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**ANNUAL REPORT**  
OF THE  
**GOVERNORS, PRINCIPAL AND FELLOWS**  
OF  
**MCGILL UNIVERSITY,**  
**MONTREAL,**  
For the Year 1899-1900.

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MCGILL UNIVERSITY, MONTREAL  
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*(Published by permission of His Excellency the Governor-General, Visitor of the University.)*

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*To His Excellency the Right Honourable Sir Gilbert John Murray Kynynmound Elliot, Earl of Minto, Governor-General of Canada:—*

MAY IT PLEASE YOUR EXCELLENCY:—

We beg leave to present to Your Excellency, as Visitor of the University under its Royal Charter, the following report for the educational year ending 31st August, 1900.

Academically, the most important feature of the year's work has been the further development of the new curriculum in Arts. The welcome increase in the number of First Year Students in the session which has just opened seems to augur well for a larger attendance in this Faculty than we have been able to record during recent years. But effective provision must at once be made for those new subjects which are to render the Arts curriculum more varied and attractive; prominent among which is

the subject of Economics and Political Science. It would be a matter of great surprise in other university circles,—including those which flourish, on both continents, in the great centres of commercial and industrial activity,—if it were more generally realized that an institution of such high standing as McGill University had been till now destitute of any provision for teaching in a department so universally recognized as indispensable to proper training for citizenship.

Another interesting feature in the work of the past year was the development and further organization of the Royal Victoria College, which has now completed the first session of its academic existence. It is anticipated that, before the date of our next Report, the College will—in accordance with the provisions of its constitution—be placed in charge of a Council of its own, acting in unison with the Corporation of the University, and reporting regularly on its separate interests. Meanwhile it is a pleasure to congratulate the women-students of the University, both resident and non-resident, on the greatly improved conditions under which, thanks to the generosity of the Chancellor, they are now able to carry on their work.

The recently instituted Academic Board, consisting of the Professors of all the Faculties, has done good service throughout the year. While its functions are advisory and not executive, its influence in the direction of academic unity may be seen in the revised issue of the Calendar, where, among other improvements, the separate regulations of individual Faculties as to entrance and matriculation, conduct of students, examinations, etc., have been harmonized and codified. Now that the Faculties and Professors have been brought into

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fuller touch with each other, on lines which have proved beneficial in other universities, the next step would seem to be for the students of McGill to associate themselves,—through the Presidents of the Year in the various Faculties, along with other elected members,—in the formation of a Students' Representative Council, which could advise judiciously on matters affecting undergraduate interests.

Another unifying influence in the educational work of the University is the new Board of Matriculation Examiners. Besides securing greater uniformity in regard to the admission requirements of the several Faculties, and generally methodizing the processes which lead up to matriculation, the Board will now have increased opportunity of assimilating and co-ordinating the June and September examinations, inasmuch as the sole control of the A. A. examinations is now vested in McGill University, by a recent resolution of the Protestant Committee of the Council of Public Instruction. This arrangement implies little else than a formal change in our relations with the University of Bishop's College, as it is provided that certain members of the Arts Faculty at Lennoxville may still co-operate with our examiners. It is a pleasure to be able to report that, in order to secure increased efficiency in the conduct of these examinations, the Protestant Committee has increased its subsidy from \$200 to \$500, and this will go some way towards reducing the deficit which this University has hitherto incurred annually under this head, in its efforts to advance the educational interests of the schools of the Province.

On the other hand, it is our duty to record the diminution by one half—amounting to \$2,075—of the sum which has for many years been paid to the University by the Provincial

Government through the Protestant Committee, as part of the Superior Education Fund of the Province. Some portion of this fund is derived from the sale of marriage licences, and, though it was covenanted more than a quarter of a century ago that the revenue derived from these licences should be available for higher education, the plea is now made that the needs of poor municipalities have also to be considered. McGill University has always declined to make itself a party to any issue that may be raised with the view of attempting to show that the interests of elementary education and those of higher education are separate and incompatible. At the same time, it may be well to point out that the Provincial Legislature is acting differently from other governments in continuing to lend an ear to the argument that the modern University is an institution equipped in the interests of the privileged few, which ought, therefore, to be self-supporting, without relying on any form of State aid. There is no reason why even-handed justice should not be done alike to schools and to universities.

There falls to be recorded in this Report the death of Emeritus Principal Sir William Dawson, LL.D., F.R.S., C.M.G., which took place on 19th November, 1899.

Suitable resolutions were prepared and adopted by the Board of Governors and by Corporation, and from these the following is extracted:—

“Resolved, that the Board of Governors desires to associate itself with the expressions of respect for the memory of the late Sir William Dawson which have already been made by Corporation, on behalf of the whole University.”

“For many years, and often in times of difficulty, when the outlook was not so bright as it is now, the late Principal was the trusted adviser of the Board, and it was through him that the Board was enabled to make the various advances which have helped to consolidate the position of the University.

"His unsparing efforts in the cause of education, his zeal and devotion, his noble character, and great kindness of disposition, will ever be remembered by those who had the privilege of co-operating with him for the advancement of common interests."

The death of Mr. Hugh McLennan, Senior member of the Board of Governors, followed that of the venerable Emeritus Principal with startling suddenness. Reference was made to Mr. McLennan's services to the University in the following terms:—

"Genuinely interested in everything that tended to promote the usefulness of the University, unsparing of time and trouble in his attention even to the details of administration, possessing a great knowledge of affairs, sound judgment, and a never-failing courtesy and kindness, he has left a blank which will be realized most by those who have been his colleagues and most closely associated with him."

Allusion may also be made here to the sudden death in January of the present year of Mr. W. W. Ogilvie, who had begun to take a cordial interest in the affairs of the University, and who had, a short time before his death, contributed a second subscription of one thousand dollars to the fund for establishing Bursaries in the Faculty of Arts.

The memory of the late Sir William Dawson, as of our other friends and benefactors, will long live in the hearts of the members of the University. It will also survive in the "Dawson Chair of Geology," founded, with characteristic generosity and kindness, by Sir Wm. C. Macdonald.

Among other additions to the equipment of the University may be mentioned the extension of the Library, in memory of her late husband, by Mrs. Peter Redpath, of the Manor House, Chislehurst, England, and the additions to the Medical Building, the funds for which have been most generously pro-

vided by the family of our Chancellor, Lord Strathcona and Mount Royal.

The University must also gratefully recognize the continued generosity of its constant benefactor, Sir William C. Macdonald, in providing a sum of \$135,000 as an endowment fund to secure the adequate staffing of the Chemical Laboratory. This fund has enabled the Board to make a welcome addition to the number of Lecturers and Demonstrators, each of whom is highly qualified, not only for the work of teaching, but also for the conduct of original research. Sir William Macdonald has also relieved the Board of all responsibility for the upkeep of the Chemistry, as also of the Physics and Engineering Buildings, by making provision for the repairs and renewal of the structures.

As to future wants, it continues to be a duty to emphasize the need for a well-equipped Gymnasium on the College grounds. This important subject is in charge of a Committee of Corporation, appointed to consider the whole question of Physical Culture and Athletics. No less obvious is the need for residential accommodation for our students, large numbers of whom come up each session to the great city of Montreal with no better social basis than that which is provided by the cheap boarding-house. These are large requirements, which well deserve the attention of those among our wealthy citizens who have not hitherto been approached with reference to the needs of the University. From a merely business point of view, it should be borne in mind that improved conditions of residence would mean an increase of our student constituency, and, in this way, an increase in the revenue derivable from fees. Further endowments are moreover urgently needed, especially—as has been already stated—in the Faculty

of Arts, where such integral and essential subjects as Botany, Classics, and Modern Languages, are still unprovided with departmental foundations, and where an extension of the work must soon be permanently undertaken in Philosophy, Economics and Political Science. The unsatisfactory conditions under which the work of the Botanic Garden is being carried on are fully set forth in the Director's Report.

The year has witnessed one more addition to the list of Graduate Societies founded in various parts of Canada and the United States, in the shape of the "University Alumni Association of Chicago." It cannot be doubted that those "outposts of McGill" in distant centres, while affording a gratifying proof of continued attachment on the part of its graduates, may also exercise a considerable influence on the future development of the University.

Reference should also be made to the patriotic conduct of the undergraduates of the University, who came to a unanimous decision, in view of the then existing state of affairs in South Africa, not to celebrate the much-looked-for Quadrennial Banquet, and to apply the money instead to the Patriotic Fund. A sum of One Thousand Dollars was forwarded to Ottawa, from students and other members of the University.

STRATHCONA,

*Chancellor.*

W. PETERSON, M.A., LL.D.,

*Principal.*

12 December, 1900.

## THE YEAR 1899-1900.

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

Law, B.C.L.. . . . .	11	
Medicine, M.D.. . . . .	75	
Arts, B.A.. . . . .	42	(11 women)
Arts, M.A.. . . . .	5	(2 women)
Arts, M.Sc.. . . . .	1	
Arts, D.Sc.. . . . .	1	
Applied Science, B.Sc.. . . . .	34	
Applied Science, D.Sc.. . . . .	1	
Applied Science, M.Sc.. . . . .	8	
Veterinary Science, D.V.S.. . . . .	4	

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The Honorary degree of LL.D. has been conferred on Prof. Geo. F. Barker, of the University of Pennsylvania, Alfred J. Mahan, Captain U.S.N., and J. F. Whiteaves, F.R.S.C., of Ottawa.

