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# ONTARIO College of Pharmacy

(Affiliated with University of Toronto.)

## ANNUAL ANNOUNCEMENT

PUBLISHED BY AUTHORITY OF THE COMMITTEE ON EDUCATION



14TH SESSION,

**1893-'94.**

ST. JAMES' SQUARE, GERRARD STREET, - - TORONTO.

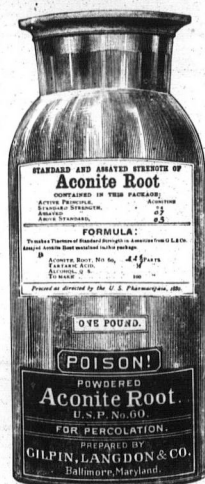
1893.

# GILPIN, LANGDON & CO., BALTIMORE

We are the originators  
of  
**Assayed  
Powders**

In this generation of rapid advancement in every profession, that of pharmacy has kept fully abreast with the times. Appreciating this fact and also that this constant tendency towards a higher standard would bring with it a demand for better and more perfect Powdered Drugs and Powders for Percolation, we established some years since a complete plant for their production.

With these facilities and our very exhaustive system for research and experiment, we have been for several years enabled to supply a class of powdered drugs heretofore unobtainable,



and judging from the numerous complimentary letters received from the leading pharmacists of the country, our efforts have not been in vain.

We are confident that every pharmacist will consult his best interests in adopting our Powders for Percolation, and being anxious to have them generally used, we offer, to send them on approval and if not better in quality, and if they do not make finer and handsomer preparations than ever before obtained, they may be returned at our expense.

It will therefore cost you nothing to see and to try what we are assured by several thousand pharmacists are the best articles of the kind they have ever seen or used.

We make the offer knowing from our past experience that you will, on trial, adopt them in your laboratory.

## THE LYMAN BROS. & CO., Limited Wholesale Druggists

AND  
Manufacturing Chemists and Drug Millers

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CHEMICAL WORKS AND DRUG MILLS:  
179 & 181 Front St. East

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Glassware and Earthenware	Patent Medicines	Paints and Oils
Perfumery	Pharmaceutical Books	
Surgical Instruments		

### Manufacturers of

Alkali	Choloroform	Citrate Iron and Quinine	Ether Nitrosi (Spts.)
Ether Sulphuric	Hypodermic Tablets	Magnesia Citras	
Pills, Sugar Coated	Triturate Tablets		



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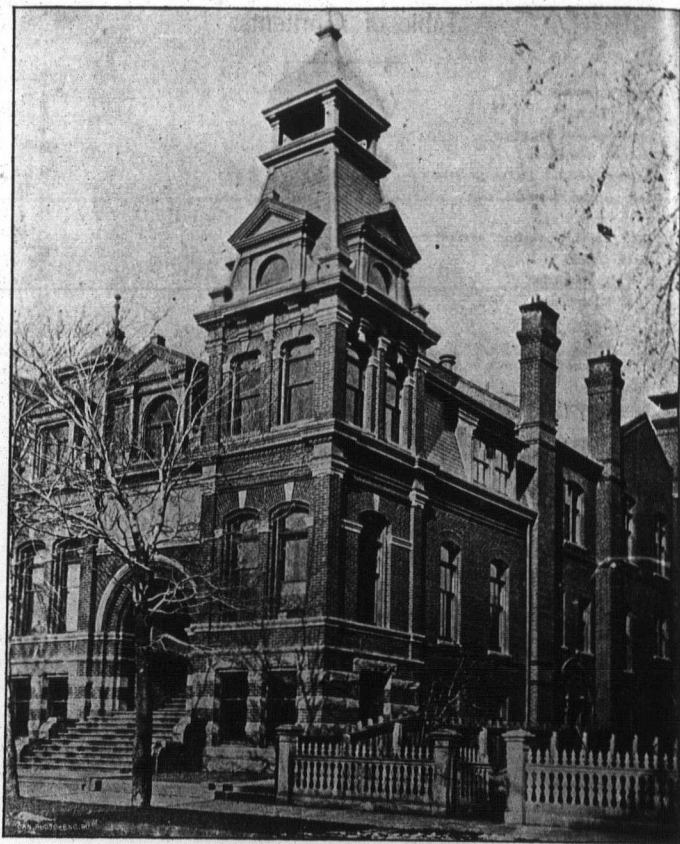
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TORONTO.

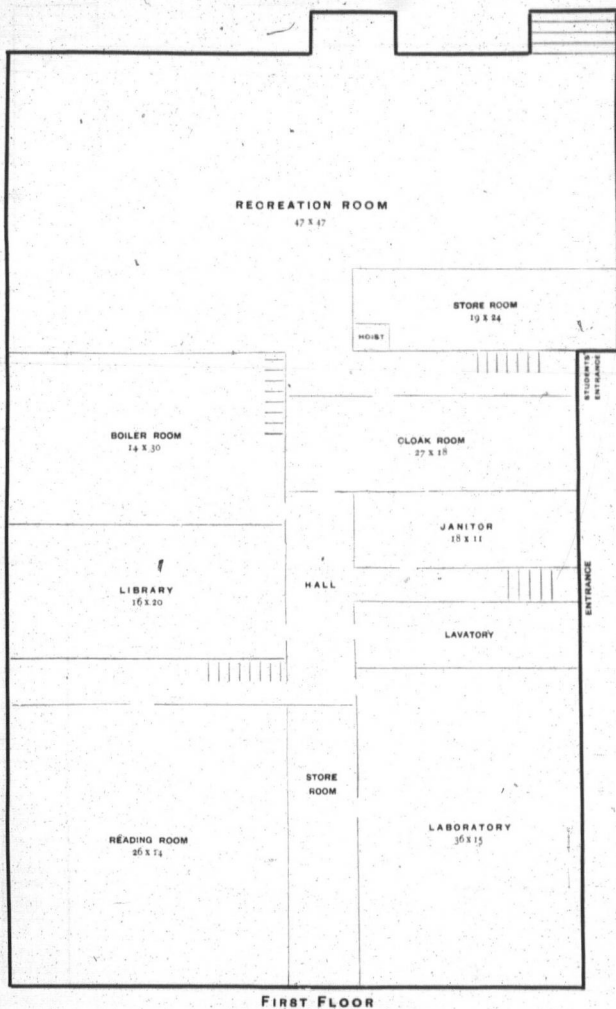
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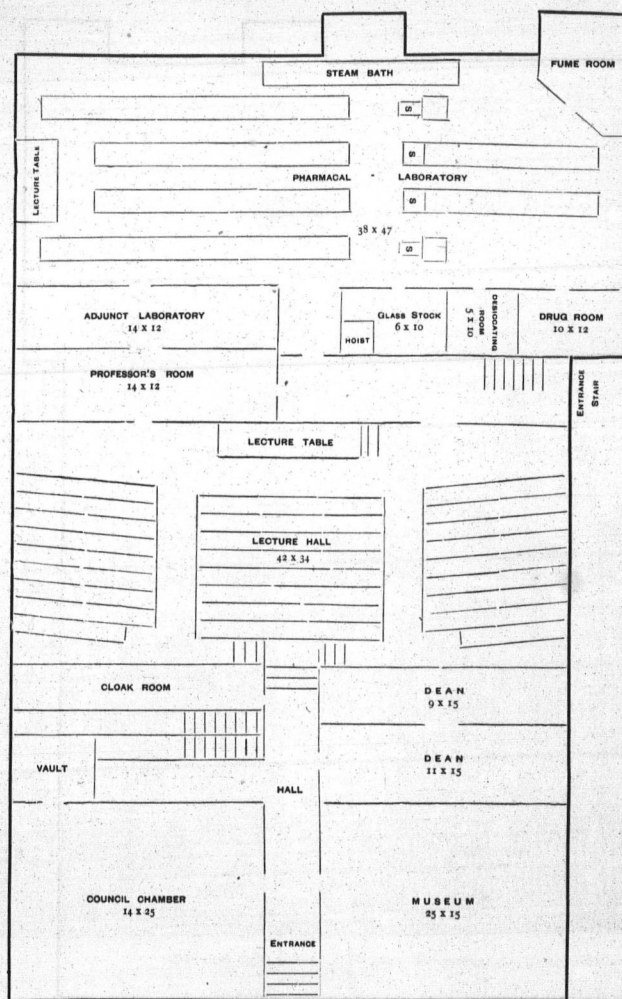
ONTARIO COLLEGE OF PHARMACY BUILDING.  
ST. JAMES' SQUARE.



FIRST FLOOR

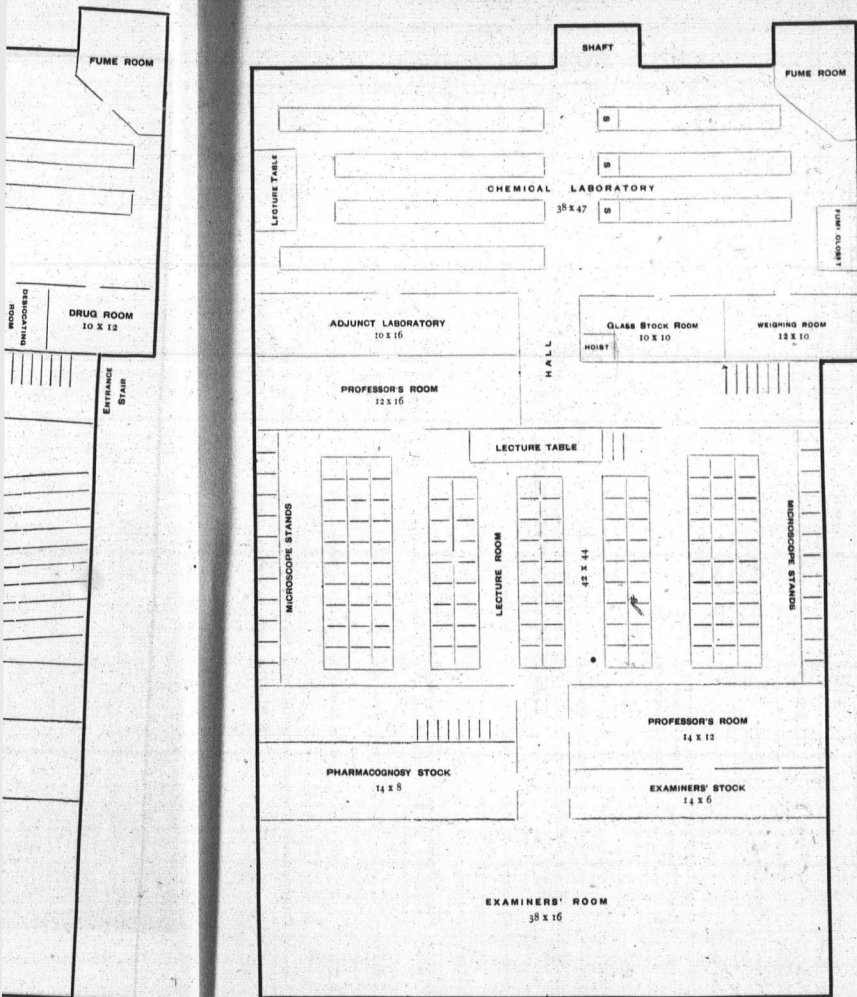






SECOND FLOOR





THIRD FLOOR

# ONTARIO COLLEGE OF PHARMACY.

TIME-TABLE—JUNIOR COURSE—1893.

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
A.M.						
8.45 - 10.00 ..	Chemistry	Botany	Chemistry	Botany	Chemistry	Botany
10.15 - 11.30 ..			Pharmacy, Theoretical, &c.			Pharmacy, Theoretical, &c.
10.00 - 12.30 ..	Pract'l Pharm Sec. I	Pract'l Pharm Sec. II Pract'l Chem. Sec. I		Pract'l Pharm Sec. II Pract'l Chem. Sec. I	Pract'l Pharm Sec. I	
P.M.						
2.00 - 4.30 ....		Pract'l Chem. Sec. II		Pract'l Chem. Sec. II		
4.20 - 5.30 ....		Materia Medica		Materia Medica	Physics	

## SENIOR COURSE, 1894.

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
A.M.						
8.45 - 10.00 ..	Chemistry	Botany	Chemistry	Botany	Chemistry	Chemistry
10.15 - 11.30 ..			Pharmacy, Theoretical, &c.			Pharmacy, Theoretical, &c.
10.00 - 12.30 ..	Pract'l Pharmacy and Dispensing, Sec. I Pharmacognosy Sec. A.	Pract'l Pharmacy and Dispensing, Sec. II Pract'l Chem. Sec. I	Pharmacognosy, Sec. B	Pract'l Pharmacy and Dispensing, Sec. II Pharmacognosy, Sec. C		
P.M.						
2.00 - 4.30 ....		Pract'l Chem. Sec. II		Pract'l Chem. Sec. I	Toxicology	
4.20 - 5.30 ....		Materia Medica, &c.	Materia Medica, &c.	Materia Medica, &c.		
7.30 - 8.30 ....	Prescriptions, at regular intervals during the session, of which due notice will be given.					

N.B.—The above subject to change if occasion requires.

	SUN.	MON.	TUES.
JAN.	1 2 3 8 9 10 15 16 17 22 23 24 29 30 31		
FEB.	5 6 7 12 13 14 19 20 21 26 27 28		
MAR.	5 6 7 12 13 14 19 20 21 26 27 28		
APR.	2 3 4 9 10 11 16 17 18 23 24 25 30		

# CALENDAR FOR 1893.

JAN.	SUN. MON. TUES. WED. THUR. FRI. SAT.	MAY	SUN. MON. TUES. WED. THUR. FRI. SAT.	SEP.	SUN. MON. TUES. WED. THUR. FRI. SAT.
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15 16 17 18 19 20 21	22 23 24 25 26 27 28	14 15 16 17 18 19 20	21 22 23 24 25 26 27	15 16 17 18 19 20 21	22 23 24 25 26 27 28
29 30 31		28 29 30 31		22 23 24 25 26 27 28	29 30 31
				24 25 26 27 28 29 30	
FEB.	1 2 3 4	JUNE	1 2 3	OCT.	1 2 3 4 5 6 7
5 6 7 8 9 10 11	12 13 14 15 16 17 18	4 5 6 7 8 9 10	11 12 13 14 15 16 17	8 9 10 11 12 13 14	15 16 17 18 19 20 21
19 20 21 22 23 24 25	26 27 28	18 19 20 21 22 23 24	25 26 27 28 29 30	22 23 24 25 26 27 28	29 30 31
				29 30 31	
MAR.	1 2 3 4	JULY.	1	NOV.	1 2 3 4
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		30 31		26 27 28 29 30	
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16 17 18 19 20 21 22	23 24 25 26 27 28 29	20 21 22 23 24 25 26	27 28 29 30 31	17 18 19 20 21 22 23	24 25 26 27 28 29 30
30				31	

## 1894.

JAN.	MAY	SEP.
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28 29 30 31	27 28 29 30 31	30
FEB.	JUNE	OCT.
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APR.	AUG.	DEC.
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15 16 17 18 19 20 21	12 13 14 15 16 17 18	16 17 18 19 20 21 22
22 23 24 25 26 27 28	19 20 21 22 23 24 25	23 24 25 26 27 28 29
29 30	26 27 28 29 30 31	30 31

2.00 - 4.30.....	Pract'l Chem. Sec. I.	Toxicology
4.20 - 5.30.....	Pract'l Chem. Sec. II	
7.30 - 8.30.....		

Prescriptions, at regular intervals during the session, of which due notice will be given.

N.B.—The above subject to change if occasion requires.

## College Calendar

### 1893

- Aug. 1.—Sitting of College Council for granting diplomas begins.  
 Sept. —.—Supplemental University Examinations for degree Phm. B.  
 " 12.—Matriculation Examinations.  
 " 13.—Matriculation Examinations results posted.  
 " 14.—Formal opening of Junior term.  
 " 28.—Laboratory Course commences.  
 Nov. 9.—Thanksgiving Day—Holiday.  
 Dec. 1.—Time-Table for Junior Examinations is posted.  
 " 1.—Laboratory Course terminates.  
 " 5.  
 " 14. } Junior Examinations.  
 " 15.  
 " 16.  
 " 18.—Semi-annual Examinations for diplomas begin.  
 " 20.—Junior Course closes.  
 " 23.—Results of Examinations published in daily press.

### 1894

- Jan. 4. } Supplemental Junior Examinations.  
 " 5.  
 " 9.—Lectures of Senior Course begin.  
 " 18.—Laboratory Course begins.  
 Feb. 5.—Sitting of College Council for granting diplomas begins.  
 Mar. 23.—Good Friday—Holiday.  
 May 1.—Laboratory Course terminates.  
 " 5.—Senior Course closes.  
 " 7.—Semi-Annual Examinations for diplomas begin.  
 " 20.—Results of Senior Examinations published in daily press.  
 " —.—University Examination for degree Phm. B. begins.  
 June —.—University Annual Commencement.  
 Faculty meets first Friday in each month.  
 Applications for examinations must be made at least two weeks before the examination begins.

### President.

- WM. ELLIOT.  
 BENJ. LYMAN.  
 BENJ. LYMAN.  
 BENJ. LYMAN.  
 WM. ELLIOT.  
 WM. SAUNDEY.  
 HUGH MILLER.  
 NEIL C. LOVIE.  
 E. HARVEY.  
 R. W. ELLIOT.  
 HARRY SHERR.  
 JNO. A. CLARK.  
 JNO. A. CLARK.  
 JOHN J. HALL.  
 W. J.  
 H. J.  
 GEO.  
 K. A.  
 GEO.  
 GEO.  
 I. T.

# Ex-Officers and Dates of Office.

## *President.*

	1871.
WM. ELLIOT.	—
	1871—1873.
BENJ. LYMAN.	—
	1873—1875.
BENJ. LYMAN.	—
	1875—1877.
BENJ. LYMAN.	—
	1877—1879.
WM. ELLIOT.	—
	1879—1881.
WM. SAUNDERS.	—
	1881—1883.
HUGH MILLER.	—
	1883—1885.
NEIL C. LOVE.	—
	1885—1887.
E. HARVEY.	—
	1887—1888.
R. W. ELLIOT.	—
	1888.
HARRY SHERRIS.	—
	1888—1889.
JNO. A. CLARK.	—
	1889—1891.
JNO. A. CLARK.	—
	1891—1893.
JOHN J. HALL.	—

## *Vice-President.*

HUGH MILLER.
T. BICKLE.
WM. SAUNDERS.
NEIL C. LOVE.
WM. SAUNDERS.
NEIL C. LOVE.
G. J. WAUGH.
E. HARVEY.
R. W. ELLIOT.
W. B. SANDERS.
JNO. A. CLARK.
W. B. SANDERS.
JOHN J. HALL.
JOHN W. SLAVEN.

W. H. DUNSPAUGH, ..	1871 ...	<i>Treasurer.</i>
H. J. ROSE, ... ..	1871 ...	<i>Registrar.</i>
GEO. HODGETTS, ...	1871-75 ...	<i>Treasurer.</i>
K. A. MILLER, ... ..	1875-79 ...	<i>Treasurer.</i>
GEO. HODGETTS, ...	1873-79 ...	<i>Registrar.</i>
GEO. HODGETTS,....	1879-88 ...	<i>Registrar-Treasurer.</i>
I. T. LEWIS, ... ..	1888-93 ...	<i>Registrar-Treasurer.</i>



1893.

## COUNCIL AND OFFICERS

## ONTARIO COLLEGE OF PHARMACY.

*President.*

JOHN J. HALL . . . . . Woodstock, Ont.

*Vice-President.*

JOHN W. SLAVEN . . . . . Orillia, Ont.

BUCHANAN, ANGUS . . . . .	Kemptville, Ont.
CLARK, JNO. A. . . . .	Hamilton, Ont.
DANIELS, C. D. . . . .	King St., Toronto..
D'AVIGNON, J. E. . . . .	Windsor, Ont.
JORDAN, F. . . . .	Goderich, Ont.
LAWRENCE, L. T. . . . .	London, Ont.
MACKENZIE, J. H. . . . .	Yonge St., Toronto.
MCGREGOR, C. K. . . . .	Brantford, Ont.
McKEE, JOHN . . . . .	Peterborough, Ont.
PETRIE, A. B. . . . .	Guelph, Ont.
POLSON, N. C. . . . .	Kingston, Ont.

*Registrar-Treasurer.*

ISAAC T. LEWIS . . . . . Gerrard St. E., Toronto.

*Solicitors.*

EDGAR &amp; MALONE . . . . . Cor. Colborne and Yonge Sts.

*Curator.*

WM. YOUNG . . . . . McGill St.

<i>Chairman of Education Committee</i> . . . . .	J. H. MACKENZIE.
<i>Chairman of Executive and Finance Committee</i> . . . . .	J. W. SLAVEN.
<i>Chairman of By-laws and Legislation Committee</i> . . . . .	A. B. PETRIE.
<i>Chairman of Infringement Committee</i> . . . . .	ANGUS BUCHANAN.

Dean a

J. T.



cy.

Woodstock, Ont.

Orillia, Ont.

Kemptville, Ont.

Hamilton, Ont.

King St., Toronto.

Windsor, Ont.

Goderich, Ont.

London, Ont.

Yonge St., Toronto.

Brantford, Ont.

Peterborough, Ont.

Guelph, Ont.

Kingston, Ont.

. E., Toronto.

and Yonge Sts.

McGill St.

J. H. MACKENZIE.

J. W. SLAVEN.

A. B. PETRIE.

ANGUS BUCHANAN.

## Faculty.

CHAS. F. HEEBNER, PHM. B. (Tor.) PH. G. (N.Y.).

