \$100,000, to endow the chairs of Pathology and of Hygiene in the Medical Faculty.

To the same Faculty Mr. J. H. R. Molson has given the sum of \$60,000, viz., \$25,000 for the purchase of land, and \$35,000 for building and equipment.

A bequest of \$10,000 to the Medical Faculty by the late Mrs. Dow, reduced by the legacy duty to \$9,000, has been received by the College.

Mrs. John McDougall has made a donation of \$500 towards the endowment of a Dr. R. Craik Fund in the Medical Faculty, the interest to be devoted to the current expenses of the Faculty.

An anonymous donor has given \$500 to the same Faculty towards the current expenses of Pathology.

For the endowment of a second Chair of Physics, the sum of \$50,000 has been given by Mr. W. C. McDonald.

Mr. Peter Redpath has added to the provision which was reported last year as made by him for the maintenance of the Library, by raising it from \$4,000 to \$5,000 a year. Mr. Redpath has also given his annual subscription of \$1,000 for the maintenance of the Peter Redpath Museum.

The Hon. Sir Donald A. Smith has again renewed his donation of \$4,000 for the payment of sessional lecturers.

Mr. Charles Alexander has presented \$2,000 for the permanent endowment of the Scholarship which for many years past has been given regularly by him for the encouragement of the study of classics and other subjects.

The cost of the erection of a new plant house in the Botanic Garden, viz., \$1,084.53, has been defrayed jointly by Sir Donald Smith, Mr. J. H. R. Molson, and Mr. W. C. McDonald.

Mrs. J. H. R. Molson has continued the payment of \$1,000 for a Sessional Lecturer in the Faculty of Arts.

Your Excellency has been pleased to announce that you will offer a Gold Medal and a Silver Medal for the encouragement of studies in the Faculties of Arts and Applied Science respectively.

Mr. George Hague has continued the exhibition of \$125, offered regularly for many years in his name, in the Faculty of Arts.

A lady has given \$120 for four bursaries, to be awarded to students in the Faculty of Arts.

Subscriptions, amounting to \$750 and \$145, respectively, have been paid for the commencement of a Library Fund and for prizes in the Faculty of Applied Science, the interest only, in the case of the Library Fund, to be available for the purchase of books.

#### THE PAST AND PRESENT SESSION.

In the meetings of Convocation, at the close of last session, the following Degrees in Course were conferred :

Law, B.C.L. ....	10
Medicine.....	45
Arts, B.A., (13 women).....	42
“ M.A.....	4
Applied Science, B.A.Sc.....	18
“ “ M.A.Sc.....	1
“ “ M.E.....	1
Veterinary Science.....	15
	136

The Rev. Cameron Waller, B.A., Cantab., was admitted “ad eundem gradum.”

The Honorary Degree of LL.D. was conferred on Professor Bovey, M.A., Cantab.

Ten Gold Medals were awarded to successful candidates, besides the Wicksteed Medals for Physical Culture, and the Stanley Silver Medal in Applied Science.

In the classes of the Normal School, 83 Diplomas were granted by the Superintendent of Public Instruction; namely, 4 for Academies (issued to Graduates in Arts of the University), 28 for Model Schools, and 51

for Elementary Schools. The total number of persons who have received diplomas in the Normal School since its establishment in 1857 is 1,668. The number of diplomas issued has been 2,342, some individuals having taken more than one diploma.

In the June Examinations for the title of Associate in Arts, held this year at 46 centres, 388 candidates presented themselves, of whom, however, 124 came up for preliminary subjects only; 113 candidates completed successfully the examinations for Associate in Arts. Many of these candidates fulfilled the requirements for matriculation, and, in addition, 80 candidates were examined for matriculation only. The total number of candidates thus qualified for entrance was 101; viz., 80 for Arts or Medicine, and 21 for Applied Science.

In the past session 97 partial "exemptions from fees" were given to students, in some cases in competition, in others as Benefactors' Scholarships and as aids to Theological Colleges. These have been given principally to students from the country.

At the September Entrance Examinations in Arts, 3 Scholarships, 8 Exhibitions and 3 Bursaries were awarded, varying in value from \$125 to \$100 for the two former, and half this amount for the Bursaries. They are the gifts of Sir Donald A. Smith, Mr. W. C. McDonald, Mr. Hague, the late Major Mills, and Mrs. Jane Redpath.

In Applied Science, the British Association Prizes, the Exhibition of \$50, and the Scott Exhibition of \$60, and 13 other prizes were awarded.



## FACULTY OF LAW.

It is gratifying to note that of the ten students who obtained the degree of B.C.L. last April, one-half were graduates in Arts, though not all of this University. The Faculty at the time spoke in terms of high praise of their attainments in law.

There has been an increase in the number of students this year.

Five are Graduates in Law attending Lectures.

## FACULTY OF MEDICINE.

The number of students in this Faculty shows a considerable increase, being 349, against 312 last year.

The Faculty has been very fortunate financially during the year, having received about \$170,000 in new endowments, the details of which will be found under the proper heading.

Alterations in and proposed additions to the buildings are as follow :

The substantial stone house close to the Faculty Building, which has been lately purchased, has been converted into a commodious and very complete Pathological Laboratory.

Plans for the erection of an extension of the present buildings, to give additional room for the increasing number of students, have been approved by the Faculty and will be immediately submitted to the Board of Governors for their sanction. It is intended to carry out this extension without delay.

## FACULTY OF ARTS.

In reporting the numbers in attendance on the lectures of this Faculty for the present year, it seems advisable to change the order in which they have been

usually presented, and to put in the foreground the total, including those from the Professional Faculties. This total amounts to 599, or, in round numbers, to 600; showing an increase over the number given in last year's report; due, however, to the increase in the Professional Faculties. The special reason for giving prominence to it is the pressure in some instances on the class-room accommodation due to the increase. The inconvenience to professors and students arising from this cause, which was adverted to last year, has become intensified. A remedy is very much needed. Owing to the removal of the Library and of the classes in Applied Science, there is probably space enough within the walls, but some re-arrangement of the division into rooms is desirable.

A point deserving of no less attention is the fact that while three of the Professional Faculties have increased in numbers from 8 to 12 per cent., the number in this, the University or Academic Faculty, belonging to the Faculty only, has not increased. It is stationary, being almost exactly the same as last year, but this is very close to the highest ever attained.

It is gratifying to observe the number of graduates (22) who continue their studies in the Faculty.

The number of students in the Donalda Department last year was greater than that given in any previous report, and this maximum has been maintained for the present year.

The scantiness of the funds at the disposal of the Faculty for the purchase of books necessary for the professors in the discharge of their duties has been very much felt. It is to be hoped now, after the opening of the noble Library Building presented to the University by the munificence of Mr. Peter Redpath, that this want will soon disappear.

As a matter of record it may be well to add that a reduced scale of fees, applicable to all the students in the Faculty, came into operation in September, 1893.

#### FACULTY OF APPLIED SCIENCE.

There has been an increase in the number of students in this Faculty, from 165 for last year to 186 for the present, of whom five are taking graduate courses.

There has also been a large addition to the teaching staff, of which particulars are given under the head of "New Appointments."