There were also admitted to the degree of B.A. "ad eundem gradum," Hilda Diana Oakeley (Somerville College, Oxford); to the degree of B.Sc., "ad eundem gradum," Ernest Rutherford, Ma., B.Sc. (N.Z.), Robert Bowie Owens, E.E. (Col.); to the degree of M.A., "ad eundem gradum," W. G. Cole, M.A. (Harv.).

Nine Gold Medals were awarded to successful candidates, besides the Wicksteed Silver Medal for Physical Culture, the British Association Medals and the Governor-General's Silver Medal in the Faculty of Applied Science.

Examinations for the Certificate of Associate in Arts were held in June, 1900, at 37 centres, with the following results:

Candidates for A. A. certificate.. . . .	224
" passed successfully.. . . .	137
" for preliminary subjects.. . . .	147
" for Matriculation only.. . . .	139 (22 centres)
" qualified for entrance:—	
For Medicine.. . . .	9
For Arts or Medicine.. . . .	63
For Arts (B.Sc. qualification) . . . . .	2
For Applied Science.. . . .	29

The total number of Students attending classes in McGill College during last session was distributed as follows:—

Faculty of Law.. . . . .	63
“ “ Medicine.. . . . .	456
“ “ Arts.. . . . .	} 287
{ Women.. . . . . 104	
{ Men.. . . . . 183	
“ “ Applied Science.. . . . .	232
“ “ Veterinary Science.. . . . .	16
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	1,054
Deduct, repeated in different lists.. . . . .	18
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	1,036
In McGill Normal School—	
Teachers-in-training.. . . . .	145

In the classes of the Normal School at the close of last session 123 Diplomas were granted by the Central Board of Examiners, including 8 for Academies (issued to graduates in Arts of the University), and 36 for Model Schools, the remainder being given in the Kindergarten, Elementary and Advanced Elementary Classes.

At the September Exhibition and Scholarship Examinations in Arts, 4 Scholarships and 11 Exhibitions were awarded, varying in value from \$125 to \$90.

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

#### NEW ENDOWMENTS AND DONATIONS.

The Faculty of Medicine has been enriched by the gift of \$50,000 from Lady Strathcona and \$50,000 from the Hon. Mrs. Howard for the purpose of extending the buildings of the Faculty.

For the maintenance during the year of the Royal Victoria College, the Rt. Hon. Lord Strathcona has given \$42,500, and has also given \$2,500 for the income of the Chair of Zoology founded by him.

Sir William C. Macdonald has contributed, in addition to very many other generous gifts, the sum of \$10,047.82 to supplement the equipment, etc., of the Chemistry and Mining Building; \$135,000 to endow the Department of Chemistry; \$50,000 to found a Chair of Geology, associated with the name of the former principal of the College, the late Sir William Dawson; \$15,000 as an endowment, the income of which is to be used for all outside repairs necessary to the Engineering, Physics and Chemistry and Mining Buildings; and has strengthened the Auxiliary Endowment Fund, which he established in 1897 by the sum of \$50,000.

Mrs. Peter Redpath has given in continuance of her late husband's annual subscription, \$1,000 yearly for the maintenance of the Peter Redpath Museum and \$500 yearly for the salary of the Museum assistant, and has also given, as in former years, \$5,000 yearly for the maintenance of the Peter Redpath University Library.

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

Mr. R. B. Angus has given \$2,500 for the maintenance of a Research Fellowship in Pathology.

Mr. James Ross has given \$2,500 for the same object.

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

A Friend has given \$100 towards the maintenance of the Biological Table at Woods' Holl.

The Ottawa Valley Graduates' Society has continued the Exhibition of \$50, to be competed for by candidates from the Ottawa Valley at matriculation examinations.

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The pupils and friends of the late Miss Annie M. McIntosh, of Bute House, Montreal, have given \$125 to found a prize for women students.

The late Mr. J. C. Wilson bequeathed \$1,000 to maintain the "J. C. Wilson" Prize in the McGill Normal School.

The late Mr. Hugh McLennan has given \$120 for Bursaries in the Faculty of Arts.

The late Mr. W. W. Ogilvie has given \$1,000 for Bursaries in the Faculty of Arts.

Mr. Sanders, \$100 for Sanskrit prizes, Faculty of Arts.

The following gentlemen contributed for prizes in the Faculty of Applied Science: Mr. E. B. Green-shields, \$25; Messrs. Fraser & Chalmers, \$25; Mr. J. M. McCarthy, \$20; Mr. W. A. Carlyle, \$150; Mr. A. C. Hutchison, \$20; Mr. C. J. Fleet, \$25; Alex. McFee, \$25; Crosby Steam Gauge & Valve Co., \$25; James L. Tighe, \$50; Waddell & Hedrick, \$50; Canadian General Electric Co., \$200.

#### RESIGNATIONS, NEW APPOINTMENTS AND CHANGES OF APPOINTMENT.

In the Faculty of Medicine:—

J. G. McCarthy, M.D., Demonstrator in Anatomy, was appointed Lecturer in Anatomy.

D. J. Evans, M.D., Demonstrator in Obstetrics, was appointed Lecturer in Obstetrics.

J. Alex. Hutchison, M.D., Demonstrator of Clinical Surgery, Lecturer in Clinical Surgery.

J. W. Stirling, M.D., was appointed Lecturer in Ophthalmology.

A. G. Nicholls, M.D., Demonstrator in Pathology, was appointed Lecturer in Pathology.

J. M. Elder, B.A., M.D., Lecturer in Medical and Surgical Anatomy, was appointed Lecturer in Surgery and Clinical Surgery.

Wyatt Johnston, M.D., Assistant Professor in Public Health and Preventive Medicine, was appointed Assistant Professor of Hygiene.

N. D. Gunn, M.D., Demonstrator in Histology, was appointed Lecturer in Histology.

In the Faculties of Arts and Applied Science:—

H. M. Jacquays, M.A., M.Sc., was appointed Lecturer in Mechanical Engineering.

F. W. Draper, S.B., was appointed Lecturer in Metallurgy.

Nevil N. Evans, M.A.Sc., Lecturer in Chemistry, was appointed Assistant Professor of Chemistry.

J. E. LeRossignol, M.A., Ph.D., was appointed Lecturer in Economics.

S. B. Leacock, Ph.D., was appointed Lecturer in Political Science.

#### SCIENCE.

J. B. Segall, Ph.D., was appointed Lecturer in French, in the place of M. Ingres, B-es-L., resigned.

Miss M. L. Milhau was appointed Resident Tutor in French and German in the Royal Victoria College.

Miss Vendla M. Holmstrom was appointed Director of the Gymnasium in the Royal Victoria College.

L. R. Holme, B.A., was appointed Tutor in English.

Howard T. Barnes, D.Sc., was appointed Lecturer in Physics.

A large number of Demonstrators have also been appointed in the several Faculties.

#### FACULTY OF LAW.

The number of students registered in this Faculty is 62, all of whom are taking the full course.

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The alterations in the Redpath Library have permitted arrangements to be made by which the accommodation for reference to the Law Library will be greatly improved.

#### FACULTY OF MEDICINE.

The total number of students enregistered in the Faculty of Medicine for the session 1899-1900 was 478, made up as follows:--

First Year.. . . . .	135
Second Year.. . . . .	126
Third Year.. . . . .	101
Fourth Year.. . . . .	95
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	457
Of which there were from Quebec.. . . . .	134
Ontario.. . . . .	134
New Brunswick.. . . . .	53
British Columbia.. . . . .	9
United States.. . . . .	52
Jamaica.. . . . .	2
Magdalen Islands.. . . . .	1
Nova Scotia and Cape Breton.. . . . .	34
Prince Edward Island.. . . . .	23
Manitoba and Northwest Territories.. . . . .	4
Newfoundland.. . . . .	9
Ireland.. . . . .	2
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	457
Graduates in attendance.. . . . .	21
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Grand Total.. . . . .	478

Seventy-five students of the Fourth Year obtained the degree of Doctor of Medicine, and 128 new students began the study of medicine this year.

In addition to the regular graduate courses which have been carried on during the months of May and June of each year since 1896, a special graduate course has been instituted in Public Health and Sanitary Science. Candidates taking this course must possess a degree in medicine, or other qualifications for practice, and attend a six months' course in labora-

tory work bearing upon Sanitary Science and Preventive Medicine, and also six months' practical work in sanitation, inspection of food, etc.

Nine graduates in Medicine attended this course last session, of whom four qualified for the Diploma of Public Health. The various Health Boards of the Provinces, as well as the Department of Quarantine for the Dominion, have given the Faculty great encouragement in continuing the work of educating trained sanitarians.

Advanced special courses in State Medicine, leading to certificates of proficiency in Legal Medicine, have proved popular among the students of the Final Year, and no fewer than 13 members of the graduating class were entitled to these special certificates of proficiency in this department of graduation.

The munificent donation of \$100,000 for the purpose of extending the medical buildings and increasing the laboratory facilities of the Faculty, which was given by Lord Strathcona in the names of Lady Strathcona and the Honourable Mrs. Howard in 1898, is this year being applied to the purposes for which it was intended. The Faculty, after careful consideration, has decided upon a plan of buildings, and during the summer of 1900 began the construction of the same.

They replace the middle wing of the old medical buildings, which was erected in 1885, and also the Harrington dwelling, which has been used since 1893 as the pathological department. The buildings, as planned, will more than double the laboratory and lecture room accommodation of the department of medicine. They are so grouped that they are capable of extension, to form part of a scheme of complete reconstruction, which will replace the irregular buildings now in use by a symmetrical stone structure.

