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PROOF

ANNUAL REPORT
OF THE
GOVERNORS, PRINCIPAL AND FELLOWS
OF
MCGILL UNIVERSITY, MONTREAL.
FOR THE YEAR 1898-99.

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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 period extending from January 1st, 1898, to August 31st, 1899. It will be noted that twenty months of University history are comprehended in this period, instead of one calendar year as formerly, from January to December, and henceforward, with Your Excellency's approval, the Annual Report will embrace the period of the Academic year, namely, from September 1st to August 31st.

The most marked event during this period was the presentation to the University of the new Chemistry and Mining Building, built and equipped on a scale of great completeness by Mr. W. C. Macdonald. On the occasion of the opening ceremony, we were honoured by the presence of Your Excellency and Lady Minto; and the conferment by Her Majesty, through you, of the dignity of Knighthood on the generous donor was felt throughout Canada to be a mark of the Queen's interest in the University, as well as a fitting acknowledgment of Sir William Macdonald's great liberality in the cause of education.

Advantage was taken of Your Excellency's presence in the city, as the guest of the Chancellor of the University, to hold a special meeting of Convocation at which we were privileged to enrol in our lists of Honorary Graduates the names of Your Excellency, of the Premier of the Dominion (Right Honourable Sir Wilfrid Laurier, K.C.M.G.), and of Lord Herschel, whose lamented death occurred so shortly afterwards.

Another noble gift is about to be presented to the University in the shape of the building which is to be known as the "Royal Victoria College" for women, built, equipped and endowed by the Chancellor, the Rt. Honourable Lord Strathcona and Mount Royal, G.C.M.G. This magnificent foundation will take up and continue, under greatly improved conditions, the operations which have been carried on for so many years in the Special Course for Women, known hitherto as the "Donalda" Department; and in thus crowning and completing this work on the most approved lines for the University education of women, Lord Strathcona has built an enduring monument of far-sighted liberality, worthy to rank alongside of that other institution, similarly named, which has already done so much to alleviate suffering in Montreal and

to advance the interests of the profession of medicine.

The formal conveyance of the new College to the University of which it is to form so important a part will be the most fitting opportunity for setting forth in detail the scope and character of its operations. Meanwhile it may suffice to say here that suitable appointments have been made to the various departments of collegiate work, and that Lord Strathcona's expressed wish that the teaching staff should not be independent of that of McGill College, but that the two should be, as it were, mutually complementary, is giving the University a welcome opportunity of strengthening the Faculty of Arts in some branches where it has hitherto been numerically weak. In proof of the broad spirit in which the curriculum for women is being adjusted, it may be stated that the Chancellor has instituted a Department of Music in the College, which may well become the nucleus of a University Faculty.

Among other outstanding features of the period under review may be cited the progressive re-organization of the curriculum in the Faculty of Arts; the institution of new degrees, and especially that of Bachelor of Science (B. Sc.) in "Arts," as well as in the Applied Science Faculty; the affiliation of Vancouver College as an institution qualified to give the first year of an undergraduate course in Arts; the establishment of a connection with the Universities of Oxford and Cambridge, such as will entitle a McGill student who has passed our Intermediate examination to proceed to an Oxford or a Cambridge degree on a shortened period of residence at these Universities; the amendment of the constitution of the Corporation of the University; the establishment, in the interests of the whole University, of a Board of Matriculation Examiners; the institution of summer classes (May and June) in the Faculty of Arts, and (through the generosity of Sir Wm. C. Macdonald) of a summer school

in Mining and Metallurgy; and the addition to the component parts of the University system of an "Academic Board," consisting of all the Professors of all the Faculties in the University, with certain other members of the teaching staff, chargeable by statute with the duty of "considering such matters as pertain to the interests of the University as a whole and making recommendations concerning the same."

A movement which is likely to have an important influence on the interests of the University is the formation of Graduates' Societies in the several Provinces of the Dominion and in the United States at various centres. Besides extending information with regard to the work done in the University, several of these societies have shown in a very practical manner their attachment to their Alma Mater by the founding of Scholarships or the donation of Prizes.

In addition to changes in the staff consequent on the transference of Professors to other appointments, details of which are given below, in connection with the several Faculties, the University has to mourn the removal by death of the Honourable Christopher A. Geoffrion, Q.C., D.C.L., P.C., for many years a Professor in the Faculty of Law.

Mention must also be made of the death of Miss Barnjum, for many years connected with the cause of physical education in this city, and for the last ten years Instructress of the Donalda students.

FINANCIAL CONDITIONS.

The grave anxiety as to the financial position of the University, referred to in the Report for the year 1897, was to some extent relieved by the generous action of various members of the Board of Governors, who subscribed among themselves, last Christmas, a sum of one hundred and ninety-one thousand dollars with the view of replacing sums which had at va-

rious times been withdrawn for necessary purposes from capital account. By this munificent contribution the Board has given a fresh proof of the watchful care with which it presides over the financial interests of the University, and of its active sympathy with its needs and aspirations.

Special reference should be made to the additional gifts most generously provided by Sir William Macdonald in the shape of an endowment for the Chair of History, which is now to be known as the "Kingsford" Chair.

WANTS OF THE UNIVERSITY.

But while the income derived from the fresh capital provided by the Board of Governors and from the new History endowment has relieved the finances of the University to a considerable extent, it must remain on record that its annual income is still inadequate to meet its expenditure. Further endowments are urgently needed, especially in the Faculty of Arts, where the maintenance of teaching in such essential departments as Botany, Classics, and Modern Languages is still a charge on the general funds of the University. And it is indispensable, if the re-organized curriculum in Arts, now in its second year, is to be extended into the third and fourth years of the course, that funds be provided before the beginning of next session to endow a second Chair of Philosophy, a chair of Economic and Political Science, and a chair of Modern Languages and Literature, besides various subsidiary Lectureships and Tutorships. In general, it must be stated with regret that the staff of the Faculty of Arts is numerically altogether inadequate to the great interests for which it is responsible.

The need for a Biological Building, referred to in the last report, has been met for the time being by the conversion of the topmost floor of the East Wing

into a spacious Zoological Laboratory, which is to accommodate the undergraduates of the Medical Faculty as well as students in the Faculty of Arts. It should be recorded here that the expense of the necessary alterations was borne by members of the Board of Governors.

Among other wants it continues to be a duty to record the need for residential accommodation for men (supplied now for women students by the opening of the Royal Victoria College), a new Gymnasium, a larger number of Entrance Scholarships, Research Fellowships in all the Faculties, an Art Museum and a substantial increase in the funds at the disposal of the Library and Museum Committees.

THE YEARS 1898-1899.

In the meetings of Convocation at the close of the last two sessions, the following degrees in Course were conferred:

	1898.	1899
Law, B.C.L.	10	11
Medicine, M.A.	72	64
Arts, B. A.	47 (12 women)	43 (15 women)
Arts, M.A.	8	5 (2 women)
Applied Science, B.A.Sc.	38	43
Applied Science, M.A.Sc.	3	5
Applied Science, Ma.E.	3	—
Veterinary Science, D.V.S.	12	6
	<hr/> 193	<hr/> 177

The Honorary degree of LL.D. has been conferred (April 1898) on Prof. Hugh L. Callendar, M.A. (Cantab.), F.R.S., and (December, 1898) on His Excellency The Right Honourable the Earl of Minto, P.C., G.C.M.G., Governor-General of Canada and Visitor of the University; the Right Honourable Baron Herschel, P.C., G.C.B., and the Rt. Hon. Sir Wilfrid Laurier, P.C., K.C.M.G.; also (April, 1899) on James Douglas, of New York; on Prof. Bernard J. Harrington, Ph.D. (Yale), and on Mr. Rudyard Kipling.

There were also admitted to the degree of B.A. Sc., "ad eundem gradum," Richard John Durley, B.Sc. (London); John E. Hardman, B.Sc. (Mass. Inst. Tech.); Ira Grant Hedrick, B.C.E. (Arkansas); Tom Percival Strickland, B.E. (Sydney); and Ernest G. Coker, B.Sc. (Edin.); to the degree of D.Sc. "ad eundem gradum" in Arts and Applied Science, Prof. J. Nicolson, D.S. (Edin.); and to the degree of B.A. "ad eundem gradum," Geo. Johnson Oulton.

In 1898 eight and in 1899 ten Gold Medals were awarded to successful candidates, besides in each year the Wicksteed Silver and Bronze Medals for Physical Culture, the British Association Medals and the Governor-General's Silver Medal in the Faculty of Applied Science and a Silver Medal in Veterinary Science.

Examinations for the Certificate of Associate in Arts were held in June, 1898, and in June, 1899, at 34 centres, with the following results:

	1898.	1899.
Candidates for A. A. certificate..	129	160
" passed successfully.. ..	95	124
" for preliminary subjects	124	168
" for Matriculation only..	94 (29 centres)	139 (31 centres)
" qualified for entrance:—		
For Medicine..	2	6
For Arts or Medicine	41	51
For Arts, for course leading to B.Sc..	—	61
For Applied Science ..	16	23

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

Faculty of Law..	67
" " Medicine..	447
" " Arts..	{ Men.. 210 } 296
	{ Women 86 }
" " Applied Science..	231
" " Veterinary Science..	15
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	1,056

In McGill Normal School—	
Teachers-in-training..	158
In the affiliated colleges in Arts—	
Morrin College, Quebec..	56
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	1,270
Deduct, repeated in different lists.. . . .	22
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	1,248

In the classes of the Normal School at the close of last session 137 Diplomas were granted by the Central Board of Examiners, including 11 for Academies (issued to graduates in Arts of the University) and 45 for Model Schools, the remainder being given in the Kindergarten, Elementary and Advanced Elementary Classes.

In 1893 at the September Exhibition and Scholarship Examinations in Arts, 5 Scholarships and 13 Exhibitions were awarded, varying in value from \$125 to \$90, and in 1899 4 Scholarships, 12 Exhibitions, and 2 Bursaries.

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

A prize of \$50 was offered by the Ottawa Valley Graduates' Society to the candidate taking the highest marks in the Matriculation Examinations in that section of the Dominion, and was awarded to a student in the Faculty of Applied Science.

An appointment (that of William Brown McLean, B.Sc.) was made at the close of last session to the Science Scholarships granted to the University by Her Majesty's Commissioners for the Exhibition of 1851. The value of this Scholarship is £150 yearly for a period of two or three years.

NEW ENDOWMENTS AND DONATIONS.