Important additions have been made to the equipment and to the collection of books devoted to the special work of the Faculty.

The leading event of the year in the Faculty has, of course, been the opening of the McDonald Engineering Building, on February 24th, 1893.

#### SUMMARY OF PROGRESS DURING THE PAST YEAR.

The following is a summary of the progress during the past year, as detailed above :—

The chief *buildings* of the University have been doubled in number and extent by the formal presentation and opening of the Engineering and Physics Buildings, and the new Library.

The new *endowments* and *donations* have in round numbers amounted to about \$230,000, of which \$162,000 will produce additional permanent income, \$60,000 have been for land and buildings, and \$8,000 for current expenditure.

Three new *Professorships* have been endowed.

The staff of *Professors and Lecturers*, including sessional lecturers and assistants, has been increased by five, the total being now 77. The Library staff has been raised from two to seven.

The increase in the total number of students in all the Faculties, which is now nearly 1,000, exclusive of Affiliated Colleges and the Normal School, is between 7 and 8 per cent. The total is the largest ever attained.

The number of hours during which the Library is open daily has been raised from 7 to 11.

#### WANTS OF THE UNIVERSITY.—DIRECTIONS OF FUTURE PROGRESS.

Under this heading it is necessary to begin by repeating the statement of last year's report, that the income of the College does not meet its expenses. The deficit for the year just past has been about \$7,000.

When the actual condition of a growing University in such a stage of development as ours is fully known, the lines along which further advance ought to be made are best ascertained by comparison with older and larger Universities of high reputation, and an examination of the methods by which they have attained success.

Now a reference to the reports of previous years will show that attention has been strongly drawn to the pressing needs of the Faculty of Arts—on whose reputation that of the University so largely depends. The statements in this respect previously made, may be emphasized in this report.

A study of the methods by which in other Universities the Faculty of Arts has attained great success shows that they are practically the same everywhere. After the experience of centuries, not much novelty is to be expected. Briefly stated, they consist in adequate provision for teaching, and adequate aids and incentives to students, for both which, but especially the latter, it is desirable that this University should be more liberally furnished. In the words of last year's report, "more Professors are wanted ; more Lecturers and Assistants are wanted." If a Professor has time at his disposal,

the necessity for books, as well as apparatus, becomes more urgent, and books are much wanted at the present moment in the Faculty of Arts. Larger lecture-rooms and better general accommodation are also required.

Remembering that the higher education of those who will be leaders of thought and <sup>who will</sup> most influence the destinies of the country, is of more importance to the country at large than it is to the individual student, a strong reason is presented for removing difficulties in the way of those who seek a University education. To this end Bursaries, Exhibitions, Scholarships and Prizes are most valuable, and of these the Faculty has far too few. They will be of especial value if they induce those who are now hastening through the Professional Faculties to take a previous training in Arts. Many could spare the additional years required for this who cannot afford the expense. Scholarships for Graduates in Arts, who study in the Professional Faculties, would be of great value in such cases.

For the comfort and convenience of students, and the satisfaction of parents who send their sons from a distance to the city, a College Boarding House and Dining Hall are desirable. Other wants are a large Convocation and Examination Hall, as well as rooms for University offices and for meetings of Boards and Committees.

In the reports of the two previous years, attention has been drawn to the "very imperfect accommodation at present possessed by the Faculty of Veterinary Science and Comparative Medicine." The condition is still the same.

#### AFFILIATED COLLEGES.

The four Theological Colleges, which are independent of the University, yet connected with it by affiliation, are educationally closely associated in consequence of

the number of their students who attend the classes. Their welfare is thus a matter of interest to the University, and it is therefore satisfactory to find that the number of students belonging to them is as large as, if not larger than last year, when it was reported as about 200.

Morrin College, Quebec, which is affiliated in Arts, has five lecturers, who lecture on Classics, English, French, Hebrew, Mathematics, Natural Philosophy, Chemistry, Logic, Moral Philosophy and History.

St. Francis College, Richmond, P.Q., which is affiliated as far as the first two years in Arts, reports an attendance of 19 students. It has four lecturers.

Stanstead Wesleyan College, affiliated as far as the first two years, reports an attendance of 14 students, 11 of whom are undergraduates.

#### NORMAL SCHOOL.

The Normal School reports that while good work has been done and the number of pupils has increased from 116 to 136, yet the year may be described otherwise as uneventful. The Model Schools connected with it have 392 pupils.

#### UNIVERSITY EXTENSION.

It may be well to state again that the object of the University Extension movement is to bring the teaching of the Universities, as far as possible, within the reach of those who cannot themselves pursue regular University studies.

A general association for the whole Dominion, with this object, was formed in Toronto two years ago, at which it was agreed that the work should be divided by Provinces, the Universities of each Province acting together, their representatives on the Council of the Association forming a Sub-Committee for the purpose

of united action. At a meeting of the Sub-Committee for the Province of Quebec, it was agreed that McGill College and Bishop's College should act together for the English-speaking element, while Laval would perform the same office for the French-speaking element.

The details of the scheme, under the joint Board of Representatives of McGill University and the University of Bishop's College, are given in the Calendar for the present session, pages 250-252.

#### THE GYMNASIUM.

Dr. R. Tait Mackenzie reports that the progress made during the year has been more satisfactory than ever before, and that the number in attendance has been larger, viz., 116 as against 106. Of these, 63 were from the Faculty of Arts, 44 Applied Science, and 9 Medicine. New apparatus, for which a special grant of money was made, will be of great value in correcting physical defects.

The heating arrangements are said to need improvement.

The number of Donalda students who take advantage of the training under Miss Barnjum is 15.

#### SIR WILLIAM DAWSON.

The most memorable event of the year, if not in the history of the University, is the resignation of the Principalship by Sir William Dawson, who had held office for thirty-eight years. During that time a small institution was enlarged and raised under his guidance to the prominent position it now holds on the roll of Universities. When he took charge in 1855, the college grounds which are now adorned by so many great and massive buildings, objects of attraction to all visitors to the city, were only relieved from being a waste by the centre portion and the east wing of the Centre Building.

The endowment was a pittance. The numbers of Professors, Graduates and Students formed a striking contrast to those at the present day.

It is impossible in this report to give even a sketch of the history of these thirty-eight years. The feelings of the University are expressed in the following resolution of the Corporation passed in June, 1893.

Resolved : " That the life of Sir William Dawson has been so intimately united with the history of the University that this Corporation, in receiving the official report of his resignation of the position of Principal, feels the impossibility of compressing into a few brief sentences its appreciation of the labours, struggles and successes of his thirty-eight years of office, its recognition of the great personal qualities to which the successes are due, its gratitude for his services, and its regret at the fact together with sorrow for the cause of his resignation.

" Nevertheless, it deems it fitting that a few leading points should be referred to.

" All know of the marvellous increase of the University under his guidance, in the number of Professors and Students, of Faculties and Affiliated Colleges, buildings and equipments, wealth, educational power, reputation and influence in the Province and in Canada. But it is not merely such increase, however extraordinary, being, for example, in the number of graduates, 1,200 per cent, that redounds most to his credit.