*Dean and Professor of Theory and Practice of Pharmacy. Director of  
Pharmaceutical Laboratory.*

A. Y. SCOTT, B.A. (Tor.), M.D., C.M. (Trin.)

*Professor of Chemistry and Botany.*

J. T. FOTHERINGHAM, B.A., M.B. (Tor.), M.D., C.M. (Trin.)

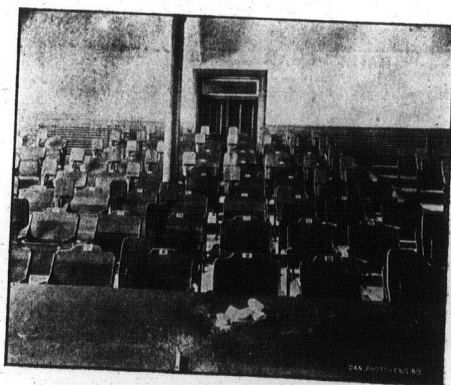
*Professor of Materia Medica and Pharmacognosy.*

GRAHAM CHAMBERS, B.A., M.B. (Tor.)

*Professor of Analytical Chemistry and Toxicology.*



LECTURE ROOM—PHARMACY AND CHEMISTRY  
(FIRST VIEW)



LECTURE ROOM—PHARMACY AND CHEMISTRY  
(SECOND VIEW)

## REGULAT

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## REGULAT

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**REGULATIONS REGARDING APPRENTICESHIPS COMMENCED  
AFTER MARCH 23rd, 1889.**

Every person who may be desirous of becoming apprenticed to a regularly qualified pharmaceutical chemist, must before the term of his apprenticeship begins, send to the Registrar of the College the sum of one dollar, together with a certificate or other evidence satisfactory to the Council, showing that the applicant has previously passed an examination on the following subjects:

**ARITHMETIC.**—Reduction, proportion (simple and compound), fractions (vulgar and decimal), square root.

**MENSURATION.**—Areas of rectilineal figures, volumes of parallelepipeds.

**ALGEBRA.**—Elementary rules, greatest common measure, least common multiple, fractions, simple equations of one unknown quantity.

**GEOGRAPHY.**—Political, physical, and mathematical.

**ENGLISH.**—Grammar and composition.

The above requirements having been complied with, the applicant, on engaging himself by a written contract with a regularly qualified pharmaceutical chemist, then legally begins a period of apprenticeship, in which relation he must serve for a term of four years.

In order to become a candidate for the Council Examinations, the applicant must have attended two courses of lectures, comprising the following subjects, viz.:—Pharmacy, chemistry, materia medica, botany, and reading and dispensing of prescriptions; the first course at the Ontario College of Pharmacy, or at any college of pharmacy or school of medicine approved of by the Council; and the second or senior course at the Ontario College of Pharmacy.

The time occupied in attending the first course of lectures only, will be credited as a portion of the term of apprenticeship.

In case any apprentice shall, by reason of the death, failure in business, or removal, of his employer, or from any other cause satisfactory to the Council, be unable to complete his term of apprenticeship with such employer, such person shall be at liberty, when and as often as this may happen, to enter into a new contract to complete the remainder of the unexpired term with any other regularly qualified pharmaceutical chemist.

It must be borne in mind that no one is eligible to the Diploma of this College until the age of twenty-one years has been attained; apprenticeship may, however, commence at any age.

**REGULATIONS GOVERNING APPRENTICESHIP COMMENCED  
PRIOR TO MARCH 23rd, 1889.**

*Special regulations* will govern all persons having commenced a term of apprenticeship prior to March 23rd, 1889 (the date of adoption of the Amendments to the Pharmacy Act of 1884), and who were duly and properly registered previous to the date mentioned.

The term of service, as apprentice, for all such, is three (3) years.

Attendance at College is not obligatory, but is *strongly urged in the interest of the apprentice*, and all who shall avail themselves of the advantages of a full Junior and Senior Course, and who shall pass the Final or Council Examination, will become the recipients of the diploma of new design, which will record the fact that they have received a regular and systematic pharmaceutical education.

The student will not, however, receive credit for the time thus spent in attendance at the course of lectures, as applying to his term of apprenticeship.

In order to become a candidate for the Final or Council Examination (held in December, 1893, or May, 1894, the applicant must furnish the Registrar with satisfactory evidence of having, in pursuance of a binding contract in writing for that purpose, completed an apprenticeship under a regularly qualified pharmaceutical chemist, extending over a term of three years, and must forward to the same officer the sum of ten dollars (\$10) with an application for examination filled out in his own handwriting on a printed form which may be obtained by application to the Registrar.

In case any apprentice shall, by reason of the death, failure in business, or removal of his employer, or from any other cause satisfactory to the Council, be unable to complete his term of apprenticeship with such employer, such person shall be at liberty when and as often as this may happen, to enter into a new contract to complete the remainder of his unfulfilled term with any other regularly qualified pharmaceutical chemist.

## Examinations.

### MATRICULATION EXAMINATION.

#### SECTION I.

Applicants for admission to the lectures of either course, and who intend to obtain the diploma of the College, will be required to pass a matriculation examination, unless exempted from such examination by virtue of representing one or more of the conditions mentioned in the List of Exceptions (*vide* Sec. ii.)

The names and limits of the several branches in which matriculants shall be examined, are as follows :

ARITHMETIC.—Reduction ; proportion, simple and compound ; fractions, vulgar and decimal ; square root.

MENSURATION.—Areas of rectilinear figures ; volumes of right parallelepipeds.

ALGEBRA.—Elementary rules ; greatest common measure ; least common multiple ; fractions ; simple equations representing one unknown quantity.

ENGLISH.—Grammar and composition.

LATIN.—Familiarity with terms used in ordinary Latin prescriptions.

The date of the Matriculation Examination will be September 12th, 1893, and will be held in the College building.

The examination will commence promptly at 10 a. m., continuing for three hours, and will be conducted in writing.

All persons not required to attend the Dean of the High School of the qualification reserves the right to should there and subject to

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SECTION II.

EXCEPTIONS TO THE ABOVE REQUIREMENTS.

All persons who may come under one or more of the following conditions are not required to pass the Matriculation Examination, and can matriculate by furnishing the Dean with properly authenticated certificates from the Head Master of a High School or Collegiate Institute, or from other satisfactory sources, as evidence of the qualifications prescribed, and on payment of the specified fee. The College reserves the right, however, in all cases to decline the recognition of any certificate, should there be doubt regarding the character of a diploma or certificate submitted, and subject the applicant to an examination.

The following are exempt from the examination :—

1. Apprentices whose terms of service shall have been completed by October 1st, 1892.
2. Students who have attended a previous course of lectures at the Ontario College of Pharmacy.
3. Apprentices who have passed the Preliminary Examination specified in the amended Pharmacy Act (1889).
4. Matriculants in Arts or Medicine in any British or Colonial University or College.
5. Holders of second or third class non-professional certificates issued by the Education Department of Ontario ; or persons who can furnish evidence of having passed an examination at least equivalent to the general standard required for the latter.

All prospective students coming under the above exceptions must, however, register their names with the Registrar of the College, after their certificates have been duly approved by the Council ; they need not appear for registration before September 14th, at 9 a.m.

JUNIOR EXAMINATION.

The Junior Examination will be held by the members of the College staff at the conclusion of the Junior Course in December, and must be passed before the student can be admitted to the Senior Course. A Supplemental Examination will be held in January prior to the commencement of the Senior Course, for those failing to pass in December.

Students who have attended a course of lectures at some recognized College of Pharmacy or School of Medicine, and can submit evidence of having passed an examination at the conclusion of their studies, may, if such evidence be satisfactory to the Council, enter on the Senior Course without further examination.

This examination will be held on December 14th, 15th and 16th, and the Supplemental on January 4th and 5th.

SENIOR OR FINAL EXAMINATION.

This examination is held semi-annually by examiners appointed by the Council of the College, and must be passed before the candidate can be allowed a license to conduct business in Ontario. It shall be held commencing on the first Monday, which shall not be later than a week after the close of the College in May, and on the second Tuesday in December, or *at such other dates during these months* as the Board of Examiners may appoint.



The Council of the College established in 1892 the following regulations for an examination in practical chemistry :

The examination shall be required only from candidates who have taken full Junior and Senior Courses at the College, and are entitled to the diploma of new design, which certifies that a regular course of instruction has been obtained at the College, and also from candidates registered as apprentices under the provisions of the amendment to the Pharmacy Act in 1889. All candidates who successfully pass this examination, may, on applying to the Registrar, obtain a certificate of examination in addition to this diploma of new design. Any candidate who had commenced his apprenticeship prior to March 23rd, 1889, and who may not succeed in passing this examination, shall not be debarred from obtaining registration, providing he has successfully passed the examination in the other six subjects, as defined in College By-law, Sec. 13; but he shall not be entitled to receive the diploma of new design.

The following shall be the limit of the aforesaid examination :—

A knowledge of the articles used in chemical testing.

Preparation of the test solutions.

The qualitative analysis of the more important chemicals and detection of impurities in them.

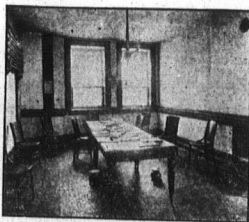
The qualitative examination of unknown official salts or mixtures of salts in the state of powder or solution, having well marked characteristic reactions.

Preparation of solutions used in volumetric estimation of the strength of pharmacopœial preparations, and the practical application of these solutions in testing their strength.

Detection of the alkaloids.

The maximum number of marks attainable in this subject shall be 100, and the candidate must obtain not less than 50 marks to pass.

The time allowed for examination shall be three hours, or as much longer as the examiner may permit; an oral examination may be permitted, at the option of the examiner; standard works of reference or notes may be allowed the candidate for use in the examination at the discretion of the examiner.



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### Medals.

Seven medals are offered for competition at the Senior Examination in May only, and are open to all students who have attended two full terms at the Ontario College of Pharmacy, who have not failed at any previous examinations, and who have made pass marks on the Practical Chemistry Examination.

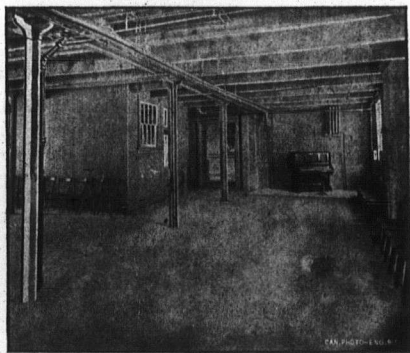
GENERAL PROFICIENCY, (first)	COLLEGE GOLD MEDAL.
" " (second)	COLLEGE SILVER MEDAL.
DISPENSING MEDAL	Presented by MR. D'AVIGNON.
PHARMACY MEDAL (practical included)	Presented by PROF. HEEBNER.
CHEMISTRY MEDAL (practical included)	Presented by DR. CHAMBERS.
MATERIA MEDICA MEDAL	Presented by DR. FOTHERINGHAM.
BOTANY MEDAL	Presented by DR. SCOTT.

The College Gold Medal will be awarded to the candidate making the highest number of marks of not less than seventy-five per cent. of the total; the Silver Medal to the student attaining the next highest number of marks with not less than seventy per cent. of the total.

The Special Subject Medals will be awarded to the students making the highest number of marks in the respective subjects of not less than seventy-five per cent. of the total in all subjects; the marks for term work will be considered in awarding the Pharmacy and Chemistry Medals.

### Appointment of Assistants.

The appointment of students as assistants in each of the practical laboratories to aid the professors in their work will be made soon after the opening of the session. Librarians will be appointed by the Dean.



RECREATION ROOM.



# SYLLABUS.

## General Chemistry.

PROF. A. Y. SCOTT.

Lectures will be delivered on chemistry according to the time table (p. 8). The course will be so arranged that the student attending the full course of theoretical and practical work shall have acquired a satisfactory acquaintance with the science, and such as to enable him to do his post-graduate reading with that intelligence and relish which is the mark of a thorough student.

During the Junior Term lectures will be confined to the non-metallic elements and their compounds, and during the Senior Term to the chemistry of the metals and of the carbon compounds.

Each element and compound will be treated as far as possible in the following way:—History and discovery, occurrence, preparation, properties (physical and chemical), impurities, tests, uses in the arts and medicine, etc. No compound will be taken up until the elements composing it have been touched upon.

The object being to render this course as practical as possible, some substances will be treated more in detail and fully illustrated by experiments on the lecture table.

Special attention will be paid to those substances used in the British Pharmacopœia.

## JUNIOR COURSE.

### NON-METALLIC ELEMENTS.

Historical introduction, relation of chemistry to physics, general principles of the science, such as laws of chemical combination, diffusion of gases, atomic theory, nomenclature, etc.

The elements and the compounds of these in following order :

Hydrogen, Chlorine, Bromine, Iodine, Fluorine, Oxygen, Sulphur, Selenium, Tellurium, Nitrogen, Phosphorus, Arsenic, Boron, Silicon, Carbon.

### PHYSICS.

Lectures will be given on Saturday morning throughout the Junior Course and will embrace the following :

Introduction, definition and properties of matter ; force ; mechanical principles, phenomena of attraction, adhesion, cohesion, etc.

General properties and laws of liquids and gases, and the practical application of these in barometers, pumps, etc.

General properties and laws of heat, dealing with its application to everyday industries, and then with the change of state undergone by bodies, and the results which follow its application ; thermometers, engines, etc.

General properties and laws of light, mirrors, lenses, optical instruments, such as microscope, etc., optics of human eye and photography.

Magnetism, magnets, compasses, etc.

Electricity, electrical machines and accumulation of electricity, batteries, frictional electricity, etc.

This course will be made as practical as possible, care being taken not to lose sight of the laws which underlie all natural phenomena.

#### SENIOR COURSE.

##### METALS.

The metals, metallic alloys, amalgams ; general properties, as specific gravity, melting point, crystalline form, fracture, lustre, opacity, color, ductility, conductive power of heat and electricity, atomic heat, etc.

*Classification of the Metals.*—Hydroxides or Hydrates, Oxides, Acids, Salts : general properties of these.

Metals will be taken up under the following groups :—

*Alkali Group.*—Potassium, Sodium, Lithium, Rubidium, Cæsium, Ammonium.

*Alkaline Earths.*—Calcium, Strontium, Barium.

*Magnesium Group.*—Magnesium, Zinc, Beryllium, Cadmium.

*Lead Group.*—Lead, Thallium.

*Copper Group.*—Copper, Silver, Mercury.

*Cerium Group.*—Cerium, Yttrium, Lanthanum.

*Aluminum Group.*—Aluminum, Indium, Gallium.

*Iron Group.*—Iron, Manganese, Cobalt, Nickel.

*Chromium Group.*—Chromium, Molybdenum, Tungsten, Uranium.

*Tin Group.*—Tin, Titanium, Zirconium, Thorium.

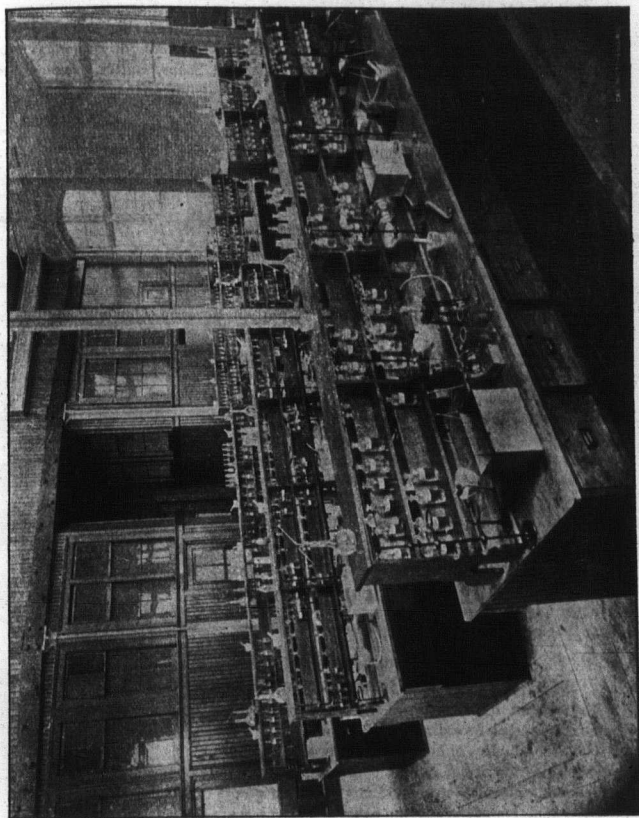
*Antimony Group.*—Vanadium, Antimony, Bismuth, Tantalum, Niobium.

*Gold Group.*—Gold, Platinum, Palladium, Indium, Rhodium, Ruthenium, Osmium.

Spectrum analysis, natural arrangement of the elements, etc.

##### CARBON COMPOUNDS.

Historical introduction, definition of organic chemistry,\* nature and sources of organic compounds. Formulæ—Empirical, molecular, typical and graphic. Analysis—Elementary and Proximate. Calculation of analysis and formulæ. General principles of classification of the carbon compounds—Isomerism, metamorphism, polymerism. Physical properties, boiling point, melting point. Optical properties.



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## I.—FATTY COMPOUNDS.

*Hydrocarbons*.—Names and classification; Paraffin, Petroleum, Vaseline, etc.; manufacture of Petroleum products, uses, tests, methods of testing illuminating oils.

*Alcohols*.—Methyl and Ethyl Alcohols, preparation, uses, tests, fermentation changes, Fusel Oil, Wines, Liquors, etc.; Haloid Ethers, higher monatomic, diatomic and triatomic alcohols and ethers; Chloroform, Bromoform, Iodoform, Glycerin, Nitro-Glycerin, Fats and Soaps, Butter, Oleomargarine; Hexatomic Alcohols and Ethers, Carbohydrates, Glucoses, Sugars, Starch, Cellulose, Gums, etc.

*Aldehydes*.—Chloral Hydrate, Croton Chloral Hydrate, Ketones.

*Acids*.—Formic, Acetic, Oxalic, Lactic, Tartaric, Citric.

*Amines and Amides*.

## II.—AROMATIC COMPOUNDS.

## GENERAL PROPERTIES.

*Hydrocarbons*.—Benzol, Naphthalene, Anthracene, etc.

*Haloid Ethers*.—Cyanogen, nitro, amido-derivatives, azo, diazo and hydrazine compounds, sulpho-derivatives.

*Alcohols and Phenols*.—Carbolic Acid, Naphthol, Resorcin, Quinone, Hydroquinones, etc.

*Aldehydes and Ketones*.

*Acids*.—Benzoic, Toluic, Salicylic, Gallic, Tannic, etc.

*Terpenes*.—Camphors, Menthol, volatile and essential oils.

*Resins*.—Balsams, Glucosides and bitter principles.

*Alkaloids*.—Conine, Nicotine, Opium, Cinchona, Strychnine, etc.; bases; coloring matters and dye stuffs, aniline, braziline, chlorophyll, etc.

*Albuminoids and Gelatinous Bodies*.—Albumin, Fibrin, Casein, Globulin, Myosin, Gluten, Gelatin.

*Animal Chemistry*.—Bones, Blood, Gastric Juice, Bile, Milk, Urine, etc.

## Practical Chemistry.

PROF. GRAHAM CHAMBERS.

## JUNIOR COURSE.

The work in this department will commence with a series of experiments in elementary physics, including the following:—

The general effect of heat upon solids and liquids.

Determination of the melting points of solids, and the boiling points of liquids. The effect of atmospheric pressure on the boiling points of liquids.

Determination of the specific heats and latent heats of solids and liquids. Use of the calorimeter.

The course in practical chemistry will commence with a study of the elementary principles, such as use of the bunsen burner, solution, solvents, crystallization, precipitation, filtration, decantation, washings, evaporation, distillation, sublimation, fusion, deflagration, etc.

The use of flame.

Elements of glass working and

The preparations and their Sulphur, Nitrogen, the inorganic acids. Study of the

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Analysis of mineral water: Urinary Acids, etc.

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The use of the blow pipe; parts of a gas flame, oxidizing flame, reducing flame.

Elements of blow pipe analyses; formation of beads on loop of platinum wire; glass working and blowing.

The preparation, properties, and reactions of the so-called non-metallic elements and their compounds. Hydrogen, Chlorine, Bromine, Iodine, Oxygen, Sulphur, Nitrogen and Phosphorus. The study of the properties and reactions of the inorganic acids.

Study of the properties and reactions of the metals and their compounds.

#### SENIOR COURSE.

Classification of the metals into groups and detection and separation of the metals in each group.

Considerable time will be given in aiding the student to become proficient in determining the composition of unknown simple salts, and detecting the impurities commonly found in them.

Systematic course for the detection and separation of the inorganic acids and more frequently occurring organic acids.

The following organic compounds will be studied in detail:—Ethyl Alcohol, Sulphuric Ether, Acetic Ether, Chloroform, Chloral Hydrate, Cane Sugar, Grape Sugar, Milk Sugar, Starch, Benzine, Phenol, Resorcin, Aniline, Antifebrin, Oil of Wintergreen, Salol, Betol, Salicin, Naphthol, and Naphthalene.

*Quantitative Analysis.*—Principles of the gravimetric process, and of volumetric analysis; preparation of standard solutions; practical application of these solutions in the estimation of the strength of some of the British Pharmacopœia preparations.

*Analysis of Potable Waters.*—Standards of purity; qualitative examination of mineral waters.

*Urinary Analysis.*—Detection of Albumen, Mucin, Sugar, Phosphates, Bile, Acids, etc.

*Quantitative Estimation.*—Of Sugar and of Urea.

### Toxicology.

#### PROFESSOR CHAMBERS.

Definition of a poison. Classification of poisons.

Each poison will be discussed as to its dangerous and probable fatal dose; symptoms of poisoning, antidotes, treatment and detection.

The action of some of the more common poisons will be illustrated practically by experiments on lower animals.

The practical work will be taken up during the hours assigned to practical chemistry, and will include the following:—

Systematic course for the detection and separation of inorganic poisons.

The study of the properties and reactions of organic poisons, including the alkaloids and ptomaines.

Methods for the detection of poisonous alkaloids.

Especial reference will be given to the methods of extraction of poisons from organic substances, such as occur in ordinary toxicological analyses.