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A portion only of the building is to be constructed this year; the remainder is under tender for construction during the summer of 1901. The part of the old building to be replaced was selected so as not to seriously interfere with the regular teaching work of the session. Some of the new rooms will be available immediately after the Christmas holidays, and the entire building will be complete for the beginning of the session 1901-1902.

#### FACULTY OF ARTS.

The total number of students (men and women) in the Faculty for the session 1899-1900 was 315, of whom 171 were Undergraduates.

Of the 171 Undergraduates, 128 were men and 43 women. These were distributed among the several years as follows:—

First Year . . . . .	48, viz.	35 men and	13 women.
Second Year . . . . .	37 "	23 "	and 14 "
Third Year . . . . .	43 "	37 "	and 6 "
Fourth Year . . . . .	43 "	33 "	and 10 "
Graduates . . . . .	11 "	1 "	and 10 "
Partials . . . . .	105 "	54 "	and 51 "

The new curriculum of studies referred to in the last Annual Report was in operation last session for the second year class, and is now in operation for the third year. This necessitated the inauguration of new courses in the Faculty of Arts, in Economics and Political Science, Art and Archaeology, Roman Law, Jurisprudence, Constitutional Law and History, Anatomy, and Physiology. To provide for the first two courses, new appointments were made by the Board of Governors; the other courses are taken in the Faculties of Law and Medicine.

FACULTY OF APPLIED SCIENCE.

During the period covered by this report the following degrees have been conferred in this Faculty:—

	B.Sc.
In Civil Engineering.. . . . .	3
In Electrical Engineering.. . . . .	10
In Mechanical Engineering.. . . . .	8
In Mining Engineering.. . . . .	12
In Pract. Chemistry.. . . . .	1
Ad eundem.. . . . .	2
M.Sc.. . . . .	8
D.Sc.. . . . .	1

Prizes were presented by Messrs. W. A. Carlyle, A. McFee, A. T. Taylor, E. B. Greenshields, A. C. Hutchison, J. M. McCarthy, C. J. Fleet, Fraser & Chalmers, Robert Gardner, Mining Association of the Province of Quebec, Messrs. Waddell & Hedrick, and Dr. A. F. Mason.

The number of students (undergraduates and partials) in the Faculty for session 1899-1900 was 236, 8 of whom were taking a Graduate Course, and 1 was a lady taking some of the Architectural lectures, etc.

These students came from various districts as under:—

	First	Second	Third	Fourth	Grad.	Partials taking subjects in several years.	Total
Quebec.. . . . .	36	21	20	15	3	6	101
Ontario.. . . . .	15	13	16	16	3	2	65
Nova Scotia.. . . . .	5	4	5	4	2		20
New Brunswick .. . . . .	2	3	2	1			8
Prince Ed. Island	1	2	1	1			5
Newfoundland .. . . . .	3	3					6
British Columbia .. . . . .	6	1	2	1		2	12
Manitoba.. . . . .		1					1
England .. . . . .						1	1
Scotland.. . . . .						1	1
Ireland.. . . . .						1	1
United States.. . . . .	6	2	1	1			10
Mexico .. . . . .				1			1
Bermuda.. . . . .			2				2
West Indies.. . . . .	1						1
Hawaiian Islands.. . . . .				1			1
	75	50	49	41	8	13	236

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FACULTY OF COMPARATIVE MEDICINE AND  
VETERINARY SCIENCE.

The total number of students of the Faculty of Comparative Medicine and Veterinary Science for the Session was 14. There were 5 Undergraduates in the First year, 4 in the Second year, and 5 in the Third year.

The work of the students in this Faculty during the past Session has been uniformly satisfactory, and the hope is again expressed that, ere another Session comes round, something will be done towards placing the Faculty in a state of efficiency commensurate to its importance to the country.

AFFILIATED COLLEGES.

At the close of the Session the affiliation of Morin College to the University was terminated. Eight students attended the course.

Stanstead Wesleyan College, which is affiliated for the first two years in Arts, has four lecturers. Three students took the course during the session.

Vancouver College, B.C., is affiliated for the first year in Arts. It had 7 students taking the course during the Session.

THEOLOGICAL COLLEGES.

The affiliated Theological Colleges have a large number of students, of whom many are undergraduates of the University, distributed as follows:— Presbyterian 10; Diocesan, 14; Wesleyan, 2; Congregational, 2, with 13 graduates in the Presbyterian, 8 in the Diocesan, 1 in the Wesleyan, and 4 in the Congregational College, besides graduates from other universities.

	Total	Under-	Partials.	Graduates.
	Students.	graduates.		
Presbyterian .. ..	59	10	36	13
Diocesan.. .. .	22	14		8
Wesleyan.. .. .	21	2	15	1
Congregational.. ..	21	2		4

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### THE MCGILL NORMAL AND MODEL SCHOOLS.

During the Session 1899-1900 145 teachers-in-training were enrolled in the Elementary Kindergarten and Model School Classes of the Normal School.

At the close of the Session there were conferred in the several classes 123 diplomas, eight of these being Academy diplomas.

#### GYMNASIUM.

The following are extracts from the report of the Medical Examiner and Instructor, Dr. R. Tait Mackenzie:

The attendance at the gymnastic classes continues much smaller than it should be, the members being under one hundred. This is due to conflicting lecture hours, but more particularly to the defective heating, dressing-room and bathing accommodation.

The physical examinations continue to increase in number, so that the work was done principally at night. Last session one hundred and thirty-eight men were examined.

The work could be most profitably extended to include a physical examination of the whole first year class, the necessary increase in the hours of attendance being about two daily. More advanced work could thus be carried on as well as more special work for those requiring individual attention.

Owing to the change in arrangements for the occupation of the building, the students now have the continuous use of the gymnasium floor and dressing-rooms, a great improvement.

The work at the Royal Victoria College was successfully inaugurated last session, and is being carried on by Miss Vendla M. Holmstrom. This year the classes were preceded by a lecture on Personal Hygiene open to all the students. Those requiring it will have special medical advice and care to correct defects in development and improve the general health.

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## REPORT OF THE LIBRARY COMMITTEE.

June 23, 1899, to June 9, 1900.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—During the past twelve months the Library has lost two warm supporters who have long been identified with it. Sir William Dawson, who for years presided over the meetings of this Committee, and whose guiding hand was felt here, as it was throughout the University, kept the Library in mind even after his retirement from active work on its behalf, and rarely allowed a week to pass without contributing something to its collections.

Mr. Hugh McLennan was, to the time of his decease, an active member of this Committee. His wise counsel was sought, and always cheerfully given in every matter of importance to the Library. In Mr. McLennan wisdom, breadth of view and of interest were no less notable than those qualities which endeared him personally to all who knew him. His loss is a severe one indeed.

It will be remembered that in January last Mrs. Peter Redpath, of Chislehurst, England, intimated to the University her readiness to provide space for the more rapid growth of the Library, by enlarging the present Stack. Mrs. Redpath is now executing her generous purpose, and the result is the beautiful addition already nearing completion, which will in capacity be nearly double that of the old Stack, and comes just as the problem of securing further accommodation for books was growing urgent. This, the most important gift, by far, that the Library has received since it moved into its present quarters, is therefore no less timely than generous. Mrs. Redpath has also continued her annual donation of \$5,000 towards the maintenance of the Library, and has presented numerous costly books.

The meetings of the American Library Association, held at the University early in June last, were eminently successful, both in point of attendance and of interest. About four hundred and sixty members were present, upwards of thirty of whom were Canadians. The matter of expense alone prevented a considerably larger Canadian attendance. Unhappily, the means at the disposal of most Libraries in the Dominion are as yet inadequate to the payment of large stipends. Hence, the employes of these Libraries cannot undertake costly journeys at their own charges, nor can the Libraries assist them to do so, a course which is very frequently adopted now in the United States.

Similar conditions operated against a large attendance from England; yet the Library Association of the United Kingdom was represented by three members, one of whom crossed the sea for the express purpose of taking part in the Conference.

Co-operative cataloguing on the lines indicated in last year's report has during the year been extended to the Library of the Architectural Association. This is the third Library to co-operate.

Eleven University Papers have been published during the year.

The additions to the Library from June 23, 1899, to June 4, 1900, aggregate 6,373 bound volumes, the largest number yet recorded in any one year. Of these more than five-sixths were gifts. They include the Ribbeck Library, presented by Sir William Macdonald, and acknowledged in last year's report, although the books were not received in time to be entered last year. It should be stated here, however, that the collection has proved even more valuable than was anticipated.

Three plates which had always been missing from the set of Audubon's Birds of America, that the Library possesses, have been supplied by the Graduates' Society. It is to be hoped that two other plates which are needed to complete the entire set may before long be obtained.

The Library is indebted to the Trustees of the British Museum for volumes of its general Catalogue and Catalogues of special collections, kindly presented during the year; to the Colonial Office, for Blue Books relating to the Transvaal, presented at the instance of the Chancellor of the University; to the Department of Mines, Cape of Good Hope, British Guiana, New South Wales, and other Colonies, for their Reports. The British and Foreign Bible Society has presented the Library with a complete set of its Reports; and Mr. George Iles has given a number of exceedingly interesting autographs, including a letter of Robert Louis Stevenson. He has also given a copy of the rare Stevenson pamphlet on Father Damien, published at Sydney, N. S. W., in 1890. A copy of this brought over twenty-one pounds at a sale in London last summer.

