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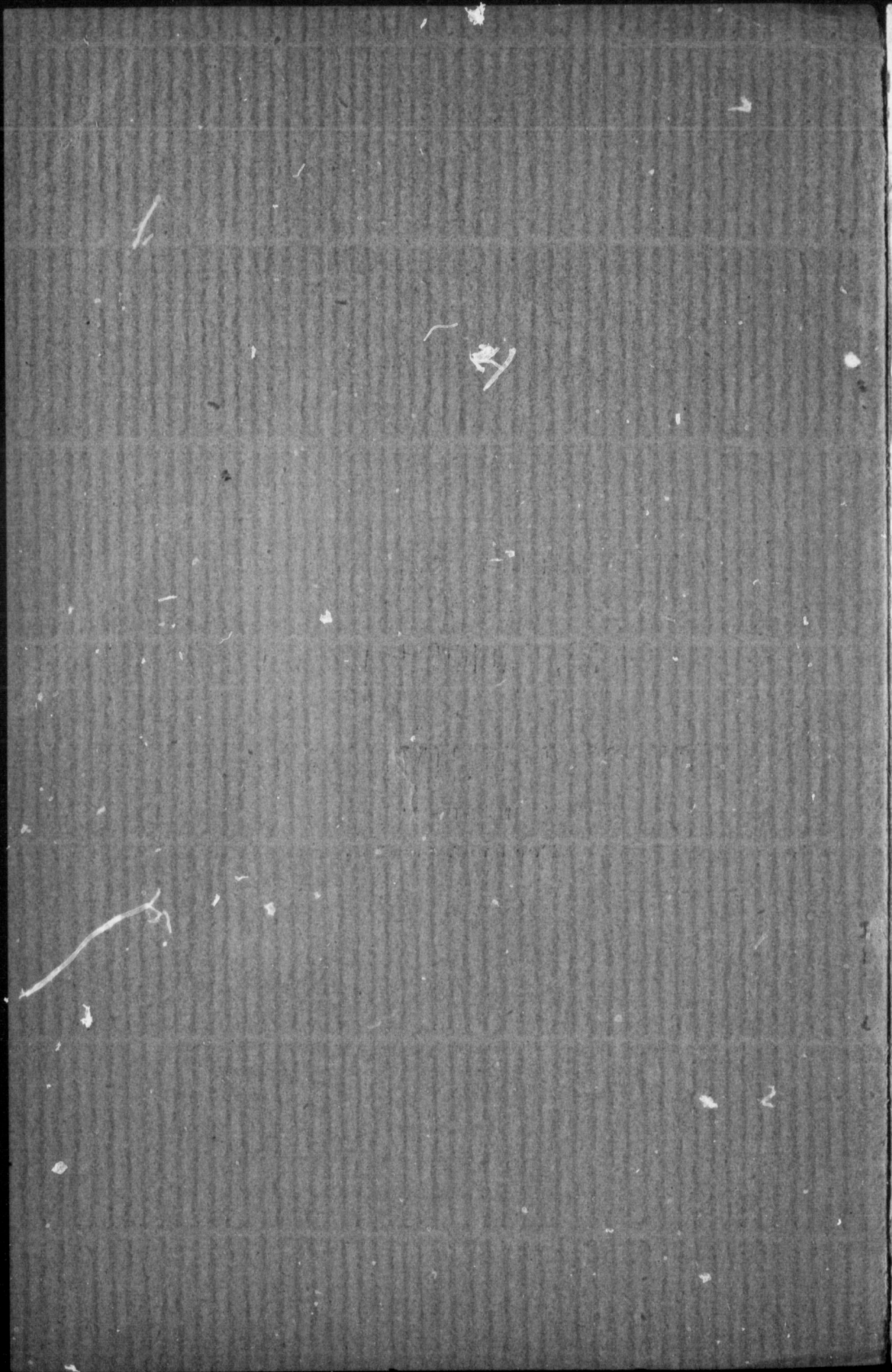
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**ANNUAL REPORT**  
OF THE  
**GOVERNORS, PRINCIPAL AND FELLOWS**  
OF  
**MCGILL UNIVERSITY,**  
**MONTREAL,**  
For the Year 1897.

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

*To His Excellency the Right Honorable John Campbell Hamilton Gordon, Earl of Aberdeen, 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 December, 1897.

Changes have taken place in the composition of the Board of Governors. Reference was made in our last Report to the removal by death of Sir Joseph Hickson, which occurred in the early days of the new year. A further loss was sustained some months afterwards by the death of Mr. John H. R. Molson, the Chairman of the Board, who succumbed to a long and painful illness on 28th May, 1897.

Of Mr. Molson it may be said that the University never had a truer or a better friend. For upwards of thirty years he devoted himself most ungrudgingly to its work and service, sparing neither time nor money in the promotion of its interests. His loyalty and devo-

tion, the zealous care with which he attended even to details of business administration, and his intense moral earnestness, will always be a cherished memory with all who knew him. The following is the resolution adopted at a meeting of the Board of Governors, held on the day after Mr. Molson's death :—

It was unanimously resolved that in recording the removal by death of Mr. John H. R. Molson, the senior member of the Board, the Board deplore the loss of a friend and colleague, held in the highest esteem and the affectionate regard of every member. They desire to express their deep sense of the gratitude which they owe to him for the ungrudging devotion of his time, energy and business sagacity during a period of nearly thirty-two years to the affairs of the University; for the liberal benefactions in aid of its work, with which his name will ever be associated; and for his kindly personal interest in its members and officers. They desire also to convey to Mrs. Molson the expression of their heartfelt sympathy with her in her sad bereavement and also to the other members of the deceased's family.

The removal by death must also be regretfully recorded here of Dr. T. Johnson Alloway, Associate Professor of Gynaecology in the Faculty of Medicine, and of Dr. R. C. Kirkpatrick, Lecturer in Clinical Surgery.

The vacancies on the Board of Governors have been filled by the appointment of R. B. Angus, Esq., Sir Wm. C. Van Horne, K.C.M.G., James Ross, Esq., and C. S. Campbell, Esq., B.A., LL.D. It is a source of satisfaction to the Governors and to the University generally that gentlemen of such marked ability and high standing should have so readily consented to give their services in connection with the work of the Board.

#### FINANCIAL CONDITIONS.

A year of grave financial anxiety has been somewhat brightened, not only by the steady progress which is being made in consolidating the teaching interests of

the University, but also by the continuance of those exceptional donations which have so greatly enriched our recent history. Reference is made, under the proper heading, to the generosity of the Chancellor, the Rt. Honourable Lord Strathcona and Mount Royal, in undertaking the foundation of a new chair of Zoology; to the bequest of \$100,000 by the late Mr. Molson, as an endowment fund "for general purposes;" and to the munificent gift of \$225,000 by Mr. W. C. McDonald, as an auxiliary fund to provide for any deficiency in the income of endowments established by himself, in addition to donations of \$50,000 to found a new chair of Chemistry, and \$50,000 for the further endowment of the Faculty of Law.

While every friend of the University will congratulate it on having received these great benefactions during the past year, and will admire, in particular, the wise foresight displayed by Mr. W. C. McDonald in providing that the University shall continue to enjoy the full benefit of his endowments, in spite of the decreased revenue from investments, it must be stated, with regret, that the general financial position is such as to cause grave anxiety to the Board of Governors.

The Balance-Sheet appended to this Report will show in detail the actual state of affairs as at 30th June, 1897. It needs only to be stated here that the difficulty in equalizing the expenditure with the revenue arises not merely from the conditions of the educational situation, in which the University finds itself charged with heavier responsibilities than its existing resources enable it to meet, but also from other causes, the pressure of which is keenly felt at the present time in all departments of business administration. Chief among these is the continued decline in the rate of interest obtainable on investments,—a factor which operates very seriously alongside of an expenditure which must almost inevit-

ably increase with the development of the work of the University.

It is feared that this decline in the rate of income from investments will continue to be felt for some time to come.

Without reducing the work of the University, a course which would be detrimental alike to its own interests and those of education in the Province of Quebec, it would be impossible to make any effective reduction of the expenditure, in which the Governors have already made such retrenchments as they consider safe, having due regard to efficiency.

In spite, therefore, of the large donations which it has received within recent years (mainly for special purposes), the University is at the present moment conspicuously in need of further financial assistance, in order to bring the revenue to an equality with the expenditure. To accomplish this, a sum of not less than \$400,000 is urgently needed, and there is no way in which the friends of the University can more effectively promote its welfare than by securing such a contribution to its General Funds. Without such assistance the Board feels that the University will be very seriously handicapped in the effort to go forward with the educational work which makes ever-increasing demands upon its resources.

#### WANTS OF THE UNIVERSITY.

Among the other wants of the University, a brief reference may again be permitted to the need for further endowments in the Faculty of Arts, a Biological building, residential accommodation for students, an Art Museum, a Gymnasium, a larger number of Entrance Scholarships, Research Fellowships, and an increase in

the funds at the disposal of the Library and Museum Committees.

Of the Faculty of Arts in particular, it may be said that it is struggling to overtake a comprehensive programme of teaching on very slender endowments. This fact will become even more obvious than it is at present when the new curriculum goes into operation at the beginning of next session. It is hoped that under this new curriculum the excellent work which is being at present accomplished in the Faculty will be fully maintained. But some advances must be made in the near future. At present the Faculty possesses only one Chair of Philosophy (Mental and Moral). There are no endowed Professorships of Modern Literature, and no provision whatever is made for the teaching of such subjects as Economics and Political Science. Endowments are required also for existing chairs, such as Botany, History, Classics, Oriental Languages, and for existing Lectureships in French, German and other subjects of the ordinary curriculum. And it should be borne in mind that the gift of an endowment for any one of these purposes would not only meet a clamant need in regard to particular subjects, but would also lighten the load which has already been referred to as pressing so heavily upon the General Funds of the University.