## Theory and Practice of Pharmacy.

PROF. CHAS. F. HEEBNER.

### JUNIOR COURSE.

Lectures of the Junior Course will be delivered according to time-table.

After an introductory lecture on the outline history of Pharmacy, the Pharmacopœia, and pharmaceutical legislation, and a consideration of the text books and works of reference of service to the pharmacist, the classification and naming of drugs in general, and the contrast between modern and ancient pharmacy, the following subjects will be considered, viz. :-

**Metrology.**—Weight, weighing, systems of weights in use; the balance, its construction, verification, care and use; classification of scales as to mechanism involved; the metric system; measures, forms, uses and verification; systems, imperial, wine and metric; measuring.

**Specific Gravity.**—And methods for determination in connection with both solids and liquids. Hydrostatic balance; pycnometers; hydrometers; loaded cylinder, etc.; calculations.

**Specific Volume.**—Its use and practical application. Rules for averaging mixtures. Calculations.

**Botanical Drugs.**—Collection, desiccation, curing, garbling, tests for quality, etc.

**Mechanical Subdivision of Drugs.**—Comminution, contusion, trituration, grinding, drug-mills, levigation, separation of powders, sifting, elutriation, degrees of fineness; mortar and spatula, construction and correct use.

**Heat.**—Its determination, sensible and latent heat; thermometers, their construction; comparison of thermometric scales; sources of heat and its use in pharmacy; combustion of solids, liquids, and gases in the great variety of heating apparatuses; bunsen burner, blow-pipe; crucible and other media of application.

**Processes Requiring a High Heat.**—Ignition, incineration, calcination, dehydration, fusion, determination of fusing-point, torrefaction, roasting, reduction, deflagration, oxidation, carbonization, sublimation.

**Methods for Equalizing and Controlling Heat.**—Baths, water, saline, steam, oil, glycerin, paraffin, hot air, sand, card-teeth, gauze, asbestos, etc., constant temperature regulators.

**Vaporization.**—Ebullition, boiling point and its determination, evaporation, conditions affecting the process, appliances for hastening spontaneous evaporation, evaporation *in vacuo*.

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*Distillation and its Uses.*—Simple, fractional, and destructive distillation; structure and method of employing the various forms of distillatory apparatus applicable to the chemical and pharmaceutical processes of the Pharmacopœia. Rectification. Cohobation.

*Sublimation.*—Sublimates; powder and cake. Condensers; Liebig, dome and others.

*Solution.*—Simple, chemical, complex, saturated, super-saturated, means for facilitating, circulatory displacement, solvents. Refrigerating mixtures.

*Gases.*—Their generation, purification, collection, condensation, desiccation, and absorption.

*Filtration.*—Various filtering media with their general and specific uses; methods of conducting filtration; folding of paper filters; rapid filtration by use of pressure, aspirator, or vacuum pump; hot filtration; colation. Funnels; construction, selection and uses.

*Clarification.*—Methods as applied to various typical liquids; deodorization; decolorization.

*Decantation.*—The siphon and its uses; various kinds of siphons; guiding-rods, etc. Separating funnels. Florentine receivers.

*Dialysis.*—Construction of dialyser, osmosis, endosmosis, exosmosis, crystalloids, colloids, septa, etc.

*Precipitation.*—Objects and uses; separation, washing, drying, and weighing of precipitates; affusion, decantation.

*Crystallization.*—Methods for effecting; hydrous and anhydrous crystals; water of crystallization; morphism; growth and size of crystals; recrystallization; granulation; deliquescence; efflorescence. Crystallography.

*Extraction.*—Principles involved; extractive, its determination and modifications; apotheme; methods of extraction; maceration, digestion, infusion, decoction, lixiviation, percolation. Expression.

*Percolation.*—Brief history and theories; principles involved; construction of percolators; requisites for satisfactory percolation to exhaustion; menstrua, determination of alcoholic strength; fluid extracts; estimation of cost to manufacture; tests for exhaustion; controlling flow of percolate. Pressure percolation, consideration of its advantages and disadvantages. Fractional and re-percolation. Recovery of alcohol from marc; testing percolates, etc.

#### SENIOR COURSE.

*Senior Lecture Course.*—Lectures will be delivered on Wednesdays and Saturdays at 10.15 o'clock a.m.

The mode of teaching, which educates the mind through impressions made on the eye, is now universally regarded as one of the most effective means of imparting knowledge. Through both courses this kind of instruction will be largely used; and the syllabic tables, drawings on cloth in colors, reactions, tests, views, etc., projected upon the screen by means of the oxy-hydrogen lantern, will, it is believed, add greatly to the usefulness and interest of the lectures.

One of the special features of this course will be the study of incompatibility, as viewed from chemical, pharmaceutical, and physiological standpoints.

The subject-matter of the lectures of the Senior Session will be divided into two heads, namely, inorganic and organic drugs, and will embrace a careful study of the important Galenical and other pharmaceutical preparations, whether official or unofficial, giving the methods of preparation, physical characteristics, internal structure, reactions, uses, doses, impurities, adulterations, and sophistications of each, which will be considered in detail.

A brief synopsis of this course is here given:—

Classification and consideration of pharmacopœial preparations; liquids; solids.

*Inorganic.*—Mineral acids and their preparations.

Preparations of the salts of the alkali metals. Volumetric and gravimetric assaying.

*Organic.*—*Alkaloids*, sources, methods of isolation and identification; alkaloidal salts, physical and chemical characteristics; assaying of alkaloidal drugs and their preparations in general and specifically. The artificial alkaloids and other new remedies; Acetanilidum, Phenacetinum, Phenazonum, Sulphonal, Paraldehyd, Glusidum, etc.

*Glucosides*: physical and chemical properties; official and unofficial glucosides; decomposition products.

*Inorganic.*—*Alkali-earths*: preparations of calcium, magnesium, barium, strontium, cerium.

Preparations of the halogens, and of cyanogen, sulphur, phosphorus.

*Metals*: Preparations of zinc, copper, iron, arsenic, antimony, bismuth, silver, mercury, lead, etc.

#### ORGANIC PHARMACY.

*The Cellulin Group.*—Cellulin, its modifications and decomposition products, gossypium, pyroxylin, collodia, chartæ, parchment paper, oxalic acid, etc.

*Destructive Distillation of Cellulin.*—Acetic acid, methyl alcohol, tars, creasote, carbolic acid, salicylic acid, salol, oils of cade and amber, charcoals, etc.

*Amylaceous and Saccharine Groups.*—Carbohydrates, their relationships and decomposition products; starches, dextrin, glucose, sugar, honey, etc.

*Plant Exudations and their Manipulatory Products.*—Gums, resins, oleo-and-gum; turpentine, terebene, terpin hydrate; balsams, emulsions, benzoic acid, etc.

*Fermentation and its Products.*—Ferments, malt, yeast, alcohols, rectified and proof spirit; wines, argols, tartaric and citric acids, spirituous liquors.

*Alcohol Derivatives.*—Ethers, spts. æth. co., spts. nitrous ether, amyl nitrite, chloral hydrate, chloroform, iodoform, etc.

*Volatile Oils.*—Will be fully and specifically considered; natural and synthetic oils; impurities and adulterations means of detection; stearoptens, official and non-official.

*Fixed Oils and Fats.*—Preparation, purification, physical properties, chemical composition, liquid and solid fats; waxes; ointment bases.

*Saponification Products.*—Soaps, glycerin, glonoin, oleic acid, oleates and oleopalmitates.

*Animal Drugs.*—Pepsins, pancreatin, trypsin, cantharis, coccus, cetaceum, castoreum, civet, ambergris, hæmaglobin, oxgall, lactic acid, isinglass, gelatin, cod liver oil, etc.

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PORTION OF PHARMACAL LABORATORY.



## Practical Pharmacy, Pharmaceutical Chemistry.

PROF. CHAS. F. HEEBNER.

The value of theoretical instruction and lecture demonstration depends largely upon the opportunities which the individual student may have of applying the knowledge so gained. Many disappointments and failures in manipulation result wholly from lack of practical experience.

Great importance is attached to manipulative or technical skill, and, recognizing the difficulties which stand in the way of its attainment during the ordinary course of apprenticeship in the average drug store, it has been determined to make the instruction in the Pharmacal Laboratory of a thorough and practical kind.

To this end, work of an entirely practical nature has been selected for the laboratory exercises, including operations which, while typical of a class, can also be profitably repeated on a commercial scale with the apparatus and facilities which should be found in every retail establishment. The course has been arranged systematically upon this basis, keeping in mind the necessity of commencing with the more elementary general operations, and teaching correct methods of executing them, and proceeding to the more difficult.

The College places great emphasis on the practical value and importance of the laboratory work, and *regular and punctual attendance* on the part of students is demanded. The manipulations will be performed by the students, individually, under the guidance of the Director, by whom the work done will be accurately rated.

*A deposit of five dollars will be required from each student at the commencement of the laboratory course, to cover all breakage, damage or waste. The balance not so expended will be returned to the student at the expiration of the term. At any time, however, when the breakage, etc., shall exceed the above amount, a new deposit will be required.*

It is intended that each student shall receive individual instruction, and to this end the class is divided into two sections.

*Section 1 will meet on Monday and Friday mornings at ten o'clock, and Section 2 on Tuesday and Thursday at the same hour.*

Before proceeding with the practical work, a short lecture and practical demonstration will be given, explaining in detail the various steps of the manipulatory exercise about to follow; the difficulties which will be likely to present themselves will be noticed, and the methods of overcoming them explained.

### JUNIOR LABORATORY COURSE.

This course includes practical work in weighing, measuring, specific gravity, standardizing of thermometers, making specific gravity bottles, and the manufacturing of pharmacopoeial chemicals or preparations, illustrating one or more of each of the pharmacal processes described in the didactic course, including the following:—Solution, precipitation, decantation, filtration, clarification, crystallization, dialysis, circulatory displacement, evaporation, sublimation, distillation, maceration, percolation, re-percolation, ignition, oxidation, calcination, fusion, carbonization, etc.

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# Chemistry.

## SENIOR LABORATORY COURSE.

Besides giving due consideration to those pharmacal preparations which can be properly and profitably prepared by the retail pharmacist, particular pains will be taken to instruct the student how to prepare many pharmaceutical chemicals and elegant preparations which he has not ordinarily the opportunity to learn to make in a retail store. The Course will be completed by giving each student a thorough drill in the art of reading, recognizing incompatibles, and compounding and dispensing physicians' prescriptions. Metrical prescriptions will receive full consideration. The class will be instructed in the preparation of Chemical Solutions, Syrups and Elixirs, Spirits, including Spirit of Nitrous Ether, Ether, Iodoform, etc.; Masses and Pills, also coating of pills; Capsules, Suppositories, Cerates, Ointments, Plasters, Emulsions, Scale and Crystal Salts of Iron, salts of various metals and their purification, Organic and Inorganic Acids, Alkaloids, Resins, Collodions, Oleates, and Oleo-palmitates, etc.; Pharmaceutical Assaying:—Cinchona, Opium, Jalap, Scammony, Nux Vomica, Pepsin, Coffee, Tea, Guarana, and other drugs will be assayed.

## Prescriptions and Dispensing.

PROF. CHAS. F. HEEBNER.

*Prescriptions.*—The method of instruction in the reading, translating and criticizing of Prescriptions will be one of the useful and interesting features of the Course.

The success attained during the past two years by the original plan adopted, warrants the continuance of the same, though on a more extended scale and with improved facilities.

*Method.*—Briefly stated, the prescription in the original handwriting of the physician is in a novel manner projected upon a screen by the aid of the oxy-hydrogen lantern, where it can be seen and studied by the entire class at the same time, and duly criticized in response to the interrogations of the instructor.

Opportunities are thus afforded for a critical consideration of many hundred prescriptions in such a manner as to indelibly stamp them upon the student's mind.

Dates and hour of exercises will be announced during the session.

*Dispensing.*—Dispensing will be taught in the Pharmacal Laboratory during the Senior Course.

The instruction will be wholly practical, and considerable time will be devoted to extemporaneous pharmacy; modern appliances in pharmacy will be presented and explained, incompatibles and decompositions will be thoroughly considered, and the compounding of prescriptions will receive the careful consideration which the subject demands.

The following topics are included:—

*Solutions and Mixtures.*—Simple solutions, chemical solutions, temperature, utensils to be used, order of mixing, measuring, bottling, corking, labelling, capping, etc.

**Pills.**—Active ingredients and excipient, class of preparations properly dispensed as pills, choice and preparation of excipient, massing, rolling, cutting, rounding, finishing and coating; shapes of pills, globular, ovoid or lenticular; incompatibles.

**Emulsions.**—Theory of emulsification, rules for perfect and permanent compounds of this class, emulsions of fixed oils, English and Continental methods, emulsions of volatile oils, resins, gum-resins, oleo-resins, wax, wool fat, camphor, etc.; seed emulsions; emulsifiers; comparison and preparation; flavoring, etc.; saponification.

**Powders.**—Trituration, dilution, sifting, dividing, folding, boxing, labelling, etc., hygroscopic powders, preparations of substances for admixture, decompositions, explosive mixtures.

**Suppositories.**—Sizes and shapes made by hand and by mould, both hot and cold; bases, instructions for special kinds of medicaments, tannic acid, alkaloids, extracts, liquids, salts, etc., bougies.

**Ointments and Cerates.**—Bases, hot and cold methods, preparation of ingredients for incorporation, elements, salts, liquids, extracts, powders, etc., masking of odorous ingredients, dispensing, labelling, etc.

**Troches.**—Bases, massing, rolling, dividing, drying, boxing, preservation, use of solid and liquid ingredients.

**Plasters and Plaster Spreading.**—Forms of plasters for various uses, border, form-cutting, spreading with hot iron, blisters.

**Cachets.**—Mixing ingredients, dividing, use of cacheteur.

**Capsules.**—Preparation for use with solids or liquids, closing.

**Incompatibilities.**—Including such as are likely to arise in everyday practice, as well as those which are less common. This subject will receive the special attention which its importance demands.

## Botany.

PROF. A. Y. SCOTT.

### JUNIOR COURSE.

For time of lectures see time-table.

In this course the object will be to make the lectures as practical as possible. Each student will find it to his advantage to procure the text books recommended, and following the directions therein given as to collection of plants, to make and preserve before and during the session as large an assortment as possible of ordinary flowers, roots, leaves, etc., for examination during the term.

After defining the subjects, the following divisions will be considered:—

I. **Organography**—Or the branch which treats of the organs by which the plants do their work.

1. **Organs of Vegetation.**—Root, Stem, Leaf, Plant Hairs or Trichomes, Branching.

2. **Organs of Reproduction.**—Introduction, Anthrotaxy, Prefloration or Estivation, Flower, Pollination, Fertilization, Fruit, Seed.

II. **Vegetable Histology**—Or the branch which treats of the minute structure of the plant. Cell—Its Contents, Wall-formation, etc. Tissues. Histology of the Root, Stem, Leaf and Floral Organs.

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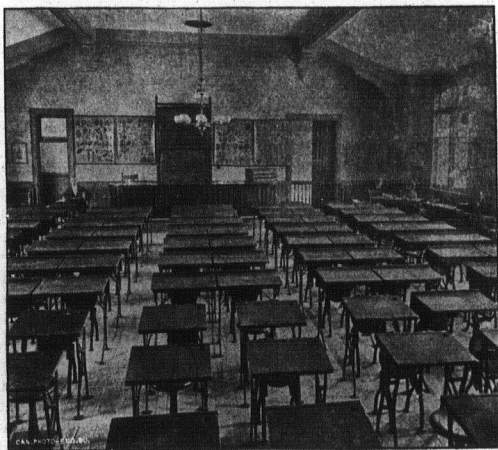
SENIOR COURSE.

III. *Vegetable Physiology*—Or the branch which treats of the functions of plants, etc. Comparison of Plant, and Animal, Protoplasm, Constituents and Food of Plants, Absorption, Assimilation, Metastasis, Influence of Temperature and Light, Parasites, Saprophytes, Movements, Locomotion, Irritability, Heliotropism, Geotropism, etc., Reproduction and Death.

IV. *Vegetable Taxonomy*—Or the naming, classifying, and account of the life histories of plants.

The Linnæan and natural system of classification will be compared. The Cryptogams will then be considered as to their Structure, Modes of Growth, Reproduction, etc. Phanerogams will be taken up, special attention being paid to the following orders :—

Ranunculaceæ, Cruciferae, Leguminosæ, Rosacæ, Umbelliferae, Compositæ, Lobeliaceæ, Labiata, Solanaceæ, Polygonaceæ, Lupuliferae, Orchidæ, Iridaceæ, Liliaceæ, Smilacæ, Cyperaceæ, Graminaceæ, Coniferae, Filices, Fungi, Algæ, Lichenes. Practical examination illustrating knowledge of anatomy of specimens of fresh plants.



LECTURE ROOM—BOTANY AND MATERIA MEDICA.



## Latin, Materia Medica, Posology, Microscopy and Pharmacognosy.

PROF. J. T. FOTHERINGHAM.

### JUNIOR COURSE.

During the Junior Term the class is taken carefully over the following work, introductory to the heavier subjects of the Senior Term :—

1. *Latin*.—The rudiments of Etymology, especially that of the Noun, Pronoun and Adjective.
2. *Prescriptions*.—Especially the syntax, abbreviations and essential component parts of the Classical Prescription.
3. *The Exhibition of Drugs*.—Discussed (a) as to Form of Drugs, (b) as to Mode of Administration. This latter question leads naturally to the important one of
4. *Absorption*, the mode of entrance of drugs into the body-fluids and tissues, and demands a short statement of the rudiments of Physiology, particularly that of Circulation and Digestion. No defence of this addition to the course of instruction in this College need be given.
5. *Posology* follows in natural order, and is discussed first as to general principles, such as age, sex, body-weight, and other modifying influences, then lists of doses of all the preparations are given.
6. Therapeutic Terms and Definitions, with such explanations as are likely to be useful to the pharmacist rather than the medical student.

### SENIOR COURSE.

7. *Materia Medica*.—The Lectures on this subject take up the crude drugs of Animal and Vegetable origin, each in the following order :—1. Names of Drugs, official and common, English and Latin. 2. Plant and Natural Order. 3. Definition, Description and Varieties. 4. Habitat. 5. Mode of Collection and Preservation. 6. Constituents and Impurities. 7. Medical Properties. 8. Official preparations and their doses. 9. Toxicology, if any.
8. *Pharmacognosy* is taken up partly under the head of Microscopy, and partly in the lectures on Materia Medica, under the head given above, "Definition, Description and Varieties." A sample of each drug, so far as is possible, is laid upon each desk before the lecture begins. This feature of the instruction given during the past two years here is a marked improvement upon the methods employed in some of the best American Colleges, and meets with the marked approval of the classes.
9. *Microscopy*.—The main object in this branch being the acquisition of methods, that those who choose may follow out their investigations after graduation, the rudiments of Structural Botany are first taught, then Pharmacognosy is taken up, and typical drugs, particularly roots, rhizomes, barks, and powders, are studied. The student is taught to do all the necessary manipulations, staining, dehydrating, clearing, mounting, etc., an apparent advance upon the method of magic lantern slides in Pharmacognosy. Appliances such as slides and covers, etc., to be obtained in the College.

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## Text Books.

Of the following list of text books those printed in *italic* should be provided by the students for their own use; the others will be found valuable aids to those students who wish to extend their reading over a large field. The more expensive books of reference may be consulted in the College library.

### CHEMISTRY.

*Fowne's Manual of Chemistry*, Roscoe's *Lessons in Elementary Chemistry*, Madan Wilson's *Inorganic Chemistry*, Remsen's *Advanced Course of Inorganic Chemistry*, Roscoe & Schorlemmer's *Chemistry* (eight volumes).

### PHYSICS.

*Balfour Stewart's Elementary Physics*, Ganot's *Physics*, Peck's *Ganot's Physics*, Miller's *Chemical Physics*.

### PRACTICAL CHEMISTRY.

*Jones' Practical Chemistry*, A. H. Elliott's *Qualitative Analysis*, Douglas & Prescott's *Qualitative Analysis*, Fresenius' *Quantitative Analysis*, Hoffman & Power's *Examination of Medicinal Chemicals*.

### BOTANY.

*Spotton's High School Botany*, *Bastin's College Botany*, Bessey's *Botany*, Gray's *Lessons in Botany*, Gray's *Structural Botany*, Sach's *Physiological Botany*.

### PHARMACY.

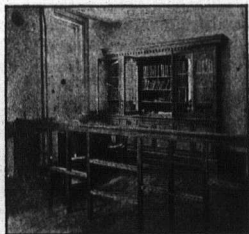
*British Pharmacopœia* (latest edition) and the *Addendum*, *Heebner's Manual of Pharmacy and Pharmaceutical Chemistry*, *Heebner's Synopsis of B. P. Preparations*, *Pereira's Prescription Book*, Squire's *Companion* (1890), Remington's *Practice of Pharmacy*.

### MATERIA MEDICA.

*Maiseh's Organic Materia Medica*, *Pereira's Materia Medica*, National Dispensatory (1886).

### PHARMACOLOGY AND MATERIA MEDICA.

*Fluckiger & Tschirch's Principles of Pharmacology* (Powers' Translation), Goodale *Physiological Botany*, Poulsen's *Micro-Chemistry*.



LIBRARY.

## Curriculum of Study for Apprentices.

The following plan of study is submitted in order that the apprentice may, during four years of service, train himself into habits of systematic study previous to attendance at the College, and prepare the ground work for the intelligent reception of the instruction there given, which must of necessity be somewhat crowded upon him, owing to the shortness of the course.

In arranging such a course of study, one can hardly make it of equal value and applicability to apprentices in all localities, as advancement in the knowledge of pharmaceutical practice and dispensing on the part of the apprentice will depend largely upon the character of business transacted in the shop and the practices resorted to by the proprietor or master, as to whether a fair percentage of the former is the compounding of physicians' prescriptions, and as to whether the great majority of the Galenical or other official preparations used in the shop are prepared on the premises or purchased from wholesale manufacturers.

