

ONTARIO  
College of Pharmacy

(Affiliated with University of Toronto.)

ANNUAL ANNOUNCEMENT

PUBLISHED BY AUTHORITY OF THE COMMITTEE ON EDUCATION.



13TH SESSION,

1892-'93.

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

AUGUST, - 1892.

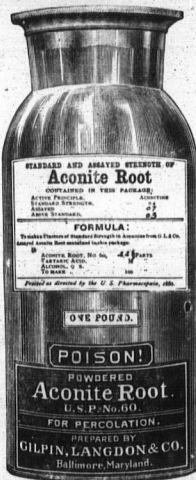
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and judging from the numerous complimentary letters received from the leading pharmacists of the country, our efforts have not been in vain.

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

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P76-0038 (02)

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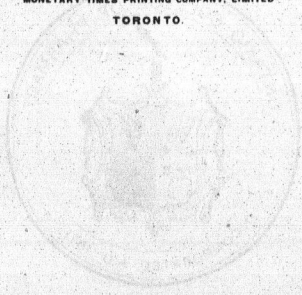
AUGUST, - 1892.

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MONEYARY TIMES PRINTING COMPANY, LIMITED  
TORONTO.



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Exceptions  
Junior  
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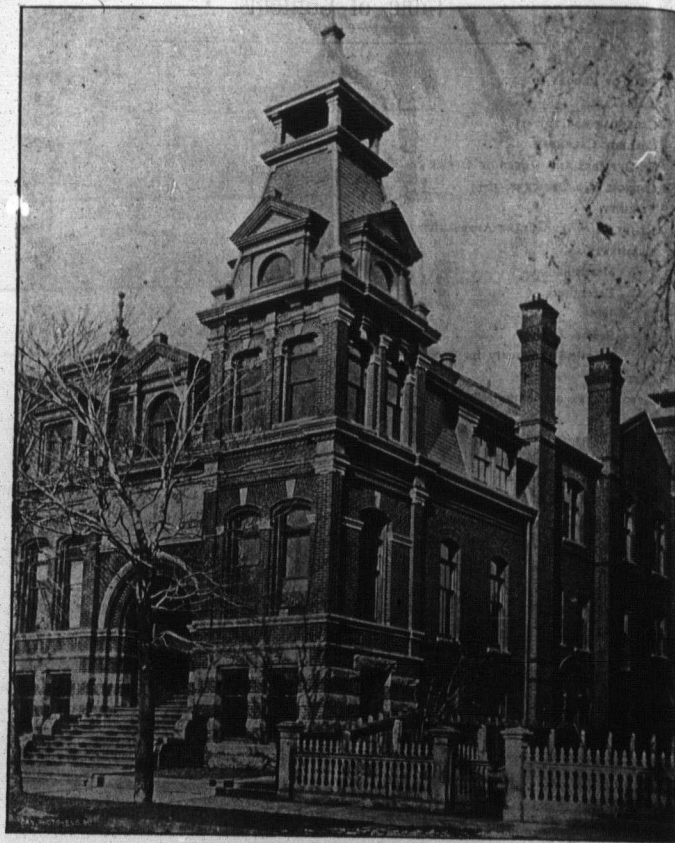
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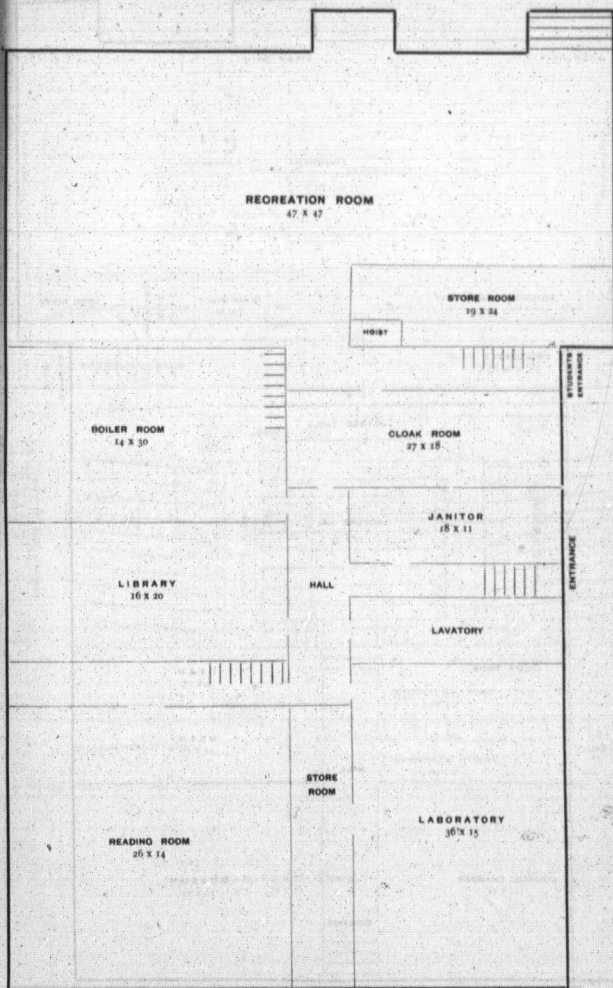
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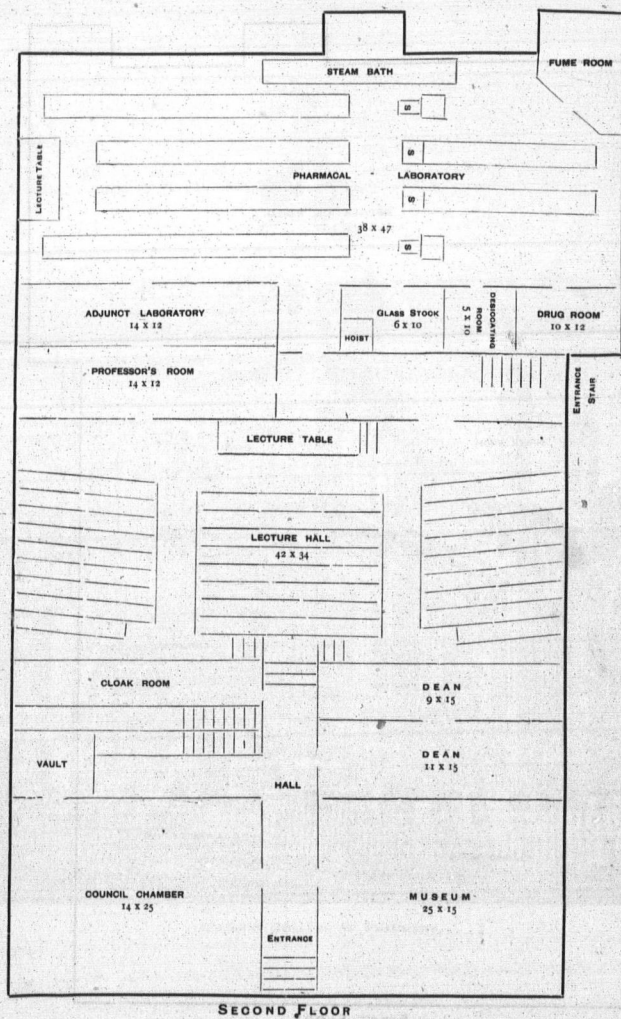
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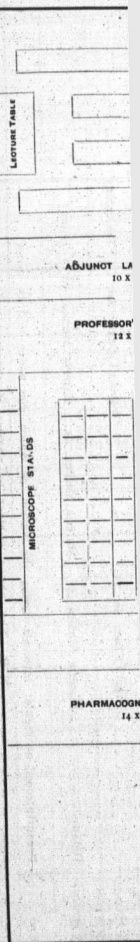
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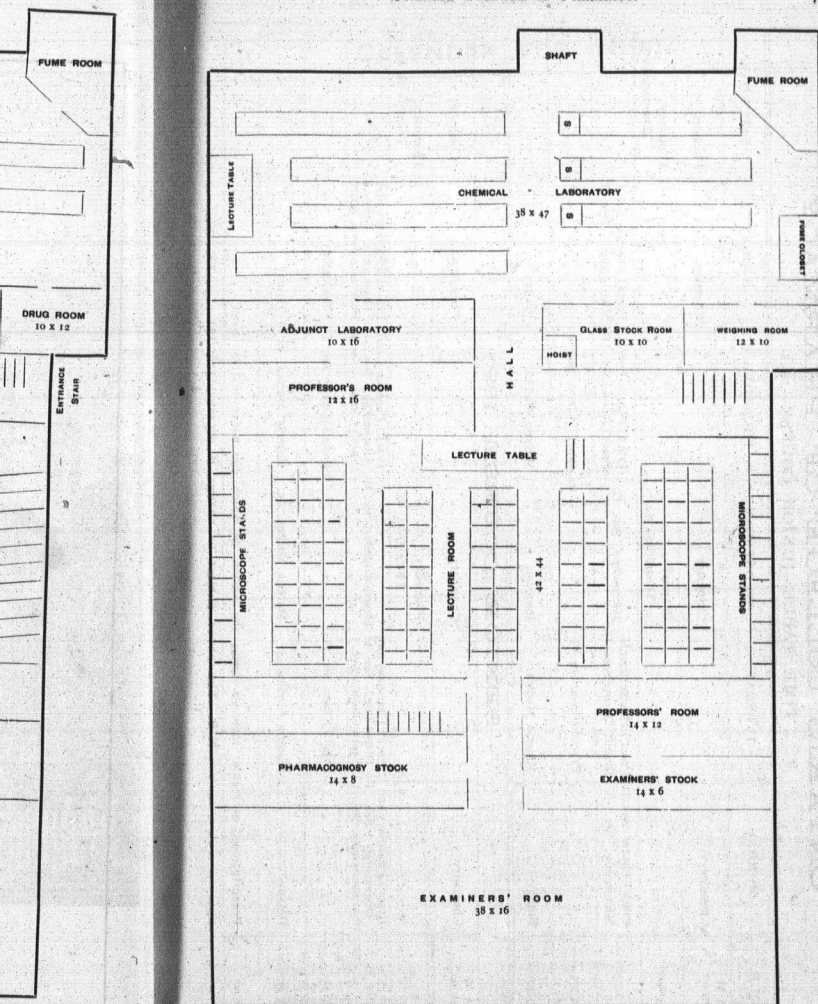
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ONTARIO COLLEGE OF PHARMACY.