#### THE YEAR 1897.

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

Law, B.C.L. . . . .	18
“ D.C.L. . . . .	2
Medicine, M.D. . . . .	76
Arts, B.A. (14 women) . . . . .	46
“ M.A. . . . .	4

Applied Science, B.A.Sc.. . . .	39
“ “ M.A.Sc.. . . .	1
“ “ Ma.E.. . . .	1
Veterinary Science, D.V.S.. . . .	11

There were also admitted to the degree of B.A., “ad eundem gradum,” Katherine T. Lyman, B.A., Vassar College, Poughkeepsie, N.Y.; and to the degree of B.A.Sc., “ad eundem gradum,” Lee Treadwell, B.C.E., Industrial University of Arkansas, Pencoyd, Pa., U.S.A., and Alexander Lawson Mellanby, B.Sc., University of Durham, Newcastle-on-Tyne, England.

Ten gold medals were awarded to successful candidates, besides the Wicksteed Silver and Bronze Medals, for Physical Culture, the Aberdeen Silver Medal in Applied Science, and a Silver Medal in Veterinary Science.

In the classes of the Normal School, 106 Diplomas were granted by the Superintendent of Public Instruction, namely: 11 for Academies (10 being to graduates in Arts of the University), 42 for Model Schools and 53 for Elementary Schools.

In the June Examinations for the title of Associate in Arts held this year at 36 centres, 214 candidates presented themselves, of whom 145 passed the examination successfully. Besides these, two candidates passed the Examinations for the title of Advanced Associate in Arts, and 124 came up for preliminary subjects only. Many of the candidates for the A.A. certificate fulfilled the requirements for matriculation, and, in addition, 92 candidates were examined for matriculation only, coming from 38 centres. The total number of candidates thus qualified for entrance was 82, viz., 9 for Medicine, 48 for Arts or Medicine, and 25 for Applied Science.



At the September Entrance Examinations in Arts, 4 Scholarships, 8 Exhibitions, and 4 Bursaries were awarded, varying in value from \$125 to \$90 for the two former, and smaller amounts for the Bursaries. They are the gifts of Lord Strathcona and Mount Royal, Mr. W. C. McDonald, Mr. Hague, the late Major Mills, Mrs. Jane Redpath and the New York Graduates' Society.

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.

The total number of Students attending classes in McGill College in the present session is distributed as follows :—

Faculty of Law.....	47
“ “ Medicine....	425
“ “ Arts.....	} 372
{ Men..... 249	
{ Women... 123	
“ “ Applied Science.....	229
“ “ Veterinary Science.....	24
	<hr/>
	1097
Deduct, repeated in different lists....	24
	<hr/>
	1073

In McGill Normal School—

Teachers in training.....	168
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In the Affiliated Colleges in Arts:—

Morrin College, Quebec—

Undergraduates	} ..... 74
{ 1st Year 5	
{ 2nd “ 6	
Partial Students.....	61

St. Francis College, Richmond—		
Undergraduates, 1st year.....	4	} ..... 5
Partial Students.....	1	
Wesleyan College, Stanstead—		
Undergraduates, 2nd year.....	3	} ..... 5
Partial Students.....	2	

Among the more important and interesting events of the past year may here be chronicled the presentation of an Address to Her Majesty the Queen on the occasion of the celebration of Her Majesty's Diamond Jubilee,—a gracious acknowledgment of which was duly received by the Chancellor through the Secretary of State for the Colonies; the elevation to the Peerage of the Chancellor of the University; the celebration of Emeritus Principal Sir William Dawson's Golden Wedding, in connection with which all sections of the University eagerly seized the opportunity of again testifying to their high appreciation of the services he has rendered to the University and of the achievements of a long and laborious life; the reception and entertainment of the members of the British Association, when on their way to hold their annual meeting at the sister University of Toronto; and the meeting of the British Medical Association (the first ever held outside the British Islands), within the halls of the University, under the Presidency of Dr. T. G. Roddick, of our own Faculty of Medicine.

#### NEW ENDOWMENTS AND DONATIONS.

A bequest of \$100,000 to form an endowment fund for general purposes has been received from the Estate of the late Mr. John H. R. Molson, together with a valuable collection of books, coins, etc.

Mr. W. C. McDonald has again contributed \$10,000 to make up the deficiency in the income of the Faculty of Applied Science, and has further added to his former

generous gifts \$50,000 to endow a new chair of Chemistry in the University; \$50,000 additional endowment for the Faculty of Law; and \$225,000 to form an auxiliary endowment fund to provide for any deficiency in the income of the endowments established by himself. He has also given several important donations to the Faculty of Applied Science, as mentioned in the Report of that Faculty, submitted herewith.

The Right Hon. Lord Strathcona and Mount Royal has again renewed his donation of \$4,000 for Lecturers in the Faculty of Arts, and has undertaken to maintain the chair of Zoology at an annual cost of \$2,500.

In the Faculty of Medicine, a chair of Physiology is being founded by Mr. Walter Drake, in memory of his brother, Dr. Joseph Morley Drake, formerly Professor of Physiology.

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

The balance remaining from the Redpath Memorial Fund, amounting to \$42.62, has been received from the Hon.-Treas., Mr. Colmer, and will be devoted to the purchase of books for the Library.

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 the June Matriculation examinations. Another gift from the same Society was

that of a clock, which had belonged to the Hon. James McGill, the Founder of the University.

The New York Graduates' Society has given \$60 for a Bursary in the Faculty of Arts, to be 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.

The following gentlemen contributed for prizes in the Faculty of Applied Science: Mr. Hugh Paton, \$50; Mr. Wm. Kennedy, jun., \$20; Mr. A. T. Taylor, \$15 and \$25; Mr. E. B. Greenshields, \$25; Mr. Walter H. Laurie, \$25.

A sum of \$754 was given by Mr. W. C. McDonald, Mr. Hugh McLennan, Mr. Samuel Finley and Mr. A. F. Gault, for the purchase of Botanical Apparatus and Equipment.

The Board of Governors has presented to the Library a portrait of Mrs. Peter Redpath, and to the Museum a collection of butterflies valued at \$500.

A portrait of Mr. Peter Redpath, by R. Harris, has been presented to the University by Students and others.

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

In the Faculty of Law, the Honourable Mr. Justice Wurtele, D.C.L. (Officier d'Instruction Publique) resigned his Professorship of the Law of Real Estate, after a connection with the Faculty extending over 33 years. As a mark of their appreciation of his long services the Governors conferred on Judge Wurtele the rank and title of Emeritus Professor.

Other changes are as under:—

Faculty of Law :—

F. P. Walton, B.A. (Oxon.), LL.B. (Edin.), appointed Professor of Roman Law and Dean of the Faculty.

Hon. C. P. Davidson, M.A., D.C.L., appointed Professor of Criminal Law.

Dr. L. H. Davidson, Q.C., resigned his appointment as Professor of Commercial Law.

Faculty of Medicine :—

Dr. Wyatt G. Johnston, Lecturer in Bacteriology and Medico-Legal Pathology, appointed Assistant Professor of Public Health and Preventive Medicine.

Dr. C. F. Martin, Lecturer in Pathology, appointed Lecturer in Medicine.

Dr. J. A. Springle, appointed Lecturer in Anatomy.

Dr. J. J. Gardner, appointed Lecturer in Ophthalmology.

Faculty of Arts:—

Dr. W. E. Deeks resigned his appointment as Lecturer in Zoology.

E. W. MacBride, M.A. (Cantab.), B.Sc. (Lond.), appointed Professor of Zoology.

Faculty of Applied Science :—

Louis Herdt, B.A.Sc., appointed Lecturer in Electrical Engineering.

John W. Bell, B.A.Sc., appointed Demonstrator in Mining Engineering.

H. M. Jaquays, B.A., B.A.Sc., appointed Demonstrator in Mechanical Engineering.

Mr. H. W. Umney resigned his appointment as Assistant Professor of Civil Engineering.

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Walter Vaughan, appointed Secretary, Registrar and Bursar of the University, and Secretary of the Royal Institution for the Advancement of Learning.

### FACULTY OF LAW.

The number of students registered in this Faculty is 47, of whom three are partial students.

Mr. F. P. Walton, of the Scottish Bar, has been appointed Dean of the Faculty and Professor of Roman Law.

The Hon. Mr. Justice Davidson has been appointed Professor of Criminal Law.

The Faculty, as mentioned elsewhere, is indebted to the munificence of Mr. W. C. McDonald for an additional endowment of \$50,000 and for the furnishing of an additional lecture-room.

An important change has been made by the introduction of a separate course for first year students. It is expected confidently that this will greatly facilitate the work of the Faculty, and lead to an improvement in the standard attained by the students. It has also been determined to make the examination for the degree of B.C.L. cover all the subjects comprised in the Three Years course and to award the prizes and distinctions upon the result of this examination.

### FACULTY OF MEDICINE.

The total number of students in the Faculty of Medicine for this session is 425. There are 122 Undergraduates in the First Year, 114 in the Second Year, 81 in the Third Year, and 80 in the Fourth Year. Of these, 24 students, in the first and second years, are taking the combined six years' course in Arts and Medicine. Twenty-one Graduates are taking Post Graduate, Advanced or Special Courses.

### FACULTY OF ARTS.

The number of students entered in this Faculty this session is 372, of whom 210 are Undergraduates. Of these, 57 are in the First Year, 61 in the Second Year,

46 in the Third Year, and 46 in the Fourth Year. Sixteen are Graduates. 200 students are residents of Montreal, 172 coming from other places.