In addition to undertaking the munificent endowment of the Royal Victoria College for Women, referred to elsewhere in this Report, the Right Hon-

ourable Lord Strathcona and Mount Royal has continued his annual donation of \$4,000 for lecturers in the Faculty of Arts; has given a further sum of \$4,000 for the same purpose; and has maintained the Chair of Zoology at an annual cost of \$2,500.

Sir William C. Macdonald has contributed \$7,650 to make up deficiencies in the income of the Faculty of Applied Science, and in addition to very many other generous gifts has given \$30,000 to supplement the equipment of the Electrical Engineering Laboratories; \$55,000 to endow the Department of Mining and Metallurgy; \$90,000 additional endowment of the Chemistry and Mining Building; \$10,000 additional endowment for the Chair of Electrical Engineering; \$50,000 to found a Chair of History associated with the name of the late Dr. William Kingsford, and has strengthened the Auxiliary Endowment Fund, which he established in 1897, by the sum of \$51,250.

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

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

The New York Graduates' Society has continued

the Bursary of \$60 in the Faculty of Arts, known as the Sir William Dawson Bursary.

The British Columbia Society of Graduates of McGill University has given \$50 to be equally divided among the five Faculties and awarded as prizes in books.

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

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

Mr. Donald Macmaster, Q.C., has given \$120 for a Bursary in the 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. T. Taylor, \$25; Mr. A. C. Hutchison, \$20; Mr. C. J. Fleet, \$25.

The Board of Governors has presented to the Library portraits of the late Mr. John H. R. Molson and of Mrs. J. H. R. Molson.

RESIGNATIONS, NEW APPOINTMENTS AND CHANGES OF APPOINTMENT.

In the Faculty of Law, Donald MacMaster, Q.C., LL.D., was appointed Professor of Commercial Law, but found it necessary to resign his appointment at the close of the session.

In his stead, R. C. Smith, B.C.L., was appointed Professor of Commercial Law.

Aimé Geoffrion, B.C.L., was appointed Lecturer on Obligations.

Gordon W. MacDougall, B.A., B.C.L., was appointed Lecturer on Civil Procedure.

In the Faculty of Medicine:—

T. J. W. Burgess, M.D., Lecturer on Mental Diseases, was appointed Professor of Mental Diseases.

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C. F. Martin, M.D., Lecturer in Medicine, was appointed Assistant Professor of Medicine and Clinical Medicine, and Lecturer in Medicine in the Faculty of Comparative Medicine and Veterinary Science.

F. A. L. Lockhart, M.B. (Edin.), Demonstrator in Gynaecology, was appointed Lecturer in Gynaecology.

G. Gordon Campbell, B.Sc. (Dalhousie), M.D., Demonstrator in Clinical Medicine, was appointed Lecturer in Clinical Medicine.

A. E. Garrow, M.D., Demonstrator of Surgery and Clinical Surgery, was appointed Lecturer in Surgery and Clinical Surgery.

W. F. Hamilton, M.D., Demonstrator of Clinical Medicine, was appointed Lecturer in Clinical Medicine.

In the Faculties of Arts and Applied Science, the following resignations were received:—

C. A. Carus-Wilson, M.A. (Cantab.), Professor of Electrical Engineering.

Hugh L. Callendar, M.A. (Cantab.), F.R.S., Professor of Physics.

Cecil B. Smith, Ma.E., Assistant Professor of Civil Engineering and Descriptive Geometry.

John T. Nicolson, B.Sc. (Edin.), Professor of Mechanical Engineering and Lecturer on Thermodynamics.

The following appointments were made:—

Ernest Rutherford, B.A. (Cantab.), B.Sc., M.A., to be Professor of Physics.

J. Wallace Walker, M.A. (St. Andrews), Ph.D., (Leipsic), to be Professor of Chemistry.

R. B. Owens, E.E. (Columbia), to be Professor of Electrical Engineering.

E. G. Coker, B.A. (Cantab.), B.Sc. (Edin.), to be Assistant Professor of Civil Engineering.

John W. Bell, M.Sc., to be Lecturer in Metallurgy and Assaying.

E. T. Lambert, B.A., to be Sessional Lecturer in Modern Languages.

H. N. Sanders, B.A., to be Lecturer in Classics and Sanskrit.

John W. Cunliffe, M.A., D. Litt. (London), to be Special Lecturer in English Language and Literature.

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

In connection with the Faculty of Arts, but for the special purposes of the Royal Victoria College, the following have been appointed:—

1. As Warden (or Lady Principal), Miss Hilda Diana Oakeley, of Somerville College, Oxford.
2. As Resident Tutor in English, Miss Susan E. Cameron, B.A., McGill.
3. As Resident Tutor in Philosophy and Political Science, Miss Annie N. MacLean, Ph.D. (Acadia and Chicago).
4. As Resident Instructor in Music (Instrumental and Vocal), Miss Clara Lichtenstein, of Charlotte Square Institution, Edinburgh.
5. As non-resident Tutor in Mathematics, Miss Harriet Brooks, B.A., McGill.
6. As non-resident Instructor in Gymnastics, Miss Vendla M. Holinstrom, formerly of Boston and Halifax.

FACULTY OF LAW.

The Faculty desire to record their deep regret at the death of the Hon. C. A. Geoffrion, Q.C., M.P. Mr. Geoffrion was for several years a member of the Faculty, and continued till his death to take a warm interest in its work.

The other changes in the Faculty during the last year have been as follows:

Mr. R. C. Smith, Q.C., has been appointed Professor of Commercial Law, in room of Mr. Donald Macmaster, Q.C., resigned.

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Dr. Wyatt Johnston has been appointed Sessional Lecturer in Medical Jurisprudence.

There are 59 students in the Faculty, all of whom are taking the full course.

FACULTY OF MEDICINE.

The 67th Session of this Faculty closed on the 16th day of June, 1898, when the degree of Doctor of Medicine and Master of Surgery was conferred upon 64 students. The total number of students enregistered in the Faculty during the past Session was 447, of whom eleven were partial students and twenty-five were enregistered in both the Faculty of Arts and the Faculty of Medicine, taking the double course leading to the degrees of B.A. and M.D. in six years.

Eleven of the total number were graduates in medicine, who attended the Graduates and Special Courses given during the months of May and June. Of the 447 students there were:—

From—	
Quebec..	133
New Brunswick..	60
United States	42
Prince Edward Island..	28
West Indies..	2
Ireland..	3
Magdalene Islands	1
Ontario..	124
Nova Scotia and Cape Breton	27
Newfoundland..	8
Manitoba and North-west Territories..	2
British Columbia..	9
England..	3

The increase in the number of students attending this Faculty during the last few years has been so rapid that the Faculty finds its laboratories and some of its lecture rooms inadequate to accommodate conveniently the number attending the classes. The Faculty finds that it will be necessary to largely increase the Library and Reading Room accommodation, and

to nearly double the size of the Laboratories for Physiology, Bacteriology, Histology, Chemistry, Pathology and Pharmacology. The two larger museums in the Faculty, namely the Pathological and Anatomical Museums, are both so congested that these will need enlarging to permit of the proper classification and exhibition of the valuable collections which they contain. A Building Committee has been appointed, and it is at the time of this Report preparing plans for the modification of the buildings so as to bring about a redistribution of the space in the old buildings, and to add such wings as will be necessary. The timely generosity of Lord Strathcona and Mount Royal in announcing last December that Lady Strathcona and the Hon. Mrs. Howard had given fifty thousand dollars each to the Medical Faculty has provided a fund ample to meet the required expenses of the additions.

Medical Library:—The total number of volumes in the Library of the Medical Faculty is now upwards of 21,000, making it the largest special library in connection with any medical school on this Continent.

During the past session 980 volumes have been contributed and purchased. The attendance of readers has from June 4th, 1898, to May 25th, 1899, reached 8,008; the number of books and journals taken out for home use during the same period was 4,209. The Faculty is making the Library as complete as possible for research work; complete files of the most important periodicals are now to be found on the shelves, and arrangements have been made whereby practitioners both in the city and country can avail themselves of the Library under certain conditions. The collection of sets of foreign and English periodicals is now so valuable that it is contemplated in the alterations to arrange for a fire-proof stack room in which these may be kept.

Pathological Museum:—The Pathological Mu-

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scum has been placed under the control of Dr. Maude E. Abbott, who was appointed Assistant Curator during the past year, and a greatly increased amount of time has been devoted to this Museum with the result that it has been brought into a condition for practical use far beyond anything in any previous year. Material has been classified so as to allow of a large number of specimens being used as hand specimens for demonstration to classes in addition to those which are reserved for special study or permanently mounted for exhibition purposes. During the present summer no fewer than 151 specimens received from various sources have been entered on the Museum Book.

The Anatomical Museum, which is under the management of Professor Shepherd and Dr. Springle, has developed to such an extent that there is no longer shelf room for the valuable specimens which are available. One of the most important contributions during the past year is a series of dissections of the nervous system of fishes by Mr. Cresswell Shearer.

Hygiene Museum:—The number of valuable working models (illustrating ventilation, heating, water filtration, disinfection, etc.) which have been added to this Museum has been increased and (it is expected that in a few years a very complete collection of working models will be obtained. These models) are intended entirely for the purpose of illustrating the lectures and demonstrations on public health and sanitary science.

Pharmacological Museum :—The collection of drugs and pharmaceutical preparations forming the Museum of Pharmacology and Therapeutics, now occupies part of the Pharmacological laboratory. In order that this become of the highest value for teaching purposes a special room will have to be provided.

Pathological Laboratory :—Professor Adami in

reporting upon the Pathological Department of the University and upon the work performed therein during the year, points out that there is such an intimate relationship between the work accomplished within the College laboratories and that done in the pathological laboratories of the two hospitals that it is impossible to make a distinction. The Molson pathological laboratory in the Medical building has been devoted specially to class teaching in bacteriology and pathology. At the same time investigations in comparative pathology and bacteriology, together with a large amount of work in connection with the study and preparation of materials for the Museum, have been carried on. The special work done in this Laboratory has been conducted by Prof. Adami, associated with Dr. C. F. Martin, Dr. Chas. Higgins, Mr. Hammond and Mr. Brannan; the work in the pathological laboratory in the General Hospital by Dr. Wyatt Johnston, Dr. W. K. Brown and Dr. Anderson. At the Royal Victoria Hospital, besides the Staff, under the supervision of Professor Adami, special work has been carried on by Dr. Shirres, Dr. Byers, Dr. Maude E. Abbott, Mr. Charlton, Mr. F. J. Nicholson, Mr. Patton and Mr. Simpson, and the following list are the main publications emanating from the Pathological Department during the past year:—

J. G. Adami.—On the Stages and Forms of Syphilis with more Especial Reference to the Hepatic Manifestations of the disease. Address delivered at the Meeting of the Ontario Medical Association, Toronto, June 1st, 1898.—"Montreal Medical Journal," xxvii., 1898, p. 401.