" Even more remarkable, perhaps, is the fact that the germ of an institution which seemed to many to be dead should have been quickened under his ceaseless care and vigilance into active life, should have grown and expanded, and in the process should have spread its quickening influence to the whole of the education of the Province. The Corporation, in support of this statement,

can point to his labours in the organization and superintendence of the Normal School, which provides teachers for the schools that send students to the University ; to the establishment and management of the School Examinations by which teachers and pupils alike are reminded of the Higher Education ; to the encouragement he has given to Teachers' Associations, and the active part he has taken as a member of the Council of Public Instruction in strengthening the school system of the Province.

"That in effecting such achievements great difficulties had to be overcome was inevitable. The courage and perseverance in facing disheartening obstacles, and the fertility and readiness of resource in overcoming them, despite of momentary defeat, as in the case of the Department of Engineering, this Corporation deems not least among the personal qualities to which the success of the University is due. But not less is due to that administrative ability by which an institution consisting of so many separate bodies and so many individuals has been kept steadily working without friction among its component parts.

"That while doing so much for the University and for education in Quebec, he should by his indomitable energy have raised himself to so high distinction, both by scientific and by literary works, may be cause of reasonable pride to the University. The honours awarded by scientific societies, their medals, fellowships and presidencies, cast a reflected glory on the University, of which the Corporation is fully sensible ; and it cannot but express its joy and thankfulness that, although Sir William Dawson's recent illness will prevent him from encountering the bodily fatigues inseparable from the active superintendence of the affairs of the University, it will not interfere with his scientific investigations,

but tend rather to promote them by allowing more time for their pursuit.

“The corporation earnestly hopes, too, that the University will still be able to rely upon the services of Sir William Dawson as an able, prudent, and warm-hearted counsellor in all emergencies.”

#### APPENDED REPORTS.

LIBRARY, MUSEUM, PHYSICS BUILDING, OBSERVATORY,  
BOTANIC GARDEN, AND FINANCIAL STATEMENT.

The appended reports give full information under the above heads, but a brief reference to each of them here may be useful.

LIBRARY.—The number of volumes in the Library is now over 37,000, showing an increase of about 3,600 over that of last year. An interesting fact is that a large collection of astronomical works from the library of the late celebrated Lowndean Professor of Astronomy at Cambridge, J. Couch Adams, the discoverer of Neptune, has been presented to it by Sir Donald A. Smith, along with other volumes of great importance, over 600 in all.

An exceedingly important collection of books on Physics and Chemistry, containing some complete sets (difficult to obtain) of scientific periodicals, to the number of 1,300 volumes or more, has been given by Mr. W. C. McDonald.

Mr. Peter Redpath has added over 500 volumes to the Peter Redpath Historical Collection, which has been accumulating for so many years through his liberality.

MUSEUM.—Though a great loss to the University, the retirement of Sir William Dawson from the duties of lecturing and of general superintendence of the Uni-

versity, is likely to benefit the Museum largely by enabling him to give more time to his favorite studies.

**MCDONALD PHYSICS BUILDING.**—This magnificent building, with its equipment, has been placed by the Governors under the management of a Committee, consisting of the Principal (Convener), two Governors, the Deans of the Faculties of Arts and Applied Science, and the senior Professor of Physics. This Committee, which has been made a Standing Committee of the Corporation, reports regularly to the Corporation on all educational matters; on other matters it reports to the Governors.

The first report of the Committee states that the internal fixtures have been nearly completed, and that such progress has been made in the setting up of instruments that the Professors are now prepared to begin the classes for practical work. The building has already been used in connection with a series of scientific observations for determining the value of gravity which will extend across the continent. Mr. McDonald's valuable donation of scientific works and periodicals referred to above is intended to aid in the study of Physics in this building.

**OBSERVATORY.**—The additional storey added to the building during the past year, has given a wider horizon for the Blackman telescope. The point of chief interest however, in this report, is that a provisional value is given for the longitude of Montreal (and other stations) obtained from the recent observations made by cable in connection with the Greenwich Observatory. The result of the observations may be that Montreal will become a base station for determining longitudes of places on this continent.

**BOTANIC GARDEN.**—The facilities for practical instruction have been widely extended during the year.

While 483 students have taken advantage of them, arrangements have been made with the Protestant Board of School Commissioners for the city, by which the pupils of the Senior Schools under their control are enabled to obtain similar advantages. The study of plant life by pupils in painting and drawing has also been encouraged.

(Signed). DONALD A. SMITH, LL.D.,

*Chancellor.*

ALEXANDER JOHNSON, M.A., LL.D.,

*Vice-Principal.*

January 24, 1894.

## REPORT OF LIBRARY COMMITTEE FOR 1893.

Your Committee, in presenting their Report for the past twelve months, are enabled to report continued progress in the several departments of the work of the Library.

The formal opening by Their Excellencies, the Governor-General and the Countess of Aberdeen, of the new building presented to the University by Mr. Peter Redpath, took place upon the afternoon of Tuesday, October 31st last. At the conclusion of the proceedings, Their Excellencies, accompanied by a distinguished party, inspected the building, and, in the evening, honoured by their presence a *Conversazione*, at which more than seven hundred guests assembled. Since that date many people from the city and elsewhere have visited, and still visit the Library.

The transfer of the books from their former home to their new one began on October 26th, and was finished on November 9th. Not quite nine days were spent in the actual operation, since work was necessarily suspended during the opening ceremonies just mentioned and the preparations incident thereto, as well as on account of occasional rains. The weather was, however, on the whole very favourable, and your Committee have pleasure in reporting that the books sustained little, if any, damage in the course of removal.

In order to make all ready for moving, the Library was closed to readers on and after the 20th, but about one hundred volumes of the most important books of reference were kept apart upon special shelves, and were accessible at all times during library hours. Thus, although the Library was nominally closed from September 20th until December 6th, there was, in reality, barely one week during which, at least, a few books could be consulted, while on November 13th (the fourth day after the last volume had been transferred) readers had free access to the reading-room. Workmen, however, were still to be seen on all sides, and books were not allowed to be taken from the building until about ten days later.

With the view of affording all reasonable facility to those desirous of using the Library, your Committee has caused the reading-rooms to be kept open until 6 o'clock, and also from 8 until 10 o'clock, p.m., except upon Saturdays, when the building is closed at 5 o'clock in the afternoon.

Two students, whom the Board of Governors have appointed library-assistants for the purpose, have been in attendance on

alternate evenings, and have been able to do what was requisite for readers without undue interruption of their own studies.

The evening attendance since January 5th, the date on which the new regulations came into force, has been satisfactory, and it is expected that it will increase after the fact that the Library is open in the evening shall have become generally known.

Cataloguing, which has been suspended since September 20th last, has not yet been resumed. Before beginning afresh, it was deemed wise, as being the readiest means of rendering the contents of the Library available, to arrange the books upon the shelves according to the subjects of which they treat. This has been a matter requiring time, but will now soon be finished, whereupon the work of cataloguing will be continued with all practicable speed.

Binding and repairing have been attended to as usual, with the assistance of special grants to this end kindly made by the Board of Governors.