7



THIRD FLOOR

# ONTARIO COLLEGE OF PHARMACY.

## TIME TABLE—JUNIOR COURSE—1892.

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

## SENIOR COURSE, 1893.

HOOR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
A.M.						
8.45 - 10.00 .....	Chemistry		Chemistry		Chemistry	Chemistry
10.15 - 11.30 ....			Pharmacy, Theoretical, &c.			Pharmacy, Theoretical, &c.
10.00 - 12.30 ....	Pract'l Pharmacy and Dispensing, - Sec. A Pharmacognosy, Sec. A	Pract'l Pharmacy and Dispensing, - Sec. II Pract'l Chem. - Sec. I	Pharmacognosy, Sec. B	Pract'l Pharmacy and Dispensing, - Sec. I Pharmacognosy, Sec. C	Pract'l Pharmacy and Dispensing, - Sec. I Pharmacognosy, Sec. C	
2.00 - 4.30 .....		Pract'l Chem. Sec. II		Pract'l Chem. Sec. I	Toxicology	
4.20 - 5.30 .....	Botany	Materia Medica, &c.	Materia Medica, &c.	Materia Medica, &c.	Botany	
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.	WED.
JAN.	...	...	...	...
	3	4	5	6
	10	11	12	13
	17	18	19	20
	24	25	26	27
	31	...	...	...
FEB.	...	1	2	3
	7	8	9	10
	14	15	16	17
	21	22	23	24
	28	29	...	...
	...	...	...	...
MAR.	...	1	2	...
	6	7	8	9
	13	14	15	16
	20	21	22	23
	27	28	29	30
	...	...	...	...
APR.	...	3	4	5
	10	11	12	13
	17	18	19	20
	24	25	26	27
	...	...	...	...
JAN.	1	2	3	4
	8	9	10	11
	15	16	17	18
	22	23	24	25
	29	30	31	...
	...	...	...	...
FEB.	...	5	6	7
	12	13	14	15
	19	20	21	22
	26	27	28	...
	...	...	...	...
MAR.	...	5	6	7
	12	13	14	15
	19	20	21	22
	26	27	28	29
	...	...	...	...
APR.	...	9	10	11
	16	17	18	19
	23	24	25	26
	30	...	...	...

## CALENDAR FOR 1892.

[illegible]

♦ ♦ ♦ ♦ ♦ 1893. ♦ ♦ ♦ ♦ ♦

JAN.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 .....	MAY	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 .....	SEP.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
FEB.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 .....	JUNE	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 .....	OCT.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 .....
MAR.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 .....	JULY	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 .....	NOV.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
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**N.B.—**The above subject to change if occasion requires.

7.30 - 8.30.....

4.20 - 5.30..... Botany

Pract'l Chem. Sec. I Toxicology

Botany	
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Materia Medica. &amp;c.

Materia Medica, &amp;c.

4.20 - 5.30..... Botany



## College Calendar

### 1892

- Aug. 2.—Sitting of College Council for granting diplomas begins.  
 Sept. —.—Supplemental University Examinations for degree Phm. B.  
     " 13.—Matriculation Examinations.  
     " 14.—Matriculation Examinations results posted.  
     " 15.—Formal opening of Junior term.  
     " 29.—Laboratory Course commences.  
 Nov. —.—Thanksgiving Day—Holiday.  
 Dec. 1.—Time-Table for Junior Examinations is posted.  
     " 6.—Semi-annual Examinations for diplomas begin.  
     " 15. )  
     " 16. ) Junior Examinations.  
     " 17. )  
     " 21.—Junior course closes.  
     " 24.—Results of Examinations published in daily press.