Upon the Existence of a Minute Micro-organism Associated with Cases of Progressive Portal Cirrhosis. Read before the Montreal Medico-Chirurgical Society, June 20th, 1898.—"Montreal Medical Journal," xxvii., 1898, p. 485.

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Article Cirrhosis of the Liver.—"Sajous' Annual and Analytical Cyclopeda, Vol. 11, July, 1898.

Upon the Bacteriology of progressive Cirrhosis of the Liver. A paper read for the Author by Prof. Osler in the Section of Medicine at the Edinburgh Meeting of the British Medical Association, July, 1898.—"The Lancet," (London).

On the Bacteriological Functions of the Liver and the Etiology of Progressive Hepatic Cirrhosis.—"British Medical Journal," Oct. 22, 1898.

Article "Goitre," "Sajous' Annual and Analytical Cyclopeda," Vol. III., Dec., 1898.

Dr. Trudeau and the open Air Treatment of Phthisis in America.—"Practitioner," (London), Feb., 1899.

Syphilis and the Liver. A contribution to a discussion upon Syphilis at the Academy of Medicine, New York, March 9th, 1899.—"New York Medical Journal."

J. G. Adami & C. F. Martin.—Report to the Minister of Agriculture upon observations upon the Cattle at the Experimental Station at Outremont, P.Q., recognized to be Tuberculous by the Tuberculin Test.—"Annual Report of the Dept. of Agriculture, 1899."

J. G. Adami, M. E. Abbott & F. J. Nicholson.—On the Diplococcoid form of the Colon Bacillus. Paper read before the Association of American Physicians, Washington, May, 1899.—"Journal of Experimental Medicine, Vol. IV., 1899.

Wyatt Johnston.—On the Medico-Legal Study of Injuries.—"Philadelphia Medical Journal," August 13th, 1898.

On the Practical Testing of Disinfection.—"Transactions of the American Public Health Association," 1898.

On the Pathology & Morbid Anatomy of Shock, International Association of Railway Surgeons, To-

ronto, July 6th.—“The Railway Surgeon,” Jan. 1899.

Wyatt Johnston & W. K. Brown.—The Medico-Legal Significance of the Glycogen Test.—“Boston Medical & Surgical Journal,” April, 1899.

A. G. Nicholls.—A Case of Cholecystico-Gastric Fistula with accompanying Diverticula of the Duodenum.—“Montreal Medical Journal,” xxvii., 1898, p. 826.

Remarks upon a New Differential Stain for Fat.—“Philadelphia Medical Journal,” June, 1898.

A contribution to the study of Bright's Disease with special Reference to the Etiological Relationship of the Bacillus Coli.—“Philadelphia Medical Monthly,” No. 1., Feb., 1899.

F. A. Lockhart & D. P. Anderson.—Combined Carcinoma & Epithelioma of an Ovarian Dermoid Cyst. Montreal Medico-Chirurgical Society, Nov. 21st, 1898.—“Montreal Medical Journal,” xxviii., p. 116.

Stewart & Shirres.—A study of a Case of Tumour of the Pons with Special Reference to the Innervation of the External Rectus, Montreal Medico-Chirurgical Society, May 15th, 1899.

E. W. Hammond.—A Simple and Rapid Method of Detecting Tubercle Bacilli in Fluids.—“Montreal Medical Journal,” xxvii., p. 507.

J. G. Adami.—On the significance of Bovium Tuberculosis and the possibility of its eradication in Canada. Read at the Toronto Meeting of the Canadian Medical Association, September, 1899.

Chemical Laboratory:—The special work in the Chemical Laboratories has been carried on by Professor Ruttan and Dr. C. G. L. Wolf, whose resignation as Demonstrator to accept a post at Cornell University is to be regretted. The principal work carried on during the year by Prof. Ruttan has been a continuance of an investigation of the sanitary condi-

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tions of the Montreal water supply during the Autumn and Spring of each year; some investigations on the effect of carbonated water upon lead and alloys of lead and tin, and an improved method for exact determination of the color and turbidity of potable waters. Dr. Wolf has been engaged in making a series of determinations of the solubility of salts and organic substances in various solvents, and in investigations on stereo-chemistry, the results of which are now in the hands of the publishers. In addition to the ordinary class work, special instruction in medical and clinical chemistry has been given in connection with the post-graduate course.

Physiological Laboratory :—In addition to the regular laboratory class and demonstration work, Prof. Mills, the director of this laboratory, has been engaged in the investigation of Brain Physiology with special reference to the relations of structure to function in the cerebrum of the bird. Dr. W. S. Morrow has published a paper on Venous Circulation, most of the work having been done in the laboratory of Dr. Hurtle, of Brislau. Dr. Scane, assisted by Dr. Robertson, has been engaged in investigating the effect on digestion of re-section of portions of the Alimentary tract.

Pharmacological Laboratory :—This laboratory has hitherto been used solely for the teaching of pharmacy and dispensing. Next session, owing to the timely gift of three thousand dollars by Mr. David Morrice, it will be fully equipped for investigating the complex problems of Pharmacology and Therapeutics.

Mr. Morrice has also contributed liberally towards the salary necessary to secure a lecturer especially trained in experimental pharmacology.

Dissecting Room :—The most important special research in this laboratory during the past year was

Dr. McCarthy's work on the anatomy of the Hippocampus Major read at the British Medical Association. Prof. Shepherd has been engaged on an investigation of the occurrence of supernumerary digitid and deformities of the hand and foot.

Special investigations have also been conducted by Dr. Tait Mackenzie, Dr. Springle and Dr. Charles Wilson.

In connection with this Faculty there are two active societies, one an undergraduate medical society for which prizes are annually offered for the best papers showing original research and investigation. A large number of papers were handed in showing very thorough study and careful reading on the part of the candidates. A laboratory society was established last year composed chiefly of the younger men connected with the various laboratories. It meets monthly; laboratory methods and special laboratory research work is discussed.

FACULTY OF ARTS.

The total number of students (men and women) in the Faculty for the session 1898-99 was 296, of whom 186 were Undergraduates.

As this session was the last of the existence of the Donalda Department, whose members will hereafter be reckoned as students of the Royal Victoria College, it seems proper to state here separately the numbers belonging to McGill and to the Donalda Department.

Of the 186 Undergraduates, 139 were men and 47 women. Those were distributed among the several years as follows:—

First Year.. . . .	38, viz.	26 men and	12 women.
Second Year	56 "	46 "	and 10 "
Third Year.. . . .	47 "	36 "	and 11 "
Fourth Year.. . . .	45 "	31 "	and 14 "
Graduates.. . . .	12 "	4 "	and 8 "
Partials.. . . .	98 "	67 "	and 31 "

After careful consideration by the Faculties during the session, important changes were made by the Governors, on the recommendation of the Corporation, in the Statutes concerning Degrees.

The new degrees of B.Sc. and M.Sc. were created in the Faculties of Arts and of Applied Science. The Degrees of D.Sc. and D.Lit. were established for the encouragement of special research and learning in the domain of science and literature respectively. New regulations were passed for the degrees of M.A. and LL.D., the latter becoming a purely honorary degree (rights of graduates under the previous regulations being, however, guarded).

The new curriculum of studies referred to in the last Annual Report was in operation last session for the first year class, and is now in operation for the second year. The extension of it to the third year in 1900-01 will depend on the provision made for the necessary staff of Professors.

Through the generosity of the Governors the Zoological department has been greatly enlarged during the past vacation. It now consists of a large elementary laboratory capable of seating 100 students, and of a small advanced laboratory with accommodation for 18. In addition, there are two small rooms for graduate work, a private laboratory for the professor, a store room, a tank room and a preparation room.

In consequence of the increased equipment and accommodation, it is hoped that researches will be commenced during the present session.

At the Convocation in June last, five students in Medicine who had completed their course in Arts received the degree of B.A.

FACULTY OF APPLIED SCIENCE.

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

	April, 1898. B.A.Sc.	April, 1899. B.Sc.
In Architecture..	—	3
In Civil Engineering	7	5
In Electrical Engineering..	8	12
In Mechanical Engineering	13	11
In Mining Engineering	8	10
In Pract. Chemistry.. . . .	2	2
Ad eundem..	4	1
Ma.E.	3	M.Sc. 6
M.A.Sc.	3	
D.Sc. (ad eum)..		1
No. of Exhibitions awarded	2	2
No. of Medals awarded.. . .	4	8
No. of Prizes awarded.. . .	50	59

In 1898 the prizes awarded included prizes presented by the following, Messrs. H. Paton, E. B. Greenshields, W. H. Laurie, A. T. Taylor, J. M. McCarthy, M. Hutchison, C. J. Fleet and the Canadian Mining Review.

For session 1898-99 prizes were presented by Messrs. W. A. Carlyle, A. McFee, A. T. Taylor, E. B. Greenshields, M. Hutchison, J. M. McCarthy, C. J. Fleet, Fraser & Chalmers.

In April, 1899, the Royal Commissioners' Scholarship was awarded to Mr. W. B. McLean.

The number of students (undergraduates and partials) in the Faculty for session 1898-99 was 231, 2 of whom were taking a Graduate Course, and 5 were ladies taking some of the Architectural lectures, etc.

These students came from various districts as under:—

	First	Second	Third	Fourth	Grad.	Par- tials taking in several years	Total
Quebec..	35	19	16	24	1	9	104
Ontario..	17	19	14	14		1	65
Nova Scotia..	3	7	4	8			22
New Brunswick..	4	1	1	2	1	1	10
Prince Ed. Island ..	4	1	1				6

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Newfoundland.. . . .	3	1	1				5
British Columbia.. . . .	1	2					3
Manitoba.. . . .	1						1
North-west Ter... . . .	1						1
England.. . . .					4		4
United States.. . . .	2	2					4
Mexico.. . . .			1				1
Bermuda.. . . .	2						2
West Indies.. . . .	1						1
Hawaiian Islands			1				1
	75	52	39	48	2	15	231

Architectural Department :—At the close of session 1898-99, three students took the degree of B.Sc. in Architecture, being the first to graduate in this department.

The University is greatly indebted to the Royal Institute of British Architects, which, on its being represented that there was no complete set in Canada of the Institute Publications, has generously presented the University Library, through the Architectural Department, with the volume required, some 25 in all, dating from 1835 onwards.

FACULTY OF COMPARATIVE MEDICINE AND VETERINARY SCIENCE.

The total number of students of the Faculty of Comparative Medicine and Veterinary Science for this Session is 14. There are 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 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.