Before entering upon a course of study, the apprentice must arrange for time to devote to his books, and this he must mainly arrange for himself. He should be able to secure an hour each day at the beginning, and as his interest increases, the study hours will receive augmentations.

In the time set aside for this purpose let him read with eagerness—read for facts to turn over in the mind and memorize while cleaning up the store and washing bottles. The knowledge thus acquired should be safely guarded and the omission of a day's reading avoided as he would avoid the loss of a dollar from his pocket.

For the duties of pharmaceutical practice the proprietor is the teacher. It belongs to the proprietor, by virtue of his position, to encourage and favor the professional improvement of his employees by all suitable measures. It is to be the better qualified for these duties that a systematically graded course of study is to be undertaken by the assistant.

The synopsis here laid down is designed to co-operate with the direction of the master of the pharmacy.

### FIRST YEAR.

*First Principles of Pharmacy.*—Systems of weights and measures, including the metrical system, and their relations to each other; specific gravity and specific volume; mathematical calculations involving the above; minor pharmaceutical operations, as the sub-division of drugs; solutions, with and without heat; filtration, the proper folding of filters, etc.

Text Book: Manual of Pharmacy and Pharmaceutical Chemistry.

References: Preface to B. P., Parrish's Treatise on Pharmacy, Remington's Practice of Pharmacy.

*Elements of Physics.*—This study will prove to be of so much interest that it may be rapidly mastered.

Text Book: Peck's Ganot's Physics.

*First Principles of Chemistry.*—The assistant should familiarize himself with the contents of the first 128 pages of Attfield's Chemistry, and from time to time review the same (particularly the first 58 pages) until the important truths of chemistry are understood. General chemistry is here treated of from a pharmaceutical standpoint.

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**Botany.**—The study of Organography, as given in the first 123 pages of Bastin's College Botany, which includes the vegetative and reproductive organs of plants, is the limit of study recommended in this subject. If, however, time should permit, the further study of Vegetable Histology is advised, and at all times the collection and preservation of plants or portions of plants, exhibiting the marked features learned of, should be pursued.

#### SECOND YEAR.

**Titles.**—The correctly spelled and unabbreviated Latin and English titles of official drugs and preparations should be learned and written from time to time during this year; the synonyms by which these are known should also be memorized.

Reference to any pharmaceutical substance by its syllabic abbreviations should be discountenanced, it being unscientific, inaccurate and tending to carelessness—as “pot. chlor.” for chlorate of potassium; “sod sulph.” for sulphite of sodium, etc.

References: British Pharmacopœia and Addendum, Squire's Companion, National Dispensary.

**Operative Pharmacy.**—The common pharmaceutical operations should be carefully studied and carried into practice in the preparation of tinctures, syrups, wines, vinegars, ointments, etc., required in the shop.

Text book and reference same as used in first year with the British Pharmacopœia and Addendum.

**Latin.**—The rudiments of etymology, accidence, etc., of nouns, adjectives (especially numerals), pronouns and verbs; syntax; abbreviations used in prescriptions and their translation.

Text Books: Robinson's Latin Grammar of Pharmacy and Pereira's Prescription Book.

**Chemistry.**—The remaining pages of Part I. of Attfield's Chemistry should be carefully studied, and reviewed from time to time during the remainder of the course. In the pages mentioned the methods of qualitative analysis are gradually introduced; the solubilities of salts are classified; chemical equations are explained, and directions carefully given for calculating quantities of materials from the chemical proportions stated by an equation.

**Materia Medica.**—Each important official animal and plant-drug should be studied as to its source, part used, habitat, active principles, medical properties and dose. The physical characters of the crude specimens, and the distinctive features by which they may be identified, should be mastered.

The studies of the first year should be reviewed, and a short time spent each day in the interpretation of prescriptions.

#### THIRD YEAR.

**Pharmacopœial Preparations.**—These should be studied as to their ingredients, methods of preparation, strengths and doses; these facts are conveniently arranged and tabulated for this purpose in Synopsis of B. P. Preparations.

References: British Pharmacopœia and Addendum, Squire's Companion.

*Prescriptions and Dispensing.*—The prescription fyles should be carefully studied, and by mathematical calculation the quantity of each ingredient in the prescribed dose determined. The preceptor should permit the assistant to compound prescriptions under his direct supervision and in accordance with his specific instructions. Too much experience of this character cannot be gained, as opportunities are frequently presented whereby the preceptor may point out and explain incompatibilities, as to whether they are intentional or accidental, and the means of avoiding them, if required.

*Operative Pharmacy.*—Should be continued practically throughout the remainder of the course. Review work of second year, and pharmacopoeial preparations of this year's course.

#### FOURTH YEAR.

A general review of the subjects of previous years, and a continuance of study in all subjects by reference reading, using the Dispensatories and Squire's Companion for reference, as well as the other text books already mentioned.

For general study during the apprenticeship period the following branches should be occasionally reviewed, mathematics receiving especial attention:—

*Arithmetic.*—Vulgar and decimal fractions, percentage, ratio, proportion, alligation, etc.

*Mensuration.*—Areas of circles, parallelopeds, cylinders, etc.

*Algebra and Geography.*

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### For the Guidance of All Students.

1. Preliminary examination, accepted certificate, see page 16.
2. All fees and deposits are payable to the Registrar *strictly in advance*.
3. On signing the roll, subscribing to the rules of the College, and producing receipts for fees paid, each student will receive from the Registrar a general lecture ticket, which must be preserved so that attendance may be certified to at the close of the session by the Dean.
4. Students are particularly requested, in their own interest, to be in attendance at the commencement of the course.
5. Choice of seats in Lecture Rooms will be according to precedence of names on the College Roll. The attention of those students who have already paid for two courses is directed to the necessity of applying to the Registrar for choice of seats, as in the case of other students of the Senior Course.
6. Junior students may secure their seats for the senior term by leaving a deposit with the Registrar at the close of the junior session.
7. Every student must attend at least three-fourths of the lectures and laboratory work in each subject, unless exempted by the Council on account of sickness or some other satisfactory cause. No ticket for attendance on lectures will be signed unless these conditions have been complied with.
8. Instead of a roll-call, each student will be marked absent whose chair or section is vacant or occupied by some other person; students will not be allowed to exchange seats without formal application to the Registrar.
9. Quiz classes may be arranged for by the Faculty after the work of the session has begun.
10. All drugs and chemicals required for the economical working of the test processes in the laboratories, or in the manufacture of preparations, will be furnished by the College without charge, but any student using an excessive amount of reagents, or other supplies, etc., provided by the College, or breaking or damaging the apparatus of the laboratories, will have the value of same deducted from his deposit fee, and in case this should be exceeded, the deficit must be paid before an examination can be tried or his tickets certified to.
11. Candidates must pass in all subjects of the Junior Course before entering the Senior. At the first Senior Examination the six subjects, Practical Dispensing, Reading and Translating Prescriptions, Chemistry, Pharmacy, Materia Medica, and Botany must be taken, but any candidate who obtains sixty-six and two-thirds per cent. in each of four subjects, shall be deemed to have passed in these subjects, and has the option at any future examination of taking all subjects or only those in which he has failed, but in the latter case he must take sixty-six and two-thirds per cent. in each subject, and will not be entitled to either prizes or honors.
12. Each candidate must receive at least fifty per cent. in Pharmacy, Dispensing and Prescriptions, and sixty-six and two-thirds per cent. on the aggregate.



13. Application for permission to write on any examination must be made to the Registrar at least two weeks before the date set for the commencement of such examination. Forms of application will be supplied by the Registrar.

14. No diploma will be granted to any candidate who has not attained the age of twenty-one years, or who may not have had the necessary experience.

15. Any candidate who has not served a term of apprenticeship in the Province of Ontario, but has attended both Junior and Senior Courses at this College, and passed the Council Examination, will receive a certificate or diploma of examination, which, however, does not permit him to practice pharmacy in this Province.

#### BOARDING HOUSES.

16. Board and lodging may be readily obtained in close proximity to the College, at rates ranging from \$3.00 upward per week. The Janitor at the College buildings can provide enquirers with a list of addresses of suitable lodging-places on their arrival in the city.

#### CORRESPONDENCE.

17. All correspondence should be addressed to I. T. Lewis, Registrar-Treasurer, who, when necessary, will communicate with the Dean of the College.



## HISTOR

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## HISTORY AND DESCRIPTION OF THE COLLEGE.

An Act entitled the "Pharmacy Act, 1871," was granted by the Ontario Legislature, in 1871, to the "Canadian Pharmaceutical Society," a society which had grown out of the "Druggists' and Chemists' Association," formed in Ontario about that time.

By this Act, the authority of which was vested in a Council of thirteen, every person in the Province of Ontario who had been, or was carrying on business as a druggist, or who had served an apprenticeship of three years and had acted as a druggist's assistant for one year, was, upon payment of a fee of \$4, entitled to be enrolled as a member of the Ontario College of Pharmacy, and to the privileges therewith. This Act of Incorporation gave to the College the power of acquiring and holding real estate, and of erecting buildings for the purpose of lectures on chemistry, pharmacy, etc., and for a library or pharmaceutical museum: it also conferred on the Council elected by the College the right to examine candidates for certificates of competency to carry on the business of druggist.

The latter power the Council immediately took advantage of to protect the public at large and the drug trade in particular.

Prior to 1882, the training of students for their examination was left wholly to private enterprise, when, for the first time, the Council felt itself able financially to undertake a system of teaching, such as was required. Of this teaching department Mr. E. B. Shuttleworth was appointed Dean, with Messrs. Rose and Robinson. Temporary quarters were obtained and fitted up on Wellington Street, Toronto.

In the year 1886, the Council, seeing that greater accommodation was required, purchased a site on St. James Square, for the erection of buildings suitable for lectures, etc. These buildings were completed and equipped in 1887, at a cost of over \$21,000, and various sums have yearly been expended upon the purchase of additional fittings and apparatus.

The Act of 1871 did not specify any definite time for apprenticeship service, nor for qualification on entering the same. This was amended in the Acts of 1884 and 1889. The term of apprenticeship and regulations regarding junior and senior terms are fully given under their headings in the body of this Announcement. (Pages 15 to 18.)

By the Act of 1889 all students are compelled to attend two courses of lectures—the Junior in this or some other college approved of by the Council, and the Senior in this College. This Act also conferred on the Council the power of fixing and determining from time to time the curriculum of studies, so that the College can always be kept abreast with any improvement made in pharmaceutical education.

The Council of 1891 enlarged the building erected in 1887, at a cost of \$15,000, so that the building now covers the entire lot, 65 x 175. The total cost of the building was over \$40,000. The building is heated throughout by steam, well lighted and thoroughly ventilated. On the ground floor is a reading room for the students and next to it the library. (See cut, page 35.) On the opposite side of the hall is a private laboratory, in which the professors and assistants prepare the materials for

their lectures. At the rear is a large recreation room, 47 x 29. (See cut, page 19.) Adjoining this is a store room, from which a hoist runs up to the pharmaceutical and chemical laboratories above. There are also on this floor cloak-rooms and the steam-heating apparatus. On the second floor front are the Council Chamber and the Dean's room, separated by a wide hall-way. Back of these is the chemistry and pharmacy lecture room, 42 x 34, with accommodation for 140 students. The seats are of the latest improved design, with folding writing tablet, and are arranged as a theatre, so that those in the rear have a good view of the lecture table. The table is fitted with hot and cold water and gas, sinks, draught fume chamber and the other appliances necessary for effective lecturing. The room is well lighted and ventilated. (See cuts, page 14.)

In the rear is the pharmacal laboratory, 38 x 47 (see cut, page 29), which, with its present appointments, furnishes admirable facilities for instruction in the line of advanced modern pharmaceutical education, which are excelled by no similar institution on this Continent. This laboratory is fitted up with all modern improvements, and furnishes accommodation at present for 112 students, or for 56 working at a time.

Each student has seven and a-half square feet of counter space, with a draw-side furnishing an additional two and a-quarter square feet, also a cupboard and drawer containing all the apparatus necessary for his work.

Gas and water supply is conveniently arranged for each student, and a large steam or hot-water bath for evaporating, etc. In connection with this laboratory there is a fume room, a drug room, a desiccating room, and glass-stock room.

On the third floor is situated the lecture room for botany, materia medica and toxicology, dimensions 42 x 44. (See cut, page 33.) There is desk accommodation for 120 students. Around the room are arranged two long work-tables, extending the full length of the room, for use in the study of microscopy, microscopical botany and pharmacognosy. The tables are divided into compartments fitted with locked drawers. Each work-section is provided with a microscope, reagents and staining fluids, appliances for mounting, etc.

In the rear is the chemical laboratory (see cut, page 23), 38 x 47, fitted with desks for 116 students, or 58 at a time. Each student is supplied with all the bottles for reagents and chemicals necessary for pharmacy students. The laboratory is thoroughly equipped and compares favorably with any in the country. Adjoining the laboratory are weighing and store rooms and private rooms for the professors. Altogether the building is admirably suited for the purposes of the College, and is a credit to the Council and the druggists generally.

In 1892 the Council successfully carried to completion the affiliation of the College with Toronto University, which is a matter of congratulation to intending students, and a recognition of the thoroughness of the College Course.

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\*H. M. Paeckert  
\*J. M. Spencer.  
\*J. W. Reed.  
\*F. W. Farries.  
S. Ryall.  
\*R. D. McPhail  
\*T. B. Welch.  
\*R. L. Pentz.  
\*W. A. Griffith:  
\*W. R. Suddab  
\*H. F. Cant.  
\*N. T. McLearn  
\*J. M. Peplow.

\*Passed i

## Examinations, 1893.

### PRIZEMEN

- COLLEGE GOLD MEDAL—H. M. Paeckert, Stratford.  
 COLLEGE SILVER MEDAL—J. M. Spencer, Owen Sound.  
 D'AVIGNON MEDAL—Septimus Ryall, Paris.  
 CHEMISTRY MEDAL—H. M. Paeckert, Stratford.  
 PHARMACY MEDAL—J. M. Spencer, Owen Sound.  
 MATERIA MEDICA MEDAL—R. L. Pentz, Toronto.  
 BOTANY MEDAL—R. J. Whaley, Delta.

### HONOR LIST—IN ORDER OF MERIT.

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|-------------------|-------------------|-------------------|
| *H. M. Paeckert.  | *R. M. Johnson.   | *A. S. McElroy.   |
| *J. M. Spencer.   | *Delos Pettit.    | *F. W. Smith.     |
| *J. W. Reed.      | *E. G. Hodgson.   | *J. E. Davis.     |
| *F. W. Farries.   | *W. R. Boulter.   | *R. J. Whaley.    |
| S. Ryall.         | *J. H. Goodeve.   | Geo. Collard.     |
| *R. D. McPhail.   | *W. A. Cross.     | *J. S. Armitage.  |
| *T. B. Welch.     | *A. E. Gayfer.    | *W. A. Rudell.    |
| *R. L. Pentz.     | *H. T. Baker.     | *E. G. West.      |
| *W. A. Griffiths. | *W. T. Liddell.   | E. McQuade.       |
| *W. R. Suddaby.   | R. E. Strong.     | *G. S. Armstrong. |
| *H. F. Cant.      | *Wm. Ledingham.   | *V. S. Mundy.     |
| *N. T. McLean.    | *Stanley Jackson. | *G. T. Maynard.   |
| *J. M. Peplow.    | *E. A. Burgis.    | *L. J. Auston.    |

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\*Passed in Practical Chemistry

## Pass List.

### ALL SUBJECTS.

The following in addition to those mentioned on the preceding page:—

(Alphabetically arranged.)

*Archibald, A.	Fowlds, Chas. R.	Loucks, J. A.	Simson, W. A.
*Allison, Chas. H.	*Graham, Geo.	*Mitchell, T. B.	*Simmons, W. D.
*Beaudette, A. J.	Gillies, A. C.	*Morton, J. S.	*Smith, D. A.
*Bell, D.	Guillemont, E.	*McBeath, D.	*Smith, B. F.
*Boles, T. G.	Hartley, D. S.	*McCrea, W.	*Spence, J. S.
*Booth, W. H.	Herod, Walter	*McCuen, G. R.	Stearman, F. C.
*Bowden, F. W.	*Henderson, W. A.	*Petrie, A. B., jr.	Stork, H. C.
*Brennan, C. E.	Hyde, F. H. W.	*Rochester, J. L.	Stuart, J. A.
*Capell, F. J.	Johns, O. G.	Saunders, A. J.	Stone, H. D.
*Ewing, H. E.	Kernohan, Robert	Scales, E. W.	Wilkinson, T. O.

### PASSED IN FOUR SUBJECTS—DISPENSING.

*Fletcher, G. T.	Love, H. W.	Ray, A.
*Hopkins, A. S.	McIntyre, Colin	*Waugh, J. M. A.

### PRESCRIPTIONS.

*Ballard, M. S.	Fletcher, T. G.	Gordon, H. F.	Love, H. W.
Campbell, D.	*Goodacre, Leon A.	Hopkins, A. S.	Waugh, J. M. A.

### PHARMACY.

Ballard, M. S.	Goodacre, Leon A.	Hopkins, A. S.	Love, H. W.
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### CHEMISTRY.

Ballard, M. S.	Goodacre, Leon A.	McIntyre, Colin	Waugh, J. M. A.
Fletcher, G. F.	Gordon, H. F.	Ray, A.	

### MATERIA MEDICA.

Ballard, M. S.	Gordon, H. F.	McIntyre, Colin
Fletcher, Geo. T.	Hopkins, A. S.	Ray, A.
Goodacre, Leon A.	Love, H. W.	Waugh, J. M. A.

### BOTANY.

Gordon, H. F.	McIntyre, Colin	Ray, A.
---------------	-----------------	---------

### PASSED IN PHARMACY.

(Having previously passed in four subjects.)

Atkins, W. J.

\*Passed in Practical Chemistry.

## UNIVE

THE Senate of  
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On May 6th  
BACHELOR OF P  
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### Matriculation

Candidates f

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(3) Must h

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Ontario

(4) All can

College

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## UNIVERSITY OF TORONTO AFFILIATION.

THE Senate of the University of Toronto, with the approval of the Lieutenant-Governor of Ontario and Council, on January 22nd, 1892, passed a Statute affiliating the Ontario College of Pharmacy, with the privilege of one representative on that body.

On May 6th, 1892, a further Statute was passed instituting a new degree of BACHELOR OF PHARMACY—Phm. B.—which may be obtained on complying with the following conditions:—

### Matriculation—

Candidates for the degree of Bachelor of Pharmacy must either—

- (1) Possess a degree in Arts (not an Honorary Degree) from some recognized University; or
- (2) Have already matriculated in the Faculty of Arts, or the Faculty of Law, or the Faculty of Medicine, in this or some other University in Canada; or
- (3) Be matriculants in the College of Physicians and Surgeons of Ontario; or
- (4) Have passed the 1st, 2nd or 3rd class departmental non-professional examination in which the Latin option has been taken.

Provided always, that all candidates registered as apprentices of the Ontario College of Pharmacy, or who have received the Diploma of the College of Pharmacy up to the first day of June, A.D. 1893, shall be admitted as matriculants in the Department of Pharmacy on payment of the registration fee of Five Dollars.

### Regulations for the Degree of Phm. B.—

- (1) Undergraduates (candidates for the degree) resident of the Province of Ontario, must have complied with all the requirements prescribed from time to time by the Council of the Ontario College of Pharmacy for admission to examination for a diploma licensing to practice pharmacy in Ontario, and must have received from the Registrar of the Ontario College of Pharmacy a certificate of having passed the final examination of that College.
- (2) Undergraduates, not resident in Ontario, must have devoted at least four years (not being engaged in any other business) to the study of Pharmacy, being apprenticed during that time to a regularly qualified Pharmaceutical Chemist.
- (3) Must have attended the full course of lectures, embracing all the subjects of the curriculum, the length of each course being not less than that required from time to time by the Council of the Ontario College of Pharmacy, and including practical work at some College of Pharmacy recognized by this University; the last of which courses must be at the Ontario College of Pharmacy.
- (4) All candidates who have prior to August 15th, 1892, received the Diploma of the Ontario College of Pharmacy, shall not be required to conform to the above, but shall be allowed their degree on passing the examination on the subjects hereinafter given.

### Examination—

Candidates for a degree must pass an examination, to be held in the month of May of each year—hour and date of commencing to be hereafter given—and must present to the Registrar satisfactory certificates covering all the requirements relating to undergraduates, as given above, and of having passed the Final Examination at the Ontario College of Pharmacy.

The Subjects of Examination shall be as follows:—

1. Botany and Microscopy.
2. Theory and Practice of Chemistry and Toxicology.

page:—

Simson, W. A.  
Simmons, W. D.  
Smith, D. A.  
Smith, B. F.  
Spence, J. S.  
Stearman, F. C.  
Stork, H. C.  
Stuart, J. A.  
Stone, H. D.  
Wilkinson, T. O.

ove, H. W.  
Vaugh, J. M. A.

ove, H. W.

Vaugh, J. M. A.

3. **Materia Medica**, including Posology and Pharmacognosy.  
 4. **Theory and Practice of Pharmacy**, including Interpretation of Prescriptions and Dispensing.

These examinations shall be partly written, partly oral, and partly practical.

No candidate shall be considered as having passed the examination who has not obtained 50 per cent. of the marks allotted; nor shall a candidate be considered as having passed in any subject who has not obtained at least 40 per cent. of the marks allotted to such subject.