The attention of the Faculty has been directed during the past year to remodelling the curriculum of studies. The scheme for the first two years, which has already been approved by Corporation, will go into effect at the beginning of next session. The last two years are being organized on lines which render possible the introduction of new subjects into the curriculum, in addition to providing a natural transition for professional students to work in the Faculties of Law, Medicine, and Applied Science.

In view of existing financial conditions, the Faculty has had to acquiesce in the necessity which has been urged by the Board of Governors for increasing the Fees exigible from its students. In order, however to make it clear that classes in the Faculty of Arts are to be as accessible as heretofore to students of capacity, but with limited means, the Faculty has urged on the Board of Governors the necessity of providing a larger number of Entrance Scholarships and Exhibitions, to be awarded as the result of competitive examination. Such rewards of merit, if given under proper conditions, cannot fail to exercise an attracting influence, while they will operate at the same time as a stimulus to the schools from which students may be drawn.

After the retirement of Sir Wm. Dawson from active professorial work, the classes in Zoology were ably conducted by Dr. W. E. Deeks, until the end of last session, when he resolved to devote himself entirely to the demands of his practice. At the beginning of this session, Mr. Ernest William MacBride, M.A., fellow of St. John's College (Cantab.), B.Sc. (Lond.), was appointed to the chair of Zoology, recently established by Lord

Strathcona, and has already, by additional laboratory classes, been able greatly to advance the study of this subject in the University.

#### FACULTY OF APPLIED SCIENCE.

The number of students (undergraduate and partial) in the Faculty this session is 229, of whom eight are taking Graduate Courses. One of these, Mr. Strickland, is a graduate of the University of Sydney, New South Wales, and has been recently nominated to a Royal Commissioners' Scholarship. He has elected to proceed with a research on Hydraulics in the laboratories of this University. Mr. J. L. W. Gill, B.A.Sc., was also nominated to a Royal Commissioners' Scholarship of the value of £150 sterling per annum, and is continuing research work in the department of Physics. Mr. R. O. King, B.A.Sc., who was nominated to a Royal Commissioners' Scholarship in 1895, after doing research work in our Physical Laboratories for one year, proceeded to Harvard for a second year, and has now returned to the Physical Laboratories of this University, as the scholarship has been awarded to him for a third year.

At the Convocation in April, 1897, forty-one students received degrees in course, and two "ad eundem" degrees were conferred on graduates of other Universities.

Two Exhibitions and a large number of prizes were awarded to students in the different years.

During the year Mr. W. C. McDonald has added to his already munificent gifts to the Faculty by the following valuable donations:—a set of Reuleaux Models of the value of about \$830; a set of 4 Weston alternating wattmeters and an alternating voltmeter, valued at \$422.75; a photo-theodolite, 3 transit theodolites, 4 levels, a current meter, and various minor surveying instruments to the value of \$2,000; architectural casts,



valued at about \$950; architectural photographs and lantern slides to the value of about \$400; architectural books valued at about \$1,700.

Mr. McDonald has also undertaken the cost of making and equipping a new lighting and power station at a total cost of nearly \$12,000.

A large number of other valuable donations of apparatus, materials for testing, models, books and other publications, etc., have been received from friends and benefactors of the University, and will be acknowledged in the Annual Calendar.

#### FACULTY OF COMPARATIVE MEDICINE AND VETERINARY SCIENCE.

The number of students registered in this Faculty this session is 24, of whom 5 are in the First Year, 5 in the Second Year, and 14 in the Third and Final Year.

#### AFFILIATED COLLEGES.

Morrin College, Quebec, which is affiliated in Arts, has a staff, as in last session, of six professors and lecturers, and reports an attendance of 13 undergraduates and 61 partial students.

St. Francis College, Richmond, which is affiliated for the first two years in Arts, has 3 lecturers.

Stanstead Wesleyan College, also affiliated for the first two years, has four lecturers.

A large number of students in the affiliated Theological Colleges in the city are entered as students of the University, 40 taking the full undergraduate course and 54 as partial students. Of the undergraduates the Presbyterian College supplies 14, the Diocesan 14, the Wesleyan 4, and the Congregational 8. Partial students are distributed as follows:—Presbyterian 25, Wesleyan 24, and Congregational 5. Five graduates, from the Presbyterian College, are attending one or more courses of lectures.

## THE MCGILL NORMAL AND MODEL SCHOOLS.

At the beginning of this session 160 teachers-in-training were received into the Elementary, Kindergarten and Model School classes of the Normal School, but owing to illness and other causes changes have occurred, and at present the numbers are 143, viz.: 66 women and 2 men in the Model School Class, 8 women in the Kindergarten Class, and 64 women and 3 men in the Advanced Elementary Class.

There are 8 students enrolled in the Academy Class, 2 men and 6 women, undergraduates of the University of the first and second years.

Two graduates and 15 undergraduates of the Third and Fourth Years attend the lectures in Pedagogy.

The number of pupils enrolled in the McGill Model School is 422.

## GYMNASIUM.

Dr. R. Tait McKenzie reports a largely increased attendance at the Gymnasium.

The value of the physical examination of the students is shown by the fact that it was found necessary to withhold certificates from seven men whose condition was found defective and unfit for engaging in active athletics, while in the case of twenty-eight others systematic special gymnastic work would be beneficial if this could be provided for in the curriculum. One hundred and thirty-eight men presented themselves for medical examination and measurement for the first time, and in all four hundred and sixteen men have been examined, many of them two or three times.

The difficulty referred to last year of finding convenient hours for the classes of Donald students still continues, Miss Barnjum reporting that only nine women are in attendance.

(Signed),

STRATHCONA AND MOUNT ROYAL, LL.D.,  
*Chancellor.*

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

February 1st, 1898.

## REPORT OF THE LIBRARY COMMITTEE FOR 1897.

TO THE CORPORATION OF MCGILL UNIVERSITY :

GENTLEMEN :—In presenting the Annual Report for the past year, your Committee wishes to record its sense of the loss sustained by the Library, in the death of the late Mr. J. H. R. Molson. For years he was one of the most generous and kindly supporters of this as of all other departments of the University, and latterly his benefactions to the Library flowed in a steady stream: no sooner had one donation arrived than another was on its way.

Corporation is aware of the movement initiated by the Undergraduates to secure a portrait of the late Mr. Peter Redpath for the Library, and knows also that this effort subsequently broadened into a University movement for the presentation of the portraits of both Mr. and Mrs. Redpath. The companion pictures (that of Mr. Redpath presented by the students, that of Mrs. Redpath by the Board of Governors) were painted by Mr. Harris, and now hang side by side in the Reading Room.

Fourteen University Papers have been issued during the twelve months by the following Departments :—Physiology, 1; Botany, 3; Geology, 5; Philosophy, 1; Physics, 4. In the two years during which these publications have appeared, twenty-nine have been published. They have been somewhat widely distributed and have given ample proof of their value—a value which is by no means limited to the important exchanges which they have secured for the Library.

Mr. Richard White of the *Montreal Gazette* has recently deposited in the Library the first and several succeeding volumes of the *Gazette*. These little books, of which the earliest was printed in 1778, are of extreme rarity. It is doubtful, indeed, whether more than two copies of Vol. 1 exist.

The attendance of readers from Jan. 11, 1897, to Jan. 10, 1898, has been 17,756.

The attendance from Jan. 16, 1896, to Jan. 11, 1897, was 18,416.

“ Jan. 23, 1895, to Jan. 14, 1896, “ 16,541

The number of volumes delivered from the stack during the twelve months was 24,174, the average per reader being slightly higher than that of previous years.

Binding and repairing have as usual occupied the attention of your Committee, and have been regularly proceeded with. The same may be said of cataloguing and classification of the books upon the shelves. The number of cards added to the Catalogue during the past year is considerably greater than has been the case during any twelve months previous.

As is usual, your Committee has gratefully to acknowledge many important gifts received during the year. These are fully specified in the appended list of donations, and have already appeared in the *Gazette*, by the kindness of its proprietors, with the thanks of Corporation. Among other donors the following may be specially mentioned :—

His Highness the Maharaja of Jeypore has been pleased to present the Jeypore Portfolio of Architectural Details, a work prepared to illustrate Indian architecture. The Trustees of the British Museum have presented the Catalogue of printed Books of the British Museum Library. In this connection, the thanks of Corporation are especially due to the Right Honourable the Earl of Crawford and Balcarres. Mrs. Peter Redpath, of the Manor House, Chislehurst, in addition to her yearly donation towards the maintenance of the Library, has generously consented to defray the cost of some special shelving in the stack, and of tables for use in connection with the catalogue. The Executors of the Estate of the late Mr. J. H. R. Molson, in addition to a number of volumes, have given the Library a large collection of early Canadian Bank Notes and Coins, together with 16 French Assignats. Some three hundred and fifty volumes of modern French literature have been received from the Chancellor, Lord Strathcona and Mount Royal, and Mr. W. C. McDonald has presented a magnificent collection of works upon Architecture. Mr. C. A. Hanson, of London, England, has continued his valued donation of the *Daily Times* during the year, and Mr. J. R. Dougall has presented the *Daily Witness*. Mr. Francis McLennan has given many valuable books. The Graduates' Society of McGill University and the McGill College Book Club also deserve very special thanks.

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The number of volumes presented to the Library to Jan. 10, 1898, is.. . . . . 2,371  
 Those added by purchase.. . . . . 372  
 19 volumes have been received by exchange, 1 volume lost has been replaced, and 3 volumes have been transferred from the Law Library.. . . . . 23

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Making a total for the year of.. . . . . 2,766  
 From these deduct 5 volumes lost and 21 given in exchange.. . . . . 26

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The gain for the year is, therefore.. . . . . 2,740  
 There were in the Library at date of last Annual Report.. . . . . 44,291

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The total\* to-day is, therefore.. . . . . 47,031

Besides maps, photographs, charts and many pamphlets. The increase during the quarter now closed was 591 volumes, less 2 lost and one duplicate sold, say, 588 volumes. Of these 446 were presented to the Library and 142 were purchased.