The additions to the Library during the past twelve months have been especially large and valuable. These have already been duly reported *in extenso* in the quarterly reports of the Committee, and have also appeared in the *Gazette* by the kindness of its proprietors, with the thanks of the Corporation. At the time of receipt, special acknowledgment was made of the very generous gifts of the Chancellor, the Hon. Sir Donald A. Smith, of Mr. W. C. Macdonald, and of Mr. Peter Redpath. These three donations amounted respectively to 605 volumes and 55 parts, 1,339 volumes and 522 volumes. The Library's obligations to Sir William Dawson and to Dr. Bovey were likewise acknowledged.

It now remains to mention the following more recent donations :—From the Government of the Province of Quebec, per Hon. J. S. Hall, 62 volumes ; from Mr. W. C. Macdonald, 244 volumes for the Library of the Faculty of Law ; from Mr. J. H. R. Molson, an autograph letter of Sir Walter Scott ; from Mr. Charles G. D. Roberts, through Mr. W. D. Lighthall, MSS. of his collection of poems, "Songs of the Common Day" ; from Mr. W. D. Lighthall, "Proof-sheets of his Songs of the Great Dominion ;" from Mr. W. D. Lighthall (as literary executor of the late Charles Sangster), the entire library remains of the latter, comprising MSS. of "Hesperus" and other poems, revised proof of second edition of the same ; MSS. of "The St. Lawrence and the Saguenay, and other poems ;" of "Norland and other poems ;" subscription lists and press notices of the first-named collection, together with other MSS. and a portrait of Mr. Sangster ; from

Mr. and Mrs. Walter Norton Evans, beautiful fac-similes of "The Black Book of Carmarthen" and others; from the McGill College Book Club, 121 volumes; and from Dr. Harrington, Dr. F. J. Shepherd, Mr. Francis McLennan, and many other friends, interesting and valuable donations.

The number of volumes in the Library, at the date of last annual report, was 33,724; at the date of last quarterly report, 36,807; the number to-day is 37,350; showing an increase, exclusive of MSS. and pamphlets, of 543 volumes for the quarter, and of 3,626 volumes for the year just ended.

Although regarding this large growth with feelings of the liveliest satisfaction, your Committee deem it but their duty to call attention to the weakness of the Library in certain subjects, notably in Chemistry and Mineralogy, in Modern Languages, (especially German, Italian and Spanish), in Fine Arts, and in Periodicals. The wise expenditure of a few hundred dollars upon books bearing on these subjects, would prove a very great benefit to the Library.

The whole respectfully submitted,

C. H. GOULD,

*Librarian.*

CONSPECTUS OF ATTENDANCE FOR 1893-94.

QUARTER ENDING.				MEN.	WOMEN.	VISITORS.	TOTAL.
Old Library	"	"	April, 24, 1893.	2,275	896	51	3,222
"	"	"	June, 20, "	301	80	42	423
"	"	"	Oct. 24, "	*353	90	182	625
				<u>2,929</u>	<u>1,066</u>	<u>275</u>	<u>4,270</u>
New	"	"	Jan. 24, 1894,	+1,150	567	77	1,794
* Library was closed from Sept. 20th to Nov. 13th, 1893.							
+ Re; represents 10 weeks only.							
				BOOKS READ.	LENT.	STILL OUT.	ADDED.
Quarter Ending	April 24th,	1893...		2,687	1,280	354	184
"	June 20th,	" ...		466	459	305	217
"	Oct. 24th,	" ...		..	..	..	..
"	Jan. 23rd,	1894...		1,493	580	311	543
				<u>4,646</u>	<u>2,319</u>	<u>970</u>	<u>944</u>

PETER REDPATH MUSEUM.—REPORT OF THE  
COMMITTEE FOR 1893.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—About twelve years have now elapsed since the opening of the Peter Redpath Museum, and during that period the collections have been greatly enlarged and, by careful arrangement, made more and more intelligible and useful to students. The facilities afforded are being taken advantage of by increasing numbers of students, and we find that while in 1886 there were 186 attending the various classes, the number in the present session is nearly 300. During the past year 2,500 incidental visitors registered their names in the Museum book. The number of these might, no doubt, be easily increased, if this were deemed desirable, but it must ever be borne in mind that the Museum is primarily intended for the use of instructors and students, and that the introduction of large numbers of outside visitors would necessarily prove distracting and interfere with the work of the classes.

Since the publication of the last Annual Report the resignation of Sir William Dawson as Principal and Logan Professor of Geology has taken effect ; but your Committee feel that this will be a direct gain to the Museum, as Sir William will now be enabled to devote much more time to its interests than was hitherto possible. By resolution of the Board of Governors he will continue to act as Honorary Curator, and will enjoy the use of the Committee-Room so long as he may desire it.

The appointment of Dr. Adams to the Logan Chair has given universal satisfaction, and also adds to the strength of this Committee, of which Dr. Adams is *ex-officio* a member.

The zoological lectures and demonstrations have again been entrusted to Dr. Deeks, who has had a large and enthusiastic class, and who has been able to add to the attractiveness of his subjects by means of a series of charts from Germany, for the purchase of which a grant was given by the Committee. Among the more important additions to the Zoological Department is a collection of 80 mounted specimens of Canadian birds, purchased for the Museum by Mr. W. C. McDonald, who has also kindly undertaken to defray the cost of fitting up the cases. Another valuable addition is the skeleton of a Fur Seal (*Otaria ursina*) from Behring's Sea, presented by Dr. G. M. Dawson.

Professor Penhallow states that the number of new specimens added to the herbarium during the year is 783. This includes a number of Canadian species from various sources, but chiefly consists of material from Mexico, the southern United States and Australia. Arrangements were made last spring for a continuance of the admirable collections of Mexican plants by Pringle, and also for special collections from Virginia by Mr. A. A. Heller. The work of final arrangement of specimens has continued during the year and is now in progress. In this connection Miss E. Tatley, B.A., continues to render efficient service. The total number of specimens now in the herbarium aggregates about 23,000. An exact enumeration is in progress.

Important additions have been made to the Palaeontological Department by donation and by purchase—rendered possible by the J. H. R. Molson Fund. Among the purchases is a valuable collection of Crinoids obtained from Mr. Stewart, of Ottawa, and a collection of Pleiocene Fossils from Florida. In this connection may be mentioned the publication by Sir William Dawson of an additional Museum Memoir on the Ice Age of Canada, containing a complete catalogue of the Pleistocene collections in the Museum. The Memoir has been distributed to other institutions and societies that send their publications to the University.

During the year considerable improvements have been made in the Mineralogical Department. Nearly all the specimens in the table-cases have been re-labelled by Mr. Curry, and now present a very attractive appearance. Among the additions to the collection, the most interesting is a portion of a meteorite which fell in southern British Columbia on the 26th of May last. Efforts were made to secure the entire specimen for our Museum, but proved unavailing, and we were obliged to be content with a small portion obtained from a dealer in Washington, who purchased the mass from the man who found it. During the Christmas holidays a large quantity of material stored in the basement, and forming part of the Miller Collection, has been gone over in order that anything of value might be made available for class illustration, and useless specimens got rid of.