Messrs. George Bell & Sons have presented not a few works of their own press; Mr. Charles A. Hanson has continued his donation of the *London Daily Times*; Mr. John R. Dougall has continued his donation of the *Montreal Daily Witness*; the McGill College Book Club and the Graduates' Society have, as in former years, placed the Library under obligations by their gifts. Appended hereto is a complete list of the donors of the year.

The number of volumes presented to the Library	
from June 23, 1899, to June 9, 1900, was.. . . .	5,367
Purchases during same period.. . . .	996
Exchanges.. . . .	31
Reported lost in last report, and since returned..	2
	<hr/>
	6,396
Deduct 20 volumes lost.. . . .	20
"    3    "    worn out and withdrawn..	3    23
	<hr/>
Net gain for year.. . . .	6,373
There were in the Library on June 23, 1899.. . .	51,144
	<hr/>

\*Total on June 9, 1900.. . . . 57,517

In addition to maps, charts, photographs, pamphlets, etc., etc. The usual conspectus of reading and attendance is appended.

\*Apart from 25,000 volumes in departmental libraries.

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It should be noted, however, that the Library was closed during the month of August to facilitate the alterations and improvements in connection with the addition to the Stack referred to above.

The number of readers has been appreciably affected by the opening of the Royal Victoria College with its well stocked reading-room. After allowing for this, and for the time during which the Library was closed, the attendance is about the same as last year.

Respectfully submitted,

On behalf of the Library Committee.

(Signed), C. H. GOULD.

University Librarian.

CONSPECTUS OF READING AND ATTENDANCE FROM JUNE 23, 1899,  
TO JUNE 9, 1900.

QUARTER ENDING	READERS.	VISITORS.	TOTAL.	BOOKS FOR HOME USE.
June 23 to Oct. 9, 1899..	1,932	255	2,187	1,374 vols.
Oct. 10 to Dec. 11, 1899..	4,407	32	4,439	1,906 "
Dec. 12, '99 to Feb. 11, 1900..	3,201	25	3,226	1,400 "
Feb. 12 to Apl. 7, 1900..	3,802	33	3,835	1,766 "
Apr. 8 to June 9, 1900..	1,219	21	1,240	939 "
	14,561	366	14,927	7,385 "

NOTE.—The use of books in the building has become so large that it cannot be accurately recorded. In this report no account is taken of the reading in departmental libraries. Visitors are rarely asked to register; hence the total under this heading represents but a fraction of those who have seen the Library.

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	Volumes.	
	Bound.	Unbound.
Chandler, Seth C., Cambridge, Mass. . . . .		1
Chicago, University of . . . . .		4
Clarke, W. Wirt, & Son, Publishers. . . . .	1	
Cleveland Public Library. . . . .		1
Colby, C. W., Ph.D. . . . .	1	
Colomb, Sir J. C. R. . . . .	1	
Columbia University. . . . .		2
Coussirat, Rev. Dr., and others. . . . .		4
Cramp, Thomas . . . . .	2	
Crosskill, W. H., Legis. Librarian, P. E. I. . . . .		1
Dartmouth College. . . . .		1
Dawson, Lady. . . . .		5
Deyrolle, Les fils d'Emile . . . . .		1
Dougall, Miss Lily . . . . .		1
Drummond, Miss . . . . .	2	
Durham College of Science. . . . .	2	
Durham University. . . . .	1	
Durley, R. J. . . . .	1	
Edinburgh University. . . . .	1	
Emmet, T.A., M.D. . . . .	1	
Fairbairn, Miss Helen . . . . .	2	2
Field Columbian Museum, Chicago . . . . .		1
Forbes Public Library, Northampton, Mass. . . . .		1
Fraser Institute . . . . .		2
Frederiks University. . . . .		2
Gairdner, Miss . . . . .	20	
Geological Society of America. . . . .		1
Georgetown University . . . . .		1
Glasgow, University of . . . . .	4	
Godrycz, Rev. J. . . . .	1	
Going, Miss. . . . .	3	2
Gould, C. H. . . . .	2	2
Greene, Mrs. E. K. . . . .	10	
Hanson, C. A. . . . .		3
Hartford Theological Seminary. . . . .		3
Harvard University. . . . .	1	2
Holton, Edward. . . . .	69	
Holyoake, G. J. . . . .	3	
Hunterian Coin Catalogue Fund, Trustees of. . . . .	1	
Idaho University. . . . .		1
Iles, George. . . . .	11	
Illinois Bureau of Labor Statistics. . . . .	1	
Illinois—Live Stock Commissioners. . . . .	1	
Institute of Chemistry of Great Britain and Ireland. . . . .		1
Institute of Civil Engineers, London. . . . .	4	1
Institute of Engineers and Shipbuilders in Scotland. . . . .	1	
Institute of Mechanical Engineers, London. . . . .		2
Iowa—Bureau of Labor Statistics. . . . .	1	
Iowa—Geological Survey. . . . .	1	

	Volumes.	
	Bound.	Unbound.
Iowa, State University of.. . . . .		1
Ipswich Historical Society.. . . . .	1	
John Crerar Library, Chicago.. . . . .		1
John Rylands Library, Manchester.. . . . .	3	
Johns Hopkins University.. . . . .		3
Kings College, London.. . . . .	1	
Laval University.. . . . .		1
Law Society of Upper Canada.. . . . .	1	
Leigh-Browne Trust.. . . . .	1	
Leland Stanford Junior University.. . . . .		1
Lewis, Mrs. A. E.. . . . .		2
Library Bureau, Boston.. . . . .	1	
Literary and Historical Society of Quebec.. . . . .	1	
Liverpool, City of.. . . . .	1	1
London University.. . . . .	1	
Macaulay, R.. . . . .	10	
Macdonald, Sir W. C.. . . . .	3256	96
MacDonell, Mrs. R. L.. . . . .	11	
MacFarlane, David.. . . . .	1	
McGill College Book Club.. . . . .	229	12
"McGill Fortnightly," Editors of.. . . . .		2
"McGill Outlook," Editors of.. . . . .		1
McGill University, Secretary's Office.. . . . .	6	2
McGill University Graduates' Society.. . . . .	15	5
Mackay, Miss.. . . . .		1
Mackenzie, Tait, M.D.. . . . .	2	
McLennan, Francis.. . . . .	32	1
McLeod, C. H.. . . . .		1
Maine—Labor Bureau.. . . . .	1	
Manitoba—Queen's Printer.. . . . .	1	
Manitoba University.. . . . .	1	
Maryland—Weather Service.. . . . .	1	
Maryland Geological Survey, through W. B. Clark, Johns Hopkins University.. . . . .	1	
Mason College, Birmingham.. . . . .	1	
Massachusetts Bureau of Labour Statistics, through C. B. Tillinghast.. . . . .	3	2
Massachusetts Free Public Library Commission.. . . . .	1	
Massachusetts Institute of Technology.. . . . .		1
Massachusetts Board of Railroad Commissioners.. . . . .		1
Massachusetts—State Board of Education.. . . . .	23	4
Massachusetts—State Board of Health, through C. B. Tillinghast.. . . . .	3	1
Master Car Builders' Association, Chicago.. . . . .	1	
Melbourne University.. . . . .	1	
Michigan, University of.. . . . .		1
Minnesota, Natural History Survey of.. . . . .	1	
Missouri Botanical Garden.. . . . .	2	
Montreal, City of.. . . . .	1	
Montreal, City Surveyor.. . . . .		1
Morrin College.. . . . .		1

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		Mount Allison University.. . . . .	1	1
1		National Electric Light Association.. . . . .	1	1
1		Natural History Society, Montreal.. . . . .	1	1
3		Natural History Society, Montreal.. . . . .	1	2
1		New Brunswick University.. . . . .	1	1
1		New England Cotton Manufacturers' Association.. . . . .	1	1
1		New Jersey—Geological Survey.. . . . .	1	1
1		New South Wales—Department of Mines.. . . . .	1	1
2		New York General Society of Mechanics and Tradesmen.. . . . .	1	2
2		New York Metropolitan Museum of Art.. . . . .	1	1
1		New York Public Library.. . . . .	1	1
1		New York State Library.. . . . .	1	2
96		Newark Free Public Library.. . . . .	1	1
12		Newberry Library, Chicago.. . . . .	1	1
2		Newfoundland—Colonial Secretary.. . . . .	1	1
1		Newfoundland—Queen's Printer.. . . . .	1	1
2		Newnham College.. . . . .	1	1
5		Norway, Department of Religion and Education.. . . . .	2	2
1		Nova Scotia—Queen's Printer.. . . . .	2	3
2		Nova Scotia—Superintendent of Education.. . . . .	1	1
1		Nova Scotia Historical Society.. . . . .	1	1
2		Nova Scotian Institute of Science.. . . . .	1	1
5		Ohio—Labour Bureau.. . . . .	1	1
1		Ohio Institute of Mining Engineers.. . . . .	5	1
1		Ontario—Bureau of Agriculture.. . . . .	1	1
1		Ontario—Minister of Education.. . . . .	2	3
1		Ontario—Bureau of Mines.. . . . .	2	7
1		Ontario—Queen's Printer.. . . . .	7	2
2		Ontario Historical Society.. . . . .	2	2
1		Ottawa Field Naturalists' Club.. . . . .	5	1
1		Ottawa Valley Graduates' Society.. . . . .	1	1
4		Owens College, Manchester.. . . . .	2	2
1		Pennsylvania—Bureau of Mines.. . . . .	1	2
1		Pennsylvania University.. . . . .	1	1
1		Penny, E. Goff.. . . . .	17	1
2		Perkins Institute and Mass. School for the Blind.. . . . .	1	1
1		Porter, J. Bonsall, Ph.D.. . . . .	1	1
1		Prince Edward Island—Queen's Printer.. . . . .	1	1
4		Princeton University.. . . . .	1	1
1		Protestant Council of Public Instruction, Quebec.. . . . .	1	1
1		Providence, R.I., City Engineer.. . . . .	1	1
1		Public Library of the District of Columbia, Washington.. . . . .	10	1
1		Quebec—Provincial Government.. . . . .	1	1
1		Quebec—Provincial Government, through Hon. G. W. Stephens.. . . . .	37	1
1		Quebec—Superintendent of Public Instruction.. . . . .	2	1
1		Queen's College, Cork.. . . . .	2	1