NO. OF STUDENTS—SESSION 1898-99.

	TOTAL	I YR.	II YR.	III YR.	PARTIAL.
Law...	67	27	17	20	3
		(I)	(II)	(III)	(IV) Graduates
Medicine.. . . .	447	134	126	94	83
		(I)	(II)	(III)	(IV) Partial, Grad
Arts....	296	Men 26	46	36	31
		Women 12	10	11	14
App. Sci.....	231	75	52	39	48
vet. Sci.....	15	5	4	6	15

AFFILIATED COLLEGES.

Morrin College, Quebec, which is affiliated in Arts, has, as in previous sessions, a staff of six professors and lecturers, and reports an attendance of 17 undergraduates, of whom 6 are in the first year, five in the second year, three in the third and three in the fourth, and 39 partial students.

Stanstead Wesleyan College, which is affiliated for the first two years in Arts, has four lecturers.

Vancouver College, B.C. is affiliated for the first year in Arts.

THEOLOGICAL COLLEGES.

The affiliated Theological Colleges have a large number of students, of whom many are undergraduates of the University, distributed as follows:— Presbyterian, 4; Diocesan, ; Wesleyan, 2; Congregational, 7; with 2 graduates in each of the three colleges last named, the Diocesan having, in addition, two graduates from other Universities.

	Total Students.	Under-graduates.	Graduates.
Presbyterian.. . . .	50	4	—
Diocesan.. . . .	22	—	2
Wesleyan.. . . .	37	2	2
Congregational	17	7	2

THE MCGILL NORMAL AND MODEL SCHOOLS.

During the Session 1898-99 122 teachers-in-training were enrolled in the Elementary Kindergarten and Model School Classes of the Normal School, viz.: 6 men and 116 women. In addition to these, 24 women and one man were admitted for the short four months' training in the Elementary School Class. In the Class in Pedagogy there were enrolled two men and 9 women, graduates and undergraduates of the University.

At the close of the Session there were conferred in the several classes 137 diplomas, eleven of these being Academy diplomas.

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GYMNASIUM.

Dr. R. Tait McKenzie reports a decrease in the attendance in the classes, attributable to two main causes, the conflict with lecture hours and the condition of the Gymnasium. The work is seriously handicapped by the almost uninhabitable state of the building, with leaky roof, shaky floor and extremely imperfect ventilation and heating. A new building convenient to the College grounds is a necessity for the satisfactory supervision of the sports and games, as well as the carrying on of the more purely educational work of the Gymnasium proper.

The physical examination of the students had to be made chiefly in the evenings, seventy new students being thus examined; and in several instances serious consequences were averted, by students, with physical defects of which they were unconscious, being warned against engaging in certain exercises.

An increase of means to provide for the extra assistance necessary for these examinations is much required, and it would be an immense advantage if all new students were included. Some new anthropometric apparatus is also much needed.

Eighty-one students were on the roll, belonging to the several Faculties of the University, and eleven women attended the Donalda class, under the instruction of Miss Hamilton, during the illness of Miss Barnjum.

REPORT OF THE LIBRARY COMMITTEE.

January 5, 1898, to June 23, 1899.

TO THE CORPORATION OF THE UNIVERSITY.

GENTLEMEN,—Your Committee begs to report herewith upon the work done in the University Library during the 18 months ended June 23 last. In order that comparison may be made with the annual report of issue, January, 1898, the statistics have been arranged to show the operations of two periods of 12 months each, viz., from January, 1898, to January, 1899, and from June 20, 1898, to June 20, 1899.

The number of readers in the Library, whether counted from January to January, or from June to June, has varied but slightly from that of the year 1897. In the year last mentioned there were 17,756 readers; in 1898, 17,380, and in the 12 months ending in June last, 17,549. While, however, the number of readers has been nearly stationary, the use of books has increased by nearly 25 per cent., as may be seen by referring to the tabulated statements at the end of this report. In this connection it should be mentioned that, in response to a very generally expressed wish, the evening hours during which the Library is open were a year ago extended so that the general Reading Room is now open 12 hours out of the 24, except on Saturdays and Sundays.

A special room has, during the year, been set apart for the accommodation of the architectural collection. This step became necessary in order to afford requisite facility in consulting the many large books in the collection, no less than to provide for the effective supervision of such valuable works. Thus far the arrangement appears to be satisfactory in both respects.

The co-operative catalogue, the plans for which received the sanction of Corporation a year ago, has been fairly started. With the aid of extra assistants, whose services have been given in return for instruction in library work, both the Library of the Young Women's Christian Association and the new Westmount Public Library have been catalogued. The cataloguing cards for the latter Library have been printed by the linotype process. The printing of the cards makes it possible to supply at a slight advance upon the initial cost as many duplicates as may be desired; and as this cost is divided among the libraries co-operating, the expense of a catalogue to each is decidedly reduced. At the same time each library may be informed of and have access to the books of the others while still controlling its own books. The Architectural Association of Montreal has now arranged to co-operate in the manner above indicated, and it is not unlikely that the Art Association may also come into the arrangement. If so, a joint catalogue of the works on fine arts in the libraries mentioned and in our own could be prepared with comparative ease. This would not only be of decided advantage to art students in the city, but would also enable the libraries interested to avoid unnecessary duplication of expensive works, thus making for economy and efficiency at the same time. It is

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precisely in the cataloguing of libraries devoted to special subjects that the field for co-operation is most promising.

In November last an invitation to read in the Library was extended to the teachers of the city schools. Their attention was specially directed to works in the Library on education and on the psychology of child life, while the books referred to in the course of lectures then being delivered in the High School were grouped together on special shelves in the Reading Room, where any teacher who desired to do so might readily consult them. Not a few of the teachers wrote testifying to their appreciation of what had been done.

Your Committee feels that the entire University (very specially the Library) is to be congratulated upon the invitation extended by the Board of Governors to the American Library Association, an invitation which will bring that influential body to Montreal next summer. The presence of the Association cannot fail to stimulate library effort throughout the city. It is hoped that a similar invitation to the Library Association of the United Kingdom and to the Librarians of this country may induce an attendance which will impart an added zest to meetings that are at all times of exceptional interest.

The gifts to the Library have been of unusual magnitude and importance. Mrs. Peter Redpath, of the Manor House, Chiselhurst, has continued her most generous yearly donation towards the support of the Library, has as usual presented many expensive and rare volumes, and in addition has provided extra cases for large books of plates.

The Library has been enabled through the munificence of Sir William Macdonald to purchase the entire collection of the late Prof. Otto Ribbeck, of Leipzig, the eminent latinist and philologist. This collection consists of some four thousand volumes, and as many more dissertations, the latter carefully arranged by Prof. Ribbeck himself. Moreover, the exceptional value of the original library has been greatly enhanced by the donor, who provided for the completion of many important sets, the addition of others, including the Corpus Inscriptionum latinarum, as well as for binding and thoroughly repairing wherever necessary. Owing to the time which was necessarily consumed in enlarging the collection, and in preparing for its shipment, the books arrived too late to be included in the acquisitions now reported; otherwise the additions to the Library for the year would have been over 7,000 volumes. Sir William Macdonald has also enriched the Chemical Department and the Department of Mining and Metallurgy by furnishing funds for the purchase of standard and recent works, as well as of long sets of leading journals in the subjects named. The donations under this head aggregate nearly one thousand volumes.

Your Committee reports, with much gratification, that the Board of Governors has caused to be painted, and has placed in the Library a portrait of the late Mr. J. H. R. Molson. This most appropriate action on the part of the Board was taken in recognition of Mr. Molson's large benefactions to the Library, and of the deep interest he unceasingly displayed in its welfare.

The Chancellor of the University has presented several hun-

dred volumes as the nucleus of the library of the Royal Victoria College, and has generously arranged for the purchase of many more, with the intent of establishing a good working library, which shall also be particularly strong in modern languages.

Mr. Charles A. Hanson, of London, has continued his valued gift of the London *Daily Times*, and the *Daily Witness* has been kindly continued by Mr. J. R. Dougall.

Mr. Henry Birks, of this city, has bought and presented to the Library 177 rare Canadian portraits and autographs. This is a most important acquisition, and greatly enriches the "Canadiana."

Mr. K. N. McFee, of London, has presented a number of standard works on economics, all beautifully bound in a special binding.

From Mrs. and Miss Kingsford have come the M.S. note books used by Dr. Kingsford in the preparation of his History of Canada.

Finally, the Royal Institute of British Architects most kindly and generously made a special effort to supply the library with missing parts of the publications of the Institute, the result being that the Library now possesses an almost complete file of the Papers, Transactions and the Journal of the Institute.

To the McGill College Book Club, to the Graduates' Society and to the many other friends whose names appear in the complete list of donors appended hereto, the Library is likewise under obligations.

Sixteen University Papers have been issued during the period covered by this report.

	Vois.
The number of volumes presented to the Library from January 5, 1898, to January 14, 1899, was.	2,130
From June, 1898, to June, 1899, it was.	2,173
The purchases during the same period were respectively.	709
And.	796
Received by exchange during latter year.	42
For the eighteen months embraced in this report the donations to the library amount to.	2,911
Purchases.	1,171
Exchanges.	42
	4,124
Deduct 11 volumes lost.	11
Net gain for 18 months.	4,113
There were in the Library on January 5, 1898.	47,031
*Total on June 23, 1899.	51,144

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

Respectfully submitted,

C. H. GOULD,
University Librarian.

On behalf of the Library Committee.

*Apart from 20,000 volumes in the departmental libraries.

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CONSPECTUS OF READING AND ATTENDANCE FROM JANUARY 5, 1898,
TO JUNE 23, 1899.

QUARTER ENDING.	READERS.	VISITORS.	TOTAL.	BOOKS READ.
April 23, 1898.. ..	7,527 ..	88 ..	7,615 ..	11,970 vols.
June 20, 1898.. ..	929 ..	103 ..	1,032 ..	1,851 "
Oct. 24, 1898'	3,339 ..	530 ..	3,869 ..	4,973 "
Jan. 14, 1899	5,385 ..	53 ..	5,638 ..	6,592 "
April 8, 1899	6,974 ..	81 ..	7,055 ..	11,015 "
June 23, 1899	1,651 ..	55 ..	1,706 ..	2,661 "
	<hr/>	<hr/>	<hr/>	<hr/>
	26,005	910	26,915	39,062 "

NOTE.—These figures do not include the work done in departmental libraries. Visitors have rarely been requested to register; hence the total under this heading represents but a fraction of those who have seen the library.