### 1893

- Jan. 6. )  
     " 7. ) —Supplemental Junior Examinations.  
     " 10.—Lectures of Senior course begin.  
     " 19.—Laboratory course begins.  
 Feb. 7.—Sitting of College Council for granting diplomas begins.  
 Mar. 31.—Good Friday—Holiday.  
 May 6.—Laboratory course terminates.  
     " 13.—Senior course closes.  
     " 16.—Semi-annual Examinations for diplomas begin.  
     " 30.—Results of Senior Examinations published in daily press.  
     " —.—University Examinations for degree Phm. B. begin.  
 June —.—University Annual Commencement.

Faculty meets first Friday in each month.

Application for examination must be made at least two weeks before the examination begins.

#### President.

WM. ELLIOT.  
 BENJ. LYMAN.  
 BENJ. LYMAN.  
 BENJ. LYMAN.  
 WM. ELLIOT.  
 WM. SAUNDERS  
 HUGH MILLER  
 NEIL C. LOVE  
 E. HARVEY.  
 R. W. ELLIOT.  
 HARRY SHERRI  
 JNO. A. CLARK  
 JNO. A. CLARK  
 JOHN J. HALL.

W. I.  
 H. J.  
 GEO.  
 K. A.  
 GEO.  
 GEO.  
 I. T.



# Ex-Officers and Dates of Office.

<i>President.</i>		<i>Vice-President.</i>
WM. ELLIOT.	1871.	HUGH MILLER.
BENJ. LYMAN.	1871—1873.	T. BICKLE.
BENJ. LYMAN.	1873—1875.	WM. SAUNDERS.
BENJ. LYMAN.	1875—1877.	NEIL C. LOVE.
WM. ELLIOT.	1877—1879.	WM. SAUNDERS.
WM. SAUNDERS.	1879—1881.	NEIL C. LOVE.
HUGH MILLER.	1881—1883.	G. J. WAUGH.
NEIL C. LOVE.	1883—1885.	E. HARVEY.
E. HARVEY.	1885—1887.	R. W. ELLIOT.
R. W. ELLIOT.	1887—1888.	W. B. SANDERS.
HARRY SHERRIS.	1888.	JNO. A. CLARK.
JNO. A. CLARK.	1888—1889.	W. B. SANDERS.
JNO. A. CLARK.	1889—1891.	JOHN J. HALL.
JOHN J. HALL.	1891—1893.	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., Toronto.

*Solicitors.*

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

*Curator.*

WM. YOUNG . . . . .

<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 Infraction Committee . . . . .</i>	ANGUS BUCHANAN.

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MACKENZIE.

SLAVEN.

PETRIE.

BUCHANAN.

## Faculty.

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.)

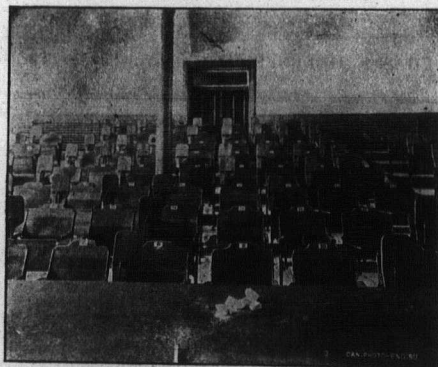
*Professor of Analytical Chemistry and Toxicology.*

CHAS. F. HEEBNER, Ph. G. (N.Y.), PhM. B. (Tor.)

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



LECTURE ROOM—PHARMACY AND CHEMISTRY  
(FIRST VIEW)



LECTURE ROOM—PHARMACY AND CHEMISTRY  
(SECOND VIEW)

## REGULATION

Every person qualified pharmacist send to the Registrar or other evidence previously passed

ARITHMETIC.—and decimal

MENSURATION.—ALGEBRA.—E

triple, fra

GEOGRAPHY.—

ENGLISH.—C

The above regulations himself by a written then legally begin a term of four (4)

In order to be must have attended viz.—Pharmacy of prescriptions; college of pharmacy second or senior

The time occupied as a portion of the

In case any removal, of his unable to complete shall be at liberty tract to complete qualified pharmacist

It must be before until the age of commence at an

## REGULATION

Special regulations prenticeship prior the Pharmacy Act the date mentioned



**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 parallelopipeds.

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 (4) 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.**

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*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 a 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, 1892, or May, 1893), 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 amount of ten dollars (\$10) with an application for examination, filled out in his own handwriting, on a printed form which shall have been obtained by previous 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 parallelopipeds.

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 13th, 1892, and will be held in the College building.

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

All persons not required to pass the Dean with High School or College of the qualification reserves the right should there be and subject the

The following

1. Apprentices, 1st, 1892.

2. Students of College of Pharmacy.

3. Apprentices amended Pharmacy.

4. Matriculants of College.

5. Holders of Education Department passed an examination latter.

All prospect register their names been duly approved September 15th,

The Junior Examination the conclusion of student can be admitted be held in January ing to pass in December.

Students who Pharmacy or School examination at the to the Council, entrance.

This examination supplemental on January.

This examination and must be passed business in Ontario not be later than Tuesday in December. Examiners may advise.

## 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 15th, 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 who 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 15th, 16th and 17th, and the Supplemental on January 6th and 7th.

## SENIOR OR FINAL EXAMINATION.

This examination is held semi-annually by examiners appointed by 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 dates during these months as the Board of Examiners may appoint.

## PRACTICAL CHEMISTRY EXAMINATION FOR SPECIAL DIPLOMA.

This examination was inaugurated in May, 1892, the following regulations having been provided for by the Council in February, 1892.

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. 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 mixture of salts in the state of powder or solution, having well marked characteristic re-actions.

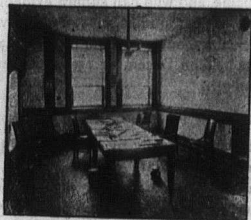
Preparation of solutions used in volumetric estimation of the strength of pharmacopœial preparations, and the practical application of these solutions in testing their strength.

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 candidates for use in the examination at the discretion of the examiner.

The examination is optional, and no fee is required.



READING ROOM.

Seven medals  
be awarded to the  
the candidate receiving  
Proficiency Medals.

GENERAL PHARMACY

"

DISPENSING

CHEMISTRY

PHARMACY MATERIALS

MATERIA MEDICA

BOTANY MEDICINE

The first three  
the last four only  
failed at any of the  
lectures.

The appointment  
to aid the professor  
session. Librarian

**DIPLOMA.**

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**Medals.**

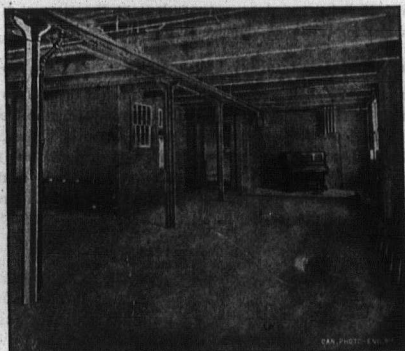
Seven medals are offered for competition at the Senior Examination, and shall be awarded to those candidates obtaining the highest number of marks, provided the candidate receives at least 75% of the whole number of marks for the General Proficiency Medal, and at least 75% in the special subjects, passing in all subjects.