In last year's Report, attention was called to the need of models to aid in the teaching of Crystallography. Through the kindness of the Board of Governors a grant of money has since been made for the purpose, and models obtained, which will prove of the greatest value in giving to students definite conceptions of the marvellous geometrical forms assumed by minerals in nature. The models include part of the beautiful series made by Thomas,

of Siegen, in Westphalia ; 132 small wooden models from Dr. Krantz, of Bonn ; and two sets of card models from Blatz, of Heidelberg.

While attending the recent meeting of the American Geological Society at Boston, both Sir William Dawson and Dr. Adams were struck by the admirable arrangements at Harvard for lantern illustration in Natural History. Electricity is there—as at many other colleges—taken advantage of both for the lantern and for lighting the class-room while objects are not being thrown upon the screen. Such an installation in the large class-room of the Museum would be of the greatest assistance in all the branches of science taught there.

Among improvements to the building carried out during the year may be mentioned the fitting up, at the cost of \$200, of a series of specimen cases in the main class-room, and the purchase of new blinds for some of the museum windows.

The complete list of donations for the year will, as usual, be printed in the University Calendar.

All of which is respectfully submitted.

On behalf of the Committee,

B. J. HARRINGTON,

*Hon. Curator.*

REPORT OF COMMITTEE OF MANAGEMENT OF  
PHYSICS BUILDING.

In presenting their first Report the Committee of Management of the McDonald Physics Building have to record that they have held two meetings since their appointment. They have found that the building, the collection of apparatus and the books in the special library are insured for suitable amounts.

It seems unnecessary to repeat the detailed description of the building and apparatus which appeared in the Memorial Volume issued at the time of its opening, in February, 1893, and which your Committee now adopts. Since that date the internal fittings and fixtures have been nearly completed; large additions have been made to the apparatus, and considerable progress has been made in setting up the instruments.

Your Committee has satisfaction in reporting that no settlement or flaw has been discovered in the building in the two years since the fabric was completed, so that the foundations and workmanship may be taken to be excellent. During the summer of 1893 several distinguished European physicists inspected the Laboratory while passing through to Chicago, and expressed their admiration of the arrangements and the thorough way in which they had been carried out. In particular, M. Desforges, who occupied rooms in it for several weeks, and carried out an important investigation of the value of gravity (part of a chain of observations which he is extending across the continent) in the N. E. room of the basement, pronounced it an ideal place for such delicate measurements. This from such an authority was the more satisfactory since it was intended to make this room a gravitation laboratory. It is hoped that a set of recording Seismometers will soon be established in the same room. The S. E. room of the basement has been reserved for Magnetic Observations, and bids fair to be equally satisfactory.

During the present session Professor Cox has carried on the whole of the lectures up to Christmas (including the lectures in Mechanics recently transferred from the Arts Building), in order that Professor Callendar might devote his time to preparing for the classes in practical work. The arrangements for the work in the Elementary Laboratory are now practically complete, and many of the Standard Instruments in the Advanced Electrical Laboratory have been set up, and used with the classes. Henceforward both Professors will take a share in both lectures and practical classes. So far as the work has gone the Laboratory has been found to fulfil

in point of convenience and comfort the highest expectations formed of it. The workshop, which is now in running order, has proved of the greatest service. All three lecture rooms have been largely used for classes, and have proved excellent, both for light and acoustic properties. The large Lecture Theatre is an admirably easy room to speak in.

Though it is too early at present to point out in what direction advanced work may be undertaken, the Committee would like to mention that in two departments at least the McDonald Physics Building may be usefully made a Standardizing Laboratory. The unusually complete sets of electrical standards and instruments for comparison, and the new instruments (some of which are of Professor Callendar's invention) for Thermometry and Pyrometry, indicate that it may do useful work in these two branches of Physics at no distant date.

REPORT ON THE OBSERVATORY FOR THE YEAR  
ENDING DECEMBER 31, 1893.

TO THE CORPORATION OF THE UNIVERSITY,

GENTLEMEN,—I have the honour to present the Report on the Observatory for the year 1893, being my twentieth annual report.

*Meteorological Observations.*—The regular meteorological observations, as particularized in the Report of the Observatory for the year 1888, have been carried forward without interruption. The daily and monthly results have been published in the *Montreal Gazette*, and the monthly summaries in the *Canadian Record of Science*.

*Time Service.*—Determinations of clock errors have been made by the observation of 725 star transits on 131 nights. The instant of mean noon has been given to the shipping on week days throughout the season of navigation. The automatic system of time signals in the city has been maintained and the time has been transmitted by the railway and telegraph lines throughout the Dominion, as in former years.

The system of time exchanges with the Toronto Observatory has been continued with the following results: the average difference between the mean time of the two Observatories on the 15 days on which exchanges were made was 0.19 seconds, and the greatest difference on any one day was 0.41 seconds. The probable error of the time of one Observatory as compared with that of the other at any instant, as determined from the comparisons of the year, is 0.15 seconds.

*Longitudes.*—The first reductions of the observations made by me in the summer of 1892, in connection with the determination of the longitude of the Observatory, were completed in July last, and the results forwarded to the Astronomer Royal for combination with the results of the English observers. The provisional values of the longitudes of the Stations, as communicated by the Astronomer Royal are: Montreal, 4 h. 54 m. 18.7 s.; Canso (Hazel Hill) 4 h. 4 m. 41.3 s.; Waterville, Ireland, 0 h. 40 m. 9.3 s.

*Buildings.*—During the summer the facilities for work in the Observatory have been improved by the addition of a storey to the building, and a better horizon has been secured for the Blackman telescope by the increased height of the tower.

*General.*—Owing to the alterations in progress in the building, it was necessary to dismount the telescope in the early summer, so

that the observations on sun-spots have been interrupted. The telescope will be re-mounted and the work again taken up early in the new year. It was also found impracticable to re-commence the observations of soil temperatures during the year. The usual large number of applications, from the public, for information, have been received and answered.

Mr. E. Bolton, B.A.Sc., and Mr. James Stevenson, B.A.Sc., have been the principal observers during the year, Mr. Bolton acting during the first six months and Mr. Stevenson since June 1st. Mr. Robert Bickerdike, Jr., B.A.Sc., was engaged from Jan. 1st to July 1st, in the reduction of the longitude observations, and gave occasional assistance in the routine work of the observatory. Since Dec. 1st he has also been employed as Computer.

*Educational.*—Instruction in transit observations and in the determination of latitude by the prime vertical and zenith telescope methods, has been given to the fourth year students in the course of Civil Engineering. The Blackman telescope has been at the disposal of the Professor of Astronomy, in the Faculty of Arts, for the illustration of his lectures.

Respectfully submitted,

C. H. McLEOD,

*Superintendent.*

MCGILL COLLEGE, MONTREAL,

JANUARY 6, 1894.

## REPORT ON THE BOTANIC GARDEN FOR 1893.

The past year has witnessed substantial progress in the history of the Botanic Garden. The large piece of ground seeded down in 1892 has been prepared for the reception of plants the coming spring, by the construction of walks and beds over the entire area, thus providing, very nearly, for the completion of that section reserved for the Gamopetalæ. A further area of about three-fourths of an acre has been prepared for seeding the coming spring, thus providing for the first portion of that section to be devoted to the Polypetalæ.