REPORT OF THE PETER REDPATH MUSEUM FOR THE
YEARS 1898-9.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—Your Committee beg to state that while the period covered by this Report has been an uneventful one in so far as the Museum is concerned, still considerable useful work has been accomplished. No proper extension of the collections is, however, possible with the limited means at the disposal of the Committee, and there is urgent need of some additional permanent endowment if any advance whatever is to be made. At present the only available income for the purchase of specimens is the interest (about \$80 a year) on the William Molson fund.

The Museum continues to attract a considerable number of outside visitors, and during the period in question entered their names on the register. Early in the session of 1898-99 the classes in advanced mineralogy were transferred to the Macdonald Chemistry and Mining Building, where better facilities for the work had been provided.

Through the kindness of the Board of Governors an additional electric lantern has been obtained for the small lecture room of the Museum, and has already proved invaluable for purposes of class illustration. A small grant of money for improvement of the Geological equipment has also enabled Dr. Adams to make a few interesting additions to the collections. Among these may be mentioned three models by Professor Davis of Harvard, illustrating some of the characteristics of sea-coasts. Mr. D. B. Dowling, B.A.Sc., of the Canadian Geological Survey, has also presented the Museum with a valuable model showing the geological structure of North-eastern Manitoba.

The beautiful collection of butterflies and moths purchased from Mr. Denton by members of the Board of Governors has been classified and arranged in the admirable cases provided for the purpose. Through the liberality of Sir W. C. Macdonald the Museum has also been enabled to acquire a valuable collection of coleoptera, made by Mr. Germain Beaulieu, advocate, of this city, and to obtain a cabinet in which to house the collection. This is no doubt one of the most important additions made to the collections for a long time past.

The necessity of obtaining a supply of anatomical jars was referred to in the last Report of the Committee, and since then a grant of money from the Board of Governors has enabled the Zoological Curator to purchase a number of jars of the most recent type, and to begin the re-organization of the anatomical collections. In this work the services of Edward Ardley and of Mons. Bailly have been most valuable.

On the 10th of October last, the Museum was placed at the disposal of the Teachers' Association of the Province of Quebec, in convention here at the time, and during the afternoon a lecture on Physical Geography was delivered to them by Dr. Adams, and was highly appreciated.

The thanks of the Committee are again due to Mrs. Redpath, of the Manor House, Chiselhurst, for her continued interest in

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the Museum, as manifested by her generous contribution of \$1,500 for the purposes of maintenance.

The list of donations received since the publication of the last Report is appended.

The whole respectfully submitted,

B. J. HARRINGTON,

On behalf of the Committee.

- From Mr. Charles Sheppard, Montreal, skull, vertebra and ribs of Beluga, from clay-beds, Montreal.
- From Mr. G. Percy Cole, 4 specimens of eggs of Golden-Winged Woodpecker.
- From Mr. W. F. Ferrier, B.A.Sc., Ottawa, Fossil Tortoise, from north side of mouth of Loramie River, Wyoming, U.S.A.
- From Sir W. C. Macdonald, Montreal, the Beaulieu Collection of Coleoptera, arranged and catalogued.
- From Miss J. Ardley, Montreal, specimen of Woodchuck (*Arctomys Mousæ*) from Bristol, P.Q.
- From Mr. E. F. McMillan, Glengarry Co., Ont., specimen of Black Squirrel.
- From Mr. L. M. Terrill, Westmount, Eggs of Red-shouldered Hawk, Spotted Sandpiper, Chestnut-sided Warbler, Wilson's Thrush, Indigo Bunting.
- From Dr. Kenneth Cameron, Montreal, specimen of Oil-bearing Shale from McAdam's Lake, 18 miles from Sydney, C.B.
- From Mr. F. Glober, Montreal, Indian Axe (locality unknown).
- From Dr. Charles Brewster, Lacolle, P.Q., Chalcedony Secretion from South America.
- From Dr. R. F. Ruttan, Montreal, specimen of Iridescent coal from the Hub Mine, Glace Bay, Cape Breton. Also specimen of Tram-plate (from the same mine) which had been under water for many years, and from which a large proportion of the iron had been dissolved away. The above specimens were obtained by Dr. Ruttan from Mr. W. J. Egar, of Glace Bay.
- From Mr. D. B. Dowling, B.A.Sc., Ottawa, Relief Map of North-west Manitoba.
- From Mr. A. Niblock, Medicine Hat, collection of Cretaceous Fossils from the vicinity of Lethbridge.
- From Mr. J. A. Grose, Montreal, large collection of Indian and Esquimaux Weapons, Knives, Ornaments, etc., from Great Slave Lake, Barrow Point and Alaska.
- From Master B. G. Harrington, Montreal, specimen of American Cross-bill (*Soxia curvisoetra minor*).
- From Miss Carrie M. Derick, M.A., Montreal, collection of North American Lichens.
- From B. Marcuse, Westmount, specimen of Ruby-throated Humming-bird (*Trochilus colubris*).
- From Lieut-Col. Grant, Hamilton, Ont., collection of Clinton and Niagara Fossils.
- From Mr. Charles B. Kingston, B.A., London, specimen of crystallized Sulphur from Italy.

ADDITIONS TO THE LIBRARY,
January 5, 1898, to June 23, 1899.
DONATIONS.

	Volumes.	
	Bound.	Unbound.
Aberdeen University..	2	1
Adams, F. A., Ph.D.		11
American Academy of Arts and Science.. . . .		1
American Association for the Adv. of Science (through Sir Wm. Dawson)..		1
American Historical Association.. . . .	3	
American Inst. of Mining Engineers.. . . .		1
American Library Association (through C. H. Gould)..		1
American Society of Civil Engineers.. . . .		6
American Society of Mechanical Engineers.. . . .		1
Ames, Mrs.	16	4
Ames, H. B.		2
Amherst College..		1
Bain, James, jun., Toronto Public Library ..	1	1
Baylis, S. M.	2	1
Binmore, Miss.		3
Bodleian Library..		1
Boston Book Company, for Columbia Law School..		1
Boston Public Library..		36
Bovey, H. T., LL.D.	1	
Bowdoin College..		1
Boyd, Hunter..	2	
Breeze, A. D., Hon. Sec. Incor. Mercantile Association, Plymouth..	1	
British and Foreign Bible Society..	1	
British Ass'n for the Adv. of Science.. . . .	2	
British Columbia, Supt. of Education.. . . .		6
British Columbia, Library of Legis. Assembly		1
British Medical Association..		1
British Museum, Trustees of..	7	4
Brockhaus, F. A., Leipzig..	17	
Brown, Fayette..	1	
Brown, W. Foster..	2	
Brown University..		1
Bryn Mawr College..		2
Buffalo University Club	1	
Burgess, James..		1
California University..		1
Canada—Department of Agriculture		1
Canada—Geological Survey..	1	
Canada—Department of the Interior.. . . .	1	
Canada—Library of Parliament..	1	
Canada—Queen's Printer..	42	3
Canadian Naturalist..		1
Canadian Society of Civil Engineers.. . . .		1
Capper, S. H.	4	4
Case School of Applied Science, Cleveland ..		2

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		Volumes.	
		Bound.	Unbound.
	Cenacle..		24
	Chandler, G. H..	2	
	Chapman, E. J..	1	
	Clark, W. B., Maryland Geological Survey..	2	2
	Coe, C. C..	1	
	Cole, G. W..		1
	Colliery Engineer Company..	4	
	Colorado—Bureau of Mines..	2	1
	Colorado University..		1
	Columbia University..	1	6
	Cooper, J. A., Ed. Canadian Magazine.. . . .		3
	Cornell University..		3
	Corne, J..		1
	Coussirat, Rev. D., D.D., and others.. . . .		7
	Crisp, F. A..	1	
	Crosskill, W. H., Legis. Librarian, P.E.I. . .		2
	Dartmouth College..		1
	Dawson, Benjamin..		1
	Dawson, Sir J. W..	2	2
	Dawson, W. B..		1
	Denio, Herbert W..		1
	Derick, Miss..		6
	DeWitt, Miss..	25	
	Dougall, Miss Lily..	1	1
	Douglas, James..	1	
	Dublin University	4	
	Durham University	1	
	Durley, R. J..	3	
	Edinburgh University	9	
	Emmet, T. A..	1	
	Evans, N. N..		1
	Fairbairn, Miss Helen..	2	3
	Fairbairn, H. A., M.D..	1	
	Finley, W. W., Southern Railway Company	1	
	Fleet, C. J..	1	
	Florence—R. Inst. di Studi Superiori Pratici e di Perfezionamento..		4
	Fock, Gustav	2	
	Fraser Institute..	1	
	Frederiks Univessitet, Christiania	7	
	Friends of the University..	35	7
	Garth, H. W..	13	
	Georgetown University..		2
	Globensky, E..		1
	Goughy, Lucien, Publisher		1
	Gould, C. H..	5	11
	Grafton, F. E..		2
	Gregor, L. R., Ph.D..		1
	Hadrill, George, Sec'y Montreal Bd. of Trade		2
	Hamilton Association..		2
	Hanson, C. A..		12
	Harrington, B. J.	1	
	Harrington, Mrs. B. J..	41	1
	Hartford Theological Seminary..		1

	Volumes.	
	Bound.	Unbound.
Harvard University..	2	2
Hebert, Abbe W., p.s.s..		1
Hickson, J. W. A..	3	
Hodgins, J. G..		1
Howard Association	1	
Hunter, J. H..	1	
Hutchins, F. A., Wisconsin Free Lib'y Comm'n		1
Idaho, University of		1
Iles, George	20	3
Illinois—Board of Canal Commissioners.. . .		4
Illinois—State Board of Health..	9	10
Illinois—Bureau of Labour Statistics.. . . .	4	2
Illinois—Live Stock Commissioners..	3	3
Indiana Academy of Science..		1
Institute of Civil Engineers, London.. . . .	6	2
Institute of Electrical Engineers, London ..	1	
Institution of Engineers and Shipbuilders in Scotland..	1	
Institute of Mechanical Engineers, London..		4
Iowa Geological Survey..	1	
Iowa Bureau of Labour Statistics..	2	
Iowa University..		2
Johns Hopkins University..		2
Jones, Mrs. W., Granby..	1	
Kansas Academy of Science..	1	
Kingsford, Mrs. and Miss..	33	
Kirkpatrick, —, M.D., Executors of the Estate of the late..	5	
Laidlaw, Miss..	1	
Laval University		1
Leclaire, Alphonse..		5
Leland Stanford Junior University		1
Lick Observatory..		1
Lighthall, W. D..		1
Liverpool, City of	3	
London, Royal Society of..		7
London—Society of Arts..		2
London—Society of Engineers..	1	
London, Zoological Society of..		1
London University..	1	
Lovell, R. K..	1	
MacAlister, Donald..	4	1
MacBride, E. W..	1	
Macdonald, Sir W. C..	940	97
Macfee, K. N..	31	
McGill Annual, Business Board of..	1	
McGill College Book Club..	336	18
McGill University Graduates' Society.. . . .	85	34
McGill University—Secretary's Office.. . . .	5	
Mackay, Miss..		4
Mackay, A. J. G..	1	
McLennan, Francis	25	7
McLennan, Hugh..	1	
McLennan, William..	4	