GENERAL PROFICIENCY,	COLLEGE GOLD MEDAL.
"	COLLEGE SILVER MEDAL.
DISPENSING MEDAL	Presented by Mr. D'AVIGNON.
CHEMISTRY MEDAL (practical included)	Presented by Dr. CHAMBERS.
PHARMACY MEDAL (practical included)	Presented by Prof. HEEBNER.
MATERIA MEDICA MEDAL	Presented by Dr. FOTHERINGHAM.
BOTANY MEDAL	Presented by Dr. SCOTT.

The first three medals are open to all candidates at the Senior Examination; the last four only to students of the Ontario College of Pharmacy who have not failed at any previous examination, and have attended the required number of lectures.

**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.



### Fees.

#### MATRICULATION OR ENTRANCE FEE . . . . . \$2.00

To be forwarded with application to the Registrar by all students wishing to enter, whether by examination or certificate. It is payable once only, but in the event of failure to pass the examination it will not be returned, but the candidate shall be allowed a second examination without any further payment.

#### GENERAL LECTURE TICKET—

Junior Course . . . . .	\$40.00
Senior Course . . . . .	50.00

This includes attendance on all the lectures and obligatory laboratory courses; payable strictly in advance.

#### EXAMINATION FEE FOR DIPLOMA, . . . . . \$10.00

This fee must be paid for each examination, and includes the Diploma. It must be paid to the Registrar at least two weeks before the date of such examination. The charge for engrossed Diploma other than Examination Diploma shall be two dollars (\$2).

#### DEPOSIT FEE FOR LABORATORIES, . . . . . \$5.00

This amount will be returned to each student at the close of the term, after having deducted loss for breakage, damage or fines imposed.

#### SPECIAL LECTURE TICKET IN ANY DEPARTMENT, . . . . .

This will be issued to such students as wish to perfect themselves in any one of the branches taught in this College. Fees will be arranged by the Dean, Professor of the Department and the Registrar, subject to the approval of the Council.

Students who have attended full courses at the College during any term previous to that of 1887-8, will be allowed a reduction of twenty per cent. from the regular fees, and will not be required to pay the Matriculation Fee; the Laboratory Deposit Fee, specified before, must however in all cases be placed in the hands of the Registrar.

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# 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.

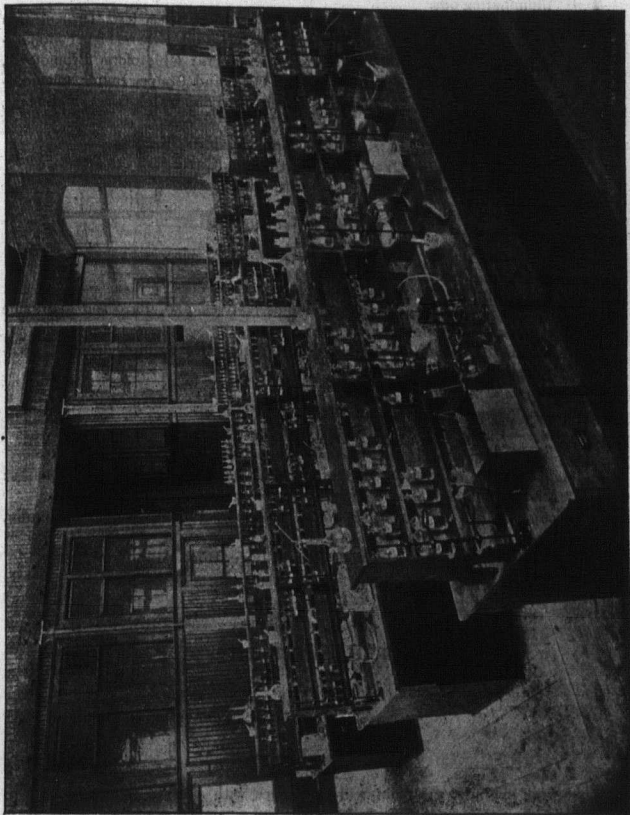
*Antimony Group.*—Vanadium, Antimony, Bismuth, Tantalum, Niobium.

*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.



PORTION OF CHEMICAL LABORATORY.

## 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 practical principles, such as use of glass working and fusion, deflagration. The use of the flame.

Elements of the glass working and fusion.

The preparation of elements: Hydrogen, Phosphorus. The study of the

Classification of metals in each group.

Considerable determining the elements commonly found in systematic order frequently.

The following Sulphuric Ether, Sugar, Milk Sugar, Oil of Wine.

Quantitative analysis: solutions in the preparations.

Analysis of mineral waters.

Urinary Acids, etc.

Quantitative

Definition of Each poison symptoms of poisons The action by experiments



The 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.

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: 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, Exalgine, 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 Pharmacopoeia 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 analysis.

## Theory and Practice of Pharmacy.

PROF. CHAS. F. HEEBNER.

### JUNIOR COURSE.

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

After an introductory lecture on the outline history of Pharmacy, the Pharmacopoeia, 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.**—1 conditions ; evaporation

**Distillation and** structure a apparatus a Pharmacop

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**Senior Lectu**

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

*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, 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.

#### 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.

Preparation 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 in general and specifically. The artificial alkaloids and other new remedies : Acetanilidum, Phenacetinum, Phenazonum, Sulphonal, Paraldehyd, Glusidum.

*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, pyroxilin, collodia, chartæ, parchment paper, oxalic acid, etc.

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

*Amylaceous and Saccharine Groups*.—Carbohydrates, their relationships and decomposition products ; starches, dextrin, glucose, sugars, 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 nitrate, chloral hydrate, chloroform, iodoform, etc.

*Volatile Oils*.—Will be fully and specifically considered ; natural and synthetic ; 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.

*Saponification Products*.—Soaps, glycerin, glonoin, oleic acid, oleates and oleo-palmitates.

*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 PHARMACEUTICAL 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 the 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.

Re-agents and drugs will be free to the student. (See Sec. 10, page 37).

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 will be delivered 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 pharmacopœial 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.

Besides giving due properly and profitably taken to instruct the student in the elegant preparations v in a retail store. The drill in the art of reading physicians' prescriptions. The class will be instructed in Elixirs, Spirits, including Pills, also coat Plasters, Emulsions, their purification, Oleates, and Oleo-pal Jalap, Scammony, N

*Prescriptions.*—Cizing of Prescriptions Course.

The success att continuance of the facilities.

*Method.*—Brief physician is in a no gen lantern, where and duly criticized

Opportunities; prescriptions in suc (Dates and hour of Dispensing.—I the Senior Course.

The instruction to extemporaneous and explained, inc the compounding subject demands.

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# 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, 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 term by the 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 questions by 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; shape 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.; emulsifiers; comparison and preparation, flavoring, etc.; saponification.

*Dispensing of 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, cutting, shape, 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.

## 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, Anthotaxy, Prefloration or Æstivation, 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.