The usual conspectus of Reading, Attendance and Additions is appended.

Respectfully submitted, on behalf of your Committee,  
 (Signed), C. H. GOULD,  
*University Librarian.*

CONSPECTUS OF READING AND ATTENDANCE FROM JANUARY 11, 1897, TO JANUARY 10, 1898.

QUARTER ENDING	READERS	VISITORS	TOTAL	BOOKS READ
April 22, 1897..	8,005 ..	66 ..	8,071 ..	10,626 vols.
June 25, " ..	1,002 ..	103 ..	1,105 ..	1,626 "
Oct. 25, " ..	3,689 ..	740 ..	4,429 ..	4,678 "
Jan. 10, 1898..	5,060 ..	32 ..	5,092 ..	4,427 "
	<hr/> 17,756	<hr/> 941	<hr/> 18,697	<hr/> 21,357 "

NOTE.—These figures are exclusive of the work done in departmental libraries. Visitors have rarely been requested to register: hence the figures under this heading represent but a fraction of those who have seen the library.

\* Apart from 20,000 vols, in the departmental libraries.

ADDITIONS TO MCGILL UNIVERSITY LIBRARY  
(JAN. 7, 1897, TO JAN. 7, 1898.)

	Vols.		Vols.
Aberdeen University.....	7	Chicago University.....	2
Academy of Natural Sciences, Philadelphia.....	1	Chicotimi, Seminaire de....	1
Adams, F. D., Ph. D.....	6	Chouillou, C. A.....	2
Adams Memorial Committee, Cambridge, Eng.....	1	Clouston, E. S.....	17
Alabama Geological Survey..	1	Columbia University.....	1
American Institute of Mining Engineers.....	2	Cornell University.....	9
American Society of Mechan- ical Engineers.....	1	Coussirat, Rev. D., and others.	9
Amherst College.....	1	Cramp, G. B.....	1
Auckland University.....	1	Crisp, F. A., London.....	1
Bashforth, Francis.....	1	Crosskill, Hon. H.....	1
Bethune, C. H. S., Editor "Canadian Entomologist."	1	Crosskill, W. H.....	2
Binmore, Miss.....	3	Crozier, J. B.....	1
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Valuable gifts of Pamphlets, Engravings, Portraits, Broad-sides, Photographs, Maps, Coins and other interesting objects have been received from the following donors:—

Dr. H. M. Ami, Mr. Benjamin Dawson, Dr. G. M. Dawson, Mr. G. S. Davis, Dr. R. W. Ells, Mr. Walter Ferrier, Mr. R. E. Gosnell, Dr. Harrington, Mr. Geo. Iles, Mr. W. D. Lighthall, Mr. Benjamin S. Lyman, Miss Mackay, Mrs. Alex. Molson, Mr. F. McLennan, Mr. Rich. White, the Columbian Field Museum, the Manitoba Provincial Library, and the Mass. Institute of Technology.

A large number of Libraries and other institutions have also kindly presented their Reports.



REPORT OF THE PETER REDPATH MUSEUM FOR THE  
YEAR 1897.

TO THE CORPORATION OF THE UNIVERSITY.

GENTLEMEN,—In presenting this the Eighteenth Annual Report of the Museum, your Committee have pleasure in stating that the classes in the various departments of Natural History have been large, and that considerable progress has been made in the extension and arrangement of the collections.

Though the Museum is intended primarily for the use of members of the University, it continues to be visited by many other persons, including teachers and pupils from various city schools, convents, etc., and the number of visitors who have registered their names during the year is 2,600. Among the visitors were many distinguished members of the British Association, the British Medical Association and the American Geological Society, not a few of whom devoted considerable time to the study of the collections.

During the meeting of the British Medical Association the lecture theatre was occupied by the Section of Public Medicine, and during the conversazione held on the evening of Sept. 3rd the Museum, in common with other University buildings, was lighted up, and was thronged with interested guests. On the evening of October 22nd a successful reception was held in the Museum in honour of the Protestant Teachers' Association of the Province of Quebec, and was apparently much appreciated by the members of the Association. The Museum was also the headquarters of the American Geological Society during the recent meeting, and the lecture theatre proved itself admirably adapted for the Society's work.

Though Sir William Dawson has been unable to attend all the meetings of the Committee, his interest in its work is unabated, and he has presented to the Museum all his working collection of Eozoon and related objects; also his collection of Carboniferous batrachians, millipedes and land-snails—type specimens not to be seen in any other museum. Through the liberality of members of the Board of Governors the collection of butterflies and moths, which attracted so much attention while on exhibition at the Art Gallery in November last, has been purchased and presented to the Museum. The beauty of the specimens and the admirable manner in which they have been preserved render the collection one of great interest and value. A suitable case to contain it has been designed by Professor MacBride.

Other important additions to the collection are a fine Esquimaux Kayak from Hudson's Strait, presented by Mr. Graham Drinkwater, B. A.Sc.; a specimen of the South American Lung Fish (*Lepidosiren*) from the Argentine, presented by Professor MacBride; a white porcupine (skin and skeleton) from New Brunswick, presented by Dr. Deeks, and a collection of 250 rock-specimens from typical localities in the United States, presented by Dr. Adams. The complete list of donations is appended.

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The collection of foreign birds has been greatly improved, Mr. J. B. Williams having been engaged to name and mount a number of the specimens. Many of the Canadian birds have also been re-arranged and labelled by Mr. E. Ardley, museum assistant, who has also accomplished much valuable work in other departments of the Museum.

The services of Mr. Bailly have been continued, and a number of osteological and other specimens prepared by him with his wonted skill. For the comparative anatomist the collection of skeletons is rapidly becoming an important one, and at the present time comprises about forty mammals, fifteen birds, five fishes and eleven reptiles, besides numerous skulls and other portions of skeletons. The Herbarium has been increased during the past year by about 4,000 specimens, representing an additional number of Bolivian plants from Dr. H. H. Reesby, and the final instalment of plants from the John Ball and other collections distributed from the Gray Herbarium.

Your Committee take this opportunity of testifying to the valuable services rendered to the Museum by Dr. W. E. Deeks, whose rapidly increasing medical practice induced him to resign the lectureship in Zoology. They also have pleasure in welcoming to their ranks Professor E. W. MacBride, M.A., of Cambridge, whose distinguished career in the mother country is already well known. Coming to us from a centre of learning where he has had every opportunity of becoming familiar with the most recent methods of biological work, we feel that he will be a source of great strength in advancing the scientific work of the University.

In last year's report the Committee drew attention to the increasing need of additional endowment for carrying on the work of the Museum. This need is emphasized by the fact that the donation of \$500 for the purchase of specimens made by the late Mr. J. H. R. Molson in 1896 is now practically exhausted. Mr. Molson was a warm friend of the Museum, and for years before his death had enabled the Committee to acquire many valuable specimens which, but for his liberality, would have been beyond their reach. At the present time, owing to lack of means, the work in certain departments of the Museum is practically at a standstill, nor can the services of Mr. Bailly be fully taken advantage of owing to the need of anatomical jars to contain some of the specimens prepared by him.

The thanks of the Committee are again due to Mrs. Redpath, of the Manor House, Chislehurst, for her generous gift of \$1500 for the purposes of maintenance.

The whole respectfully submitted.

(Signed),

B. J. HARRINGTON,

*Hon. Curator,*

On behalf of the Committee.

## DONATIONS TO THE PETER REDPATH MUSEUM.

JANUARY, 1897, TO JANUARY, 1898.

- Adams, Dr. F. D., collection of 250 specimens of rocks from typical localities in the United States. Specimen of Rhodonite from Cumington, Mass., and of Pyroidesine from Regla, Cuba.
- Ardley, Mr. Edward, specimen of Carolina bat (*Vespertilio fuscus*).
- Bailey, Mr. J. F. D., specimens of Blue Jay (*Cyanocitis cristatus*), English Sparrow (*Passer domesticus*), Pileated Wood Pecker (*Hylotomus pileatus*), Yellow Bellied Woodpecker (*Sphyrapicus varius*), Downy Woodpecker (*Picus pubescens*.)
- Beeman, Rev. W. A., Winnipeg, specimens of *Lepidium draba* and *Oxyris amaranthoides*
- Boyd, Rev. Hunter, Lumsden, N. W. T., Jerusalem, ancient and modern, plans and description.
- Brush, Miss M. A. F., specimen of *Cryptochiton stelleri* from Monterey, California.
- Cole, Mr. G. P., two specimens of Night Hawk's eggs.
- Dawson, Sir J. W., entire private working collection relating (1) to *Eosoon Canadense* and (2) to Carboniferous batrachians, etc., from Nova Scotia.
- Deeks, Dr. W. E., specimens of Cross-bill (*Loxia leucoptera*); Partridge (*Canace Canadense*); Pigeon (*Columbia livia*); skin and skeleton of Porcupine (white variety) from Kent Co., New Brunswick.
- Drinkwater, Mr. Graham, B.A.Sc., Esquimaux Kayak, from Hudson's Strait.
- Drummond, Mr. Thomas, collection of Canadian Plants.
- Frechette, Mr. Howells, specimen of Worm Trail from 15 miles south of Ashtabula, Ohio.
- Girdwood, Dr. G. P., specimens of Tumors and Natural Grafts in trees. Government of Queensland, Australia, through Dr. H. T. Bovey, collection of Australian woods.
- Grant, Lieut.-Col., Hamilton, Ont., collection of Clinton and Niagara Fossils.
- Gray Herbarium, Cambridge, Mass, through Dr. B. L. Robinson, collection of Miscellaneous Plants.
- Hall, Dr., State Geologist, Albany, N. Y., Geological Map of New York, 2 copies, one mounted and one in sheets.
- Hamilton, Wm. J., B.A.Sc., Monterey, Mexico, mineral specimens from Joplin, Miss., Leadville, Colorado, and other localities.
- Hislop, Mr. John, B.A.Sc., specimen of Ichneumon Fly (*Thaless atrata*), Colorado.
- Jackson, Dr. F., skeleton and skull of Skunk (*Mephitis mephitica*), also skull of Horse.
- Kennedy, Mr. G. G., Readville, Mass., specimen of *Tayloria tenuis* from Mount Mansfield, Vermont.
- MacBride, Professor E. W., specimen of South American Lung Fish from the Argentine.
- McCallum, Mr. A. L., B.A.Sc., Glace Bay, C. B., specimen of iridescent coal from Glace Bay.
- Matthew, Dr. G. F., St. John, N. B., Fossils from Etcheminian and Lower Carboniferous, New Brunswick.
- Murray, Professor J. Clark, polished specimen of Labradorite.
- Porter, Professor J. Bonsall, collection of Flint Implements and Weapons from Ohio.