### Fees

For Matriculation or Registration of Matriculation	\$ 5 00
For Annual Examination	5 00
For each Practical Examination	50
For the Degree of Phm. B.	10 00

### Graduates of the Degree Phm. B., 1892.

Barber, V., Toronto.	Munro, E. D., St. Thomas.
Budd, A. T., Arnprior.	Petrie, G. M., Toronto.
Burchill, J. H., Owen Sound.	Rand, A. V., Wolfville, N.S.
Cogan, J. E. F., St. Catharines.	Reddin, A. W., Charlottetown, P.E.I.
Crowe, G. A., Peterborough.	Shildrick, E. H., Hagersville.
Dutcher, H. M., Hamilton.	Smith, S. S., Portage la Prairie.
Gilfillan, J. J., Bowmanville.	Wallace, T. B., Napanee.
Huffman, F. G., Napanee.	Whelihan, J. F., St. Mary's.
Law, Charles, Tilsonburg.	Williams, C. D., Goderich.
Maddock, F. F., Guelph.	Young, M. A., Alliston.
McRae, J. W., Peterborough.	Zeller, S., Berlin.

*Ad eundem*:—Heebner, Chas. F., Toronto.

### Candidates u

(Each Class arr

### MATERIA MEDICA AND PHARMACOGNOSY.

#### CLASS I.

Baker, H. T.  
 Brennan, C. E.  
 Burgis, E. A.  
 Cant, H. F.  
 Griffiths, W. A.  
 Ledingham, Wm.  
 McLean, N. T.  
 Mundy, V. S.  
 Paechert, H. M.  
 Pentz, R. L.  
 Reed, J. W.  
 Ryall, S.  
 Smith, F. W.  
 Spencer, J. M.  
 Strong, R. E.  
 Welch, T. B.  
 West, E. G.

#### CLASS II.

Armitage, J. S.  
 Collard, Geo.  
 Cross, W. A.  
 Davis, J. E.  
 Gayfer, A. E.  
 Goodeve, J. H.  
 Johnson, R. M.  
 McPhail, R. D.  
 Peplow, J. M.  
 Simson, W. A.

#### CLASS III.

Archibald, A.  
 Beaudette, A. J.  
 Bell, D.  
 Booth, W. H.  
 Ewing, H. E.  
 Henderson, W. A.  
 Hodgson, E. G.  
 Johns, O. G.  
 McBeath, D.  
 McElroy, A. S.  
 Maynard, G. T.  
 Mitchell, T. B.  
 Petrie, A. B., Jr.  
 Rochester, J. L.  
 Rudell, W. A.  
 Saunders, A. J.  
 Smith, D. A.  
 Stearman, F. C.  
 Stork, H. C.  
 Whaley, R. J.  
 Wilkinson, T. O.

Herod, Wal

Candidates upon whom the Degree Phm. B. was conferred at the Annual Convocation, June 13th, 1893.

(Each Class arranged alphabetically.)

MATERIA MEDICA AND PHARMACOLOGY.	CHEMISTRY INCLUDING PRACTICAL.	BOTANY INCLUDING PRACTICAL.	PRACTICAL DISPENSING.	PRESCRIPTIONS.	PHARMACY INCLUDING PRACTICAL.
CLASS I.	CLASS I.	CLASS I.	CLASS I.	CLASS I.	CLASS I.
Baker, H. T.	Baker	Cant	Baker	Cant	Baker
Brennan, C. E.	Goodeve	Ledingham	Bell	Johnson	Burgis
Burgis, E. A.	Griffiths	McLean	Burgis	Paekert	Cant
Cant, H. F.	McLean		Cant	Reed	Griffiths
Griffiths, W. A.	McPhail	CLASS II.	Johns	Rudell	Ledingham
Ledingham, Wm.	Rudell		Johnson	Simon	McLean
McLean, N. T.	Ryall	Cross	Ledingham	Spencer	Paekert
Mundy, V. S.	Smith, F. W.	Griffiths	McElroy		Pentz
Paekert, H. M.	Spencer	McElroy	McLean	CLASS II.	Rudell
Pentz, R. L.	Welch	McPhail	McPhail		Ryall
Reed, J. W.	West	Paekert	Maynard		Smith, F. W.
Ryall, S.		Reed	Mundy	Brennan	Spencer
Smith, F. W.	CLASS II.	Rochester	Paekert	Burgis	Welch
Spencer, J. M.		Spencer	Pentz	Henderson	Whaley
Strong, R. E.	Archibald	Whaley	Peplow	Hodgson	
Welch, T. B.	Armitage	CLASS III.	Petrie	Ledingham	CLASS II.
West, E. G.	Bell		Reed	McPhail	Armitage
	Burgis	Archibald	Rochester	Pentz	Brennan
CLASS II.	Cant	Armitage	Rudell	Ryall	Davis
	Hodgson	Baker	Simon	Smith	Goodeve
Armitage, J. S.	Johns	Beaudette	Smith	Smith	Henderson
Collard, Geo.	Johnson	Bell	Spencer	Stork	Hodgson
Cross, W. A.	Mundy	Booth	Stork	Welch	Johnson
Davis, J. E.	Paekert	Brennan	Strong	West	McElroy
Gayfer, A. E.	Petrie	Burgis	Welch		McPhail
Goodeve, J. H.	Reed	Collard	Whaley	CLASS III.	Reed
Johnson, R. M.	Strong	Davis			Simon
McPhail, R. D.	Whaley	Ewing			Smith, D. A.
Peplow, J. M.	Gayfer	Goodeve	CLASS II.	Archibald	Strong
Simon, W. A.	Wilkinson	Henderson		Armitage	
CLASS III.		Hodgson	Archibald	Baker	CLASS III.
	Beaudette	Johns	Armitage	Beaudette	
Archibald, A.	Booth	Johnson	Bell	Beaudette	Archibald
Beaudette, A. J.	Brennan	McBeath	Brennan	Booth	Beaudette
Bell, D.	Collard	McPhail	Collard	Collard	Bell
Booth, W. H.	Cross	Maynard	Gayfer	Cross	Booth
Ewing, H. E.	Davis	Mitchell	Goodeve	Davis	Collard
Henderson, W. A.	Ewing	Mundy	Hodgson	Ewing	Cross
Hodgson, E. G.	Gayfer	Pentz	McBeath	Gayfer	Ewing
Johns, O. G.	Henderson	Peplow	Saunders.	Goodeve	Gayfer
McBeath, D.	Ledingham	Petrie	West	Johns	Johns
McElroy, A. S.	McBeath	Rudell		McBeath	McBeath
Maynard, G. T.	McElroy	Ryall	CLASS III.	McElroy	Maynard
Mitchell, T. B.	Maynard	Saunders		Maynard	Mitchell
Petrie, A. B., Jr.	Mitchell	Simon	Beaudette	Mitchell	Mundy
Rochester, J. L.	Pentz	Smith	Booth	Mundy	Peplow
Rudell, W. A.	Peplow	Smith	Cross	Petrie	Petrie
Saunders, A. J.	Rochester	Stearman	Davis	Rochester	Rochester
Smith, D. A.	Saunders	Stork	Ewing	Sanders	Saunders
Stearman, F. C.	Simon	Strong	Henderson	Stearman	Stearman
Stork, H. C.	Smith, D. A.	Welch	Mitchell	Strong	Stork
Whaley, R. J.	Stearman	West	Stearman	Whaley	West
Wilkinson, T. O.	Stork	Wilkinson	Wilkinson	Wilkinson	Wilkinson

Barley, Wm., passed examinations in Sept., 1892.

Herod, Walter, and McCuen, Geo. R., will be required to take supplemental examination in Chemistry before being admitted to the degree.

# Ontario

## NAME.

Abbot, A. N.....  
 Abbot, D.....  
 Abbott, G. A.....  
 Abbs, J. A.....  
 Allan, J. A.....  
 Allan, J. R.....  
 Allen, Aylsford.....  
 Allen, J.....  
 Allin, A.....  
 Allison, Chas. H.....  
 Anderson, J. S.....  
 Archibald, Arthur.....  
 Arkell, F. E.....  
 Armitage, J. S.....  
 Armour, W. T.....  
 Armstrong, Frank.....  
 Armstrong, G. H.....  
 Armstrong, R. S.....  
 Armstrong, Geo. S.....  
 Ashton, W.....  
 Atkins, Wm. J.....  
 Austin, J. A.....  
 Auston, L. J.....  
 Avison, O. R.....

Bairtram, W. H.....  
 Baker, C. O.....  
 Baker, Henry J.....  
 Baker, T.....  
 Baldwin, H.....  
 Ball, A. W.....  
 Bannon, J.....  
 Barber, V.....  
 Barkwell, W. S.....  
 Barley, Wm.....  
 Barlow, W. W.....  
 Barnes, T. T.....  
 Barr, Wilson.....  
 Barrie, H. G.....  
 Bawden, P.....  
 Baxter, B. B.....  
 Baxter, R.....  
 Baxter, R. J.....  
 Beaudette, A. J.....  
 Belanger, M. A.....  
 Bell, J. N.....  
 Bell, R. J.....  
 Bell, David.....  
 Benson, J.....  
 Bentley, I. McP.....

# Ontario College of Pharmacy.

## LIST OF STUDENTS

FROM APRIL 4, 1882, TO MAY, 1893.

NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Abbot, A. N.	Toronto	C. A. Mitchell.		1882
Abbot, D.	Ottawa	J. Skinner & Co.	1885	1886
Abbott, G. A.	Comber	Dr. R. H. Abbott	1886	1887
Abbs, J. A.	Port Perry	W. Saunders & Co.		1884
Allan, J. R.	Adolphustown	Michigan University		1882
Allan, J. R.	Ottawa	John Roberts	1889	1890
Allen, Aylsford.	Port Elgin, N.B.	E. M. Estey	1888	
Allen, J.	Goderich	J. Wilson		1891
Allin, A.	Whitby	G. E. Gibbard	1889	1890
Allison, Chas. H.	Port Perry	T. C. Nichols	1892	1893
Anderson, J. S.	Guelph	Herod & Co.		1882
Archibald, Arthur	Kemptville	J. F. Kellock, Lions Head	1892	1893
Arkell, F. E.	Elora	W. Henderson		1882
Armitage, J. S.	Niagara Falls	Powell & Davis, Chatham	1892	1893
Armour, W. T.	Owen Sound	Parker & Co.	1890	1891
Armstrong, Frank	Lyn	Jas. Findlay	1889	1890
Armstrong, G. H.	Kingston	A. J. Fisher	1886	1887
Armstrong, R. S.	Port Colborne	C. Lugsdin	1890	1891
Armstrong, Geo. S.	Hopeville	J. L. Freshorn, Perth	1892	1893
Ashton, W.	Aurora	W. E. Hamill, Mt. Albert.		87-83
Atkins, Wm. J.	Madoc	C. S. Wilson	1891	1890
Austin, J. A.	Parkdale	G. W. Mingay	1886	1886
Auston, L. J.	Brighton	W. J. Porter, Cobourg	1892	1893
Avison, O. R.	Almonte	M. Patterson		1884
Bairtram, W. H.	Arkona	G. M. Everest.	1887	1888
Baker, C. O.	Stratford	W. T. Strong, London		1886
Baker, Henry J.	Ridgetown	Gayfer & Thomson	1891	1893
Baker, T.	Waterdown	J. D. McGeorge		1887
Baldwin, H.	Sunderland	Fead Bros., Cannington		1887
Ball, A. W.	Millbrook	A. Leach		82-85
Bannon, J.	Flesherton	W. Griffin, Dundalk		85-86
Barber, V.	Toronto	Baxter, Snider & Ogden	1891	1892
Barkwill, W. S.	Durham	H. Parker		1883
Barley, Wm.	Mitchell	S. A. Hodge	1891	1892
Barlow, W. W.	St. Catharines	Blaicher & Reche	1891	1892
Barnes, T. T.	Kemptville	E. Brimley, Brighton	1892	
Barr, Wilson.	Hamilton	J. A. Barr & Co.	1888	1889
Barrie, H. G.	Port Arthur	Dr. Smellie, Fort William	1891	
Bawden, F.	Exeter	Dr. C. Lutz.	1883	
Baxter, E. B.	Toronto	S. W. Johnston		1885
Baxter, R. J.	Windsor	J. E. D'Avignon.	1890	1891
Beaudette, A. J.	Cayuga	J. Baxter, M.D.	88-89	89-90
Belanger, M. A.	Windsor	A. H. Joseph.		1893
Bell, J. N.	Ottawa	H. F. McCarthy.	1889	1890
Bell, R. J.	Teeswater	R. N. Thurtell		1883
Bell, David.	Toronto	B. Jakes	1892	1893
Benson, J.	Pembroke	Dickson Drug Co.		1883
Bentley, I. McP.	Toronto	C. A. Mitchell.		1882
	Newmarket	Dr. Bentley		83-84



NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Berry, J. F.	Lucknow	G. W. Berry	1891	1892
Berry, W. G.	Millbrook	A. Leach	1883	
Beynon, F. C.	Brampton	R. H. Hodgson		1883
Bilton, G. E.	Stratford	C. N. & J. E. Nasmythe	1883	
Bingham, G. A.	Toronto	J. F. Williams		1882
Bingham, J. R.	Toronto	J. R. Lee		1880
Bird, C. A.	London	B. A. Mitchell		1882
Birks, J. J. F.	Prescott	G. Birks	1886	
Bleeker, D. J.	Belleville	L. W. Yeomans & Co.	1888	1880
Bletcher, H. E.	Peterborough	John McKee	1890	1891
Boles, F. G.	Aurora	G. D. Patterson	1892	1893
Bollard, W. S.	Ottawa	H. F. MacCarthy	1890	1891
Bolster, W. G.	Lancaster	T. Bolster		86-88
Bone, F. C.	St. Catharines	A. J. Greenwood	1884	
Book, Mary H.	Niagara Falls South.	Dr. E. E. Book	1887	87-88
Booth, W.	Almonte	Dr. G. Baird	1888	1880
Booth, W. H.	Coaticook, P. Q.	H. F. MacCarthy	1892	
Botham, T. A.	Toronto	F. Brendon, Brantford		1887
Boothe, W. W.	Trenton	W. T. Barker		1882
Boulter, T. E.	Hagersville	Dr. Smith, Hamilton		1884
Boulter, W. R.	Hamilton	T. E. Boulter	1892	1893
Bowden, F. W. B.	Bracebridge	S. Bridgeland	1892	1893
Bower, C. A.	Perth	Bower Bros.	1884	1885
Bowes, Cyrus A.	Bolton	J. W. Cull	88-89	1890
Boyd, D. D.	Milton	Madill & Hoar, Toronto	1885	
Boyd, J. A.	Welland	H. W. Hobson	1891	
Boyd, L. F.	Meaford	W. W. Stephen	1891	1892
Boyle, E. W.	Brampton	C. Stork & Son		1884
Bradner, A. D.	Hamilton	Livingstone & Co., Simcoe.	1886	
Bray, J.	B. D. Matina	Dr. D. Martin		1882
Brebuier, R. W.	Sarnia	Dr. A. Scott, Forest	1886	
Brennan, C. E.	Peterboro	G. A. Schofield	1892	1893
Bresse, W.	Chatsworth	J. W. Elliot	1886	
Brethour, A. E.	Ottawa	W. A. Lloyd	1890	1891
Bridgeland, H. B.	Bracebridge	Dr. Bridgeland		1882
Bright, J. E.	Toronto	J. R. Lee	1891	1892
Brillinger, G. D.	Collingwood	C. M. Morgan		1888
Brooks, E.	Toronto	W. R. Steward		1885
Brough, James	Guelph	A. B. Petrie	1890	1891
Brown, A. T. H.	Toronto	W. L. Smith	1891	1892
Brown, F. K.	Holstein	A. L. Brown	1890	1891
Brown, F. R.	Bowmanville	Stott & Jury	1888	1889
Brown, G. G.	Owen Sound	Lang Bros		1882
Brown, Thos. W.	Owen Sound	W. J. Manley, Toronto.	1892	1893
Brown, James	Owen Sound	J. R. Seymour	1889	1890
Brown, M. S.	Delta	J. M. Sinclair	1887	
Brown, T. F.	Keenansville	J. R. Bond		1882
Brown, W. G.	Hamilton	Garland & Rutherford	1882	
Brown, W. H.	St. Thomas	G. B. McCullough	1883	
Buchanan, Charles	Kemptville	Angus Buchanan	1890	1892
Budd, A. T.	Arnprior	J. T. Wait	1891	1892
Bunting, John	Toronto	Dr. L. Bentley	1888	
Burchill, J. H.	Owen Sound	J. Cameron	1891	1892
Burgess, F.	Toronto	R. Robinson		1882
Burgess, H. W.	Toronto	F. T. Burgess	89-90	1890
Burgis, E. A.	Lakefield	T. J. Bird	1892	1893
Burkholder, J. F.	Stouffville	S. W. Johnston, Toronto.		1885
Byers, G.	Hagersville	S. W. Howard	1887	1888
Byrne, S. A.	Toronto	Dr. C. J. Hastings		1887
Cairns, H. J.	Perth	D. Munro & Co.	1886	1887
Camahan, W. J.	Meaford	McCarroll & Ellis	1888	1889
Cameron, E. W.	Brantford	J. A. Wallace	1891	1892
Cameron, W. A.	Renfrew	J. A. Clark	1891	
Cameron, W. J.	Paris	Geo. L. Scott	1888	1889
Campbell, A. A.	Hamilton	J. H. Clark		1882
Campbell, D.	Woodville	Gunn Bros.	1890	

NAME.
Campbell, G. W.
Campbell, J. E.
Campbell, Robert
Campbell, R. W.
Campbell, W. G.
Campbell, W. L.
Campbell, William
Cant, H. F.
Capell, F. J.
Carter, W. A.
Carney, F. W.
Carpenter, E. M.
Carson, W. G.
Castelman, E.
Cattle, W. E.
Caughill, P. A.
Cavers, Alfred
Chambers, G. A.
Chambers, R. W.
Chandler, V. H.
Chapman, R. A.
Cherry, Wm. J. H.
Childs, H. J.
Chisholm, F. A.
Chisholm, J. H.
Clapsattle, H. D.
Clark, C. W.
Clark, F. A.
Clark, G. E.
Clark, S. B.
Clark, T. M.
Clarke, F. C.
Clarke, H. W.
Clarke, W. G.
Clive, H.
Coates, J.
Cochrane, J.
Cogan, J. E.
Coldwell, R. A.
Cole, E. E.
Coleman, F.
Collard, G.
Collie, S. J.
Colling, J. H.
Colvin, A. H.
Conger, F. H.
Conger, Jos.
Conger, L. J.
Conger, L. J.
Congram, A.
Cook, Charles A.
Copp, T. A.
Cook, W. V.
Cooke, A. S.
Cooke, H. B.
Coombe, H. B.
Coombe, J. A.
Cooper, T. C.
Copeland, R.
Corrigan, J. E.
Cote, Louis V.
Couen, C. H.
Goulson, J. F.
Gowper, A.
Cox, J. V.
Crane, James C.
Cranfield, E. S.
Crease, F. L.
Crease, H. G.
Cremer, C.

CALENDAR FOR 1893-4.

51

ATTENDED.	
Aut.	Spring.