Through the assistance of Mr. Howard Barnes, B.A.Sc., labels have been provided for all the out-of-door plants, and for most of those under glass.

The garden continues to justify its utility as a means of practical instruction. During the year ending December 31, 1893, 483 students have received the benefit of the facilities here offered for practical instruction.

Each student taking the regular course in Botany in the University is provided with a special garden ticket which permits him to make full use of such material as he may select under the supervision of the gardener, for purposes of practical study. In this way students are enabled to extend the practical work of the regular classes in such a manner and at such times as may best serve to round out their knowledge and economize their time, while for those who take a special interest in the subject this system is particularly advantageous.

It has always been the policy of the Garden Management to encourage the use of the facilities here offered, by the pupils of our public schools, since it is believed that such encouragement may lead to a greater recognition of the value of botanical instruction in an elementary course of training. Arrangements were made with the Protestant Board of School Commissioners during the past year, whereby the pupils of the Senior School receive garden tickets entitling them to the same privileges in the use of material as University students, and it is to be hoped other schools may shortly follow this example. The garden has also served as a means of encouraging the fine arts, by reason of pupils in painting and drawing being taken there for special studies in plant-life.

We are under obligations for seeds to The Arnold Arboretum of Harvard University; Baron F. von Mueller, Melbourne, Australia; The Botanical Department of Jamaica; Mr. A. Cockayne, Christ-

church, New Zealand ; Mr. Walter Hill, Brisbane, Australia.

Exchanges in kind have been forwarded to the Botanical Department, Jamaica ; Garden of the Medical Faculty, Bordeaux, France ; Mr. Cockayne, New Zealand ; Mr. Walter Hill, Australia. This last exchange merits more than passing notice, being an ample quantity of wild rice, (*Zizania aquatica*), which Mr. Hill is anxious to establish in Australia, if possible.

Publications bearing upon the work of the Garden, as also publications by the Director, have been widely distributed to kindred institutions and botanists elsewhere, by way of promoting exchange. We have received in return, publications from the Royal Gardens, Kew ; Botanical Department of Jamaica ; University of California ; Royal Botanic Gardens, Trinidad ; Instituto Agronomico, Estado Sao Paulo (Brazil) ; Missouri Botanical Gardens ; Boletim da Sociedade Broterianum ; Kolonial Museum, Haarlem ; Botanic Gardens, Christiania, Norway ; Mr. Walter Hill, Brisbane, Australia.

Respectfully submitted,

D. P. PENHALLOW,  
*Director.*

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*ROYAL INSTITUTION for the  
Balance Sheet for the*

SUNDRY ORIGINAL DONATIONS IN LANDS, ETC. (Balance of account).....		\$481,957 50
SUNDRY SUBSEQUENT DONATIONS:—		
McTavish Street Property, the gift of J. H. R. Molson, Esq.....	\$42,500 00	
Wm. Molson Hall and Corridors, the gift of Wm. Molson, Esq.....	27,500 00	
Peter Redpath Museum, the gift of Peter Redpath, Esq.....	100,000 00	
Thos. Workman Mechanical Workshops and Equipment, built under bequest of the late Thos. Workman.....	60,000 00	
W. C. McDonald, Esq., donation towards building of Workshops.....	20,000 00	
Subscriptions toward Equipment of Thos. Workman Workshops.....	12,450 04	
John H. R. Molson, donation for Extension to Medical College.....	60,000 00	
	322,450 04	\$804,407 54
SUNDRY ENDOWMENTS:—		
Subsequent General Endowment.....	65,120 00	
Endowment Fund of 1881.....	33,500 00	
Dr. George W. Campbell Memorial Fund for Medical Faculty.....	53,006 04	
Leancoill Endowment Fund for Medical Faculty.....	50,000 00	
Hon. Sir Donald A. Smith Endowment of Departments of Pathology and Hygiene in Medical Faculty.....	100,000 00	
Dr. Robt. Crank Fund in the Medical Faculty.....	500 00	
Mrs. (Mary) Dow Bequest, Medical Faculty.....	9,000 00	
Sir Donald A. Smith Endowment Fund for Donald A. Special Course for Women.....	120,000 00	
Philip Carpenter Fellowship Endowment Fund.....	7,000 00	
John Frothingham Principal Fund.....	40,000 00	
Applied Science Endowment Fund.....	6,000 00	
W. C. McDonald Endowment Fund for Faculty of Law.....	150,000 00	
Do. do. for Maintenance of Engineering and Physics Bldgs.....	85,000 00	
Thos. Workman Workshops Endowment.....	57,000 00	
Graduates' Endowment, Faculty of Applied Science.....	71 02	
Peter Redpath Chair of Pure Mathematics.....	20,000 00	
Sir W. E. Logan Chair of Geology.....	20,000 00	
Molson Chair of English Language and Literature.....	20,000 00	
John Frothingham Chair of Logic, etc.....	40,000 00	
D. J. Greenshields Chair of Chemistry.....	25,000 00	
Gale Chair in the Faculty of Law.....	30,000 00	
Wm. Scott Chair of Civil Engineering.....	43,070 32	
Hiram Mills Chair of Classics.....	50,000 00	
W. C. McDonald Chair of Physics.....	40,000 00	
Do. do. of Electrical Engineering.....	2,200 00	
Chas. Gibb Botanical Chair Endowment.....	1,074 05	
Hannah Willard Lyman Memorial Fund.....	340 00	
Neil Stewart Prize.....	1,200 00	
Anne Molson Gold Medal.....	2,605 00	
British Association do.....	700 00	
Henry Chapman do.....	1,000 00	
Elizabeth Torrance do.....	1,000 00	
Sir W. E. Logan do.....	1,000 00	
Prince of Wales do.....	1,000 00	
Shakespeare do.....	1,000 00	
Sutherland do.....	1,500 00	
Major Hiram Mills Scholarship and Medal.....	1,667 00	
Jane Redpath Exhibition.....	1,500 00	
British Association Apparatus.....	2,000 00	
Museum Endowment Fund.....	4,400 00	
Wm. Molson Library Fund.....	1,000 00	
Hon. F. W. Torrance Mental and Moral Philosophy Book Fund.....	250 00	
Hugh S. McLennan Library Endowment.....	25,000 00	
W. C. McDonald Scholarships.....	2,000 00	
Barbara Scott Scholarships.....	1,100 00	
Walter Scott Exhibition.....	1,000 00	
Wm. Wood Redpath Memorial.....	2,000 00	
Charles Alexander Scholarship.....	700 00	
Faculty of Applied Science Library Endowment.....	1,161,503 43	
SUNDRY ACCOUNTS, BEING INCOME DEVOTED TO SPECIAL PURPOSES NOT YET EXPENDED...	31,132 62	
LESS SUNDRY SUMS EXPENDED IN ADVANCE.....	1,278 75	
	29,853 87	
	\$1,995,764 84	

Verified,

MACINTOSH &amp; HYDE, Auditors.

ADVANCEMENT of LEARNING,  
year ending June 30, 1893.