- Pratte, Mr. L. E. N., specimen of Horned Owl (*Bubo Virginianus*), from St. Rose, P. Q.  
 Rinfret, Mr. Raoul, B.A.Sc., specimen of wood gnawed by beaver.  
 Roddick, Dr. T. G., stuffed specimen of Black Cock from Scotland.  
 Rogers, Rev. R. H., B.A., specimen of *Pterogorgia setosa*, from Turk's Island, West Indies.  
 Stewart, Mr. H. P., Three Rivers, P. Q., through Dr. Springle, knife and spearhead (iron), said to be ancient, from Lake St. John.  
 Terrili, Mr. L. M., nine specimens of birds' eggs.  
 Young Women's Christian Association, Montreal, collection of specimens illustrating the manufacture of cotton.

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

TO THE CORPORATION OF MCGILL UNIVERSITY :

GENTLEMEN:—There has been an increase during the year, both in the number of students receiving regular instruction and in the number of graduates engaged in special researches.

The number of students attending the regular lectures and classes for practical work is now 216. In addition to the demonstrators (Messrs. Tory, Pitcher, and Barnes,) three graduates (R. O. King, R. W. Gill, and R. W. Stovell) have been prosecuting researches mentioned below.

A considerable amount of apparatus has been purchased out of income and added to the collection. But the most important instruments acquired during the year belong to the apparatus originally presented by Mr. McDonald. These are:

(1) A pair of Darwin mirrors (by the Cambridge Scientific Instrument Company), for detecting excessively small movements of the earth's surface, together with apparatus for producing a continuous photographic record.

(2) The Lorenz apparatus for determining the value of the Ohm in absolute measure. This most important instrument has been constructed by Messrs. Nalder under the special supervision of Professor Viriamu Jones, F.R.S., of Cardiff, who had himself made the last and most elaborate determination by the method of Lorenz. The apparatus is now being

set up on a special pier in one of the magnetic laboratories. But before it left England, Professors Ayrton and V. Jones asked leave to employ it for a determination of the present Board of Trade Standards in absolute measure. Accordingly it was set up at South Kensington, and the results of their investigation were communicated to the recent meeting of the British Association, at Toronto, in an important paper. This is the reason why the apparatus did not arrive in Montreal a year earlier.

A number of instruments have been constructed by the Mechanic, from special designs, chief of which is a device by Professor Callendar, whereby his electrical thermometers write a continuous record (not photographic) of their readings. This has been applied to the nine thermometers which have recorded the soil temperatures for the last three years, and also to a new sunshine-recorder devised by Professor Callendar.

Through the generosity of Mr. W. C. McDonald the Lecture Theatre has now been fitted with desks, designed in the Building, which have proved very satisfactory, both in use and appearance. The Theatre has been much used for the purposes of visiting Societies. During the summer a large number of members of the British Association visited the Building; the British Medical Association held one of its Sections in the Theatre and found the apparatus very useful in illustrating the papers under discussion; and the Geological Society of America had the use of the Lecture Theatre for the delivery of Professor Orton's presidential address.

A Physics Club has been established, and meets every Saturday evening for the discussion of current periodicals in Physics, and of original papers. This Club has aroused a great deal of interest, and promises to be of much service to those engaged in original work in the Department.

The following are the titles of papers which have been communicated to the British Association, and to various other Societies in the course of the past year :—

Report on Observations of Soil Temperatures with Electrical Thermometers. By Prof. H. L. Callendar, M.A., F.R.S., and Prof. C. H. McLeod, M.A., F.R.S.C. Communicated to the Royal Society of Canada.

Report on Canadian Earthquakes, with a reproduction of the trace of the first automatic record taken in Canada at the McDonald Physics Building, March 27th, 1897. By Prof. C.

H. McLeod and Prof. H. L. Callendar. Communicated to the Canadian Record of Science.

On the variation of the Electromotive Force of different forms of the Clark Standard Cell, with Temperature and with Strength of Solution, including determinations of the Solubility of Zinc Sulphate, and of the density of its solutions. By Prof. H. L. Callendar, M.A., F.R.S., and H. T. Barnes, Ma.Sc. Communicated to the Royal Society of London, England, and published in the Proceedings, Vol. 62, pp. 117-152.

On the Law of Condensation of Steam, deduced from measurements of Temperature Cycles of the Walls and Steam, in the Cylinder of a Steam Engine, including determinations of the electrical and thermal properties of cast iron. By Prof. H. L. Callendar, M.A., F.R.S., and Prof. J. T. Nicolson, B.Sc. Communicated to the Institution of Civil Engineers of London, England, and read and discussed at their meeting on Nov. 30th, 1897. Now in course of publication in the Minutes of Proceedings of the Institution. About 100 pp. In the determination of the properties of cast iron, the authors had the assistance of Mr. H. T. Barnes, Mr. H. M. Tory, Mr. R. O. King and Mr. A. W. Duff.

The following papers were read at the recent meeting of the British Association, at Toronto, Aug., 1897 :—

A New Electrical Method of determining the Specific Heat of a Liquid, with preliminary results of its application to the cases of water and mercury. By Prof. H. L. Callendar, M.A., F.R.S., and H. T. Barnes, Ma.Sc. Abstract published in the B. A. Report. Experiments still in progress.

On the Behaviour of Argon in X-Ray tubes By Prof. H. L. Callendar, M.A., F.R.S., and N. N. Evans, M.A.Sc. Published in Nature, Oct. 29th, 1897.

A Research in Thermo-electricity, by means of the Platinum Resistance Pyrometer. By H. M. Tory, M.A., Demonstrator in Physics. Abstract in B. A. Report.

A simple Modification of The Board of Trade form of the Clark Cell, with application to the Cadmium Cell. By H. L. Callendar, M.A., F.R.S., and H. T. Barnes, M.A.Sc. Published in the Electrician of London, England, Sept. 10th, 1897.

A new form of Hysteresis Tester. By L. W. Gill, B.Sc., 1851 Exhibition Scholar. Published with full illustrations in the Electrician of London, England, Sept. 24th, 1897.

On the Effect of Temperature on the Magnetic Properties of Iron. By F. H. Pitcher, M.A.Sc., Demonstrator of Physics.

Abstract in B. A. Report. Experiments still in progress by improved methods.

A new Apparatus for studying the Rate of Condensation of Steam on a Metal Surface at Different Temperatures and Pressures. By H. L. Callendar, M.A., F.R.S., and J. T. Nicolson, B.Sc.

An Electrical Method of Measuring the Temperature of a Surface on which Steam is Condensing. By H. L. Callendar, M.A., F.R.S. The above two papers were communicated to Section G. of the British Association, and were ordered by the General Committee to be printed in extenso in the Report. They have also been published in Engineering, Nov. 16th, 1897.

On the Absolute Measurement of the Thomson Effect in Copper. By R. O. King, B.A.Sc., 1851 Exhibition Scholar. To be published shortly.

The following researches are still in progress, but already give promise of valuable and interesting results :—

On the Variation of the Viscosity of Gases with Temperature. By Prof. H. L. Callendar, M.A., F.R.S.

On the Variation of the Specific Heat of Water. By Prof. H. L. Callendar, M.A., F.R.S., and H. T. Barnes, M.A.Sc., assisted by Mr. R. W. Stovel, B.A.Sc.

On the Verification of Platinum Thermometer Formulae, at High Temperatures. By H. M. Tory, M.A., Demonstrator of Physics.

Absolute Measurement of the E.M.F. of the Clark and Cadmium Cells. By Prof. H. L. Callendar, M.A., F.R.S., and R. O. King, B.A.Sc.

On the Density of Solutions of Cadmium Sulphate, and on the Solubility of its Hydrates, with reference to the Standard Cadmium Cells. By Prof. H. L. Callendar, M.A., F.R.S., and

On the Lorenz Method of determining the Ohm. By L. W. Gill, B.Sc.

On the Refractivity of certain Organic Compounds. By C. L. Wolff, M.D.

On the Distribution of Magnetism in Cylinders. By L. W. Gill, B.A.Sc.

On the Total Heat of Steam. By Prof. H. L. Callendar, M.A., F.R.S. (To be published shortly.)

The whole respectfully submitted.

(Signed),

JOHN COX,

*Secretary.*

## REPORT ON THE BOTANIC GARDEN FOR 1897.

TO THE CORPORATION OF MCGILL UNIVERSITY.

GENTLEMEN,—

The customary work of the Garden has been continued during the past year with gratifying results. For the year ending December 31st, a total of 282 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 will 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.*



## OBSERVATORY REPORT.

JANUARY 1st, 1898.

TO THE CORPORATION OF MCGILL UNIVERSITY.