	Volumes.	
	Bound.	Unbound.
Queen's College, Galway.. . . . .	2	
Redpath, Mrs. Peter.. . . . .	39	14
Reid, Miss H. R. Y.. . . . .	3	
Roberts, The A. & P. Co.. . . . .	1	
Royal Astronomical Society, London.. . . . .		2
Royal Colonial Institute.. . . . .	1	
Royal Institute of British Architects.. . . . .	1	28
Royal Society of Canada.. . . . .	2	
Royal Society of London.. . . . .		3
Royal Victoria Hospital, through J. J. Robson..		1
Royal University of Ireland.. . . . .	2	
Royal University of Pisa.. . . . .		2
St. Andrew's University.. . . . .	1	
St. Mary's College, through Rev. Father Jones.	1	
Salem Public Library.. . . . .		1
Sauveur, Albert.. . . . .		2
Sawyer, J.. . . . .	1	
Smith College, Northampton.. . . . .		2
Social Study Club, through Mrs. Cox.. . . . .	4	4
Sotheran, H., & Co., London.. . . . .	3	
South Australian School of Mines.. . . . .		1
"Specifications for Architects," Publishers of..	1	
Starke, R. G.. . . . .	1	
Stratheona, Lord.. . . . .	642	73
Toronto Public Library.. . . . .		1
Toronto University.. . . . .		2
Trinity College, London.. . . . .	1	
Tulane University.. . . . .		1
Union Theological Seminary, New York.. . . . .	1	1
United States—Department of Agriculture.. . . . .	3	
United States—Coast and Geodetic Survey.. . . . .	1	
United States—Education Bureau.. . . . .	2	
United States—Geological Survey.. . . . .	21	5
United States—Department of the Interior.. . . . .	9	
United States—Department of Labour.. . . . .	2	
United States—Treasury Department.. . . . .	6	
United States—War Department.. . . . .	6	
United States Congressional Library.. . . . .	1	
United States—National Museum.. . . . .	1	
Université de Liege.. . . . .		1
University College, Bristol.. . . . .	1	
University College, Dundee.. . . . .		1
University College, Nottingham.. . . . .	1	
University College of North Wales.. . . . .	1	
University College of South Wales, Monmouth- shire.. . . . .	1	
Volta Bureau.. . . . .	1	
Walton, F. P.. . . . .		1
Wellesley College.. . . . .		1
Wesleyan Theological College.. . . . .		1
Wheeler, Rev. H. L., Watertown, Mass.. . . . .	7	3

	Volumes.	
	Bound.	Unbound.
Wise, Leo, & Co., Cincinnati.. . . . .	9	
Wolf, C. G. L., M.D.. . . . .		1
Women's Art Association of Canada, through Miss E. Denison.. . . . .		1
Worcester Polytechnic Institute.. . . . .		1
Yale University.. . . . .	1	1
Yorkshire College, Leeds.. . . . .	1	
Zoological Society of London.. . . . .		1

RECEIVED PRIOR TO JUNE 23, 1899, BUT ENTERED  
SUBSEQUENTLY.

	Volumes.	
	Bound.	Unbound.
Canada—Department of Agriculture.. . . . .	6	
Canada—Geological and Natural History Survey	1	
Canadian Mining Institute.. . . . .		1
Columbia University.. . . . .		1
Dawson, Sir J. W.. . . . .		1
"Gazette," The Montreal.. . . . .		2
Harrington, B. J., Ph.D.. . . . .		1
Institute of Civil Engineers, London.. . . . .		3
Macdonald, Sir W. C.. . . . .	2	
McLennan, Francis.. . . . .		15
Notman, William.. . . . .		1
Nova Scotia—Queen's Printer.. . . . .		1
Nova Scotian Institute of Science.. . . . .		1
Peck, Mrs. James.. . . . .		1
Quebec—Legislative Assembly.. . . . .		4
"Star," The Montreal.. . . . .		4
Source Uncertain.. . . . .	1	

IN EXCHANGE FOR UNIVERSITY PUBLICATOINS.

	Volumes.	
	Bound.	Unbound.
Aberdeen Association.. . . . .	1	
American Academy of Arts and Science.. . . . .	1	
Boston Public Library.. . . . .		4
Boston Society of Natural History.. . . . .		1
Columbia University, New York.. . . . .		1
Field Columbian Museum, Chicago.. . . . .		1
London Society of Arts.. . . . .		1
New South Wales Public Library.. . . . .	1	
New York Academy of Science . . . . .		2

	Volumes.	
	Bound.	Unbound.
New York Public Library.. . . . .		1
Newark Free Public Library.. . . . .		1
Paris—Museum d'Histoire Naturelle . . . . .		1
Royal Society of London.. . . . .		1
Royal University of Pisa.. . . . .		1
Smithsonian Institution.. . . . .	1	
Stockholm, Geological Society of.. . . . .		1
Washington Philosophical Society.. . . . .	2	4
	6	<u>20</u>

## IN EXCHANGE FOR DUPLICATE VOLUMES.

	Volumes.	
	Bound.	Unbound.
Adams, F. D., Ph.D.. . . . .	2	3

The Library has also to acknowledge the receipt of 1 engraving, from Rev. H. L. Wheeler, Watertown, Mass.; 3 photographs, from the McGill Football Club, 1899; 20 maps, from Mr. Francis McLennan; 1 photograph, from Mr. C. H. Gould; 1 photograph, from Mrs. R. L. MacDonell; 1 war chart, from the Montreal "Star"; 2 pamphlets, from the Wisconsin Free Library Commission; 2 photographs, from Dr. J. G. Adami; and over 4,000 pamphlets from Sir William C. Macdonald, besides 41 others from various donors.

## REPORT OF THE PETER REDPATH MUSEUM.

For the Year 1899-1900.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—Your Committee beg to report that during the year important repairs and improvements of the building have been carried out, including varnishing of the outside of the window-sashes and frames and the caulking of spaces between the frames and the stone walls. This caulking will, it is hoped, render the Museum warmer and less draughty than it has been in the past. The side porch and front steps have also been repaired and several other long-needed repairs carried out inside the building. Through the kindness of the Board of Governors a new case has been provided for the skeletons of mammals at a cost of \$215.00.

During the past summer Dr. MacBride has visited the Pacific Coast and also the Lower St. Lawrence and Bay of Fundy, and has made interesting collections of marine animals, which will be available for the Museum. Dr. Adams has also secured valuable specimens for the geological collection while travelling in France and Spain.

During the year a large amount of work has been accomplished by Edmond Ardley, Museum Assistant, including the cleaning and relabelling of all the palaeozoic fossil plants and the arranging and labelling of the collection of birds' eggs, of which a catalogue has also been prepared. The specimens of birds have been gone over and the preservation of the collection of insects has been ensured by fresh treatment with corrosive sublimate.

The importance of the geological collections is evidenced by the fact that during the past few months a number of scientific men have come here specially to study the specimens from certain geological horizons. Among these visitors may be mentioned Dr. Clark, of the State Museum, Albany; Dr. Williams, Professor of Geology in Yale University; Mr. Schuchart, of the National Museum, Washington; Mr. J. B. Woodward, of the New York Geological Survey, and Dr. Ami, of the Canadian Geological Survey, Ottawa.

The privileges of the Museum have been taken advantage of by classes from a number of schools, including the Montreal High School, The Trafalgar Institute, the Westmount Academy and the Ville Marie and Mont Ste. Marie Convents. The total number of visitors for the year has been 2,700.

The list of donations for the year is appended, the most important gifts probably being the mammoth tusk from Dawson City, presented by Mr. Auzias Turenne, the collection of birds' eggs presented by Mr. G. P. Cole, and the collection of West African Lepidoptera presented by Dr. Adami. The Lepidoptera were unnamed and have been sent to England for identification.

Your Committee are again indebted to Mrs. Redpath, of the Manor House, Chislehurst, for the generous contribution of \$1,500.00 for the purposes of maintenance. In so far as the purchase of specimens is concerned, however, the Museum is practically without funds, and in this respect probably holds a unique position among the University Museums of the Continent.

The whole respectfully submitted,

(Signed) B. J. HARRINGTON,

On behalf of the Committee.

DONATIONS TO THE PETER REDPATH MUSEUM, FOR  
THE YEAR 1899-1900.