	Volumes.	
	Bound.	Unbound.
McLeod, C. H.		2
Macmaster University	1	
Macmillan and Bowes, Cambridge, Eng.	1	
Maine—Bureau of Statistics.	11	
Manchester, Lord Mayor of the City of.	20	
Manitoba—Queen's Printer	2	
Manitoba University.	1	
Mason College, Birmingham.	1	
Massachusetts—Bureau of Labour Statistics.	16	1
Massachusetts Railroad Commissioners.	5	
Massachusetts Institute of Technology.		3
Massachusetts—State Librarian.	17	5
Matthews, S. W., Maine Bureau of Labour Statistics.	1	
Melbourne University.	2	
Mendelssohn Choir	2	
Michigan—State Secretary.	1	
Michigan University.		2
Mignaty, George.	1	
Minnesota University		1
Missouri Botanical Garden.	1	
Missouri—Labour Bureau.	1	
Missouri—Geological Survey.	2	
Molson, J. H. R. (to complete donation of bibli- ography, 1895).	1	
Montreal—City Surveyor.	3	
Montreal, Mayor of.	1	
Montreal Diocesan Theological College.		2
Montreal General Hospital.		2
Mott, Henry.	2	5
Mount Allison College.		1
Murray, Rev. J. Clark, Ph.D.		1
Nadal, J., Paris.		1
National Electric Light Association.	2	
National Electric Light Association (through Sir J. W. Dawson).	1	
New Brunswick University.		2
Newfoundland—Colonial Secretary.	1	1
New Jersey—Geological Survey.	2	
New South Wales Public Library.	17	14
New York—Board of Education.	2	
New York—State Engineer and Surveyor.	1	
New York—State Labour Bureau.	8	4
New York—State Library.	3	
New York—State Museum.	1	
New York—State University.	4	
New York Academy of Science.		1
New York—Metropolitan Museum of Art.		1
New York—Public Library.		1
Nicolson, J. T.	2	
North Carolina Agricultural Experiment Sta- tion.		1
North-western University, Evanston, Ill.		2
Nova Scotia—Dept. of Education.		1

	Volumes.	
	Bound.	Unbound.
Nova Scotia—Queen's Printer..	2	
Ohio—Labour Bureau..	6	
Ontario—Department of Agriculture..	2	
Ontario—Department of Education..	3	20
Ontario—Bureau of Industries..	1	
Ontario—Queen's Printer..	12	
Osler, William, M.D., Johns Hopkins University..	1	
Ottawa—Joint Committee of the Library of Parliament..	1	
Oxford University..		2
Owens' College, Manchester	1	
Padova, Regale Università di..		2
Panjab University..	1	
Pennsylvania—Bureau of Mines..	1	
Pennsylvania—State Librarian..	15	
Pennsylvania University..	1	5
Perkins Institution..		2
Peterson, William, LL.D..	2	
Pisa, Royal University of..		1
Pratt Institute..		2
Princeton University	1	2
Quaritch, Bernard, London..		2
Quebec—Supt. of Public Instruction..		2
Quebec—Legislative Assembly..		3
Quebec—Legislative Librarian..		3
Quebec—Protestant Council of Public Instruction..	5	
Quebec—Provincial Government..		1
Queen's College, Kingston..	13	
Queensland, Agent General for..		3
Redpath, Mrs. Peter..	1	
Reid, Mrs. Robert..	58	1
Renouf, E. M..		7
Rice, William, London	1	
Robertson, W. W..		1
Rochester University..	1	
Royal Botanical Garden, Calcutta	2	
Royal Colonial Institute..	1	
Royal Institute of British Architects		5
Royal Observatory, Greenwich..	1	
Royal Society of Canada..	1	
Royal Society of Literature of the United Kingdom..	3	3
Royal Society of London..		3
Royal University of Ireland..	4	
Sadler, Ralph..	3	
St. Andrew's University..	1	
St. Mungo's College..	1	
Scott, Rev. F. G..	1	
Seminaire de Chicoutimi		1
Shurman, President, Cornell University..	1	
Simpson, Mrs. G. W.	2	
Slocum, C. E., M.D..		1

	Volumes.	
	Bound.	Unbound.
Smith, C. B.	4	
Smithsonian Institution	3	1
Smithsonian Institution (through Sir W. Dawson).	1	
Soc. Roy. Norweg. des Scs. a Trondjem.		1
South Australian School of Mines.		1
Stevenson, J. H.	1	
Stuart, C. J.	12	1
Sturtevant Engineering Company	2	
Sutton & Sons, Reading, England.		1
Sydney University.	1	
Thwaites, R. G.		1
Tokio—Imperial University of Japan.		1
Toronto—Public Library.		1
Toronto University.	2	3
Trinity College, London	2	
Trinity University, Toronto.	2	
Twining, Capt. P. G.	1	
Tulane University of Louisiana.		1
Union Theological Seminary.		1
United States—Department of Agriculture.	13	25
United States—Army, Engineer Department.	6	
United States—Census Office.	2	
United States—Coast and Geodetic Survey.	1	
United States—Bureau of Education.	7	
United States—Geological Survey.	7	
United States—Department of the Interior.	30	
United States—Department of Labour.	20	1
United States—Land Office.	1	
United States—Mint.	1	
United States—National Museum.	2	2
United States—War Department.	7	
University Club, New York.	1	
University College, Bristol.	1	
University College, Dundee.		1
University College of North Wales.	1	
University Membership in British School at Athens.	1	
Upsala University.		3
Vassar College.		1
Vaughan, Walter.	3	
Vermont—Board of Library Commissioners		1
Vermont University.		1
Vernon, T. A.	1	
Victoria University, Toronto	1	
Volta Bureau.	1	
Waddell, J. L. A.	1	
Wagner Free Institute of Science		3
Walton, F. P.	7	1
Western Society of Engineers.		1
Wisconsin—Geological and Nat. Hist. Survey		2
Wisconsin—Bureau of Labour Statistics.	1	4
Wisconsin—Free Library Commission.		2
Wisconsin—State Historical Society.	1	5

	Volumes.	
	Bound.	Unbound.
Worcester Polytechnic Institute..		2
Yale University..	1	1
Yeates, W. S., State Geologist, Georgia.. . . .	1	
Yorkshire College, Leeds..	1	1
Young Women's Christian Association, Mont- real..	1	

Beer W., Howard Memorial Library, New Orleans, 2 engravings	1	
Bishop, G..	1	1 engraving
Blackwood, Miss..		1 plan
Boston Public Library..		1 map
Burrows Brothers' Company, Cleveland.. . . .		1 photograph
Fairbairn, Miss H..		1 photograph
Gosnell, R. E., Victoria, B.C..		1 map
Gould, C. H..	2	photographs
Harrington, B. J..	3	prints
Jones, Rev. A. E., S.J..	2	maps
McAlister, Donald	2	photographs of M.S.S.
Macdonald, Sir W. C..	1	chart
McLennan, Francis..		2 maps
Mott, Henry	3	photographs and 1 broadside
Royal Geographical Society of London.. . . .	1	map section
Vaughan, Walter..		1 photograph
Wintle, Miss..	1	autograph of Duke of Wellington
Various Donors..		108 pamphlets

NOT BEFORE ENTERED.

	Bound.	Unbound.
Dawson, Sir J. W..	2	
Gordon, J. W..	1	
Gould, C. H.	1	
Lighthall, W. D..		1
McGill College Book Club	1	
McLennan, Francis..		1
Minneapolis Public Library..	1	
National Electric Light Association.. . . .	1	
Nicolet, Seminaire de		1
Norwegian North Atlantic Expedition.. . . .		6
Pisa, Royal University of		2
Quebec—Department of Public Instruction..		1
Waller, Rev. C. C..		3
Yale University..		2
Source uncertain	1	

IN EXCHANGE FOR UNIVERSITY PUBLICATIONS.

	Bound.	Unbound.
Academie Imperiale des Sciences de St. Petersbourg		3
American Academy of Arts and Science.. . .		1
Brown University—Anatomical Laboratory ..	1	
California University..		2
Cambridge Philosophical Society		2
Columbian Univ. (through Smithson. Inst.)		1

	Bound.	Unbound.
Geological Society of America..		1
New York Academy of Science..		1
New York State University..	1	
Paris—Museum d'Histoire Naturelle..		1
Pennsylvania University..		3
Royal Geographical Society..		3
Royal Society of London..		2
Smithsonian Institution..	2	2
Stockholm—Geological Society..		1
Tokio—Imperial University of Japan..		2
United States War Department Library..	1	4
Wisconsin Academy of Science..		1
Wisconsin State Historical Society..		1

IN EXCHANGE FOR DUPLICATE VOLUMES.

Porter, J. B., Ph.D..	6
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REPORT OF THE COMMITTEE OF MANAGEMENT OF
THE MACDONALD PHYSICS BUILDING.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—The most important change in the staff has been the appointment of Mr. E. Rutherford, M.A., to succeed Professor H. L. Callendar, F.R.S., who was called to the Chair of Physics at University College, London. Professor Rutherford came to Canada with an excellent record of important original work. He has taken up the teaching with great energy and success while continuing his investigations. The senior demonstrator, Mr. F. Pitcher, has received an important appointment, and Mr. H. T. Barnes has been awarded a Joule Studentship by the Royal Society of London. The Committee regret the loss of the services of these gentlemen, though they observe with satisfaction such proofs of the appreciation in which men trained in the University are held. Mr. Pitcher's work will be taken by Mr. R. O. King, and two additional demonstrators have been appointed:—R. K. McClung, B.A., and I. W. Fraser, B.Sc.

The introduction of Physics into the curriculum of the First Year in Arts, and its transference from the Second to the First Year in Applied Science, have largely increased the numbers of students working in the Physics Building this year.

During the year a sum of nearly \$2,000 has been spent in new machines for the workshops and fittings for the Building in addition to much apparatus which has been constructed by the Mechanic.

The Lecture Theatre continues to be much used by other departments of the University, and by visiting Societies.