GENTLEMEN,—I beg to report on the work of the Observatory for the year now closed.

The meteorological observations, as mentioned in detail in last year's report, have been regularly made.

The time service and system of clock exchanges, for the improvement of the time at seaport towns as well as for railway and other purposes has been continued throughout the year. Clock comparisons were made with the Toronto Observatory on 20 days. Observations of 832 stars were made on 139 nights for the determination of clock errors.

The value of the longitude of this Observatory, as determined by direct connection with Greenwich in 1892, has been adopted by the Coast and Geodetic Survey of the United States, in the recomputation of the American system of longitudes recently completed.

The soil temperature observations, established in co-operation with the McDonald Physics Laboratory in 1895, have been continued. The results up to May 10th last will appear in the forthcoming volume of the Transactions of the Royal Society of Canada. Some important physical constants have, in connection with this work, been more accurately determined than heretofore known. It will shortly be possible to investigate very completely the diurnal temperature curves at the various depths by means of the self-recording apparatus which Professor Callendar is just now completing, for his electrical resistance thermometers. In view of the invention of this apparatus, which will enable temperature records to be made with much greater precision than has been attained in the past, preparations are now in progress for an investigation on the change of temperature under varying conditions at different altitudes. We have been fortunate enough to obtain a grant of £50 from the British Association in aid of this work.

At the invitation of the University of Chicago, I had the honour, along with Professor Callendar, of representing this University at the opening of the Yerkes Observatory at William Bay, Wis., in October last. A series of Astronomical Conferences—which were attended by some 70 astronomers and physicists—took place at the Observatory on the 18th, 19th and 20th of October; the formal dedicatory services were held on the 21st; and on the 22nd the concluding ceremonies were conducted at the University in Chicago. The Observatory is a handsome structure of pressed brick, and contains, as is well known, the largest refracting telescope in the world. The cost of the building and its equipment, which is not yet completed, is approximately \$350,000.

(Signed),

C. H. McLEOD,  
*Superintendent.*

**ROYAL INSTITUTION FOR THE**  
*Balance Sheet for the*

<u>ORIGINAL ENDOWMENT AND DONATION IN LAND.</u>			
Hon. James McGill's Bequest .....		\$	425,235 04
<b>DONATIONS OF LANDS, BUILDINGS, APPARATUS, &amp; C. :-</b>			
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 Thos. Workman .....		57,137 31	
W. C. McDonald, Esq., 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 W. C. McDonald, Esq. ....		380,830 66	
Subscriptions towards Equipment of the Macdonald Engineering Building .....		128,130 47	
Macdonald Physics Building and Equipment, the gift of W. C. McDonald, Esq. ....		233,228 70	
University Library Building, the gift of Peter Redpath, Esq. ....		135,000 00	
Lot above Medical College, the gift of W. C. McDonald, Esq. ....		1,600 20	
Observatory Property, the gift of W. C. McDonald, Esq. ....		68,299 10	
Macdonald Chemistry and Mining Building, the gift of W. C. McDonald, Esq. ....		243,674 73	
Miscellaneous donations to Equipment, Books, &c.....		66,822 27	
		\$1,580,027 34	\$2,005,262 38
<b>ENDOWMENTS.</b>			
<b>MISCELLANEOUS :-</b>			
Subsequent General Endowment .....	\$	58,670 00	
Endowment Fund of 1881 .....		33,500 00	
Dr. George W. Campbell Memorial Fund for Medical Faculty .....		53,006 04	
Leaneoil 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 Donalds 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	
W. C. McDonald Endowment Fund for Faculty of Law ..		150,000 00	
do do Maintenance of Engineering Building .....		85,000 00	
W. C. McDonald Endowment Fund for Maintenance of Physics Building .....		150,000 00	
Thos. Workman Workshops Endowment .....		59,862 69	
Pension Fund Endowment in Faculties of Arts and Applied 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 .....		4,460 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 .....		791 05	
Faculty of Arts Endowment .....		4,300 00	
W. C. McDonald Endowment for Maintenance of Chemistry and Mining Building .....		135,000 00	\$1,226,464 78
<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	
W. C. McDonald Chairs of Physics .....		100,000 00	
do Chair of Electrical Engineering .....		40,000 00	
Chas. Gibb Botanical Chair Endowment .....		8,200 00	
W. C. McDonald Chair of Mining and Metallurgy .....		50,000 00	
do do Architecture .....		50,000 00	
		\$ 506,270 32	
Carried forward		\$1,732,735 10	\$2,005,262 38

ADVANCE  
year end

IMMOVEABLE

College Gro  
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for the

ADVANCEMENT OF LEARNING.  
year ending June 30th, 1897.

IMMOVEABLE PROPERTY :-

College Grounds .....	\$ 62,892 57
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 .....	4,693 89
Macdonald Observatory Property .....	68,299 10
Gymnasium .....	8,718 59
Peter Redpath Museum Building .....	100,000 00
Thomas Workman Mechanical Workshops .....	67,208 07
Macdonald Engineering Building .....	157,057 62
Macdonald Physics Building .....	143,820 39
University Library Building .....	135,000 00
Macdonald Chemistry and Mining Building (unfinished) ..	58,863 63
	\$1,032,026 84

MOVEABLE PROPERTY :-

Equipment Chemical Laboratory .....	4,869 60
Museum Collections, etc .....	51,704 57
Philosophical Apparatus .....	1,568 58
Natural Science Apparatus .....	3,528 97
Library Fixtures and Furniture in old Building .....	5,661 17
Donalds do do .....	327 63
Law do do .....	510 50
Arts do do .....	9,362 52
Books in Library .....	53,790 47
Equipment Thomas Workman Mechanical Workshops ..	23,079 28
Equipment Macdonald Engineering Building .....	353,330 97
do do Physics Building .....	96,842 03
do do Chemistry and Mining Building (in- complete) .....	190 03
	\$604,766 34
	\$1,636,793 18

005,262 38

2,005,262 38

Carried forward \$1,636,793 18

ROYAL INSTITUTION FOR THE  
Balance Sheet for the

		Brought forward	\$1,732,735 10	\$2,005,262,38
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	1,000 00			
Prince of Wales do	1,000 00			
Shakespere do	1,000 00			
Sutherland do	1,000 00			
Major Hiram Mills do and Scholarship	1,500 00			
Jane Redpath Exhibition	1,667 00			
W. C. McDonald Scholarships	25,000 00			
Barbara Scott Scholarship	2,000 00			
Walter Scott Exhibition	1,100 00			
Dr. T. Sterry Hunt Scholarship	3,102 05			
Charles Alexander Scholarship	2,000 00			
		\$	47,288 10	
CAPITALIZED REVENUE				\$1,780,023 20
INCOME DEVOTED TO SPECIAL PURPOSES NOT YET EXPENDED	59,859 09			33,138 48
Less Sums expended in advance	12,832 20			
		\$	47,026 89	
				\$3,865,450 95

Verified, MACINTOSH & HYDE, Auditors.  
MONTREAL, 13th September, 1897.

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, 1896	
	\$ 45,285 62
From Fees collected :-	
University Fees	\$ 1,755 00
Faculty of Law Fees	1,756 00
Faculty of Arts Fees	4,760 50
Faculty of Applied Science Fees	22,865 50
Donalda Fees	1,957 00
Library Fees	2,318 00
Gymnasium Fees	1,045 00
College Grounds Fees	1,687 00
Miscellaneous Fees	1,279 00
	\$39,433 00
Income received from Investments, Deposits in Bank, etc.	82,894 15
Government and other Grants	5,487 50
Donations and Subscriptions	28,199 60
Caution Money, Deposits, etc.	2,190 00
Miscellaneous Receipts	1,408 21
	150,612 46
Balance showing increase of Profit and Loss Account by the deficit in Revenue for the year ending 30th June, 1897	89,870 32
NOTE.—Profit and Loss Account, 30th June, 1897	106,176 76
Transfers consequent on the closing of Estate Account and the rectification of certain entries	\$15,353 76
Loss of Capital (see Statement of Capital)	952 68 16,306 44
	89,870 32
Profit and Loss Account, 30th June, 1896	71,771 49
Deficiency in Revenue for the year	\$18,098 83
	\$294,768 40

Verified, MACINTOSH & HYDE, Auditors.  
MONTREAL, 13th September, 1897.

ADVANCE  
year end

AMOUNTS UN  
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" Station  
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" Mainte  
" Mainte  
" Caution  
" Annu

CASH ON  
MENTS,  
June, 1

*ADVANCEMENT OF LEARNING.*  
*year ending June 30th, 1897.—Continued.*

	Brought forward	\$1,636,693 18
AMOUNTS UNPAID IN RESPECT OF ENDOWMENTS .....		7,800 00
INVESTMENTS IN MORTGAGES, ETC. ....		1,879,103 49
AMOUNT PAYABLE IN RESPECT OF ARREARS OF INTEREST.....		7,661 21
BALANCE AT DEBIT OF PROFIT AND LOSS ACCOUNT.....	\$106,176 76	
Less Arrears of Interest and Interest Suspense Account .....	10,233 44	
		95,943 32

CASH ON DEPOSIT IN BANK.....	238,149 75
	\$3,865,450 95

W. VAUGHAN, *Bursar.*

*INSTITUTION for the ADVANCEMENT of LEARNING.*  
*30th June, 1897.*

EXPENDITURE.