GROUNDS AND BUILDINGS:—		
College Grounds .....	\$32,046 12	
College Buildings .....	95,422 03	
Medical Faculty Buildings .....	54,049 31	
Medical Building Extension .....	25,375 00	
Porter's Lodge .....	2,125 00	
Observatory Buildings .....	3,642 14	
Gymnasium .....	8,687 99	
J. H. R. Molson Library Site on McTavish Street .....	27,296 25	
Wm. Molson Hall and Corridors .....	27,500 00	
Peter Redpath Museum Building .....	100,000 00	
Thomas Workman Mechanical Workshops .....	67,208 07	
		\$443,351 91
MOVEABLE PROPERTY:—		
Equipment Chemical Laboratory .....	4,396 24	
Museum, Furniture, Specimens, etc. ....	15,568 28	
Philosophical Apparatus .....	9,547 64	
Engineering do. ....	3,128 02	
Library Fixtures and Furniture in old Building .....	5,061 17	
Donalda do. do. ....	327 63	
Law do. do. ....	510 50	
General do. do. ....	9,302 29	
Books in Law Library .....	1,235 33	
Books in Library .....	45,554 02	
Equipment Thomas Workman Mechanical Workshops .....	22,279 71	
		117,510 83
		\$560,862 74
AMOUNTS UNPAID IN RESPECT OF ENDOWMENTS .....		13,083 39
INVESTMENTS IN MORTGAGES, ETC. ....		1,296,117 91
SUSPENSE ACCOUNT .....		3,904 89
AMOUNT PAYABLE IN RESPECT OF ARREARS OF INTERESTS .....		6,256 85
BALANCE AT DEBIT OF PROFIT AND LOSS ACCOUNT .....	\$46,241 34	
Less above Arrears of Interest .....	6,256 85	
		39,984 49
<hr/>		
CASH ON HAND IN BANK .....		75,554 57
		\$1,995,764 84

J. W. BRAKENRIDGE, B.C.L., Acting Bursar.

*INCOME and EXPENDITURE of the ROYAL  
for the year ending*

INCOME.

From Fees collected .....	\$23,533 10	
“ Income received from Investments, Deposits in Bank, etc .....	69,617 66	
“ Government and other Grants .....	5,775 00	
“ Donations and Subscriptions .....	9,430 00	
“ Sundry Receipts .....	377 03	
	\$108,732 79	
Balance at debit of Profit and Loss Account on 30th June, 1893 .....		46,241 34

NOTE.—Profit and Loss Account, 30th June, 1893 .....	\$46,241 34		
do. do. 30th June, 1892 .....	38,906 14		
Deficiency for the year .....	\$7,335 20		

\$154,974 13

Verified,  
MACINTOSH & HYDE, Auditors.

*CAPITAL RECEIVED and DISBURSED by the ROYAL  
for the year ending*

RECEIPTS.

CASH ON HAND FOR INVESTMENT ON THE 1ST JULY, 1892 .....		\$42,531 09
SUBSCRIPTIONS :—		
Subscriptions for Equipment of Workman Workshops .....	\$3,599 18	
ENDOWMENTS, ETC. :—		
Chas. Alexander Scholarship .....	\$2,000 00	
Gale Chair Endowment, on account .....	857 94	
Sir Donald A. Smith for Medical Faculty .....	100,000 00	
Thos. Workman Mechanical Department Endowment, balance in full .....	30,000 00	
J. H. R. Molson for Additional Buildings for Medical Faculty .....	60,000 00	
Mrs. Mary Dow Bequest to Medical Faculty .....	9,000 00	
Dr. Craik Fund in Medical Faculty .....	500 00	
Graduates' Endowment Fund, Faculty of Applied Science .....	25 00	
Applied Science Library Endowment .....	700 00	
	203,082 94	
INVESTMENTS REPAID DURING THE YEAR .....	86,933 22	
	293,615 34	
		\$336,146 43

Verified,  
MACINTOSH & HYDE, Auditors.

ROYAL  
ending

INSTITUTION for the ADVANCEMENT of LEARNING,  
30th June, 1893.

## EXPENDITURE.

Balance at debit of Profit and Loss Account on 1st July, 1892.....		\$38,906 14
Cash on hand of Unexpended Income of Special Endowments, Scholarships, Appropria- tions, etc., on the 30th June, 1893.....	\$29,853 87	
Do. do. 30th June, 1892.....	22,211 27	7,642 60
For Salaries and Wages.....	76,593 71	
" General Expenditure—Gas, Fuel, Water, insurance, Printing, Stationery, Mainte- nance of Grounds, Repairs to Buildings, Fittings, Museum Maintenance, Law Charges, Clearing Snow, etc., etc.....	20,133 84	
" Amount paid to Faculty of Medicine, being Interest on Leacholl and Campbell Funds.....	508 68	
" Apparatus and Supplies for Class Work in Botany, Chemistry, Mechanical Depart- ment, etc.....	1,551 49	
" Rent of Rooms for Law Faculty.....	500 00	
" Botanic Garden.....	1,290 51	
" Gymnasium.....	1,180 12	
" Library—for books, etc.....	967 46	
" Scholarships, Exhibitions, Medals and Prizes.....	3,717 75	
" School Examinations, Diplomas, etc.....	1,263 15	
" Annuities.....	686 64	
" Balance in Exchange Bank written off to Profit and Loss Account.....		108,333 35
		92 04
		\$154,974 13