III. *Vegetable*  
plants, etc.  
and Food of  
perature a  
Irritability.

IV. *Vegetable*  
histories of

The Linnæan  
Cryptogams will the  
duction, etc. Phan  
following orders:—  
Ranunculaceæ,  
Lobeliaceæ,  
Iridaceæ,  
Fungi, Algæ,  
anatomy of





## 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 systems 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, Labiatae, Solanaceæ, Polygonaceæ, Lupuliferae, Orchidæ, Iridaceæ, Liliaceæ, Smilacæ, Cyperaceæ, Graminaceæ, Coniferæ, 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.

1. *Latin and Prescription Writing.*—A review of the Principia Latina, to the extent necessary for the proper understanding of the construction and terminology of the classical prescription; abbreviations and directions; with meanings; exercises in reading and writing Latin prescriptions.
2. *Microscopy.*—The construction of the Microscope, technique, care of instruments, section cutting, staining fluids, mounting media, etc.

Microscopy will be taught mainly in connection with the lectures and demonstrations in Pharmacognosy and Botany, that didactic explanations and descriptions may be aided, as they should always be, by practical demonstration of the objects studied. Plant histology, vascular systems, cells, starches and other tissues, will be demonstrated.

In the early part of the Course in Microscopy, Botany will be taught, at any rate to the extent necessary for the understanding of the structure of the roots, twigs, leaves, seeds, etc., which come under the head of Pharmacognosy later in the course. Ordinary adulterations, such as starch, clay and other impurities in powder form, will be demonstrated.

Each student is provided with Microscope, reagents, and staining and mounting media. He should provide himself with dissecting needles, lifter and pocket lens; and if he desire to mount permanent specimens, with his own slides and cover-glasses, to be obtained in the College.

3. *Posology. — General Principles.*—The physiological principles governing dosage; modes of administration, by skin, mouth, etc.; absorption, systemic effects, therapeutic and poisonous, antidotes. Therapeutic terms and definitions so far as necessary for the fully qualified druggist. Specific list of doses, in addition to the naming of the dose in the lectures on Materia Medica, under the head of each drug, as its preparations are named.

### SENIOR COURSE.

4. *Pharmacognosy.*—This subject will be studied in connection with the lectures on Materia Medica, as stated below. The Microscopical Classes are held independently, and since any attempt at covering the whole ground in the limited time at the disposal of the class would be, in our opinion, ill-advised, the object of the course will be to select typical drugs and teach the ordinary technique of Microscopy, that students may, if they are inclined, pursue the subject further after graduation.

5. *Materia Medica.*—The student will be studied by orders, and

As each drug is (official and common) and part used, properties and [antidotes] adulterations and su

The lectures will and thus, as already associated. Before Room with a specimen, every official nosy is successfully Medica, and the res College during the instructor and the C

The student sh his study of the sou copeia should be u examined and desc this in securing a markedly upon the in the detection of f

Of the followi by the students for students who wish of these will be fo

*Fowne's Man* (last edition), Mac of Inorganic Chem man & Powers' E

*Balfour Steu* Physics, Miller's

*Jones' Practic* Quantitative Ana

5. *Materia Medica*.—The unsophisticated drugs of animal and vegetable origin will be studied; first those of animal origin, then those of vegetable origin, by orders, as arranged by the British authorities.

As each drug is taken up, notes will be given upon its natural order, names (official and common), source and habitat, mode of cultivation, collection, preparation and part used, description, constituents and active principles, medicinal properties and antidotes when necessary, preparations and doses, incompatibilities, adulterations and substitutions and their detection.

The lectures will be illustrated by the display of specimens and botanical plates, and thus, as already indicated, Pharmacognosy and *Materia Medica* be properly associated. Before each lecture, each student will be provided in the Lecture Room with a specimen of the drugs to be taken up in the lecture; so far as is possible, every official drug, and many non-official, will be thus studied. Pharmacognosy is successfully taught only in this way, when fully associated with *Materia Medica*, and the results of this method, which was adopted for the first time in this College during the last year, have been eminently satisfactory alike to students, instructor and the College Council.

The student should be provided with a good geographical atlas to facilitate his study of the source and habitat of the various *Materia Medica*. The Pharmacopœia should be used in the demonstrations, that each plant, as identified, may be examined and described in the technical language of the text book. The effect of this in securing accurate habits of observation and description cannot but tell markedly upon the student's botanical studies, and ensure his greater thoroughness in the detection of sophistications and substitutions.

### • Text Books.

Of the following list of text books those printed in italics 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 of these will be found in the College library.

#### CHEMISTRY.

*Fowne's Manual of Chemistry*, Roscoe's *Lessons in Elementary Chemistry* (last edition), Madam Wilson's *Inorganic Chemistry*, Remsen's *Advanced Course of Inorganic Chemistry*, Roscoe & Schorlemmer's *Chemistry* (eight volumes), Hoffman & Powers' *Examination of Medicinal Chemicals*.

#### PHYSICS.

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

#### PRACTICAL CHEMISTRY.

*Jones' Practical Chemistry*, Douglas & Prescott's *Qualitative Analysis*, Fresenius' *Quantitative Analysis*, Taylor's *Medical Jurisprudence*.

## BOTANY.

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

## PHARMACY.

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

## MATERIA MEDICA.

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

## PHARMACOGNOSY AND MATERIA MEDICA.

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



LIBRARY.

1. Preliminary examination.
2. All fees and deposits.
3. On signing the receipts for fees paid, which must be presented session by the Dean.
4. Students are present of the course.
5. Choice of seat to be according to preference of students who may have applying to the Registrar Senior Course.
6. Junior Term deposit with the Registrar.
7. Every student must account of sickness before lectures will be signed.
8. Instead of a vacant or occupied exchange their seat.
9. Quiz classes session has begun.
10. All drugs and processes in the laboratory furnished by the College reagents, or other apparatus of the examination can be.
11. Candidate for the Senior. At the end of the first year, Reading and Botany must be of four subjects, option at any future failed, but in the percent. in each subject.



's Botany, Gray's  
al Botany.

Remington's Prac-  
naceutical Chemis-  
on (1890).

onal Dispensatory

of Pharmacognosy

## For the Guidance of all Students.

1. Preliminary examination, accepted certificate, see page 17.
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, he 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 to be in attendance at the commencement of the course.
5. Choice of seats in Lecture Rooms and of sections in the Laboratories will be according to precedence of names on the College Roll. The attention of those students who may 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 Term students may secure their seats for the Senior Term by leaving a deposit with the Registrar.
7. Every student, during the term, 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 are complied with.
8. Instead of a roll call, a student will be marked absent whose chair or section is vacant or occupied by some other person; students will not be allowed to exchange their 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 laboratory, will have the same deducted from his deposit fee, and in case this should be exceeded, the deficit will be required to 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 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 or only the subjects in which he has failed, but in the latter case he will be required to 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 sixty-six and two-thirds per cent. on the aggregate and at least fifty per cent. in Pharmacy, Dispensing and Prescriptions.

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 must be addressed to I. T. Lewis, Registrar-Treasurer, who, if necessary, will communicate with the Dean of the College.



## HISTORY

An Act entitled "An Act to Incorporate the Ontario College of Pharmacy," passed by the Legislature, in 1871, had grown out of the about that time.