BALANCE AT DEBIT OF PROFIT AND LOSS ACCOUNT on the 1st July, 1896. ....	\$ 71,771 49
For Salaries of Principal, Secretary, Office and Library Staff, School Examiners, etc., etc. ....	\$ 15,766 86
“ Salaries for Instruction (including Deanships).....	80,522 90
“ Salaries of Foremen in Workshops, Mechanics, etc. ....	9,644 57
“ Salaries and Wages for Janitors, Cleaning, etc. ....	5,761 37
“ Repairs, Improvements to Buildings, etc. ....	1,753 32
“ Apparatus, Machines, Tools, etc. ....	4,595 93
“ Supplies and Materials.....	2,250 61
“ Lighting.....	1,390 54
“ Fuel.....	5,636 69
“ Printing.....	2,631 70
“ Advertising.....	756 84
“ Insurance.....	5,903 55
“ Diplomas.....	358 58
“ Stationery and Postage.....	1,780 59
“ General Maintenance.....	6,549 89
“ Scholarships, Exhibitions, Medals and Prizes.....	4,528 15
“ Library,—for Books, etc. ....	2,903 59
“ Amounts paid to Faculty of Medicine, being interest on their Endowments.....	9,589 22
“ Maintenance of College Grounds.....	3,395 97
“ Maintenance of Botanic Garden.....	1,562 44
“ Maintenance of Gymnastic Classes.....	1,251 99
“ Maintenance of Observatory.....	1,698 84
“ Caution Money Deposits.....	2,016 00
“ Annuities.....	3,719 88
	175,970 02
CASH ON HAND OF UNEXPENDED INCOME OF SPECIAL ENDOWMENTS, SCHOLARSHIPS, APPROPRIATIONS, ETC., on the 30th June, 1897.....	47,026 89
	\$294,768 40

W. VAUGHAN, *Bursar.*

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

RECEIVED.	
CASH ON HAND FOR INVESTMENT on the 1st July, 1896.....	\$90,487 49
ENDOWMENTS :—	
W. C. McDonald for Maintenance of Chemistry and Mining Building.....	\$135,000 00
W. C. McDonald for Chair of Mining and Metallurgy.....	50,000 00
W. C. McDonald for Chair of Architecture.....	50,000 00
	\$235,000 00
BUILDINGS :—	
W. C. McDonald Donation for the erection of Chemistry and Mining Building.....	243,674 73
INVESTMENTS REPAID DURING THE YEAR.....	140,022 42
INCOME CAPITALIZED :—	
Interest on Dr. T. Sterry Hunt Scholarship.....	230 66
DEDUCT an amount of interest formerly Capitalized and now returned to interest, Graduates' Endowment Fund—Faculty of Applied Science.....	1 02
	229 64
	618,926 79
	\$709,414 28

MONTREAL, 13th September, 1897.

Verified,

MACINTOSH & HYDE, *Auditors.*

INSTITUTION

30th June,

BUILDINGS A  
Macdonald  
Macdonald  
Natural ScienceEXPENDED  
Griffin Park

INVESTED D

AMOUNTS C  
Capital  
Income

Loss

CASH ON H

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ROYAL  
ending

INSTITUTION for the ADVANCEMENT OF LEARNING.

30th June, 1897.

DISBURSED.

BUILDINGS AND EQUIPMENTS :—

Macdonald Chemistry and Mining Building.....	\$58,863 63	
Macdonald Chemistry and Mining Building Equipment	190 03	
Natural Science Apparatus.....	94 67	
		59,148 33

EXPENDED ON PROPERTIES :—

Griffin Property.....		69 32
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INVESTED DURING THE YEAR .....

440,022 26      499,239 91

AMOUNTS CARRIED TO PROFIT AND LOSS ACCOUNT and amount of  
Capital used to make up Deficit in Income (see *Statement of  
Income and Expenditure*).....

18,098 83

Loss of Capital on the Gill Mortgage.....

952 68

19,051 51

CASH ON HAND ON THE 30TH JUNE, 1897 :—

For investment .....	6,501 79	
For erection of Chemistry and Mining Building (W. C. McDonald Donation).....	184,621 07	
		191,122 86

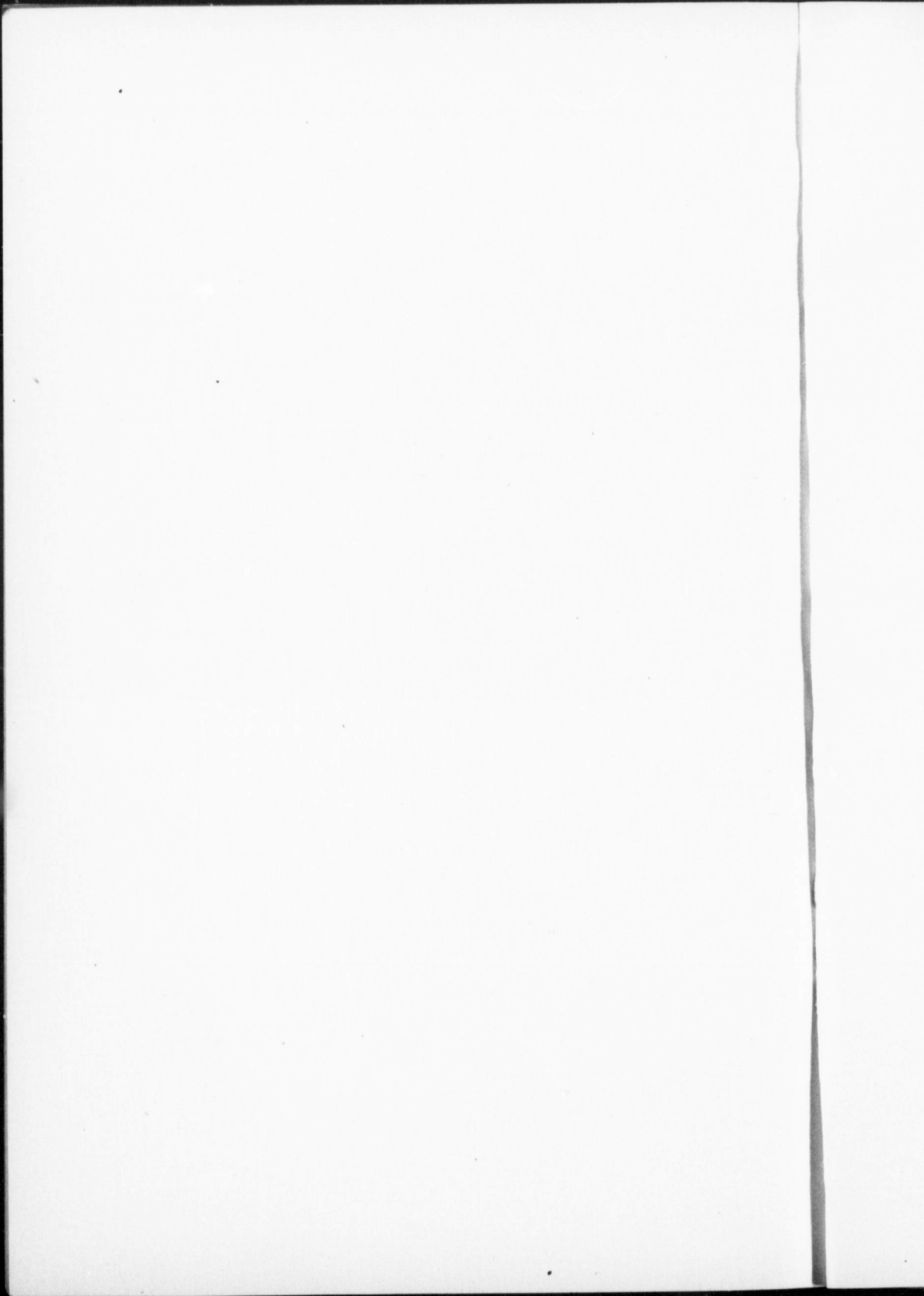
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W. VAUGHAN, *Bursar*,