J. W. BRAKENRIDGE, B.C.L., Acting Bursar.

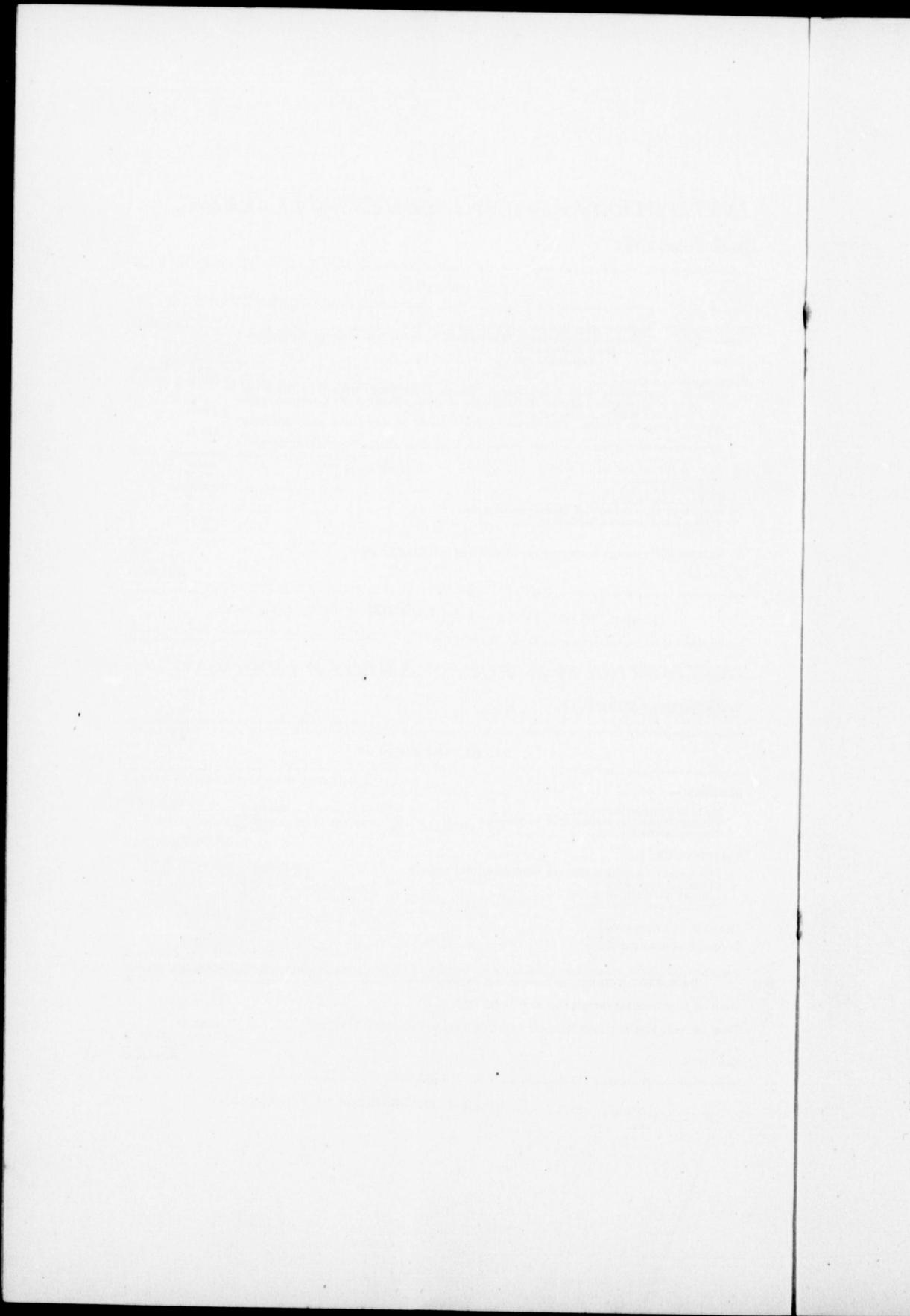
ROYAL  
ending

INSTITUTION for the ADVANCEMENT of LEARNING,  
30th June, 1893.

## DISBURSEMENTS.

BUILDINGS :—		
Medical Building Extension.....	\$25,375 00	
Thomas Workman Mechanical Workshops.....	6,128 59	
Transit House.....	203 28	
		\$31,706 87
EQUIPMENT, ETC. :—		
Equipment Thomas Workman Mechanical Workshops.....	2,142 13	
Chemical Apparatus.....	50 00	
Library Account.....	169 85	
Fixtures and Furniture.....	212 90	
		2,514 88
CHARGES ON PROPERTIES.....	36 70	
INVESTED DURING THE YEAR.....	248,852 08	
		\$283,110 53
AMOUNT CARRIED TO PROFIT AND LOSS ACCOUNT, being amount of Capital used to make up Deficit in Income (see Statement of Income and Expenditure).....		7,335 20
CASH ON HAND FOR INVESTMENT ON 30TH JUNE, 1893.....	11,075 60	
CASH ON HAND FOR BUILDING MEDICAL COLLEGE EXTENSION ON 30TH JUNE, 1893.....	34,625 00	
		45,700 70
		\$336,146 43

J. W. BRAKENRIDGE, B.C.L., Acting Bursar.



## APPENDIX.

Since the presentation of the Annual Report, the University has had to lament the decease of two other eminent members of the Corporation.

The announcement of the death of Mr. Peter Redpath, the Senior Governor of the College, and one of the great benefactors of the University, on February 1st, 1894, was received with general sorrow. On February 6th, the day of the funeral in England, a memorial service was held in the reading-room of the Library which he had so recently presented to the University, at which the following address was delivered by the Rev. Dr. Macvicar:—

“We unite this morning at the same hour in which his funeral service is being conducted at Chiselhurst, England, in a public tribute of respect and honor to the memory of Mr. Peter Redpath. He was born of godly parents in this city, in 1821, where he received his early education, his business training being completed in England. He was a man of good ability, sound judgment, refined and elevated taste, and excellent culture—a lover of literature and art, and, what is infinitely better, a lover of truth and the God of Truth. He was probably as widely read as most of his mercantile contemporaries.

“After a long and successful career, having retired from business, he removed to England and devoted several years to the study of Law, and was admitted to the Bar as a barrister of the Middle Temple, London. Both in this city and in the old land he was deservedly called to occupy many positions of trust and responsibility. In business he was uniformly characterized by indefatigable diligence and unswerving integrity. His yea was yea, and his nay, nay. Gentle, amiable and considerate of the opinions and feelings of others, ever ready to take a broad and generous view of their actions, and yet when purity and principle were concerned he was as firm as a rock. It was vain for those who had sinister ends to serve to attempt to turn him aside from truth and righteousness. In these respects he furnished a notable pattern, which young men and all others may do well to imitate.

“As a philanthropist he took rank with the foremost in our land. His benefactions in various forms to McGill University and other public institutions bear witness to his unstinted liberality. The Museum and this Library which bear his name will perpetuate his memory amid the respect and gratitude of generations of students and citizens through coming centuries. He had grace and wisdom given him to administer his large resources in his life-time for the good of his fellow men; and this fact deserves to be emphasized. His last public appearance amongst us was in this very hall three months ago in the performance of a crowning act of educational usefulness.

"But let it not be supposed that all his benevolence took visible forms like those just mentioned. He was naturally unobtrusive, strongly averse to all ostentatious display and vulgar advertising of the good he purposed or accomplished. His unreported charities were numerous and wisely distributed. He sought to do his alms before God, and not before men to be seen of them. The Father who seeth in secret alone knoweth in what abundant measure he gave help and comfort to others.

"As a Christian he was devout, conscientious, consistent. His Christianity was a life and character rather than a demonstrative profession. He detested quackery and sham in religion, and he was right. I had opportunities of knowing his views on these matters intimately. For many years he was an exemplary member and office-bearer of the Free Church, Coté Street, now Crescent Street Church. He served with me there most faithfully as a deacon during my entire pastorate, and was twice elected as an elder, the duties of which office, through the modest estimate of his own ability, he judged himself unable to undertake.

"His simple trust in the Word and in the Christ of God was the secret of his meek and quiet spirit, unflinching generosity, and sterling worth. And I must add that in all his Christian service and public munificence he was lovingly aided by his partner in life, with whom, in her great bereavement, we to-day deeply sympathize. Finally, in this hour of sorrow over the removal of one of Montreal's noble benefactors, let us seek through the mediation of Jesus Christ the help of His Holy Spirit that we may emulate the example of the one whose memory we honor."

The Rev. George Douglas, LL.D., Principal of the Wesleyan Theological College, died on February 10th, 1894. Born in Scotland in 1825, he came with his parents to Montreal in 1832. Educated in England for the ministry of the Methodist Church, he went as a missionary to the West Indies, and returning subsequently to Canada for ministerial work, was appointed eventually head of the Wesleyan Theological College in Montreal. The duties of this office he discharged with great efficiency. In 1870 the University conferred upon him the degree of LL.D., "Honoris Causa."