NAME.		ADDRESS.	PRECEPTOR.	ATTENDED.	
				Aut.	Spring.
Campbell, G. W.	St. Thomas	F. P. Reynolds		1890	1891
Campbell, J. E.	Warton	John M. Manley		1889	1889
Campbell, Robert	Sydney, C.B.	T. Wright		1889	1890
Campbell, R. W.	Toronto	W. S. Robinson		1890	1886
Campbell, W. G.	Comber	R. H. Abbott		1891	1892
Campbell, W. L.	Bradford	B. Kilborn		1890	1891
Campbell, William	Winnipeg	J. C. Gordon		1891	1892
Capell, F. J.	Galt	W. H. Lutz		1892	1893
Carter, W. A.	Thorold	A. P. Sieberight		1892	1893
Carney, F. W.	Owen Sound	D. A. Cameron & Co.		1887	1888
Carpenter, E. M.	Collingwood	E. R. Carpenter		1890	1891
Carson, W. G.	Port Hope	G. A. Mitchell		1882	
Castelman, E.	Chatham	H. C. Hall			
Cattle, W. E.	Goderich	G. Rhynas			1888
Caughill, P. A.	St. Thomas	W. O. Foster & Co.			1888
Cavers, Alfred	St. Catharines	Geo. Parke		1891	1892
Chambers, G. A.	Ingersoll	J. W. Browett		1889	91-92
Chambers, R. W.	Millbrook	J. B. Smith			
Chandler, V. H.	Owen Sound	D. A. Cameron & Co.		1883	
Chapman, R. A.	Toronto	W. J. Urquhart		1889	1890
Cherry, Wm. J. H.	Ottawa	J. Roberts		1890	
Childs, H. J.	London	E. W. Boyle		1889	1890
Chisholm, F. A.	Belleville	L. W. Yeomans & Co.		1891	
Chisholm, J. H.	Wingham	Dr. Chisholm		1887	
Clapsattle, H. D.	Brantford	D. S. Sager			1887
Clark, C. W.	St. John, N.B.	C. P. Clarke		1890	1891
Clark, F. A.	Lindsay	F. J. Stewart		1891	1892
Clark, G. E.	Gravenhurst	G. Tolen		1886	1887
Clark, S. B.	Hanover	W. H. Goodeve		1891	1892
Clark, M. M.	St. Mary's	W. H. Gilpin		1886	1888
Clarke, F. C.	Belleville	J. Clark		1887	
Clarke, H. W.	Woodstock	W. A. Karn		1887	1888
Clarke, W. G.	Woodstock	W. A. Karn		1884	1884
Clive, H.	Tilsonburg	H. W. Clive		1890	
Coates, J.	Mitchell	J. W. Cull		1882	
Cochrane, J.	Kingston	A. P. Chown		1886	
Cogan, J. E.	St. Catharines	A. J. Greenwood		1891	1892
Coldwell, R. A.	Lakefield	T. J. Bird		1886	
Cole, E. E.	Niagara Falls	R. P. Skinner		1883	1883
Coleman, F. H.	Hamilton	H. S. Case		1887	1887
Collard, G.	Aurora	F. E. York		1892	
Collie, S. J.	Woodstock	W. A. Karn		1883	1883
Colling, J. H.	Lowville	McGregor & Parke		1889	1890
Colvin, A. R.	Teeswater			1887	1887
Conger, F. H.	Belleville	R. Templeton		1883	1883
Conger, Jos.	Pictou	H. W. Branscombe		1889	1890
Conger, L. J.	Belleville	R. Templeton		1885	1885
Conger, L. J.	Toronto	H. Sherris		1886	1886
Congram, A.	Lucknow	Dr. Tennant		1886	
Cook, Charles A.	Brantford	S. H. Golding		1890	1893
Copp, T. A.	Seaforth	J. L. Roberts		1892	1893
Cook, W. V.	Welland	H. W. Hobson		1882	1882
Cooke, A. S.	London	W. T. Strong		1883	1883
Cooke, H. B.	Dresden	E. Miller & Co.		1884	1884
Coombe, J. A.	Clinton	J. H. Coombe		1882	1885
Coombe, J. A.	Clinton	J. H. Coombe			
Cooper, T. C.	Welland	J. H. Burgar			1886
Copeland, R.	Lucknow	G. A. Sheppard		1882	1882
Corrigan, J. E.	Hamilton	Harris Bros.		1885	1885
Cote, Louis V.	Oakville	R. C. Balmer		1886	1886
Couen, C. H.	Toronto	J. R. Lee		1887	1888
Coulson, J. F.	Orillia	R. Weir, Toronto		1887	1888
Cowper, J. A.	Welland	J. H. Burgar			1888
Cox, J. V.	Lakefield	S. Henderson		1887	1888
Crane, James C.	Aylmer	Ormond & Walsh, Peterborough		1891	1892
Cranfield, E. S.	Stayner	W. B. Sanders		1887	1888
Crease, F. J.	Barrie	John Wood		1891	1892
Crease, H. G.	Barrie			1889	
Cremer, C.	Orillia	J. R. Lee, Toronto		1889	1889

NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Cronkhite, F.	Moore		1890	
Crogs, W. A.	Ottawa	W. O. Jamieson	1892	1893
Crowe, George A.	Peterborough	T. Comport, Aylmer	1891	1892
Crowe, W.	Truro, N.S.	W. F. O'Dell	1889	
Croy, P. R.	Ottawa	M. A. Lloyd	1886	
Crusoe, B.	Almonte	M. Patterson	1886	
Crutenden, T.	Toronto	E. Cranfield	1892	1893
Cryderman, C.	Toronto	Dr. Ogden	1886	1886
Cryderman, S. M.	Walkerton	C. W. Cryderman	1888	
Crysler, R.	St. Catharines	W. W. Greenwood	1887	
Culbert, C. G.	Ottawa	E. D. Martin	1889	1890
Cummins, J.	Ottawa	Dr. K. D. Graham	1885	
Currie, H.	Pictou	E. W. Case		1883
Curry, I.	Toronto	J. R. Lee	1884	1884
Curry, J. C. G.	Toronto	W. C. Niblett, Dundas	1889	
Darlington, A. G.	Chicago, U.S.A.	Higginbotham & Son, Bowmanville		1887
Davidson, Dickson	Peterborough	Ormond & Walsh	1889	1891
Davidson, G. W. W.	Hamilton	McGregor & Park, Brantford	1887	1888
Davidson, W. J.	Aurora	G. Patterson		1885
Davis, F. de C.	Charlottetown, P.E.I.	D. C. M. Reddin		1887
Davis, R. A.	Woodstock	W. A. Karn	1890	1891
Davis, J. E.	Wingham	F. Jordan, Goderich	1892	1893
Dawson, A.	Toronto	J. Wright	1887	
Days, H.	Lucknow	C. A. Shepard		1886
Deachman, F. W.	Clinton	Dr. Worthington	1888	1890
Dent, J.	Toronto	W. J. Urquhart		1886
Deverell, A. D.	Whitby	W. R. Howse	1890	1891
Devitt, E. M.	Berlin	J. E. Neville		1887
Dickey, H. J.	Toronto	E. A. Smith	1882	
Dickson, D. A.	Galt	R. Ferrah	1892	1893
Dickson, T. O.	Goderich	J. Wilson	1884	
Dingman, G. B.	Strathroy	F. W. Meek	1885	1886
Dinning, J.	London	W. T. Strong	1882	
Dodds, E. M.	Orangeville	J. R. Dodds	1885	
Donaghy, C. E.	Brighton	R. Brown, Gannaque		1887
Donaghy, W.	Hamilton	W. D. Horton, Windsor		1888
Donaldson, J. S.	Woodstock	T. Scott & Sons	1883	
Dougall, T. H.	Renfrew	D. A. Clark	1885	1886
Douglas, A. E.	Welland	J. H. Burgar		1884
Douglas, R.	St. Catharines	W. W. Greenwood		87-90
Douglas, W. A.	Warkworth	W. Empey	1882	1884
Douglas, W. G.	Owen Sound	R. Whitman	1883	1884
Douglas, W. J.	Markdale	R. L. Stephen	1889	1890
Daw, A.	Toronto	W. S. Robinson	1885	
Dow, J. D.	Pembroke	R. B. Gray	85-88	1889
Dowdall, J. H.	Almonte	P. C. Dowdall	1884	1885
Dowling, E. P.	Almonte	T. P. Smith, Elora		85-86
Down, S. B.	Peterborough	J. McKee	1886	
Dowsley, A.	Prescott	G. Birks	1886	
Duffy, J. E.	Toronto	B. Eadie		1885
Duncan, H. C. B.	Paisley	G. M. Everest		1886
Duncan, Hugh	Perth	M. Patterson	1890	1891
Duncan, R. A.	Embro	E. C. Fraser	1882	
Duncombe, A. C.	Waterford	J. S. Kestell	1887	
Duncombe, T. N.	St. Thomas	Dr. T. W. Duncombe	1888	1889
Dunlop, A. H.	Belleville	R. Templeton	1890	1891
Dunlop, H. E.	Orillia	H. C. Cook & Co.		1884
Dunn, S. L.	Newmarket	L. Scott	1891	
Dunoon, W. J.	Lindsay	S. Perrin	1889	1890
Dutcher, H. M.	Hamilton	G. W. Spackman & Co., Hamilton	1891	1892
Dyer, E. L.	Hamilton	D. D. Smith	1887	
Eakins, H. G.	St. Thomas	C. Mitchell		1893

## NAME.

Eakin, H. P.  
 Easton, G. F.  
 Eby, M. F.  
 Eddington, C. M.  
 Elliot, Howard  
 Elliot, William, Jr.  
 Elliott, A. T.  
 Elliott, H.  
 Elliott, W. A.  
 Elvidge, E. H.  
 Emerson, N. W.  
 Erbe, S. W.  
 Ernewein  
 Esdale, W. T.  
 Evans, William  
 Ewing, H. E.

Fairweather, E. M.  
 Farr, F. E.  
 Farries, F. W.  
 Fawcett, A. E.  
 Fawcett, F. W.  
 Fear, G. A.  
 Fear, J. V.  
 Ferguson, A.  
 Ferguson, J. W.  
 Fessant, J.  
 Field, W. H.  
 Fife, R. J.  
 Fish, J. W.  
 Fitchett, J. W.  
 Flack, E. R.  
 Flemming, G.  
 Flemming, H. O.  
 Flemming, J. W.  
 Fletcher, G. T.  
 Flett, F. W.  
 Flynn, H. G.  
 Foote, W. R.  
 Forbes, G. A.  
 Forster, J. E.  
 Fortier, W. B.  
 Foster, A. L.  
 Foster, R. B.  
 Fowlds, C. R.  
 Fox, J.  
 Fraser, A. E.  
 Fraser, H. J.  
 Fraser, W. J.  
 Freer, B. J. E.

Galbraith, W. S.  
 Galley, W. E.  
 Gamon, C. A.  
 Gamsby, A. T.  
 Gardiner, W. F.  
 Gayfer, A. E.  
 Geary, William  
 Gibson, W. F.  
 Gilbank, J. C.  
 Gilliland, J. J.  
 Gillies, A. C.  
 Glasford, V. H.  
 Glenny, E. J.

ATTENDED.  
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NAME.

ADDRESS.

PRECEPTOR.

ATTENDED.  
Aut. Spring.

Eakin, H. P. Brantford S. Tapscott 1890  
Easton, G. F. Brockville G. T. Fulford 1886 1886  
Eby, M. F. Port Elgin M. F. Eby 1882  
Eddington, C. M. Thamesville A. N. Hoag 1891  
Elliot, Howard Toronto Elliot & Co 1891  
Elliot, William, jr. Toronto Elliot & Co 1890  
Elliott, A. T. Hampden J. Higginbotham & Son 1890  
Elliott, H. Toronto Elliot & Co 1887  
Elliott, W. A. Culloden I. E. York & Co. 1882  
Elvidge, E. H. Cornwall Dr. Pringle 1885  
Emerson, N. W. Zimmerman McGregor & Park, Brantford 1891 1892  
Erbe, S. W. Toronto A. Diement 1882  
Ernewein, . . . . . Mildmay J. E. Neville 1882  
Esdale, W. T. Ottawa Dr. A. Lloyd 1889 1890  
Evans, William Elmwood John Evans 1891 1893  
Ewing, H. E. Cobourg F. M. Gowans & Co. 1892 1893

Fairweather, E. M. Sussex, N.B. C. H. Fairweather 1887  
Farr, F. E. Sarnia J. J. Clemens 1891  
Farries, F. W. Ottawa Kirby Bros. 1892 1893  
Fawcett, A. E. Toronto J. Dilworth 1885 1885  
Fawcett, F. W. Toronto W. Haldenby 1891 1892  
Fear, G. A. Brussels John Hargreave 1888  
Fear, J. V. Brussels A. Gallich 1883  
Ferguson, A. Toronto B. Meacham 1885 1886  
Ferguson, J. W. Millbank Dr. J. Johnston 1885  
Fessant, J. Teeswater W. G. Smith, Guelph. 1887 1888  
Field, W. H. Pickering Dr. Field 1884  
Fife, R. J. Peterborough Ormond & Walsh 1888 1889  
Fish, J. W. Otterville Dr. A. J. Collyer 84-88 1888  
Fitchett, J. W. Napanee A. W. Grange 1882  
Flack, E. R. St. Thomas W. O. Foster 1889 1890  
Flemming, G. Glen Morris J. M. Hamilton, Blythe 1884 1886  
Flemming, H. O. Windsor F. H. Laing 1886  
Flemming, J. W. Brandon, Man. Dr. A. Flemming 1888 1889  
Fletcher, G. T. Point Edward G. G. Ingersoll 1892 1893  
Flett, F. W. Toronto W. Brydon 1882  
Flynn, H. G. St. Thomas T. H. Duncombe 1892 1893  
Foote, W. R. Bracebridge Dr. S. Bridgeland 1883  
Forbes, G. A. Pembroke F. W. Noble 1886  
Forster, J. E. London Dr. Forster 1886 1884  
Fortier, W. B. Port Colborne W. A. Jamieson 1887  
Foster, A. L. Ottawa John Gerrie 1884  
Foster, R. B. Hamilton J. Findlay 85-86  
Fowlds, C. R. Hastings John Bower 1892  
Fox, J. Wroster William Robinson 1885  
Fraser, A. Woodstock R. Stark 1883  
Fraser, H. J. Ottawa H. F. McCarthy 1885  
Fraser, W. J. Toronto S. W. Johnston 1890  
Freer, B. J. E. Kincardine J. C. Cooke 1890 1891

Galbraith, W. S. Guelph N. G. Smith & Co. 1885  
Galley, W. E. Toronto John Pearin 1887  
Gamon, C. A. Stayner T. W. Coleman 1883  
Gamsby, A. T. Orono L. A. Gamsby 82-84  
Gardiner, W. F. Oshawa J. Higginbotham 1887  
Gayfer, A. E. Ingersoll John Gayfer 1890 91-93  
Geary, William London W. E. Saunders & Co. 1891  
Gibson, W. F. Kars J. E. Hanna, N. Gower 87-90  
Gilbank, J. C. London W. T. Strong 1888 1890  
Gillilan, J. J. Bowmanville Stott & Jury 1891 1892  
Gillies, A. C. S. Dumfries F. C. Bond, Galt 1891 1892  
Glasford, V. H. Brockville T. J. B. Harding 1886  
Glenny, E. J. Oshawa J. W. Higginbotham 1883



## ONTARIO COLLEGE OF PHARMACY

NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Golding, W. L.	Chesley	G. H. Golding	1883	
Goodacre, L. A.	London	E. F. Stevenson, Parkhill	1892	1893
Goode, W. C.	Morrisburg	L. T. Selleck	1883	
Goodeve, A. S.	Guelph	W. G. Smith & Co.	1885	
Goodeve, J. H.	Toronto	F. P. Reynolds, St. Thomas	1892	1893
Goodwin, F. J.	Stratford	N. A. Bosworth	1889	
Gordon, H. F.	Toronto		1892	1893
Gould, A. J.	Colborne	A. W. Hawley, Trenton	1891	1892
Gould, W. J.	Toronto	W. Fitzgerald, Drayton	1892	
Gowans, F. M.	Cobourg	W. T. Porter		1886
Graham, G. N.	Morden	G. W. McLaren	1889	1893
Graham, J. N.	Windsor	C. T. Covertton, Montreal	1886	
Graham, Thomas	Sturgeon Point	John McKee, Peterborough	1890	1891
Graham, W. B.	Aylmer	W. J. Grundy	1885	
Grange, W.	Napanee	A. W. Grange	1884	
Grant, W.	Orillia	H. Cook	1886	
Grant, W. H.	Ottawa	J. Skinner & Co.	1882	1885
Gray, J. C.	Parkdale	R. Robinson, Toronto	1885	
Gray, J. N.	Hagersville	S. W. Howard	1884	
Gray, J. S.	Galt	Gibbard Bros.	1882	
Gray, John	Moorfield	George Crawford	1890	1891
Greatrix, W. K.	Belleville	W. R. Carmichael	1884	1885
Green, H. W.	Arthur	Dr. Robinson	1888	1890
Green, J.	Hamilton	MacGregor & Park	1885	
Green, S. M.	Toronto	G. K. C. McGregor	1889	1890
Gregory, A. E.	Lindsay	E. Gregory	1889	1890
Gregory, W. H.	Lindsay	E. Gregory	1890	1891
Griffiths, W. A.	Hamilton	C. H. Cousen	1892	1893
Grimshaw, T.	Stayner	T. Stevenson, Orangeville	1891	1892
Guillemont, E.	London	Cairncross & Lawrence	1891	1892
Gun, James	Durham	H. Parker	1889	
Gunn, C. H.	Woodstock	R. Stark		1886
Guy, A. E.	Oshawa	W. Woon		
Hackney, J. G.	Exeter	A. W. Harrison, St. Thomas	1888	
Haffy, Ross	Woodstock	J. White	1892	
Hagar, W. A.	Orangeville	T. Stevenson	1883	
Hagarty, T. M.	Toronto	Hargreaves Bros.	1891	1892
Hagleton, J. E.	Toronto	E. Hooper & Co.	1884	
Hagyard, F.	Milton	A. Turner	1890	1891
Haken, H.	Norwich	J. A. Tidy	1888	1889
Hall, F. W.	Chatham	H. C. Hall	1882	
Hall, J. B.	Orono	C. B. Borland	1886	
Hall, M. C.	Waterloo	S. Snyder	1888	
Hallet, T. H.	Orono	R. A. Gamsby	1889	1890
Hamilton, A. L.	Shedden	E. A. C. Smith	1890	1891
Hanley, J. H. A.	Strathroy	F. H. Meek	1889	1890
Hanna, G. H.	Paisley	W. A. Hargreaves	1884	1885
Hardison, F. J.	Welland	Burgess & Douglas	1891	1892
Hargreaves, J. M.	Paisley	W. A. Hargreaves	82-84	
Harkness, Fred.	Tamworth	Wm. Booth	1891	
Harrington, A.	Port Perry	J. F. Belfry	1891	1892
Harrison, J.	Hamilton	A. T. Davis	1883	
Harrison, J. C.	Milton	Harrison Bros	1888	1889
Harrison, J. W.	Gananoque	T. H. McCollom	1888	1889
Hartley, D. S.	Toronto	I. McCammon	84-87	
Hartley, T. P.	Shelburne	C. A. Gamon	1890	1891
Hartman, W. N.	Clarksburg	C. Line	1890	1891
Harvey, E. C. F.	Watford	W. P. McLaren	1885	1886
Hassard, W. T.	Owen Sound	R. Wightman	1888	
Hay, J. J. M.	Stratford	J. H. Nasmyth		1887
Hay, V. R.	Watford	B. Taylor		1886
Heard, T.	Amherstburg	C. M. S. Thomas	1888	1889
Hedley, R. A.	St. Mary's	O. Fraleigh		1886
Henderson, W. A.	Orangeville	T. Stevenson	1892	1893
Hellens, H.	St. Catharines	W. W. Greenwood	1888	
Helmer, R. A.	Ottawa	Dr. Cook, Hull, Q.	1884	

## NAME.

Herod, Walter
Hessey, C. E.
Hewitt, C. W.
Higginbotham, A.
Higginbotham, E.
Higginbotham, J. D.
Hill, Charles W.
Hill, E. B.
Hill, G. S.
Hill, J. K.
Hill, R.
Hinch, G. H.
Hipwell, J. R.
Hoag, F. J.
Hobart, S. W.
Hobbs, J. A.
Hodgson, C. B.
Hodgson, E. G.
Hodgson, J.
Hodson, J. W.
Hofman, J. W.
Hollingshead, J. R.
Hookway, Wm.
Hoolihan, A. B.
Hooper, J. H.
Hopkins, A. S.
Hopkins, C. H.
Horton, H. G.
Hossack, Robert
Houston, T. W.
Howard, E. T.
Howard, W. S.
Howe, S. L.
Howe, W. A.
Howell, H. B.
Huffman, F. G.
Hunter, G. A.
Hyde, F. H. A.
Iber, F. B.
Ivison, Wm.
Jackson, A. D.
Jackson, Stanley
Jackson, E.
Jackson, W. D.
James, F. W.
James, J. B.
Jeffers, T. W. G.
Jeffrey, C. W.
Jenkins, W. T.
Jenkins, W. T.
Jewell, E. M.
Johns, O. G.
Johnson, J. F.
Johnson, Lowry
Johnson, Anna M.
Johnson, B. M.
Johnson, H. L.
Johnson, J. A.
Johnson, J. C.
Johnson, R. M.
Jones, A. H.



ATTENDED.		NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
Aut.	Spring.				Aut.	Spring.
1883		Herod, Walter	Guelph	Herod & Co.	1891	1892
1892	1893	Hessey, C. E.	Orangeville	T. Stephenson	1889	1890
	1883	Hewitt, C. W.	Sparta	H. G. Ekins	1886	
1885		Higginbotham, A.	Bowmanville	J. E. Higginbotham	1891	1892
1892	1893	Higginbotham, E.	Bowmanville	J. Higginbotham		1882
1889		Higginbotham, J. D.	Guelph	W. G. Smith & Co.	1882	
1892	1893	Hill, Charles W.	Tilsonburg	Wm. McDonald	1891	1892
1891	1892	Hill, E. B.	New Westminster, B.C.	B. S. Curtis & Co.	1888	1889
1892		Hill, G. S.	Norwich	W. A. Kirk	1888	89-90
	1886	Hill, J. K.	Portage la Prairie	B. M. Canniff		1891
1889	1893	Hill, R.	Norwich	H. J. Dager	1890	1893
1886		Hinch, G. H.	Odessa	D. B. Booth	1886	1889
1890	1891	Hipwell, J. R.	Toronto	I. Curry	89-90-91	90-92
1885		Hoag, F. J.	Kingston	G. S. Hobart	1887	1888
1884		Hobart, S. W.	Kingston	G. S. Hobart	1885	1888
1886		Hobbs, J. A.	Morden, Man.	G. W. McLaren, Nelson	1887	1888
1882	1885	Hodgson, C. B.	Brampton	R. H. Hodgson	1892	1893
	1885	Hodgson, E. G.	Toronto	Hooper & Co.	1892	1893
	1884	Hodgson, J.	Brampton	R. Hodgson	1882	1886
1890	1891	Hodson, J. W.	Drayton	A. B. Petrie	1887	1888
1888		Hoffman, J. W.	Waterloo	S. Snyder	86-88	1889
1885		Hollingshead, J. R.	Tottenham	J. R. Bond		1887
1888	1891	Hookway, Wm.	St. Mary's	T. S. Ryley	1890	1891
1885		Hoolihan, A. B.	Peterborough	G. W. Morgan	1891	1892
1889	1890	Hooper, J. H.	Charlottetown, P.E.I.	G. E. Hughes		1887
1885	1890	Hopkins, A. S.	Toronto	J. H. MacKenzie		1893
1890	1891	Hopkins, C. H.	Belleville	D. M. Waters	1888	1889
1892	1893	Horton, H. G.	Toronto	Sherris & Conger	1890	1891
1891		Hossack, Robert	Toronto	Elliot & Co.	1891	1892
1891	1892	Houston, T. W.	Tweed	T. Tuttle		
1889		Howard, E. T.	Hagersville	S. W. Howarth	1891	1892
	1886	Howard, W. S.	Toronto	J. R. Lee		85-86
		Howe, S. L.	Meaford	W. N. Steven		1885
		Howe, W. A.	Thornbury	S. R. Howe	1889	1890
		Howell, H. B.	St. George	W. W. Howell	1886	1887
		Huffman, F. G.	Napanee	T. A. Huffman	1891	1892
	1888	Hunter, G. A.	Clarksburg	C. W. Hartman	1882	
	1892	Hyde, F. H. A.	Woodstock	G. A. Fraser	1892	1893
1891	1888	Iber, F. B.	Essex Centre			1884
1890	1883	Ivison, Wm.	Guelph	W. G. Smith & Co.	1888	1889
1888	1882					
	1886					
1889	1888					
1890	1891	Jackson, A. D.	Clinton	N. A. Bogworth, Stratford	1892	1893
1889	1890	Jackson, Stanley	Woodstock	John J. Hall	1892	1893
1884	1884	Jackson, E.	Simcoe	Hayes & Co.	1889	
1891	1892	Jackson, W. D.	Guelph	Herod & Co.	1887	1888
82-84		James, F. W.	Strathroy	W. J. Dyas	1885	
1891		James, J. B.	Toronto	Wm. Haldenby	1889	1890
1891	1892	Jefferis, T. W. G.	Toronto	B. G. Jefferies	1882	
1883		Jeffrey, C. W.	Welland	H. W. Hobson		1886
	1883	enkins, W. T.	Bobcaygeon	Dr. McCammal	1886	
1888	1885	enkins, W. T.	Fenelon Falls	T. G. Rigley, Bethany	1886	
84-87	1888	ewell, E. M.	Bowmanville	Stott & Jury		1883
1890	1891	ohns, O. G.	Cobourg	F. M. Gowan & Co.	1892	1893
1890	1891	ohnson, J. F.	Owen Sound	J. F. McCallum	1890	1891
1885	1886	ohnson, Lowry	Minden	F. R. Curry	1891	
1888		ohnston, Anna M.	Chatham	H. C. Hall, Detroit	1885	
	1887	ohnston, B. M.	Toronto	S. W. Johnston		1883
1888	1889	ohnston, H. L.	Port Rowan	W. Scott, Toronto	1884	1888
	1886	ohnston, J.	Omeme	F. R. Curry, Minden	1887	1888
		ohnston, J. A.	Whitby	W. Howse	1889	1890
1892	1893	ohnston, J. C.	Toronto	S. W. Johnston	1889	1890
1888	1889	ohnson, R. M.	Charlottetown, P.E.I.	A. S. Johnson, Ph. G.	1892	1893
1884		Jones, A. H.	St. Catharines	A. Dukes & Co.	1889	

NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Jones, C. E.	Mitchell	J. W. Cull		1887
Jones, C. R.	Tamworth	D. E. Rose	1889	1890
Kaitting, Wm.	Toronto	W. Gaynor	1891	1892
Kannawin, J. B.	Acton	N. McGarvin		1887
Karn, J. G.	Woodstock	W. A. Karn		1887
Kendall, W. T.	Dundas	W. C. Niblett	1890	1891
Kennedy, A. G.	Toronto	J. Wright	1882	
Kennedy, George A.	Toronto	Hargreaves Bros	1891	1892
Kernohan, R. Y.	Ingersoll	R. Knesshaw & Co	1885	1885
Kibblewhite, E. J.	Acton	J. F. Holden	1886	1887
Kilgour, E. B.	Mt. Forest	W. Colclough	1890	1891
Kipp, H.	London	W. Saunders & Co.		1884
King, W. A.	Orillia	H. Cook & Co.	1884	
Kirby, H. S.	Ottawa	A. Christie & Co.	1885	
Kirby, R. H.	Ottawa	A. Christie & Co.	1888	1889
Kirkpatrick, F. M.		W. H. Lutz	1884	
Knowles, E. W.	Guelph	W. G. Smith	1887	1888
Kyle, R. J.	Strathroy	W. J. Dyas		1889
Lacourse, A.	Hespeler	W. Saunders		1883
Lacourse, A. jr.	Berlin	N. H. Jackson, Winnipeg		1883
Laflamme, E. B.	Ottawa	C. O. Dacier	1886	1886
Laidlaw, W.	Orillia	J. W. Slavin	1888	1889
Lake, W. B.	Toronto	S. N. Erbe	1886	1886
Lalonde, F. C.	Brockville	J. Williams	1885	1886
Landreth, J. H.	Galt.	R. Ferrah	1888	1889
Langle, W. F.	Victoria	T. Edmansson		1887
Laumie, H. E.	Bradford	Langley & Co.	1883	1884
Larkins, G.	Toronto	W. A. Howell, Hamilton	1884	
Latimer, W.	Toronto	W. S. Christie	1890	1891
Lavis, J. F.	Oshawa	R. A. Harrison	1888	1889
Lawson, J. F.	Tilsonburg	C. Thomson	1891	1892
Leach, W.	Hamilton	Garland & Rutherford		1887
Ledingham, Wm.	Napanee	D. E. Rose	1884	
Lee, J.	Woodstock	Macfarlane & Co.	1892	1893
Lee, W. H.	Toronto	J. R. Lee		1886
Leitch, D. G.	Hamilton	J. Hall & Co.	1892	
Lemaitre, J. F.	Toronto	Garland & Rutherford	1886	
Lent, H. P.	Toronto	E. G. Lemaitre	1889	
LePatourel, T. A.	Ridgetown	E. Miller, Dresden	1886	1887
Lewis, C.	Burlington	A. Wilson & Co., Hamilton	1888	1889
Liddell, W.	Toronto	C. H. Roach, Cork		1884
Little, G. J.	Cornwall		1892	1893
Little, J.	Parkdale	G. A. Devlin	1883	
Lloyd, W. T.	Toronto	J. Nugent, Peterboro'	1892	1893
Lockie, J. A.	Ottawa	W. A. Lloyd		1883
Lockie, P. M.	Kettleby	J. E. York	1889	1890
Logan, D. S.	Hanover	W. H. Goodeve	1885	
Loucks, J. A.	St. Catharines	W. H. Goodeve	1888	1889
Love, H. W.	Campbellford	A. J. Greenwood	1887	1888
Luckham, J.	Toronto	W. F. Loucks	1891	1893
Lusk, C. P.	Alviston	J. Dilworth	1890	1892
Lynch, C. A.	Oakville	P. A. McDiarmid	1889	1890
Lynch, J.	Toronto	Dr. Urquhart		1886
	Peterborough	H. Sherris	1883	
		John Nugent	1890	1891
McAlpine, R. J.	Gore Bay	J. R. McGregor	1891	1892
McBrien, W. H.	Orangeville	T. Stevenson	1886	1886

NAME.	
McBeath, D.	
McCallum, Jessie	
McCann, J. D.	
McCamus, W. E.	
McCarthy, F. C.	
McClain, Wm.	
McClintock, W. L.	
McColl, G. R.	
McCollom, J. F.	
McCormack, G. F.	
McCrea, W. A.	
McCuen, Geo. R.	
McDaniel, R. W.	
McDermid, N. I.	
McDonald, G.	
McDonald, J. A.	
McDonald, A. McG.	
McDonald, J. H.	
McDonell, J. J.	
McDougall, J. H.	
McDougall, W. C.	
McEachren, J.	
McElroy, J. L.	
McFarlane, R.	
McGibbon, P. J.	
McGillivray, D. J.	
McGregor, J. R.	
McGuire, W. J.	
McIntyre, Colin	
McIntyre, J.	
McIntyre, W. A.	
McKay, J.	
McKeague, W.	
McKee, W.	
McKenzie, J. A.	
McKenzie, J. D.	
McKenzie, S. R.	
McKenney, J.	
McKeown, J. S.	
McKinsay, W. J. H.	
McKinley, C. T.	
McKinnon, Alex.	
McKurracher, J. D.	
McLaren, D. H.	
McLaren, J. W.	
McLarty, Jas.	
McLaughlin, N.	
McLean, F. W.	
McLean, H. G.	
McLean, W. A.	
McLean, N. T.	
McLeay, J. F.	
McLeary, R. H.	
McLellan, T. E.	
McLellan, J. F.	
McLeod, J. A.	
McLeod, J. B.	
McMaster, Angus	
McMaster, John	
McMichael, R. W.	
McMillan, A. M.	
McMillan, D.	
McPhail, R. D.	
McPherson, G. S.	
McQuarrie, W.	
McQuade, E.	
McRae, W. F.	
McRae, J. R.	
McRae, J. W.	
McRobie, John	

ATTENDED.		NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
Aut.	Spring.				Aut.	Spring.
1889	1887	McBeath, D.	Winnipeg	J. C. Gordon	1892	1893
	1890	McCallum, Jessie.	New Hamburg	F. H. McCallum		1883
		McCann, J. D.	Stirling	R. Parker	1892	
		McCamus, W. E.	Peterborough	J. D. Tulley	1891	
		McCarthy, F. C.	Peterborough	H. S. McDonald	1891	
1891	1892	McClain, Wm.	Meaford	W. W. Stephen	1892	1893
	1887	McClintoch, W. L.	Newmarket	W. Bentley	1885	1885
	1887	McColl, G. R.	St. Thomas	W. O. Foster & Co	1886	
	1887	McCollom, J. F.	Milton	J. H. MacCollom	1887	1888
1890	1891	McCormack, G. F.	Ottawa	H. Watters	1889	1890
1882		McCrea, W. A.	Toledo	R. K. Kilbom	1891	92-93
1891	1892	McCuen, Geo. R.	Guelph	W. G. Smith	1892	1893
1885	1885	McDaniell, R. W.	St. Thomas	J. Dutton Stratford	1887	1888
1886	1887	McDermid, N. I.	London	Harkness & Co	1889	1890
1890	1891	McDonald, G.	St. Catharines	J. R. Seymour	1888	1890
	1884	McDonald, J. A.	Guelph	A. B. Petrie	1892	
		McDonald, A. McG.	Acadia Mines, N.B.	Tippard & McDonald		
		McDonald, J. H.	Perth	J. Kellock	1889	1890
1884		McDonnell, J. J.	Cornwall	W. B. Thompson	1891	1892
1885		McDougall, J. H.	Ottawa	A. Christie	1887	
1888	1889	McDougall, W. C.	Guelph	A. B. Petrie	1890	1891
1884		McEachren, J.	Galt	G. E. Gibbard		1885
1885		McElroy, J. L.	Ottawa	H. F. MacCarthy	1892	1893
1888		McFarlane, R.	Durham	C. C. McFarlane		
1884		McGibbon, P. J.	Sarnia	R. D. Scott	1888	1890
1887		McGillivray, D. J.	Whitby	W. R. Howse	1887	87-88
	1883	McGregor, J. R.	Welland	J. Cumines		1884
	1885	McGuire, W. J.	Elmvale			1892
1886	1886	McIntyre, Colin	St. Thomas	G. A. Hugill	1892	1893
1888	1889	McIntyre, J.	Toronto	Hargreaves Bros	1890	1891
1886	1886	McIntyre, W. A.	St. Mary's	S. Fraleigh		1891
1883	1886	McKay, J.	Toronto	R. Lee	1887	
1888	1889	McKeague, W.	Welland	H. W. Hobson	1888	1889
	1887	McKee, W.	Brighton	Dr. A. D. Lake	1889	1890
1883	1884	McKenzie, J. A.	Owen Sound	V. H. Chantler	1890	
1890	1891	McKenzie, J. L.	Dundalk	H. Parker	1887	1892
1888	1889	McKenzie, S. R.	Parkdale	G. A. Devlin	1888	1883
1891	1892	McKenney, J.	Ottawa	E. D. Martin	1889	
	1887	McKeown, J. S.	Belleville	R. Templeton	1891	1892
1884		McKindsay, W. J. H.	Streetsville	Wm. Madill		1891
1892	1893	McKinley, C. T.	Clarksburg	C. W. Hartman	1884	
1886	1886	McKinnon, Alex.	Kincardine	Dewitt H. Martyn	1892	1893
1889		McKurracher, J. D.	Kincardine	G. M. McKendrich	1883	
1886	1887	McLaren, D. H.	Almonte	M. Patterson		1884
1888	1889	McLaren, J. W.	Mitchell	S. A. Hodge	1884	1885
	1883	McLarty, Jas.	Strathroy	F. W. Meek	1891	1892
1892	1893	McLaughlin, N.	Gorrie	C. J. Passmore		83-85
1889	1889	McLean, F. W.	Aurora	G. W. Patterson	1886	
1888		McLean, H. G.	Goderich	G. Rhynas		1884
	1884	McLean, W. A.	Brockville	J. McLean, St. Mary's		1887
1892	1893	McLean, N. T.	Chatham	A. E. Pilkey	1892	1893
1892	1893	McLeay, J. F.	Watford	W. P. McLaren	1890	1891
	1883	McLeary, R. H.	Bowmanville	Stott & Jury	1887	1888
1889	1890	McLellan, T. E.	Galt	J. C. Graham		
1883		McLellan, J. F.	Ottawa	H. Waters	1887	88-90
1888	1889	McLeod, J. A.	Cornwall	E. H. Brown	1885	
1887	1888	McLeod, J. B.	Kingston	W. T. C. Bethel	1883	
1891	1893	McMaster, Angus	Guelph	A. B. Petrie	1890	1891
1889	1892	McMaster, John	Angus	W. B. Nesbitt	1890	1886
1889	1886	McMichael, R. W.	Mitchell	W. W. Cull		1886
		McMillan, A. M.	Ottawa	W. A. Lloyd	1887	1888
1883		McMillan, D. F.	Collingwood	E. R. Carpenter	1887	1888
1890	1891	McPhail, R. D.	Perth	J. Bower & Son	1892	1893
		McPherson, G. S.	Strathroy	F. W. Meek	1884	
		McQuarrie, W.	Goderich	F. P. Reynolds, St. Thomas	1887	
		McQuade, E.	Collingwood	A. H. Johnson	1892	1893
		McRae, W. F.	Meaford	F. T. Burgess	1892	1885
1891	1892	McRae, J. R.	Peterborough	J. McKee		
1886	1886	McRae, J. W.	Glencoe	M. F. Barclay	1891	1892
		McRobie, John	Petrolia	Chas. Lewis	1890	91-92

NAME	ADDRESS	PRECEPTOR	ATTENDED	
			Aut.	Spring
McTavish, J. H.	Collingwood	T. Greaves	1886	1887
McVey, W.	St. John, N. B.	R. W. McCarty	1886	
Macleay, M. J.	Belleville	D. M. Waters	1892	1893
Maddock, P. F.	Guelph	W. G. Smith	1891	1892
Madill, W. R.	Toronto	W. R. Hoar	1887	
Malley, W. T.	Shannonville	Dr. J. E. Baird, Pakenham		1886
Marling, A. W., Rev.	Juba, Africa			1884
Martin, E. W.	Hespeler	A. G. McBean	1890	
Martin, J. E.	Niagara Falls	R. P. Skinner		1885
Marshall, G.	Barrie	J. Woods	1885	
Marshall, G. W.	Toronto	E. J. Waugh	1885	
Marshall, J. A.	Port Hope	R. Deyell		1883
Marshall, W. G.	Mount Forest	L. H. Yeomans	1886	
Mason, F. H.	Toronto	Dr. J. Ogden	1889	
Mason, R. A.	Markham	W. Miller & Co.	1883	
Matthew, D. J.	Stratford	J. H. Nasmyth & Co.	1885	
Maxwell, W. H.	Oshawa	W. T. Atkinson	1884	
May, J. W.	Toronto	W. J. Rose	1882	
Maynard, G. T.	Port Hope	R. Deyell	1892	1893
Mears, E. C.	St. Catharines	as Mills.		1890
Meek, W. H.	Orangeville	H. S. Webber		1891
Meldrum, D. G.	Toronto	F. T. Burgess	1890	
Meldrum, H.	Fenelon Falls	W. E. Ellis	1889	1890
Menger, W. S.	Elmira	Walmesley & Merner	1884	1888
Mengies, A.	Fenelon Place	D. F. McEwan	1882	
Mercer, F. B.	Toronto	May & Co.		1885
Merrill, Frank	Brantford	D. S. Sager		1892
Middough, L.	Thorold	Charles A. Kyle	1889	
Middle, C. T.	Orillia	E. H. Robinson		1885
Miller, R. N.	Tamworth	F. C. Clark	1890	1891
Millman, J. T.	Guelph	A. B. Petrie	1883	1887
Mills, F. W.	Brantford	McGregor & Parks	1889	
Mills, G. W.	Oakland	McGregor & Parks, Brantford	1887	1888
Mitchell, Alex.	Waterdown	J. W. Sutherland, Hamilton	1892	
Mitchell, T. B.	Watford		1892	1893
Mitchell, D. J.	Kingston	N. C. Polson & Co.	1884	
Mitchell, E. C.	Kingston	W. J. Wilson	1885	
Mitchell, W. J.	Watford	G. A. McAnn, Wallaceburg	1886	
Mittleberger, G. B.	Toronto	S. W. Johnston	1889	
Montgomery, W. R.	Lakefield	S. Henderson	1891	
Mooney, G. S.	Toronto	H. M. Kipp	1888	85-89
Morgan, L. P.	Lindsay	A. Higginbotham	1885	
Morrow, A. E.	Cobourg	J. E. Kennedy		1885
Morrow, T.	Chatsworth	J. W. Elliott	1882	
Morton, J. S.	Tweed	L. Tuttle	1892	1893
Moyer, A. B.	Toronto	H. A. Knowles	1890	1891
Muir, R. S.	Port Elgin	G. B. Smith & Co.		1884
Muir, T. A.	St. Thomas	F. B. Reynolds		1886
Mulligan, R. J.	Omemee	Dr. Higginbotham		1889
Mundy, V. S.	Hamilton	Mark Mundy	1892	1893
Munro, E. D.	St. Thomas	F. P. Reynold	1891	1892
Murchison, W.	Lucknow	Dr. Tennant	1886	
Musgrove, I. J. T.	Ottawa	J. A. Musgrove	1891	1892
Naismith, J.	Pembroke	I. & J. H. Walford, Renfrew	1888	1889
Nash, C. M.	Belleville	Dr. Nash	85-87	1886
Naylor, R.	Lindsay	H. Howard, Toronto		1885
Neff, H. C.	Chatham	S. Priddy		1883
Neff, J. E.	Port Colborne	F. D. Thine & Son	1882	
Newton, C. H.	Tara	R. C. Bruce		1885
Nicholson, J. H.	Strathroy	W. J. Dyas		
Noble, W. G.	Coleman	B. E. McKenzie	1888	1889

NAME		
Noecker, L. A.	W.	
Norris, R.	El.	
Oakley, A. F.	T.	
O'Connor, H. B.	T.	
Oldham, S.	T.	
Orchard, C. E.	N.	
Paekert, H. M.	S.	
Parker, C. E.	S.	
Parker, C. W.	T.	
Parkes, G.	T.	
Patrick, R. A.	T.	
Paston, F. G.	T.	
Peaker, G. A.	T.	
Pearen, J. M.	T.	
Pement, T.	T.	
Pentland, J.	T.	
Pentz, R. L.	T.	
Peplow, J. Max	T.	
Pepper, P. F.	T.	
Pethick, J.	T.	
Petrie, A. B., jr.	T.	
Petrie, G. M.	T.	
Pettit, Delos	T.	
Phillips, O. N.	T.	
Phin, J.	T.	
Piper, D. N.	T.	
Playter, C. P.	T.	
Pollard, W. N.	T.	
Pollock, R. G.	T.	
Poole, W. G.	T.	
Porter, J. S.	T.	
Powell, H.	T.	
Price, F. R.	T.	
Proctor, H. T.	T.	
Pulford, W.	T.	
Quirk, T.	T.	
Radcliffe, J. H.	T.	
Radley, E. C.	T.	
Ralph, R. E.	T.	
Rand, A. V.	T.	
Randall, J. DeW.	T.	
Raney, W. H.	T.	
Ray, Alex.	T.	
Ready, T. W.	T.	
Reddin, A. W.	T.	
Reed, J. W.	T.	
Reekie, R. P.	T.	
Reid, R.	T.	
Reynolds, S.	T.	
Rice, C. A.	T.	
Rice, J. B.	T.	
Richards, W. A.	T.	
Rickey, E. W.	T.	
Riddell, W. C.	T.	