The number of research students is increasing. Results of their work have been communicated to the Royal Society of Canada, the British Association, the Philosophical Magazine and other leading scientific serials.

Some of the researches concluded during the past year, or now in progress, are as follows:—

On the variation of the specific heat of water and of Mercury, by Professor H. L. Callendar, M.A., F.R.S., and H. T. Barnes, M.Sc.

On the Density of Solutions—H. T. Barnes, M.Sc.

On Frazil Ice—H. T. Barnes, M.Sc. (Royal Society of Canada).

A new method of determining the Conductivity of Metals—R. O. King and — Duncan.

Absolute determination of the E. M. F. of the Clark Cell—R. O. King.

The Damping of Electrical Oscillations—H. Brookes.

The Distribution of Currents in the cross-section of conductors—Professor E. Rutherford, M.A., and I. W. Fraser, B.Sc.

On Thorium Radiation—Professor E. Rutherford and R. B. Owens (Royal Society of Canada).

On Thorium Radiation—Professor R. B. Owens (Philosophical Magazine).

Radiations from Uranium, Polonium and Radium—Prof. E. Rutherford.

Measurement of the Energy of Radiation from Rontgen Tubes, and the Radiating Substances, Uranium and Thorium—Professor Rutherford and R. K. McClung.

On the Evaporation of Water from charged surfaces.—Professor Rutherford.

On the Discharge from Points—Professor Rutherford.

Time Effects in the Magnetization of Iron—F. H. Pitcher, M.Sc. (A special chronograph, capable of measuring exceedingly minute intervals of time, has been constructed in the Laboratory and installed by Mr. Pitcher.)

On the Circular Magnetization of Iron Wires—F. H. Pitcher (Philosophical Magazine).

Comparison of the Platinum Thermometer and certain Thermo-junctions—H. M. Tory, M.A.

The whole respectfully submitted,

(Signed),

JOHN COX,

(Director of the Laboratory on behalf of the Committee.)

CHEMISTRY AND MINING BUILDING.

Though 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:—

One of the most important events of the last session was the official opening of the Macdonald Chemistry and Mining Building by His Excellency the Governor-General on the afternoon of December 20. This date was chosen in order that Lord Strathcona, the Chancellor of the University, might be present on the occasion and take part in the proceedings. The ceremony took place in the large lecture theatre, which had been appropriately decorated for the occasion. Among the guests present were:—

Sir Sanford Fleming, Chancellor of Queen's University, Kingston; Dr. Henneker, Chancellor of Lennoxville; Principal Parkin, Canon Racicot, Vice-Rector of Laval; Hon. Sydney A. Fisher, Minister of Agriculture; Sir Alexander Lacoste, Sir Melbourne Tait, Professor Richards, of the Massachusetts Institute of Technology; Professor Goodwin, of Queen's University, Kingston.

After introductory remarks by the Chancellor, an address from the University was presented to His Excellency. Sir William Macdonald then presented a gold key of the building to His Excellency, who replied to the address, and declared the building open. Interesting addresses were afterwards delivered by the Hon. Sydney Fisher, Professor Richards, Professor Goodwin, Dr. Parker and Principal Peterson. Special interest also attaches to the occasion because of the official announcement then made by the Governor-General of the honour conferred by Her Majesty upon the generous donor of the building—an honour which was gratifying to every member of the University.

On the evening of the following day a *conversazione* was held, to which more than 1,700 guests were invited. The new Building was connected with the Engineering Building on the one hand and the Physics Building on the other, by means of temporary corridors, so that an opportunity was afforded of inspecting the entire suite of laboratories presented to the University by Sir William Macdonald.

The work of the Mining Department had been carried on in the Building during the session of 1897-98, but the Chemical, Mineralogical and Petrographical Laboratories were not occupied until the beginning of last session. The work of equipment has gone steadily on, and is now approaching completion. Most of the books presented to the Library by Sir William Macdonald have arrived, and have already proved invaluable to both staff and students. Details concerning the Laboratories are to be found in the University Calendar.

During the year the building has been visited by many distinguished strangers, all of whom have expressed the warmest approbation of the laboratories and their equipment.

The following is a statement of the principal research work carried on in the building during the past session. The smallness of the staff, however, makes research almost out of the question, and only a portion of that begun last year has as yet been completed.

1. Investigation of the causes of the solubility of Iodine in solutions of the various Iodides.
 2. The optical activity of the Phenylbrom-acetic Ethers.
 3. The optical activity of the salts of Mandelic Acid at high dilutions.
 4. The inversion of optical activity of Chlor-phenyl-acetic Acid by means of Potash.
 5. The Hydrolysis of Amygdalines.
 6. A new form of air Thermometer suitable for use at moderate temperatures (0 to 50 degrees).
 7. Determination of the Transformation Point of Hydrated Sodium Sulphate with the above air thermometer; the result obtained being 32.44 degrees. The object of this investigation was to provide a third definitely fixed point of temperature for the testing of thermometers.
 8. Determination of the Transformation Point of Hydrated Sodium Sulphate in presence of Sodium Chloride in excess, the value obtained being 17.64 degrees.
 9. A chemical study of some of the Eruptive Rocks of Montreal.
 10. Investigation of Hornblende from one of the Montreal Teschenites.
 11. The application of the Cyanide method to Arsenical Gold Ores.
 12. Comparisons of the several modifications of the Chlorination and Bromination Processes as applied to identical lots of Auriferous Concentrates.
 13. The Concentration of Molybdenite from Quartz and Granite Rocks.
 14. The British Columbia Miner's Inch.
 15. Petrography of Mount Johnson.
 16. Continuation of Research on the Flow of Rocks.
 17. Artesian Borings in the Island of Montreal.
 18. Petrography of Rigaud Mountain.
- Numbers 1 to 5 were carried out under Dr. Walker, numbers 6, 7 and 8 by Dr. A. P. Saunders, numbers 9 and 10 by Dr. Harrington, numbers 11 to 14 under Dr. Porter, numbers 15 to 17 by Dr. Adams, and number 18 by Mr. O. E. LeRoy.

REPORT ON THE BOTANIC GARDEN FOR 1898-99.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—During the past session the collections have been enriched by the addition of valuable material from Australia and the Arnold Collection. Two hundred and sixty-six students received the benefit of the advantages offered for practical work, and it is pleasing to note that some of the more advanced schools of the City continue to avail themselves of the special facilities which the Garden affords. The system of students' tickets, under which material may be obtained for independent practical work, which has now been in operation for several years, continues to prove a most desirable means of encouraging a wider and more intimate acquaintance with plants.

During the month of November a special exhibition of Chrysanthemums was held, as a means of bringing the work of the Garden into greater prominence. The very great interest manifested on that occasion justifies the belief that a reasonable extension of such exhibitions during the year may result in material benefit.

Our relations with kindred institutions continue on the same friendly basis as heretofore, and the same exchanges have been made as in former years.

(Signed),

D. P. PENHALLOW,

Director.

REPORT OF THE SUPERINTENDENT OF THE
OBSERVATORY, OCTOBER 1st, 1899.

TO THE CORPORATION OF MCGILL UNIVERSITY,

GENTLEMEN,—Since the date of my last report on the work of the Observatory, January 1st, 1898, the usual meteorological observations have been made without interruption, and the results have been published in the form of monthly and yearly abstracts.

A continuous record of air temperatures is now obtained by means of the Callendar self-recording thermometer, and the same apparatus has also been successfully applied to record, automatically, the differences of temperature between Mount Royal and the College Grounds. The expense of the installation of the apparatus for this latter work was met by a grant from the British Association for the Advancement of Science.

The soil temperature observations, which were commenced in 1895, have been continued without break up to this date.

The time service described in former reports has been conducted with the usual care.

In July and August, 1898, observations were made, in co-operation with Commander Morris Smyth and officers of H.M.S. "Egeria," for the determination of the longitude of Esquimalt and Vancouver, B.C.

I regret having to report that, on account of the withdrawal of the Dominion Government grant to the Observatory (500), it will be necessary to discontinue a portion of the work now in progress unless funds can be procured from some other source to provide the necessary clerical assistance.

C. H. McLeod.

Superintendent.

ROYAL INSTITUTION FOR THE
Balance Sheet for the

ORIGINAL ENDOWMENT AND DONATION IN LAND.		
Hon. James McGill's Bequest		\$ 425,235 04
DONATIONS OF LANDS, BUILDINGS, APPARATUS, &c.:-		
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	
Thomas Workman Mechanical Workshops and Equipment, bequeathed by the late Thomas Workman....	57,137 31	
Sir W. C. McDonald, donation towards building of Workshops	20,000 00	
Subscriptions towards Equipment of Thos. Workman Workshops	13,150 04	
John H. R. Molson donation for Extension to Medical College	62,153 86	
Macdonald Engineering Building and Equipment, the gift of Sir W. C. Macdonald	434,082 30	
Subscriptions towards Equipment of the Macdonald Engineering Building	128,130 47	
Macdonald Physics Building and Equipment, the gift of Sir W. C. Macdonald	248,277 57	
University Library Building, the gift of Peter Redpath, Esq	135,000 00	
Lot above Medical College, the gift of Sir W. C. Macdonald	1,600 20	
Sir W. C. Macdonald gift of University St. Lot	8,737 86	
Observatory Property, the gift of Sir W. C. Macdonald	70,405 12	
Macdonald Chemistry and Mining Building, the gift of Sir W. C. Macdonald	255,652 92	
Miscellaneous donations to Equipment, Books, &c.....	71,138 81	\$1,675,466 46
ENDOWMENTS.		
MISCELLANEOUS :-		\$2,100,701 50
Subsequent General Endowment	\$ 58,670 00	
Endowment Fund of 1881	33,500 00	
J. H. R. Molson Endowment	100,000 00	
Dr. Geo. W. Campbell Memorial Fund for Medical Faculty	53,006 04	
Leacholl 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. Robert Craik Fund in the Medical Faculty	4,000 00	
Mrs. Mary Dow Bequest, Medical Faculty	9,000 00	
Sir Donald A. Smith Endowment Fund for Donalda Special Course for Women	120,000 00	
Philip P. Carpenter Fellowship Endowment Fund	7,000 00	
John Frothingham Principal Fund	40,000 00	
Applied Science Endowment Fund	6,100 00	
Faculty of Law Endowment	10,000 00	
Sir W. C. Macdonald Endow't Fund for Faculty of Law do do Maintenance of Engineering Building	200,000 00	
Sir W. C. Macdonald Endowment Fund for Maintenance of Physics Building	85,000 00	
Macdonald Endowment for Maintenance of the Architectural Department	150,000 00	
Macdonald Mining and Metallurgy Dept. Endowment (Part)	10,000 00	
Macdonald Auxiliary Fund	25,000 00	
Thomas Workman Workshops Endowment	278,750 00	
Pension Fund Endowment in Faculties of Arts and Applied Science	59,862 69	
Graduates' Endowment Fund, Faculty of Applied Science	150,000 00	
Wm. Wood Redpath Memorial	85 00	
British Association Apparatus Fund	1,000 00	
Museum Endowment Fund	1,500 00	
Wm. Molson Library Fund	2,000 00	
Hon. F. W. Torrance Mental and Moral Philosophy Book Fund	4,400 00	
Eugh S. McLennan Library Endowment	1,000 00	
Faculty of Applied Science Library Endowment	250 00	
Faculty of Arts Endowment	881 05	
Sir W. C. Macdonald Endowment for Maintenance of Chemistry and Mining Building	4,300 00	
	225,000 00	\$1,790,304 78
CHAIRS.		
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 90	
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	
Carried forward		\$1,790,304 78 \$2,100,701 50

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ADVANCEMENT OF LEARNING.
year ending June 30th, 1899.