- From Mr. H. K. Lee, Montreal, specimens of Graphite, Pyroxine and Scapolite, from Harrington, P. Q.
- From Dr. J. Bonsall Porter, Montreal, 3 specimens of Coal Plants, from Wilkesbarre, Pa.
- From Dr. F. D. Adams, Montreal, specimen of *Lingula*, from the Chazy Formation, Lachute, Que. Specimen of *Scolithus*, from the Potsdam Formation, Lachute, Que. Specimen of Phosphorite, from Palatka, Florida. Specimen of "Dry Phosphate," from Ashley River, S. C.
- From Mr. G. Percy Cole, Montreal, collection of Eggs of Canadian Birds (225 specimens, representing 75 species).
- From Mr. J. C. F. Randolph, New York, through Mr. Charles Moison, B.A., specimen of Atacamite, from Chili.
- From Mr. R. Auzias-Turenne, French Consular Agent, at Dawson City, through Mr. Francis McLennan, B.C.L., Tusk of Mammoth, from Dawson City.
- From Mr. J. T. Todd, B.A., British Columbia, 3 specimens of Middle Cambrian Trilobites, from Field, B. C.
- From Mr. F. Connolly (student) Fossil Fish, from the Trias Formation, Boonton, New Jersey.
- From L. A. Herdt, M. Sc., Montreal, specimen of Wasp's Nest.
- From Mr. E. Kenney, St. Vincent de Paul, Slab with *Endoceras proteiforme*, from the Chazy Formation, St. Vincent de Paul.
- From Dr. J. G. Adami, Montreal, 150 specimens of Lepidoptera, collected in the Sierra Leone region (West Africa) by the late Captain Ellis Leach (West Indian Regiment.)
- From Professor A. E. Verrill, Yale University, specimens of *Bela*, from Eastport, Maine, and other localities.

REPORT OF THE COMMITTEE OF MANAGEMENT OF  
THE MACDONALD PHYSICS BUILDING.

For the Year 1899-1900.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—The number of students working in the Macdonald Physics Building has continued to increase rapidly, partly in consequence of the transfer of Physics to the First and Second Years in the curriculum of the Faculty of Applied Science, involving temporarily a double class, but partly also through the increase in the entry of the First Year.

The total number for the ensuing year will be 299, viz., 185 belonging to the Faculty of Applied Science, and 114 from the Faculty of Arts.

To overtake the work an additional Demonstrator was appointed, and by improved arrangements each student was enabled to carry out nearly double the amount of Practical Work attempted in previous years.

Dr. Howard T. Barnes, a graduate of the McGill University, and Joule Student of the Royal Society, formerly Demonstrator, and recently appointed Lecturer in Physics, has specially distinguished himself during the summer by presenting personally to the Royal Society of London the results of two years' Research, conducted at McGill University, on the Specific Heat of Water between  $0^{\circ}$  C and  $98^{\circ}$  C. This piece of work has been thought so important as to be taken for the basis of one of the Reports on the State of Physics, drawn up by leading Physicists at the request of the International Congress of Physicists at the Paris Exhibition.

It has not been found necessary to purchase much new apparatus, but a considerable amount has been constructed by the Instrument Maker.

In the spring, the large Induction Coil by Ruhnrkorff (ten-inch spark) which has been incessantly employed since the discovery of the X Rays, broke down. On this being brought to the knowledge of Sir W. C. Macdonald, he at once presented the Laboratory with two large new Coils, giving sparks of 18 inches and 10 inches respectively. During the summer, the break in the insulation of the old Coil was located and repaired, and it is now giving a spark of 11 inches.

Sir W. C. Macdonald has also contributed a special sum of \$2,000 for the year 1900-1901 to meet the need of extra Demonstrators, and for other purposes.

Appended is a list of the Researches completed during the year, or now in progress.

The whole respectfully submitted,

(Signed),

JOHN COX.

(Secretary to the Committee.)

## PAPERS PUBLISHED DURING THE YEAR.

1. On the Progress of Physics during the XIXth Century—Presidential Address to Section VI of the Royal Society of Canada. John Cox.
2. A Radioactive Substance emitted from Thorium compounds, by E. Rutherford, *Phil. Mag.*, Jan., 1900.
3. Radioactivity produced in substances by the action of Thorium compounds, E. Rutherford, *Phil. Mag.*, Feb., 1900.
4. Energy of Rontgen Rays and Becquerel radiation and the energy required to produce an ion, E. Rutherford and R. K. McClung, *Proc. Royal Society*, June 21, 1900.
5. On the Capacity for heat of water between freezing and boiling points with the determination of the mechanical equivalent of heat in terms of the international electrical units, Dr. H. T. Barnes, *Proc. Royal Society*, June 21, 1900.
6. Relation of the electrical and thermal units, Dr. H. T. Barnes, *Trans. Royal Society of Canada*.
7. On the Clark cell as a transition cell of the fourth type, Dr. H. T. Barnes, *Jour. Phys. Chem.*, Jan., 1900.
8. On a hermetically sealed type of Clark Standard Cell, Dr. H. T. Barnes, *Phys. Rev.*, May, 1900.
9. On the Western Cell as a transition cell and a standard of electromotive force with a determination of the ratios to the Clark cell, Dr. H. T. Barnes, *Journal Phys. Chem.*, May, 1900.
10. Reply to Dr. E. Cohen on the theory of the transition cell, Dr. H. T. Barnes, *Journ. Phys. Chem.*, April, 1900.
11. On the discontinuity in the density curves of certain hydrated salts, Dr. H. T. Barnes, *Trans. Royal Society of Canada*.
12. On the influence and solubility of mercurous sulphate in the Clark and Western cells, Dr. E. Cohen and Dr. H. T. Barnes. *Loreng's Portschrift*.

## PAPERS IN COURSE OF PUBLICATION.

13. Distribution of Alternating Currents in cylindrical conductors, Prof. Rutherford and J. W. Fraser.
14. Damping of electrical oscillations, Miss Brooks.
15. Transitive temperature of zinc sulphate by a new electrical method, Dr. H. T. Barnes.

## INVESTIGATIONS NOW IN PROGRESS.

16. On the absolute determination of the E M F of a Clark cell, R. O. King.
17. A new electrical method for determining thermal conductivity of metals, R. O. King and R. G. Duncan.
18. Variations of specific heat of mercury with temperature, Dr. H. T. Barnes.
19. Density of ice, Dr. H. T. Barnes.
20. Variations of the rate of recombination of gaseous ions with the pressure, R. K. McClung.
21. Relation between conductivity and pressure in a gas exposed to Rontgen rays, Prof. E. Rutherford.

22. On the energy required to produce ions in different gases, Prof. E. Rutherford.
23. Investigations on radioactive substances, Prof. E. Rutherford.
24. A new method of determining the distribution of velocity of fluids in pipes, Dr. H. T. Barnes.

#### MACDONALD CHEMISTRY AND MINING BUILDING.

Although the Chemistry and Mining Building has no Committee which reports directly to Corporation, it may be of interest to append the following Report by the Director, Dr. Harrington:—

During the past year the facilities of the Macdonald Chemistry and Mining Building have been taken advantage of by an increasing number of students from all parts of the Dominion.

Hitherto the staff in the Chemical Department has been altogether inadequate, but the liberal endowment provided by Sir William Macdonald has rendered it possible to make important changes in and additions to the teaching body.

In the Chemical Department important additions have been made, the equipment, including a Landolt-Lippiet Polariscopes, four additional Resistance Boxes, twenty additional Storage Cells, six Sartorius Balances, a Kelvin Galvanometer and three Rowland d'Arsonval Galvanometers, an Electro-dynamometer, five Kohlrausch's Conductivity apparatus, eight Capillary Electrometers, one Pfeiffer's Osmotic Pressure Apparatus, two Electric and two Gas Furnaces, etc.

In the Department of Mining and Metallurgy, important additions to the equipment have also been made, including a Wetherill Separator, a series of about a dozen glass experimental classifiers, a four-compartment pointed Box Separator, a Ball Mill, a Gates Sample Grinder, an Amalgamation Barrel. In the Milling Room additional Elevators, Conveyors and accessory apparatus have also been installed, greatly increasing the efficiency of the plant.

Several donations to the Chemical Museum have been received, the most important being a fine series of Aniline Colours presented by the "Societe Anonyme des Matieres Colorantes de St. Denis," Paris, through Messrs. W. T. Benson & Co., of this city. A number of other valuable donations have also been promised and are expected to arrive soon.

At the close of last session, a summer class in Practical Chemistry was instituted and was attended by twelve students, most of whom worked zealously and with good results. The class was in charge of Dr. Henderson and Mr. Scott Hutchinson.

(Signed) B. J. HARRINGTON.

## REPORT ON THE BOTANIC GARDEN FOR 1899-1900.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—The Botanic Garden was established in 1890, and the location at present occupied was chosen as the only suitable site then available, with a view to ultimate transfer to a property not only better adapted to the purpose, but one affording that element of permanence which can only come from actual ownership. The ground and houses now utilised were leased from the Trustees of the Trafalgar Institute for a short term of years, and this lease has been subject to annual renewal pending a final decision as to permanent location.

The Garden has now been in operation for a period of ten years, during which time it has served a most important purpose in connection with the scientific and educational work of the Botanical Department. The grounds were carefully laid out and a large amount of material, representing forms of vegetation from many parts of the world, was planted. The conservatories were stocked with types of plant life from various regions of the world, and this portion of the collection is especially rich in Australian forms, many of which were contributed by the late Baron von Mueller at considerable personal expense. The conditions under which the property was occupied, however, have prevented the expenditure of money either in the direction of permanent improvements or in the enlargement of the collections which have been kept within such limits as would barely suffice to meet the ordinary requirements of class instruction.

An examination of the reports annually submitted to the Corporation shows that during the short period of its existence, the Garden has not only served a most important purpose in the prosecution of original research, but it has proved of great educational value. Until the present year, it has provided educational resources for an average of 250 students annually, and graduate students have found there the necessary means for the prosecution of special studies.