ATTENDED.		NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
Aut.	Spring.				Aut.	Spring.
1886	1887	Noecker, L. A.	Waterloo	Herod & Co., Guelph	89-92	1890
1886		Norris, R.	Elora	T. P. Smith.	1890	1891
1892	1893	Oakley, A. F.	Toronto	Dr. F. Oakley	88-89	
1891	1892	O'Connor, H. B.	Teeswater	R. N. Thurtell	1889	1890
1887		Oldham, S.	Tamworth	T. Hopkins	1891	1892
	1886	Orchard, C. E.	Newcastle	R. Fothergill	1882	
	1884					
1890						
	1885					
1885		Paeckert, H. M.	Stratford	J. H. Nasmyth	1891	1893
1885	1883	Parker, C. E.	Stirling	Robert Parker	1891	1892
1886		Parker, C. W.	Toronto	R. Robinson	1891	1892
1889		Parkes, G.	Hamilton	A. W. Harrison, St. Thomas	1885	
1883		Patrick, R. A.	London	Geo. Harkness	1890	
1885		Paxton, F. G.	Port Perry	S. E. Allison	1887	
1884		Peaker, G. A.	Brampton	R. G. Hodgson	1889	1891
1882		Pearen, J. M.	Toronto	J. Wright & Co.	1883	
1892	1893	Pement, T.	Hull	R. J. Mills Ottawa	1891	1892
	1890	Pentland, J.	Drumbo	H. E. Lannin	1890	
	1891	Pentz, R. L.	Toronto	Dr. W. A. Bentley, Newmarket	1892	1893
1890		Peplow, J. Max.	Peterborough	H. S. MacDonald	1892	1893
1889	1890	Pepper, P. F.	Millgrove	Blackader & Mills		83-84
1884	1888	Pethick, J.	Stratford	G. H. Vaughn	1883	
1882		Petrie, A. B., jr.	Guelph	Lemaitre & Tuthill	1888	1893
	1885	Pettit, Delor	Otterville	Dr. A. J. Callvar	1891	1892
	1892	Phillips, O. N.	Aurora	S. H. Ashton	1892	1893
1889		Phin, J.	Guelph	W. G. Smith & Co.	1883	
	1885	Piper, D. N.	London	Dr. Piper	1891	1892
1890	1891	Playter, C. P.	Toronto	J. R. Lee	1884	
1883	1887	Pollard, W. N.	Bethany	T. G. Brereton	1887	1888
1889		Pollock, R.	Galt	W. H. Lutz	89-91	
1887	1888	Poole, W. G.	Dunnville	R. A. Harrison	1885	1884
1892	1893	Porter, J. S.	Seaforth	J. S. Robert		1884
1884		Powell, H.	Aurora			1884
1885		Price, F. R.	Goderich	F. Jordan	1887	1888
1886		Proctor, H. T.	Harriston	W. B. Smith	1888	1890
1889		Pulford, W.	Stonewall, Man.	Dr. T. W. Fulford		1883
1891						
1888	85-89					
1885						
1882	1885	Quirk, T.	Cobourg	Dr. E. G. McNicholl	1885	
1892	1893					
1890	1891					
	1884					
	1886					
1892	1889	Radcliffe, J. H.	Granton	Dr. Lang	1884	1884
1891	1892	Radley, E. C.	Chatham	S. B. Bradley	1887	
1886		Ralph, R. E.	Hamilton	M. Mundy	1885	1892
1886		Rand, A. V.	Wolfville, N.S.	Geo. V. Rand	1891	
1891	1892	Randall, J. DeW.	St. Catharines	A. J. Greenwood	1886	
		Raney, W. H.	Prescott	A. O. Harding	1888	1889
		Ray, Alex.	Belleville	R. Parker, Stirling	1892	1893
		Ready, T. W.	St. Mary's	G. W. Harkness, London	1891	
		Reddin, A. W.	Charlottetown, P.E.I.	D. O. M. Reddin, jr.	1891	1892
		Reed, J. W.	Chesley	J. O. Stinson	1892	1893
		Reekie, R. P.	St. Thomas	R. J. Old	1891	1891
		Reid, R.	Mount Forest	L. H. Yeomans	1890	1883
1888	1889	Reynolds, S.	Markdale	Dr. S. S. Sproule	1889	1887
1885	1886	Rice, C. A.	St. Catharines	A. Jukes & Co.	1889	
1882	1883	Rice, J. B.	Ottawa	W. A. Karn	1889	
	1885	Richards, W. A.	Woodstock	A. Christie & Co.	1884	
		Rickey, E.	Prescott	A. O. Harding	1891	1892
1888	1889	Riddell, W. C.	St. Catharines	A. J. Greenwood	1888	1890



NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Ritchie, M. G.	Kincardine.	J. C. Cook	1883	
Roberts, D. A.	St. John, N.B.	G. W. Hobden	1889	1890
Roberts, J. F.	Seaforth.	J. S. Roberts	1887	1888
Roberts, S. E.	Cobourg.	R. Wilson		1888
Robertson, D. S.	Strathroy	W. J. Dyas		1884
Robertson, E. J.	Toronto	W. Holdenby		1884
Robertson, G. J.	Niagara Falls	K. P. Skinner	1887	1888
Robertson, H. R.	Sarnia.	R. D. Scott	1891	
Robertson, W. S.	Perth	J. F. Kellogg	1884	
Robinson, D.	Kingston	G. S. Hobart	1891	1892
Robinson, E. F.	Yorkville	W. S. Robinson		1882
Robinson, J. S.	Collingwood	A. H. Johnston		1887
Robinson, L. P.	Toronto	W. H. Cox		1885
Roblin, W. H. L.	Ameliasburg, P. E. Co.	Andrew Jeffrey	1888	1889
Robson, E.	London	W. E. Saunders & Co.	1890	
Roche, H. P.	Kingston	J. C. King	1882	
Rochester, J. L.	Ottawa	A. L. Foster	1892	1893
Roger, W. H.	Ottawa	H. J. Fraser	1890	1891
Rogers, G. E.	Norwich.	J. J. Bannon	1891	
Rogers, H. J.	Ottawa	J. S. Skinner & Co.	1889	1891
Ross, A. J.	Waterloo	S. Snyder	1884	1885
Roseburg, R. M.	Toronto	W. J. Davidson	1889	
Rose, C. H.	Tamworth	D. D. Rose	1891	1892
Rose, M. C.	Toronto	R. W. Boyle	1890	1891
Ross, A. H.	Hamilton	G. W. Spackman	1892	
Ross, J. G.	Embro	R. A. Duncan		1889
Rowan, J. E.	Tilsonburg	T. Flood, Southampton	1884	
Rowland, Thos.	Mount Albert	Dr. D. Gould	1888	1893
Rowntree, R.	Port Eng.	R. Dresser	1883	
Roy, H. C.	Toronto	L. Hooper & Co.	1887	
Ruby, C.	Berlin	H. E. Neville	1890	1891
Rudd, A. B.	Perth	Dr. H. C. Rudd		1886
Ruddell, W. A.	Hespeler	A. G. McBean	1891	1893
Rust, T.	Toronto	Dr. W. Armstrong	1886	
Ruston, F.	Georgetown	T. Ruston		87-88
Rutherford, W.	Peterborough	J. W. Tully	1883	
Rutledge, Wm. H.	Creemore	W. J. Corbett	1892	1893
Ryall, H. P.	Paris	G. L. Scott	1886	
Ryall, S.	Paris	G. L. Scott	1891	1893
Ryley, A. A.	Bethany	T. G. Ryley		1887
Sadler, G. J.	Ottawa	E. D. Martin	1890	1891
Sampson, N.	Norwich	D. M. Kirk	1887	
Sanderson, M.	Milton.	J. H. McCollum	1883	
Sanderson, T. G.	St. Mary's	S. Fraleigh	1889	1890
Sanger, E.	Hamilton	Harrison Bros.	1889	1891
Sargent, B. M.	Toronto	E. Hooper & Co.	1891	1892
Saunders, A. J.	Wroxeter	T. W. Scott, Toronto	1892	1893
Sawtell, E. T.	Hamilton	H. S. Webber, Orangeville	1887	1888
Sawyer, A. D.	Kingston	G. S. Hobart	1883	
Sawyer, R. W.	Wallaceburg	G. A. McAnn	1889	1890
Sayers, G. W.	Buffalo, N.Y.	E. J. Liebetnet	1885	
Scales, E. W.	Oshawa	C. Symonds	1892	1893
Scarlett, E.	Cobourg	R. Wilson	1883	
Scarlett, R. A.	Cobourg	R. Wilson		1886
Schofield, G. A.	Peterborough	M. Kee	1885	
Scott, C. S.	Newmarket	Dr. Bentley	1883	1884
Scott, P. L.	Paris	G. L. Scott		1887
Scott, R. W.	Sarnia	Dr. T. G. Johnston	1884	
Scott, T. W.	Woodstock	Scott & White.		1883
Scott, W.	Bradford	T. Edmanson	1891	1892
Scott, W. B.	Port Hope	R. Wilson, Cobourg	1892	1893
Seeds, S. A.	Pictou	E. W. Case	1887	1888
Shand, A.	Simcoe	J. Austin & Co.		1886
Sharp, W. R.	Brampton	C. Stark & Co.	1890	1891
Shaw, F. A.	Bowmanville	D. Secord, Ingersoll	1884	
Shaw, W. J.	Ottawa	John Roberts	1888	1889

## NAME.

shaunessy, W.	Toro
shearer, C. W.	Frest
shepherd, H. C.	Stay
shepherd, R. T.	Toro
sher, M. G.	Bow
sherrin, G. A.	Pete
sherrin, G. A.	Hag
shildrick, E. H.	Ota
shillington, R. T.	Tho
shoff, E.	Des
short, W. H.	Tor
sieveright, A. P.	Fra
simmons, J. D.	Hal
simson, W. A.	Stir
sine, C.	Ori
skinner, H. W.	Ott
slaven, R. R.	Ott
smallwood, Wm.	Ch
smellie, J. H.	Ha
smith, E. R. L.	La
smith, F. A.	To
smith, F. W.	Ri
smith, M. L.	Kn
smith, R. H.	Sn
smith, S. S.	St
smith, W. H.	St
smythe, R.	South
snyder, W. F.	Bi
snath, C. R.	Al
snedden, J. H.	Al
snider, H.	A
snider, K. O.	P
snowball, J. N.	S
somerville, R.	L
soules, F. E.	N
southcott, H.	S
spackman, G. W.	T
spaulsbury, J. F.	N
spence, J. S.	C
spencer, John M.	C
spilsbury, J.	I
springsted, J. R.	I
spivey, T. A.	I
strigley, J.	I
stanbury, G. H.	I
stearman, F. C.	I
steele, F. J.	I
steinhauser, J. G.	I
stephen, R. L.	I
stepler, W. H.	I
stewart, A. B.	I
stewart, C. F.	I
stewart, C. M.	I
stewart, F. J.	I
stewart, J. A.	I
stewart, T. M.	I
stewart, W. M.	I
stickney, E. W.	I
stinson, J. O.	I
stinson, W.	I
stirrett, A.	I
stone, H. D.	I
stone, W. S.	I
stork, J.	I
stork, W. M.	I
stork, H. C.	I
straiton, Thos. F.	I
strong, W. R.	I
strong, R. E.	I
struthers, T.	I

ATTENDED.		NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
Aut.	Spring.				Aut.	Spring.
1883		Shaunessey, W.	Toronto	G. A. Bingham	1889	1890
1880	1890	Shearer, C. W.	Preston	E. J. Duck	1891	1892
1887	1888	Shepherd, H. C.	Stayner	W. B. Sanders	1891	1892
	1888	Shepherd, R. T.	Stayner	W. B. Sanders	1892	1893
	1884	Sherk, M. G.	Toronto	F. T. Burgess	1890	1891
	1884	Sherrin, G. A.	Bowmanville	J. Higginbotham & Co.		84-85
1887	1888	Sherrin, G. A.	Peterborough	G. A. Sherrin, Sr.		1887
1891	1888	Shildrick, E. H.	Hagersville	S. W. Howard	1891	1892
1884		Shillington, R. T.	Ottawa	Dr. Shillington	1888	1889
1891	1892	Shoff, E.	Thorndale	McKechnie & Weeb.	1887	
	1882	Short, W. H.	Deseronto	W. G. Egan	1883	
	1887	Sieveright, A. P.	Toronto	E. H. Hauld	1888	1889
	1885	Simmons, J. D.	Frankford	R. Templeton, Belleville	1892	1893
1888	1889	Simon, W. A.	Halifax, N.S.	Simon Bros	1892	1893
1890	1889	Sine, C.	Stirling	R. Parker	1888	1889
1882		Skinner, H. W.	Ottawa	J. Skinner & Co.	1891	1892
1892	1893	Slaven, R. R.	Orillia	W. Slaven	1888	1889
1890	1891	Smallwood, Wm.	Ottawa	H. Watters	1891	1892
1891		Smellie, J. H.	Chesley	G. H. Golding	1890	1891
1889	1891	Smith, E. R. L.	Hamilton	McGregor & Parke	1890	
1884	1885	Smith, D. A.	Lakefield	T. J. Bird	1892	1893
		Smith, F. W.	Toronto	A. Jeffrey	1892	1893
	1892	Smith, M. L.	Ripley	W. Coleclough, Mt. Forest	1890	1891
1891	1891	Smith, R. H.	Smith's Falls	J. S. McCallum	1890	1891
1890		Smith, S. S.	Portage la Prairie	J. Taylor	1891	1892
1892	1889	Smith, W. H.	St. Catharines	H. Southcott		1892
1884		Smythe, R.	St. Catharines	J. R. Seymour	1887	1888
1888	1893	Smythe, W. F.	Arnprior	J. T. Wait		1885
1883		Sneath, C. R.	Barrie	G. Monkman		1882
1890	1891	Snedden, J. H.	Aurora	G. D. Patterson	1890	1889
	1886	Snider, R. O.	Port Hope	G. A. Mitchell	1885	
1891	1893	Snowball, J. N.	St. George	J. H. Flemming	1882	1883
1886		Somerville, R.	Lucknow	Dr. Tennant	1886	
	87-88	Soules, F. E.	Newmarket	Dr. Bentley	1883	1886
1883		Southcott, H.	St. Catharines	A. Jukes & Co.		
1892	1893	Spackman, G. W.	Thamesville	S. A. Tye	1884	
	1886	Spaulsbury, J. F.	Trenton	H. Meade	1884	
1891	1893	Spence, J. S.	Norwood	Wm. Rutherford	1892	1893
	1887	Spencer, John M.	Owen Sound	Parkes & Co.	1892	1893
		Spillsbury, —	Haliburton	Dr. E. A. Spillsbury		1886
		Spingsted, J. R.	Hamilton	R. W. Taylor & Co.	85-86	
		Spivey, T. A.	Toronto	G. F. Spivey, Howden, E.		1887
1890	1891	Strigley, J.	Toronto	D. L. Thompson	1891	1892
	1887	Stanbury, G. H.	Toronto	G. B. Smith & Co.	1882	
	1883	Stearman, F. C.	Chatsworth	J. W. Elliott	1892	1893
		Steele, F. J.	Toronto	G. A. Devlin, Parkdale	1886	1887
1889	1890	Steinhausser, J. G.	Baden, Germany	L. Lahr		1885
1889	1891	Steinhausser, R. L.	Meaford	W. W. Stephen	1883	1886
1891	1892	Stepler, W. H.	Sarnia	M. Springer, Strathroy		
1892	1893	Stewart, A. B.	Guelph	A. B. Petrie	1887	1888
1887	1888	Stewart, C. F.	Wallaceburg	C. S. Judson	1889	1890
1883		Stewart, C. M.	Barleton Place	Dr. McEwen	1887	1888
1889	1890	Stewart, F. J.	Stayner	T. W. Coleman	1883	83-84
1885		Stewart, J. A.	Meaford	Manley & Co.	1890	87-91
1892	1893	Stewart, T. M.	London	J. G. Shuff		1885
1883		Stewart, W. M.	Meaford	W. W. Stephen		1887
1885	1886	Stickney, E. W.	Newburgh	W. Grange	1890	1891
		Stinson, J. O.	Collingwood	N. H. Johnson	1888	1889
1884	1884	Stinson, W.	St. Mary's	S. Fraleigh		1887
	1887	Stirrett, A.	Port Rowan	G. Stewart & Co.		1887
	1883	Stone, H. D.	Port Colborne	F. D. Noble	1891	92-93
1891	1892	Stone, W. S.	Port Hope	R. Deyell	1890	1891
1892	1893	Stork, J.	Portage la Prairie, Man.	B. M. Canniff, Belleville		1887
1887	1888	Stork, W.	Brampton	C. Stork & Co.	1892	1893
	1886	Stork, H. C.	Brampton	C. Stork & Son		
	1886	Straiton, Thos. F.	Whitby	W. R. Howse	1892	
1890	1891	Strong, W. R.	Bradford	B. Kilborn		1886
1884		Strong, R. E.	Toronto	J. R. Lee	1892	1893
1888	1889	Struthers, T.	Kincardine	Dr. Martin	1882	

NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Stuart, H. G.	London	Cairncross & Lawrence		1892
Stuart, James A.	Mitchell	J. W. Cull	1891	1892
Stump, E.	Toronto	H. J. Rose	1887	
Suddaby, W. R.	Toronto	W. S. Robinson	1892	1893
Sumner, T. N.	Oakville	C. W. Pearce & Co		1883
Sunter, A. E.	Toronto	W. V. Cook & Co	1890	
Sutherland, D. W.	Guelph	J. Brown		1882
Sutherland, J. K.	Belleville	D. M. Waters	1890	1891
Suttie, G.	Edinburgh, Scotland		1881	1882
Sweeney, S. M.	Hamilton	D. D. Smith	1884	
Sweeney, T.	Belleville	A. L. Green	1890	1891
Switzer, J. E.	Carleton Place	W. H. Switzer, Dresden	1884	1885
Sylvester, W.	Bright	C. D. Daniel & Co., Toronto	1890	
Talbot, T.	Whitby	W. Woon, Oshawa		1887
Tanner, E. A.	Lakefield	T. J. Baird	1890	
Taylor, C. M.	Tamworth	D. E. Rose	1884	1884
Taylor, D.	Pictou	A. W. Case		1886
Taylor, T. A.	Owen Sound	Parker & Co.	1880	1890
Taylor, W. H.	Harriston	W. Taylor & Son		1882
Taylor, W. H.	Owen Sound	Parker & Co.	1885	1885
Templeton, J. S.	Belleville	R. Templeton		1887
Terry, F.	Linwood	Dr. Veitch	1891	1892
Thompson, La T.	Aurora	Rutherford & Co.	1891	1892
Thompson, R. F.	Toronto	B. Jacques	1885	1886
Thompson, S.	Beaverton	G. A. Devlin, Parkdale	1885	
Thomson, G.	Portage du Fort, Q.	R. B. Gray, Pembroke	1886	1887
Thomson, H. W.	Mitchell	J. W. Cull	1890	1890
Thomson, J.	Bracebridge	Dr. Shaw		1887
Thomson, James	Toronto	J. R. Lee	1892	1893
Thomson, R. S.	Kincardine	Dr. Martyn	1887	1888
Todd, J. W.	Aurora	G. D. Patterson	1889	
Todd, W. E.	Owen Sound	D. A. Cameron	1888	87-88
Toms, S. W. S.	Whitby	W. Woon, Oshawa		1882
Tremble, J. E.	St. Mary's	S. Fraleigh		1886
Tremble, T. J.	Napanee	W. S. Detlor	1886	
Trotter, A. H.	Galt	Robert Ferrah	1891	1892
Trotter, R. W.	Waterford	J. E. York & Co.	85-87	1888
Truss, A. J.	Markdale	A. Turner & Co.		1889
Turner, C. J.	Toronto	E. Hooper & Co.	1889	
Turner, F. E.	Lindsay	C. Gregory	1886	
Turner, F. M.	Brockville	Allan, Turner & Co.		1887
Turner, W. M.	Markdale	A. Turner		87-88
Tuthill, R. M.	Horning's Mills	Drs. Bara & Norton	84-86	
Tyson, Chas.	Hamilton	F. H. Yapp	1892	
Tythen, A. F.	London	J. R. Avey		1886
Vanatter, H.	Leamington	W. J. Smith	1890	
Vandervoort, P. W.	Toronto	C. W. Howarth		1887
Vanstone, J. N.	Kincardine	G. M. McKendrick	1887	1888
Veitch, J. C.	Galt	W. H. Lutz	1883	
Wade, F. C.	Kingston	H. Wade		1883
Walker, J. N.	St. Catharines	J. R. Seymour	1890	
Wallace, C. A.	Hastings	Dr. Wallace, Campbellford	1884	
Wallace, E. T.	Collingwood	E. R. Carpenter	1888	1889
Wallace, P. B.	Brantford	J. A. Wallace	1888	1889
Wallace, T. B.	Napanee	Dr. & Fullerton	1891	1892
Wallace, W. A. T.	Galt	T. E. McLellan	1891	1892
Walley, F. G.	Ingersoll	R. Kneeshaw & Co.	1890	1891
Walters, J. L.	Belleville	W. R. Walters	1892	

NAME.	
Ward, J. F.	London
Warren, H. H.	Oshawa
Warren, J. D.	Pembroke
Watson, D. A.	Dunc.
Watson, H. H.	Milt.
Watson, J. H.	Gode
Watson, W. P.	Ott.
Watt, E. G.	St. M.
Watt, J. M. A.	Wall
Watterhouse, D. C.	Tor.
Waugh, J. M. A.	Bell
Way, J. R.	Ott.
Webber, H.	Tor.
Webster, G. A.	Tor.
Weeks, A. D.	Uxb.
Weir, R.	Tor.
Welch, T. B.	Str.
Werner, J.	Tor.
West, E. G.	Del.
Whaley, K. J.	Chi.
Wheeler, J.	Hau.
Whelihan, F. J.	St.
White, C. L.	Col.
White, J. L.	Ott.
White, J. W.	Go.
Whitelaw, W. T.	Go.
Whitely, M. J.	St.
Whittaker, S. A.	St.
Wild, M. C.	To.
Wiley, F. W.	St.
Wilkinson, T. O.	Be.
Williams, C. D.	Go.
Williams, J. B.	Go.
Williams, W. M.	To.
Willis, George	Av.
Willis, J. C.	W.
Willis, R. F.	U.
Williscroft, G.	So.
Wilson, E.	L.
Wilson, J.	L.
Wilson, T. S.	G.
Wilson, W. E.	G.
Wingfield, C.	T.
Wood, F. W.	F.
Wood, G. A.	F.
Wood, J. E.	F.
Wooton, H. H.	S.
Worden, W. H.	T.
Worts, F. G.	F.
Wright, J. A.	F.
Wright, J. J.	F.
Wylie, W. D. H.	F.
Wynne, Thos.	F.
Yapp, F. H.	
Yates, C. A.	
Yeomans, A. G.	
Yeomans, J. W.	
Yeomans, S. C.	
Yeomans, W. L.	
Young, A. P.	
Young, M. A.	
Zeller, S.	
Zimmerman, J. A.	

ATTENDED. H. Spring.	NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
				Aut.	Spring.
	Ward, J. F.	London	J. G. Shuff	1884	
	Warren, H. H.	Oshawa	J. A. Higginbotham	1890	1891
91	Warren, J. D.	Pembroke	W. W. Dickson	1891	1892
92	Watson, D. A.	Dundas	J. B. Meacham	1887	1888
	Watson, H. H.	Milton	H. Watson	1887	1888
90	Watson, J. H.	Godenich	G. Rhynas	1887	1888
	Watson, W. F.	Ottawa	H. F. McCarthy	1884	1886
	Watt, E. G.	St. Mary's	S. Fraleigh	1884	1886
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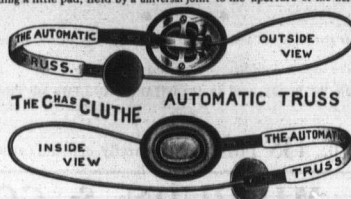
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