IMMOVEABLE PROPERTY:—

College Grounds	\$ 71,630 43
Main Building—Centre Building, East and West Wings and Corridors, etc	99,722 03
Medical Faculty Buildings	123,925 95
Porter's Lodge	2,125 00
Observatory Buildings	4,893 89
Macdonald Observatory Property	70,405 12
Gymnasium	8,718 59
Peter Redpath Museum Building	100,000 00
Thomas Workman Mechanical Workshops	67,298 07
Macdonald Engineering Building	157,221 18
Macdonald Physics Building	146,166 97
University Library Building	135,000 00
Macdonald Chemistry and Mining Building (unfinished) ..	188,461 46

\$1,174,978 69

MOVEABLE PROPERTY:—

Equipment Chemical Laboratory	4,809 60
Museum Collections, etc	52,302 57
Philosophical Apparatu	1,568 58
Natural Science Apparatus	7,285 76
Library Fixtures and Furniture in old Building	5,461 17
Donalds do do	350 00
Law do do	816 48
Arts do do	9,362 54
Books in Library	59,616 27
Equipment Thomas Workman Mechanical Workshops ..	23,079 28
Equipment Macdonald Engineering Building	407,921 98
do do Physics Building	110,897 15
do do Chemistry and Mining Building (in- complete)	60,316 67

\$743,898

Carried forward **\$1,918,876 74**

ROYAL INSTITUTION FOR THE
Balance Sheet for the

CHAIRS.—Continued.	Brought forward \$1,790,304 78 \$2,100,701 50
Sir W. C. Macdonald Chairs of Physics	100,000 00
do do Chair of Electrical Engineering ..	50,000 00
Chas. Gibb Botanical Chair Endowment	8,200 00
Macdonald Chair of Chemistry	50,000 00
Sir W. C. Macdonald Chair of Mining and Metallurgy ..	50,000 00
Macdonald Mining and Metallurgical Dept. (Part Asst. Prof.)	30,000 00
Sir W. C. Macdonald Chair of Architecture	50,000 00
Dr. Wm. Kingsford's Chair of History, founded by Sir W. C. Macdonald	50,000 00
Jos. Morley Drake Chair of Physiology	10,000 00
Sir Wm. Dawson Fellowship on Mining and Metallurgy ..	11,123 00
	\$ 667,393 32

MEDALS, SCHOLARSHIPS, &C.	
Hannah Willard Lyman Memorial Fund	1,074 05
Neil Stewart Prize	340 00
Anne Molson Gold Medal	1,200 00
British Association do and Exhibition	2,605 00
Henry Chapman do	700 00
Elizabeth Torrance do	1,000 00
Sir W. E. Logan do	1,400 00
Prince of Wales do	1,000 00
Shakespeare do	1,000 00
Sutherland do	1,000 00
Major Hiram Mills do and Scholarship	1,500 00
Jane Redpath Exhibition	1,667 00
Sir W. C. Macdonald Scholarships	25,000 00
Barbara Scott Scholarship	2,000 00
Walter Scott Exhibition	1,100 00
Dr. T. Sterry Hunt Scholarship	3,571 58
Charles Alexander Scholarship	2,000 00
	\$ 47,757 63

PROFIT AND LOSS ACCOUNT		\$2,505,455 73
ARREARS OF INTEREST		36,194 34
CAPITALIZED REVENUE		15,668 34
INCOME DEVOTED TO SPECIAL PURPOSES NOT YET EXPENDED	91,956 21	
Less Sums expended in advance	21,399 86	
		\$ 70,556 35
		\$4,770,672 90

INCOME.

CASH ON HAND OF UNEXPENDED INCOME OF SPECIAL ENDOWMENTS, SCHOLARSHIPS, APPROPRIATIONS, ETC., ON THE 1ST JULY, 1898.		\$ 48,856 41
From Fees collected:		
University Fees	\$ 3,566 25	
Faculty of Law Fees	2,737 70	
Faculty of Arts Fees	6,073 75	
Faculty of Applied Science Fees	29,180 75	
Donalda Fees	2,435 50	
Library Fees	1,533 00	
Gymnasium Fees	983 75	
College Grounds Fees	1,747 00	
Miscellaneous Fees	629 47	
		\$48,887 17
" Income received from Investments, Deposits in Bank, etc.	117,580 40	
" Government and other Grants	5,587 50	
" Donations and Subscriptions	55,802 33	
" Caution Money, Deposits, etc.	2,112 00	
" Miscellaneous Receipts	6,096 83	
		236,066 23
Deficiency in Revenue for the year		10,744 98

\$295,667 62

MONTREAL,

Verified, **MACINTOSH & HYDE, Auditors**

THE
for the
0,701 50

INSTITUTION for the ADVANCEMENT OF LEARNING,
30th June, 1899.

AMOUNTS UNPAID IN RESPECT OF ENDOWMENTS.....	Brought forward	\$1,918,876 74
INVESTMENTS IN MORTGAGES, ETC.....		7,800 00
AMOUNT PAYABLE IN RESPECT OF ARREARS OF INTEREST.....		2,675,719 94
		12 266 96



4,455 73
1,194 34
668 34

556 35
672 90

856 41

CASH ON DEPOSIT IN BANK.....	156,009 26
	\$ 4,770,672 90

W. VAUGHAN, *Bursar*.

EXPENDITURE.

For Salaries of Principal, Secretary, Office and Library Staff, School Examiners, etc., etc., etc.....	\$ 16,968 76	
Salaries for Instruction (including Deanships).....	94,569 37	
Salaries for Foremen in Workshops, Mechanics, etc.....	10,701 09	
Salaries and Wages for Janitors, Cleaning, etc.....	10,881 79	
Repairs, Improvements to Buildings, etc.....	5,325 78	
Apparatus, Machines, Tools, etc.....	18,389 90	
Repairs to Apparatus, etc.....	239 40	
Supplies and Materials.....	3,722 36	
Lighting.....	1,586 32	
Fuel.....	8,446 46	
Printing.....	2,909 98	
Advertising.....	896 06	
Insurance.....	1,403 13	
Stationary and Postage.....	2,108 61	
Furniture.....	289 60	
Water.....	1,063 58	
Removing Snow from Roofs.....	111 83	
Miscellaneous.....	8,561 45	
Scholarships, Exhibitions, Medals and Prizes.....	4,852 36	
Library,—for Books, etc.....	3,050 25	
Amounts paid to Faculty of Medicine, being interest on their Endowments.....	8,572 81	
Caution Money Deposits.....	1,997 00	
Annalties.....	2,855 00	
Advances and Extraordinary Expenditure.....	4,244 06	
		213,747 45

REVENUE CAPITALIZED.

Interest on Dr. T. Sterry Hunt Scholarship.....	240 82	
Chair of Mining Subscriptions.....	11,123 00	
		11,363 82
CASH ON HAND OF UNEXPENDED INCOME OF SPECIAL ENDOWMENTS, SCHOLARSHIPS, APPROPRIATIONS, ETC., on the 30th June, 1899.....		70,556 35
		\$ 295,667 62

W. VAUGHAN, *Bursar*.

7 62
8

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

RECEIVED.		
CASH ON HAND on the 1st July, 1898.....		
For Investment.....	76,427 38	
For erection of Chemistry and Mining Building (Sir W. C. Macdonald Donation).....	72,573 53	149,000 91
ENDOWMENTS :—		
Sir W. C. Macdonald :—		
For Department of Mining and Metallurgy.....	55,000 00	
For Maintenance of Chemistry and Mining Building (additional).....	90,000 00	
For Macdonald Auxillary Fund (additional).....	51,250 00	
For Chair of Electrical Engineering (additional).....	10,000 00	
To found Dr. Wm. Kingsford Chair of History.....	50,000 00	
	256,250 00	
BUILDINGS AND EQUIPMENT :—		
Sir W. C. Macdonald Donation for the erection of Chemistry and Mining Building.....	7,377 54	
Sale of Old Chemical Laboratory Equipment.....	60 00	
	7,437 54	
Subscriptions from Board of Governors to General University Fund.....	183,500 00	
INVESTMENTS REPAID DURING THE YEAR.....	167,931 05	
INCOME CAPITALIZED :—		
Interest on Dr. T. Sterry Hunt Scholarship.....	240 82	
Sir William Dawson Fellowship (Subscription Chair of Mining).....	11,123 00	
	11,363 82	
		626,482 41
		\$775,483 32

MONTREAL,

Verified, MACINTOSH & HYDE, Auditors.

INSTITUTION for the ADVANCEMENT of LEARNING.
 30th June, 1899.

DISBURSED.

BUILDINGS AND EQUIPMENT :—		
Macdonald Chemistry and Mining Building.....	\$33,577 09	
Macdonald Chemistry and Mining Building Equipment...	39,499 19	
		73,076 28
EXPENDED ON PROPERTIES :—		
Griffin Property		73 66
INVESTED DURING THE YEAR		606,049 33
		<hr/>
		679,199 27
AMOUNTS CARRIED TO PROFIT AND LOSS ACCOUNT amount of Capital used to make up Deficit in Income (see <i>Statement of Income and Expenditure</i>).....		
Loss of Capital on Bonds and Property.....	10,744 98	
	86 16	
		<hr/>
		10,831 14
CASH ON HAND ON THE 30TH JUNE, 1899 :—		
For investment.....	78,578 12	
For erection of Chemistry and Mining Building (Sir W. C. Macdonald Donation).....	6,874 79	
		<hr/>
		85,452 91
		<hr/>
		\$775,483 32

W. VAUGHAN, *Bursar.*