By this Act, the person in the Province of Ontario, who had served as a druggist's assistant for a term of years, and holding real estate, and having been enrolled as a member of the College, and having passed the Council Examination, was conferred the power to practice pharmacy.

The latter power was conferred on the public at large and the

Prior to 1882, the private enterprise, was undertaken a system of Mr. E. B. Shuttleworth, assistants. Temporary Street, Toronto.

In the year 1886 purchased a site on the corner of the College, etc., in the year 1887, at an expenditure of \$10,000.

The Act of 1871 nor for qualification and 1889. The terms are fully given (Pages 15 to 16.)

By the Act of 1889—the Junior in this College and determining the terms of the College can always be determined.

The Council of the College so that the building was over \$40,000 and thoroughly well equipped and next to it the hall is a private

## 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 this College the power of acquiring and holding real estate, and of erecting buildings for the purpose of lectures on chemistry, pharmacy, etc., or for a library or pharmaceutical museum; and 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 as assistants. Temporary quarters were obtained and fitted up for them on Wellington Street, Toronto.

In the year 1886, the Council, seeing that more accommodation was required, purchased a site on St. James Square, for the erection of buildings suitable for lectures, etc., in the departments required. 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 new fittings and apparatus.

The Act of 1871 did not specify any definite time for apprenticeship service, nor for qualification on entering the service. 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 the announcement. (Pages 15 to 16.)

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 has 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 of 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 nucleus of a library. (See cut page 36) 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.) Off this is a store room, from which a hoist runs up to the pharmaceutical and the 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 Museum, 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 and the other appliances necessary for effective lecturing. The hall is well lighted and ventilated. (See cuts page 14.)

In the rear is the pharmaceutical 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 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 slide 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 the 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 tables for the study of microscopy, and further facilities and appliances are being provided at the present time for this department. A large number of wall charts and models are also being obtained to aid in the practical teaching of botany in this room.

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 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.

Since the Announcement of 1891-2 was published the Council has been successful in carrying to completion affiliation with Toronto University, which is a matter of congratulation to intending students, and a recognition of the thoroughness of the College Course.

## UNIVERSITY

THE Senate of the Governor of Ontario, affiliating the Ontario University on that body.

On May 6th, 1891, the following conditions were adopted:

### Matriculation—

Candidates for the

(1) Possess a degree

(2) Have already

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(3) Be matricular

(4) Have passed i

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### Regulations for

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### Examination—

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### The Subjects

1. Botany

2. Theory

3. Materia

4. Theory

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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.
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

### Candidates upon whom the Degree Phm. B. was conferred at the Annual Convocation, June 10th, 1892.

Granted *ad eundem*:—CHAS. F. HERBNER, Ph. G., N. Y.

The following by Examination:—

MATERIA MEDICA AND PHARMACOLOGY.	PHARMACY INCLUDING PRACTICAL.	CHEMISTRY INCLUDING PRACTICAL.	PRACTICAL DISPENSING.	PRESCRIPTIONS.	BOTANY.
CLASS I.	CLASS I.	CLASS I.	CLASS I.	CLASS I.	CLASS I.
Barber, V.	Barber	Barber	Barber	Barber	Barber
Gilfillan, J. J.	Cogan	Huffman	Burchill	Dutcher	Gilfillan
Maddock, P. F.	Gilfillan	Munro	Crowe	Huffman	Huffman
Petrie, G. M.	Huffman	Williams	Dutcher	McRae	Petrie
Smith, S. S.	McRae		Huffman	Maddock	Shildrick
Williams, C. D.	Maddock	CLASS II.	Law	Petrie	Williams
Zeller, S.	Rand		McRae	Shildrick	Zeller.
	Shildrick	Gilfillan	Petrie	Williams	
CLASS II.	Williams	Maddock	Rand	Zeller	CLASS II.
	Zeller	Zeller	Shildrick		
			Smith	CLASS II.	
Crowe, G. A.	CLASS II.	CLASS III.	Wallace		Law
McRae, J. W.			Whelihan		Munro
Rand, A. V.			Williams	Cogan	Rand
Shildrick, E. H.			Young	Munro	Reddin
	Budd	Budd	Zeller	Rand	Whelihan
CLASS III.	Burchill	Burchill		Reddin	
	Dutcher	Crowe			CLASS III.
	Law	Cogan	CLASS II.	CLASS III.	
Budd, A. T.	Petrie	Dutcher			Budd
Burchill, J. H.	Reddin	Law			Burchill
Cogan, J. E. F.	Smith	McRae			Cogan
Dutcher, H. M.	Wallace	Petrie			Crowe
Huffman, F. G.	Whelihan	Rand			Dutcher
Law, C.		Reddin			McRae
Munro, E. D.	CLASS III.	Shildrick			Maddock
Reddin, A. W.		Smith	CLASS III.		Smith
Wallace, T. B.	Crowe	Wallace			Wallace
Whelihan, J. F.	Munro	Whelihan			Young
Young, M. A.	Young	Young	Budd		

Pement, T. L. R. D., will be required to take a supplemental examination in Chemistry before being admitted to the degree.

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F. G. Huffman.  
J. J. Gilfillan.  
P. F. Maddock.  
G. M. Petrie.  
E. H. Shildrick.  
John Werner.

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ed in any subject

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5 00  
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## Examinations, 1892.

### PRIZEMEN.

COLLEGE GOLD MEDAL—C. D. Williams, Goderich.

COLLEGE SILVER MEDAL—Vincent Barber, Toronto.

D'AVIGNON MEDAL—J. R. Hipwell, Toronto.

CHEMISTRY MEDAL—Vincent Barber, Toronto.

PHARMACY MEDAL—E. H. Shildrick, Hagersville.

MATERIA MEDICA MEDAL—C. D. Williams, Goderich.

BOTANY MEDAL—G. M. Petrie, Toronto.

#### BOTANY.

#### CLASS I.

Barber  
Gilfillan  
Huffman  
Petrie  
Shildrick  
Williams  
Zeller.

#### CLASS II.

Law  
Munro  
Rand  
Reddin  
Whelan

#### CLASS III.

Budd  
Burchill  
Cogan  
Crowe  
Dutcher  
McRae  
Maddock  
Smith  
Wallace  
Young

### HONOR LIST—IN ORDER OF MERIT.

F. G. Huffman.

J. J. Gilfillan.

P. F. Maddock.

G. M. Petrie.

E. H. Shildrick.

John Werner.

Wm. Geary.

W. Smallwood.

C. E. Parker.

F. W. Merrill.

J. W. McRae.

S. Zeller.

J. H. Burchill.

Wm. Barley.

Sydney S. Smith.