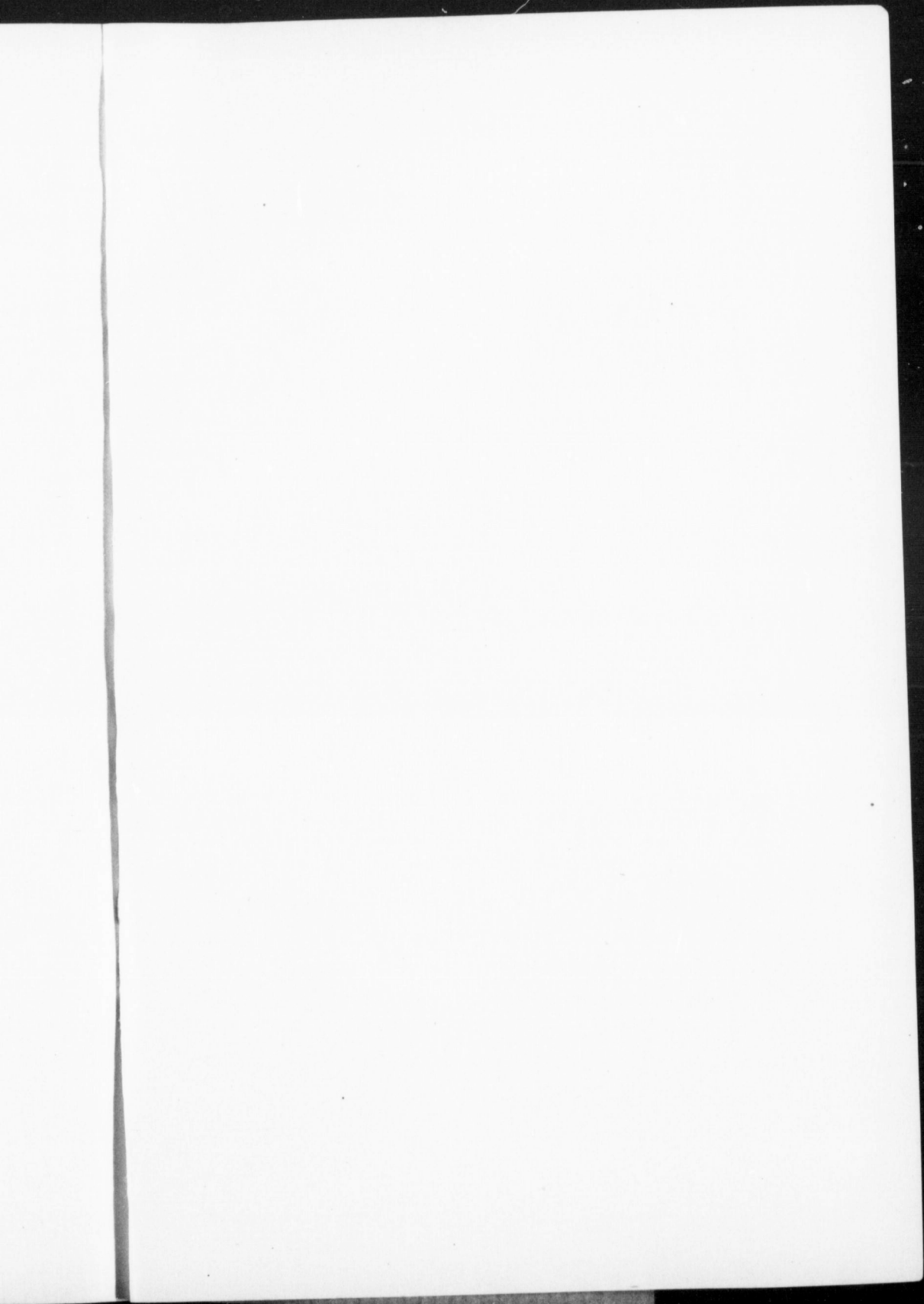
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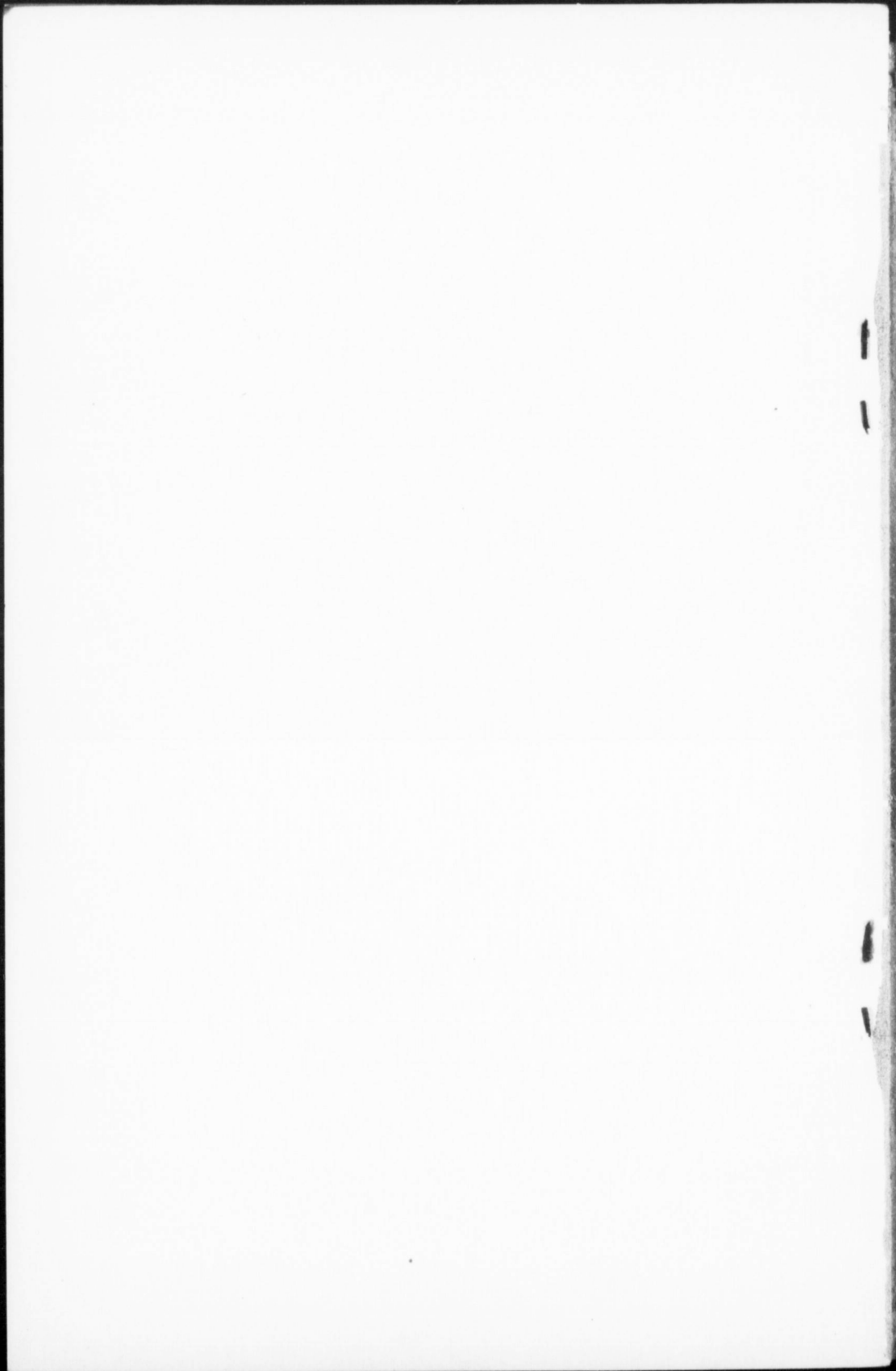
618,926 79

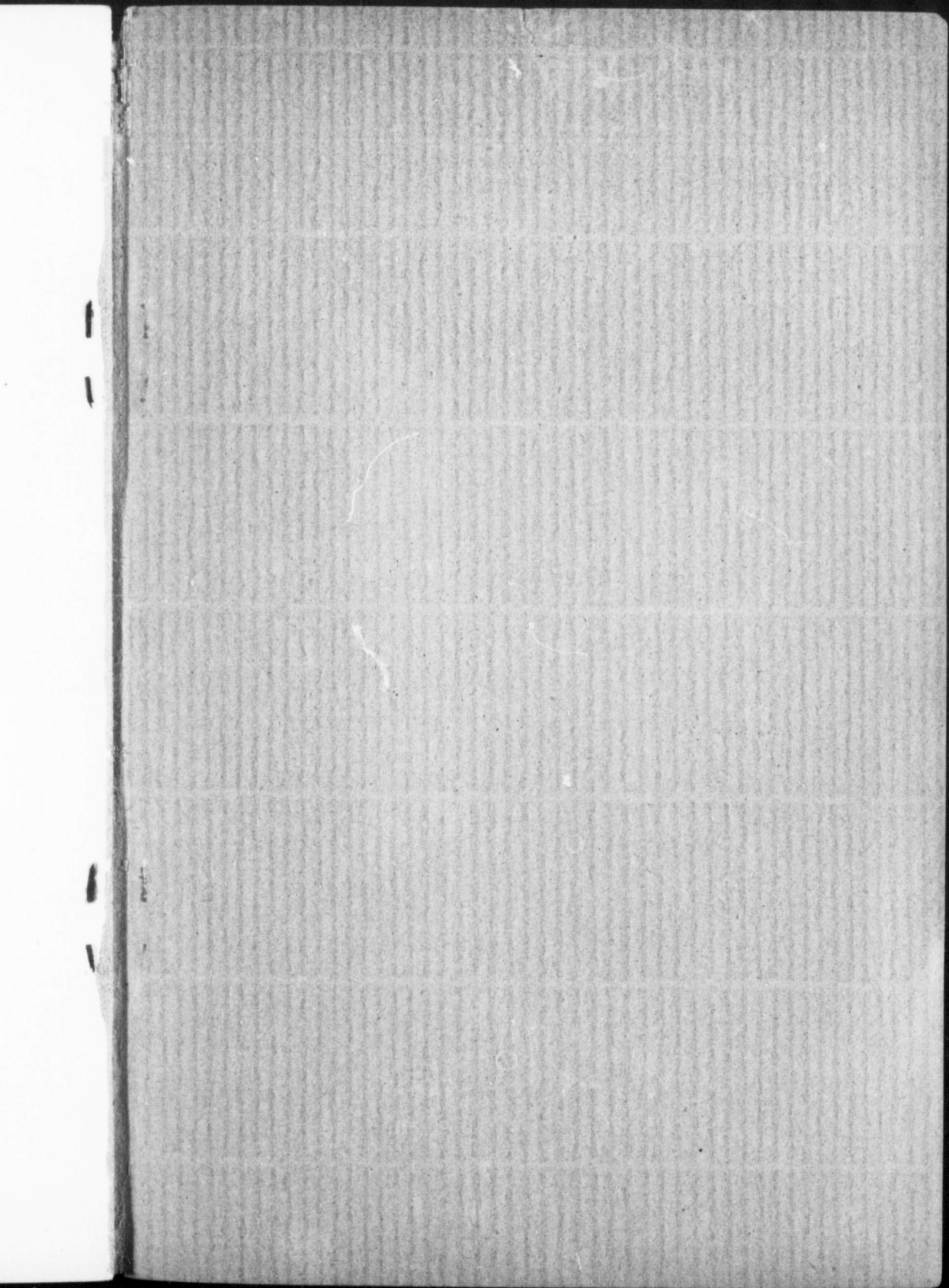
\$709,414 28











The List of Graduates is published every three years, giving in each case Post Office address so far as known.

To make this publication as complete as possible, it is requested that notice of change of address, ordination, degrees received, appointments to professorships or to civil office, the names of deceased graduates, with the year of death, and any other relevant information, be sent to the Registrar of the University.