During the last fifteen years, the character of botanical teaching in the schools throughout the province has shown marked improvement, both with respect to the quality of the instruction imparted and the number of the pupils taking advantage of such important means of culture and training. This improvement has been most marked within the last five years in consequence of the increasing number of our graduates who have entered upon the teaching profession in the schools of the province, and are especially qualified to teach botany in accordance with modern views. In this we are able to note the direct influence of the Botanic Garden, as having provided special facilities for that class of instruction which is particularly adapted to the requirements of the various schools.

The present uncertainty of our tenure which may expire at any moment, and the very critical condition of the buildings,

seriously jeopardizes these important educational interests, and threatens to bring all efforts in this direction to a speedy termination. The situation is, therefore, one which demands prompt and efficient relief, and calls for definite action with a view to placing the Garden upon such a stable basis of efficient work as will guarantee its permanence and a continuation and development of the work already commenced.

Our relations to kindred institutions continue on the same friendly basis as in former years, and many exchanges are annually effected.

(Signed) D. P. PENHALLOW,  
*Director.*

REPORT OF THE SUPERINTENDENT OF THE  
OBSERVATORY, 1899-1900.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—The series of Meteorological Observations commenced on January 1st, 1875, was closed on December 31st last. The means for the twenty-five year period afford values which may be accepted as well established normals for the place. The bi-hourly temperature series, commenced in 1884, was also discontinued at the close of last year. Commencing with 1900, the temperature and pressure observations have been replaced by readings from Richard recording instruments, which are standardized by eye observations at 7.40 a.m., 3 p.m., and 7.40 p.m. The first and last of these eye observations also serve for the daily telegraphic reports to the Central Meteorological Office.

The time service has been continued as in former years, standard time signals having been distributed by telegraph, and the noon time-ball dropped, during the navigation period, as described in former reports.

The results of the soil temperature observations, made in cooperation with the Physics Building during the three past years, were in May last presented in a brief paper to the Royal Society of Canada, and will appear in the transactions of that Society. These observations have now covered a term of five years, and valuable data have been obtained in connection with the transmission of temperature by the soil.

The automatic record of differences of air temperature between the summit of Mount Royal and the College Grounds, commenced by the aid of a Grant from the British Association for the Advancement of Science, has proved successful during dry weather. Imperfections in the insulation of the lines have, however, made it impossible to obtain reliable results in wet weather. To completely overcome this difficulty a lead covered cable enclosing the conductors will be necessary. This Sir William Macdonald has, with his characteristic generosity, ordered to be erected at his expense.

Photographs of the sun during the eclipse on May 28th last were successfully made.

The Observatory site on Westmount hill has recently been enclosed by a good carriage road, and much work has been done in improving the appearance of the grounds. The former has been carried out at the expense of the town of Westmount, and the cost of the latter has been met by Sir William Macdonald.

The Observatory is greatly indebted to Mr. C. S. Blackman, B.A., for volunteer assistance during the past two years.

Respectfully submitted,

C. H. McLEOD.

*Superintendent.*

*ROYAL INSTITUTION FOR THE  
Balance Sheet on*

<b>ORIGINAL ENDOWMENT AND DONATION IN LAND.</b>			
Hon. James McGill's Bequest .....		425,235 04	
<b>DONATIONS OF LANDS, BUILDINGS, APPARATUS, &amp;C.—</b>			
Wm. Molson Hall and Corridors, the gift of Wm. Molson, Esq .....	27,500 00		
McTavish Street Property, the gift of J. H. R. Molson, Esq .....	42,500 00		
John H. R. Molson, donation for Extension to Medical College .....	62,153 86		
Peter Redpath Museum, the gift of Peter Redpath, Esq. University Library Building, the gift of Peter Redpath, Esq .....	100,000 00		
Observatory Property, the gift of Sir W. C. Macdonald. University St. Lot, the gift of Sir W. C. Macdonald ...	135,000 00		
Lot above Medical College, the gift of Sir W. C. Macdonald .....	70,405 12		
Macdonald Physics Building and Equipment, the gift of Sir W. C. Macdonald .....	8,737 86		
Macdonald Chemistry and Mining Building, the gift of Sir W. C. Macdonald .....	1,600 20		
Macdonald Engineering Building and Equipment, the gift of Sir W. C. Macdonald .....	248,277 57		
Macdonald Engineering Building and Equipment, the gift of Sir W. C. Macdonald .....	278,114 98		
Sir W. C. Macdonald, donation towards building of Workshops .....	447,073 22		
Lady Strathcona, donation to provide additional accommodation for Medical Faculty .....	20,000 00		
Hon. Mrs Howard, donation to provide additional accommodation for Medical Faculty .....	51,020 83		
Subscriptions towards Equipment of the Macdonald Engineering Building .....	51,020 83		
Thomas Workman Mechanical Workshops and Equipment, bequest of the late Thomas Workman .....	128,130 47		
Subscriptions towards Equipment of Thos. Workman Workshops .....	57,137 31		
Miscellaneous donations to Equipment, Books, &c.....	13,150 04		
	73,508 80	1,815,331 09	2,249,566 13
<b>ENDOWMENTS.</b>			
<b>MISCELLANEOUS :—</b>			
Subsequent General Endowment .....	58,070 00		
Endowment Fund of 1881 .....	34,500 00		
John H. R. Molson Endowment .....	100,000 00		
John Frothingham Principal Fund .....	40,000 00		
Dr. Geo. W. Campbell Memorial Fund for Medical Faculty .....	53,906 04		
Leanehoil Endowment Fund for Medical Faculty .....	50,000 00		
Lord Strathcona Endowment of Departments of Pathology and Hygiene in Medical Faculty .....	100,000 00		
Dr. Robert Craik Fund in the Medical Faculty .....	4,000 00		
Mrs. (Mary) Dow Bequest, Medical Faculty .....	3,000 00		
Faculty of Law Endowment .....	10,000 00		
Faculty of Arts Endowment .....	4,300 00		
Faculty of Applied Science Endowment Fund .....	6,100 00		
Macdonald Endowment for Maintenance of Mining and Metallurgical Department .....	55,000 00		
Macdonald Endowment for Maintenance of Chemical Department .....	135,000 00		
Macdonald Endowment Fund for Faculty of Law .....	200,000 00		
Macdonald Endowment for Maintenance of Engineering Building .....	85,000 00		
Macdonald Endowment for Maintenance of the Architectural Department .....	10,000 00		
Macdonald Endowment for Maintenance of Chemistry and Mining Building .....	225,000 00		
Macdonald Endowment Fund for Maintenance of Physics Building .....	150,000 00		
Macdonald Auxiliary Fund Endowment .....	328,750 00		
Carried forward .....	\$1,657,326 04		\$2,240,566 13

*ADVANCEMENT OF LEARNING.*  
*June 30th, 1900.*

IMMOVEABLE PROPERTY :—

College Grounds .....	86,329 43		
Main Building—Centre Building, East and West Wings and Corridors, etc .....	99,722 03		
Medical Faculty Buildings .....	123,625 95		
Porter's Lodge .....	2,125 00		
Observatory Buildings .....	4,691 89		
Gymnasium .....	8,718 59		
Thomas Workman Mechanical Workshops .....	67,298 07		
Macdonald Engineering Building .....	157,221 18		
Macdonald Physics Building .....	146,166 97		
Macdonald Chemistry and Mining Building .....	189,747 57		
Macdonald Observatory Property .....	79,495 12		
University Library Building .....	135,000 00		
Peter McIlpith Museum Building .....	100,010 00	1,181,954 80	

MOVEABLE PROPERTY :—

Equipment Chemical Laboratory (Old) .....	4,809 60		
Museum Collections, etc .....	52,331 30		
Philosophical Apparatus, Main Building .....	1,568 58		
Natural Science Apparatus .....	9,497 05		
Library Fixtures and Furniture in old Building .....	5,661 17		
Donalds do do .....	350 00		
Law do do .....	816 48		
Arts do do .....	9,362 54		
Books in Library .....	63,502 05		
Equipment Thomas Workman Mechanical Workshops .....	23,079 28		
Equipment Macdonald Engineering Building .....	420,912 90		
do do Physics Building .....	111,412 06		
do do Chemistry and Mining Building .....	76,727 20	779,939 21	1,961,894 01