T. B. Wallace.

C. W. Hill.

T. S. Grimshaw.

n Chemistry

# Pass List.

## ALL SUBJECTS.

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

Allin, A. H.	Crowe, G. A.	Musgrove, I. J. T.	Seeds, S. A.
Barlow, W. H.	Dennis, J. H.	McAlpine, R. J.	Sharp, W. R.
Beman, T. C.	Dutcher, H. M.	McGuire, W. J.	Stuart, H. G.
Bright, J. E.	Esdale, W. T.	Mackenzie, J. L.	Sutherland, J. K.
Brown, H.	Fraser, W. J.	McKeown, J. S.	Switzer, J. C.
Budd, A. T.	Higginbotham, A.	McLarty, J. A.	Warren, J. De L.
Burchill, J. H.	Hoolihan, A. B.	McRobie, J.	Webster, G. A.
Clarke, G. E.	Jackson, W. D.	Oldham, S.	Whelihan, J. F.
Clarke, F. A.	Johnson, J. F.	Pement, T. L.	Williamson, W.
Cogan, J. E.	Kennedy, G. E.	Rand, A. V.	Wilson, T. S.
Cooke, C. A.	Law, Charles	Reddin, A. W.	Wood, J. E.
Crane, J. C.	Miller, R. N.	Reekie, R. P.	Young, M. A.
	Munro, E. D.	Riddell, W. C.	

## PASSED IN FOUR SUBJECTS—DISPENSING.

Atkins, W. J.	Phin, J. R.	Shepherd, H. C.	Trotter, A. H.
Boyd, L. F.	Sargent, B. M.	Skinner, H. W.	

## PRESCRIPTIONS.

Atkins, W. J.	Kernohan, R.	Shepherd, H. C.	Smith, W. H.
Boyd, L. F.	Phin, J. R.	Shillington, R.	Trotter, A. H.
Campbell, W. G.	Sargent, B. M.	Skinner, H. W.	

## PHARMACY.

Campbell, W. G.	Shepherd, H. C.	Skinner, H. W.
Sargent, B. M.	Shillington, R.	Smith, W. H.

## CHEMISTRY.

Atkins, W. J.	Kernohan, R.	Shepherd, H. C.	Trotter, A. H.
Boyd, L. F.	Phin, J. R.	Shillington, R.	
Campbell, W. G.	Sargent, B. M.	Smith, W. H.	

## MATERIA MEDICA.

Boyd, L. F.	Kernohan, R.	Smith, W. H.
-------------	--------------	--------------

## BOTANY.

Atkins, W. J.	Kernohan, R.	Shillington, R.	Trotter, A. H.
Campbell, W. G.	Phin, J. R.	Skinner, H. W.	

## PASSED IN SINGLE SUBJECTS.

(Having previously passed in four subjects.)

Mitchell, J. A. — Botany. Worts, F. G. — Pharmacy.

## PASSED IN PRACTICAL CHEMISTRY.

Barber, Vincent	Hartley, G. S.	McRae, J. W.	Smith, S. S.
Barley, William	Herod, W.	Oldham, S.	Smith, W. H.
Barlow, W. H.	Higginbotham, A.	Parker, C. E.	Trotter, A. H.
Burchill, J. H.	Hill, C. W.	Petrie, G. M.	Wallace, T. B.
Cogan, J. E.	Hipwell, J. R.	Phin, J. R.	Warren, J. De L.
Crowe, G. A.	Hossack, J. R.	Rand, A. V.	Werner, J.
Fawcett, F. W.	Huffman, F. G.	Reekie, R. P.	Williams, C. D.
Gillfillan, J. J.	Johnson, J. F.	Sargent, B. M.	Wood, J. E.
Gould, A. J.	Munro, E. D.	Shearer, W. C.	Zeller, S.
Grimshaw, T. S.	Musgrove, I. J. T.	Shildrick, E. H.	
Hafey, J. R.	McKeown, J. S.	Smallwood, W. A.	

Ontario

FROM

NAME.
Abbot, A. N.
Abbot, D.
Abbott, G. A.
Abbs, J. A.
Allan, J. A.
Allan, J. R.
Allen, Aylsford.
Allen, J.
Allin, A.
Anderson, J. S.
Arkel, F. E.
Armour, W. T.
Armstrong, Frank.
Armstrong, G. H.
Armstrong, R. S.
Ashton, W.
Atkins, Wm. J.
Austin, J. A.
Avison, O. R.

Baitram, W. H.
Baker, C. O.
Baker, Henry J.
Baker, T.
Baldwin, H.
Ball, A. W.
Bannon, J.
Barber, V.
Barkwill, W. S.
Barley, Wm.
Barlow, W. W.
Barr, Wilson.
Barrie, H. G.
Bawden, P.
Baxter, B. B.
Baxter, R.
Baxter, R. J.
Belanger, M. A.
Bell, J. N.
Bell, R. J.
Benson, J.
Bentley, I. McP.
Berry, J. F.
Berry, W. G.
Beynon, F. C.
Bifton, G. E.
Bingham, G. A.
Bingham, J. R.
Bird, C. A.
Birks, J. F.



# Ontario College of Pharmacy.

## LIST OF STUDENTS

FROM APRIL 4, 1882, TO MAY, 1892.

NAME.	ADDRESS.	PRECEPTOR.	ATTEND.	
			Aut.	Spring
Abbot, A. N.	Toronto	C. A. Mitchell.		1884
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. A.	Adolphstown	Michigan University.		1884
Allan, J. R.	Ottawa	John Roberts	1889	1890
Allen, Aylsford.	Lyn. Argen, N.B.	E. M. Hays.	1888	
Allen, J.	Goderich	E. Wilson		1890
Allin, A.	Whitby	G. E. Gibbard	1889	1890
Anderson, J. S.	Guelph	Herod & Co.		1886
Arkell, F. E.	Elora	W. Henderson		1889
Armour, W. T.	Owen Sound.	Parker & Co.	1890	1891
Armstrong, Frank.	Lyn.	Jas. Finlay.	1889	1890
Armstrong, G. H.	Kingston	C. J. Fisher.	1886	1887
Armstrong, R. S.	Port Colborne	C. Lugdin, Pt. Colborne.	1890	1891
Ashton, W.	Aurora	W. E. Hamill, Mt. Albert.		87-88
Atkins, Wm. J.	Madoc	C. S. Wilson	1891	1892
Austin, J. A.	Parkdale.	G. W. Mingay.	1886	1887
Avison, O. R.	Almonte	M. Patterson		1886
Bairtram, W. H.	Arkona	G. M. Everest.	1887	1888
Baker, C. O.	Stratford	W. Strevell, London.		1888
Baker, Henry	Ridgeway	Gaylor & Thomson	1891	1892
Baker, T.	Waterdown	J. D. McGeorge.		1888
Baldwin, H.	Sunderland	Fead Bros., Cannington		82-83
Ball, A. W.	Millbrook	A. Leach		85-86
Bannon, J.	Fleshertown	W. Griffin, Dundalk		87-88
Barber, W. S.	Toronto	Hexter, Smiler & Ogden.		1887
Barclay, W. S.	Durham	H. Barker.		1887
Barley, Wm.	Mitchell	S. A. Hodge.	1891	1892
Barlow, W. W.	St. Catharines	Blaicher & Reche	1891	1892
Barr, Wilson.	Hamilton	J. A. Barr & Co.	1888	1889
Barrie, H. G.	Port Arthur.	Dr. Smellie, Fort William.	1891	1892
Bawden, P.	Exeter	Dr. C. Lutz.	1893	
Baxter, B.	Toronto	S. W. Johnston		1887
Baxter, R. J.	Windsor	E. D. d'Avignon.	1890	1891
Baxter, R. J.	Cayuga	J. Baxter, M. D.	88-89	89-90
Belanger, M. A.	Ottawa	H. F. McCarthy.	1889	1890
Bell, J. N.	Teeswater	R. N. Thurtell		1887
Bell, R. J.	Toronto	B. Jackes		1891
Benson, J.	Toronto	C. A. Mitchell.		1891
Bentley, J. McI.	Newmarket	Dr. Bentley		83-84
Berry, J. F.	Lucknow	G. W. Berry	1891	1892
Berry, W. G.	Millbrook	A. Leach	1883	
Beynon, F. C.	Brampton	R. H. Hodgson		1887
Bilton, G. E.	Stratford	C. N. & J. E. Nasmythe	1883	
Bingham, G. A.	Toronto	J. F. Williams.		1887
Bingham, J. R.	Toronto	R. Lee		1887
Bird, C. A.	London	B. A. Mitchell.		1887
Birks, J. F.	Prescott	G. Birks	1886	