Carried forward .. \$1,961,894 01

**ROYAL INSTITUTION FOR THE**  
*Balance Sheet on*

	Brought forward....	\$1,657,326 04	\$2,240,566 13
<b>MISCELLANEOUS.—Continued.</b>			
Maedonald Endowment for Repairs to Buildings. ....	15,000 00		
Thomas Workman Workshops Endowment. ....	59,862 69		
Sir Donald A. Smith Endowment Fund for Donalds Special Course for Women .....	120,000 00		
Philip P. Carpenter Fellowship Endowment Fund. ....	7,000 00		
Pension Fund Endowment in Faculties of Arts and Ap- plied Science .....	150,000 00		
Graduates' Endowment Fund, Faculty of Applied Science	85 00		
Wm. Wood Redpath Memorial .....	1,000 00		
British Association Apparatus Fund .....	1,500 00		
Museum Endowment Fund .....	2,000 00		
Wm. Molson Library Fund .....	4,400 00		
Hon. F. W. Torrance Mental and Moral Philosophy Book Fund .....	1,000 00		
Hugh S. McLennan Library Endowment .....	250 00		
Faculty of Applied Science Library Endowment .....	881 05	2,020,304 79	
<b>CHAIRS.</b>			
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. ...	40,000 00		
John Frothingham Chair of Logic, etc. ....	40,000 00		
D. J. Greenshields Chair of Chemistry .....	40,000 00		
Gale Chair in the Faculty of Law .....	25,000 00		
Wm. Scott Chair of Civil Engineering .....	30,000 00		
Hiram Mills Chair of Classics .....	43,070 32		
Maedonald Chairs of Physics .....	100,000 00		
do Chair of Electrical Engineering .....	50,000 00		
do Chair of Mining and Metallurgy .....	50,000 00		
do Chair of Architecture .....	50,000 00		
do Chair of Chemistry .....	50,000 00		
Dr. Wm. Kingsford Chair of History, founded by Sir W. C. Maedonald .....	50,000 00		
Sir William Dawson Chair of Geology, founded by Sir W. C. Maedonald .....	50,000 00		
Jos. Morley Drake Chair of Physiology, founded by Walter Drake, Esq. ....	10,000 00		
Sir Wm. Dawson Fellowship in Mining and Metallurgy	11,123 00		
Chas. Gibb Botanical Chair Endowment .....	8,200 00	687,393 32	
<b>MEDALS, SCHOLARSHIPS, &amp;c.</b>			
Hannah Willard Lyman Memorial Fund .....	1,074 65		
Annie McIntosh Prize .....	425 00		
Neil Stuart Prize .....	310 00		
Ann Molson Gold Medal .....	1,200 00		
Henry Chapman do .....	700 00		
Elizabeth Torrance do .....	1,000 00		
Sir W. E. Logan do .....	1,000 00		
Prince of Wales do .....	1,000 00		
Shakspeare do .....	1,000 00		
Sutherland do .....	1,000 00		
Major Hiram Mills do and Scholarship .....	1,500 00		
British Association do and Exhibition .....	2,605 00		
Jane Redpath Exhibition .....	1,667 00		
Maedonald Scholarships .....	25,000 00		
Barbara Scott Scholarship .....	2,000 00		
Walter Scott Exhibition .....	1,100 00		
Dr. T. Sterry Hunt Scholarship .....	3,821 84		
Charles Alexander Scholarship .....	2,000 00		
J. C. Wilson Prize (McGill Normal School). ....	1,000 00	49,432 89	2,757,130 99
<b>PROFIT AND LOSS ACCOUNT.</b>			
ARREARS OF INTEREST .....			47,890 83
CAPITALIZED REVENUE .....			17,475 79
INCOME DEVOTED TO SPECIAL PURPOSES NOT YET EX- PENDED .....			46,366 36
Less sums expended in advance .....	98,239 21		
	23,156 37		75,082 84
			<b>\$5,154,452 94</b>

MONTREAL, 15th November, 1900.

Verified,

MACINTOSH & HYDE, *Auditors*ADVA  
June 3AMOUNTS  
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**ADVANCEMENT OF LEARNING.**  
*June 30th, 1900.*

	Brought forward....	1,961,894 01
AMOUNTS UNPAID IN RESPECT OF ENDOWMENTS .....		7,800 00
INVESTMENTS IN MORTGAGES, ETC.....		3,003,152 13
AMOUNT PAYABLE IN RESPECT OF ARREARS OF INTEREST .....		3,135 26

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CASH ON DEPOSIT IN BANK.....	208,471 54
	<u>\$5,184,452 94</u>

W. VAUGHAN, *Bursar.*

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

INCOME.			
CASH ON HAND OF UNEXPENDED INCOME OF SPECIAL ENDOWMENTS, SCHOLARSHIPS, APPROPRIATIONS, ETC., ON THE 1ST JULY, 1899.....			70,556 35
From Fees collected :			
University .....	4,135 25		
Faculty of Law .....	2,630 00		
Faculty of Arts .....	6,353 63		
Faculty of Applied Science .....	28,761 00		
Royal Victoria College .....	5,654 07		
Library .....	1,426 00		
Gymnasium .....	1,073 75		
College Grounds.....	1,945 00		
Miscellaneous .....	1,207 17	53,185 87	
" Income received from Investments, Deposits in Bank, etc.....		129,415 29	
" Government and other Grants.....		3,700 00	
" Donations and Subscriptions.....		88,532 00	
" Caution Money, Deposits, etc.....		2,094 50	
" Miscellaneous Receipts.....		8,138 25	285,063 91
			\$355,620 26

MONTREAL, 15th November, 1900.

Verified, **MACINTOSH & HYDE, Auditors.**

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June,

ROYAL  
ending

INSTITUTION for the ADVANCEMENT of LEARNING.  
30th June, 1900.

EXPENDITURE.

70,556 35

For Salaries of Principal, Secretary; the Office, Library and Observa- tory Staffs; School Examiners, etc., etc., etc .....	20,396 54	
" Salaries for Instruction (including Deanships) .....	103,821 68	
" Salaries of Foremen in Workshops, Mechanics, etc .....	11,969 77	
" Salaries and Wages for Gardeners, Janitors, Servants, Laborers, etc .....	12,874 47	
" Repairs and Improvements to Buildings, etc .....	10,925 80	
" Apparatus, Machines, Tools, Equipment, etc .....	23,393 35	
" Maintenance of Apparatus, etc .....	1,161 73	
" Supplies and Materials .....	5,287 40	
" Housekeeping Supplies, Royal Victoria College .....	2,634 25	
" Lighting .....	2,167 70	
" Fuel .....	8,808 64	
" Printing .....	3,577 20	
" Advertising .....	859 17	
" Insurance .....	8,722 46	
" Stationery and Postage .....	2,745 22	
" Furniture .....	2,101 33	
" Water .....	1,149 03	
" Miscellaneous .....	9,213 25	
" Scholarships, Exhibitions, Medals, and Prizes .....	4,752 10	
" Library,—for Books, etc .....	5,337 77	
" Amounts paid to Faculty of Medicine, being interest on their en- dowments .....	13,448 23	
" Caution Money Deposits .....	1,908 00	
" Annuities .....	3,000 00	
" Advances and Extraordinary Expenditure .....	6,293 25	266,539 34

285,063 91

REVENUE CAPITALIZED.

Interest on Dr. T. Sterry Hunt Scholarship .....	250 26	
Balance on hand of Chemistry and Mining Building Funds on 1st July, 1899 .....	10,855 80	11,106 06

BALANCE FROM INCOME AND EXPENDITURE ACCOUNT 1899-1900 .....

2,892 02

CASH ON HAND OF UNEXPENDED INCOME OF SPECIAL ENDOW-  
MENTS, SCHOLARSHIPS, APPROPRIATIONS, ETC., on the 30th  
June, 1900 .....

75,082 84

\$355,620 26

\$355,620 26

Auditors.

W. VAUGHAN, Bursar.

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

RECEIVED.			
<b>CASH ON HAND on the 1st July, 1899.</b>			
For Investment .....	78,578 12		
For Erection and Equipment of Chemistry and Mining Building (Sir W. C. Macdonald Donation) .....	6,874 79	85,452 91	
<b>ENDOWMENTS:—</b>			
Sir W. C. Macdonald:—			
For Department of Chemistry .....	135,000 00		
For Macdonald Buildings Repair Fund .....	15,000 00		
For Macdonald Auxiliary Fund (additional) .....	50,000 00		
To found Sir Wm. Dawson Chair of Geology .....	50,000 00		
Annie McIntosh Prize .....	425 00		
J. C. Wilson Prize (McGill Normal School) .....	1,000 00	251,425 00	
<b>BUILDINGS AND EQUIPMENT:—</b>			
Sir W. C. Macdonald Donation for the erection of Chemistry and Mining Building (additional) .....			
	11,047 82		
Lady Strathcona's Donation to Medical Faculty .....	50,000 00		
Hon. Mrs. Howard's do do .....	50,000 00		
Interest on Lady Strathcona's and Hon. Mrs. Howard's Donations .....	2,041 66		
Bank interest on balance of Macdonald Chemistry and Mining Building Fund .....	558 44	113,647 92	
<b>SUBSCRIPTIONS FROM BOARD OF GOVERNORS TO GENERAL UNIVERSITY FUNDS .....</b>			
		7,500 00	
<b>INVESTMENTS REPAID DURING THE YEAR .....</b>			
		168,193 35	
<b>INCOME CAPITALIZED:</b>			
Interest on Dr. T. Sterry Hunt Scholarship .....	250 26		
Balance on hand Chemistry and Mining Building on 1st July, 1899 .....	10,855 80	11,106 06	
<b>PROFIT AND LOSS ACCOUNT:</b>			
Gain by sale of Properties .....	1,244 47		
Balance, Income and Expenditure account .....	2,892 02	4,136 49	556,008 82
			\$641,461 73

MONTREAL, 15th November, 1900.

Verified, **MACINTOSH & HYDE, Auditors.**

*ROYAL*  
*ending*

*INSTITUTION for the ADVANCEMENT of LEARNING.*  
*30th June, 1900.*

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DISBURSED.

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BUILDINGS AND EQUIPMENT:—

Macdonald Chemistry and Mining Building .....	1,980 07	
Macdonald Chemistry and Mining Building Equipment .....	6,716 57	
		8,696 64

EXPENDED ON PROPERTIES .....

2,272 11

INVESTED DURING THE YEAR .....

497,104 28

499,376 39

CASH ON HAND ON THE 30TH JUNE, 1900:—

For Investment .....	10,706 83	
For Erection and Equipment of Chemistry and Mining Building (Sir W. C. Macdonald Donation) .....	20,640 21	
For Extension of Medical College .....	102,041 66	133,388 70

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\$641,461 73

W. VAUGHAN, *Bursar.*

556,008 82

641,461 73