NAME.	ADDRESS.	PRECEPTOR.	ATTENDANCE.	
			Aut.	Spring.
Bleeker, D. J.	Belleville	L. W. Yeomans & Co.	1888	1889
Bletcher, H. E.	Peterborough	John McKee	1890	1891
Bollard, W. S.	Ottawa	H. F. MacCarthy	1890	1891
Bolster, W. G.	Lancaster	T. Bolster	86-88	
Bone, F. C. H.	St. Catharines	A. J. Greenwood	1884	
Book, Mary H.	Niagara Falls South	Dr. E. E. Book	1887	87-88
Booth, W.	Almonte	Dr. J. G. Baird	1888	1889
Botham, T. A.	Toronto	F. Brendon, Brantford		1887
Boothie, W. W.	Trenton	W. T. Barker		1882
Boulter, T. E.	Hagersville	Dr. Smith, Hamilton		1884
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. A.	Ottawa	E. D. Martin		1882
Breiner, R. W.	Samaria	Dr. A. Scott, Forest	1886	
Bresse, W. 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
Brought, Jas.	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, Jas.	St. Catharines	J. R. Seymour	1889	1890
Brown, M. S.	Delta	J. M. Sinclair	1887	
Brown, T. F.	Keenawille	J. R. Band		1882
Brown, W. G.	Hamilton	Garland & Rutherford		1882
Brown, W. H.	St. Thomas	G. B. McCullough		1883
Buchanan, Chas.	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
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. J.	Renfrew	J. Clark	1891	
Cameron, W. J.	Paris	Geo. L. Scott	1888	1889
Campbell, A. A.	Hamilton	J. H. Clark		1882
Campbell, D.	Woodville	Ann Bros.	1890	
Campbell, G. W.	St. Thomas	F. P. Reynolds	1890	
Campbell, J. E.	Warton	John M. Manley	1889	1891
Campbell, Robert	Sydney, C.B.	J. T. Wright	1889	1890
Campbell, R. W.	Toronto	W. S. Robinson		1886
Campbell, W. G.	Comber	R. H. Abbott	1891	1892
Campbell, W. L.	Bradford	B. Kilborn	1890	1891
Campbell, Wm.	Winnipeg	D. A. Cameron & Co.	1891	1892
Carney, F. W.	Owen Sound	E. R. Carpenter	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		1882
Cattle, W. E.	Goderich	G. Rhynas		1887
Caughill, P. A.	St. Thomas	W. O. Foster & Co.		1884
Cavers, Alfd.	St. Catharines	Geo. Parke	1891	1892

Chambers, G. A.	1889
Chambers, R. W.	1890
Chandler, V. H.	1891
Chapman, R. A.	1891
Cherry, Wm. J. H.	86-88
Childs, H. J.	
Chisholm, F. A.	87-88
Chisholm, J. H.	1889
Clapsattle, H. D.	1887
Clark, C. W.	1882
Clark, F. A.	1884
Clark, G. E.	1885
Clark, S. B.	1885
Clark, T. M.	1885
Clarke, F. C.	1891
Clarke, H. W.	1892
Clarke, W. G.	1884
Clive, H.	
Coates, J.	1882
Cochrane, J.	
Cogan, J. E.	
Coldwell, R. A.	1891
Cole, E. E.	1882
Coleman, F.	1892
Collie, S. J.	1888
Colling, J. H.	1885
Colvin, A. B.	1891
Conger, F. H.	1892
Conger, Jos.	1891
Conger, L. J.	1889
Conger, L. J.	1882
Congram, A.	1890
Cook, Chas. A.	
Cook, W. V.	1882
Cooke, A. S.	1882
Cooke, H. B.	1883
Coombe, H. B.	1892
Coombe, J. A.	1892
Cooper, T. C.	
Copeland, R.	1892
Corrigan, J. E.	1882
Cote, Louis V.	1890
Couen, C. H.	1885
Coulson, J. F.	1888
Cowper, J. A.	1887
Cox, J. V.	
Crane, Jas. C.	
Cranfield, E. S.	
Crease, F. J.	
Crease, H.	
Cramer, C.	
Cronkhite, F.	
Crowe, Geo. A.	
Crowe, W.	
Croy, P. R.	
Crusoe, B.	
Cryderman, C.	
Cryderman, S. M.	
Crysler, R.	
Culbert, C. G.	
Cummins, J.	
Currie, H.	
Curry, I.	
Curry, J. C. G.	
Darlington, A. G.	
Davidson, Dickson.	

ATTENDED.		NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
Aut.	Spring.				Aut.	Spring.
1888	1889	Chambers, G. A.	Ingersoll.	J. W. Browett	1889	91-92
1890	1891	Chambers, R. W.	Millbrook	J. B. Smith		1887
1890	86-88	Chandler, V. H.	Owen Sound.	D. A. Cameron & Co.	1883	
1884	87-88	Chapman, R. A.	Toronto	W. J. Urquhart	1889	1890
1887	1888	Cherry, Wm. J. H.	London	J. Roberts	1890	1890
1888	1889	Childs, H. J.	Belleville	E. W. Boyle	1891	
1888	1889	Chisholm, F. A.	Wingham	L. W. Yeomans & Co.	1891	
1888	1889	Chisholm, J. H.	Brantford	Dr. Chisholm	1887	
1888	1889	Clapsattle, H. D.	St. John, N.B.	D. S. Sagar		1887
1888	1889	Clark, C. W.	Lindsay	C. P. Clarke	1890	1891
1888	1889	Clark, F. A.	Gravenhurst	F. J. Stewart	1891	1892
1888	1889	Clark, G. E.	Hanover	G. Tolen	1886	1887
1888	1889	Clark, S. B.	St. Mary's.	W. H. Gilpin	1891	1892
1888	1889	Clark, T. M.	Belleville	J. Clark	1887	1888
1888	1889	Clarke, F. C.	Woodstock	W. A. Karn		1887
1888	1889	Clarke, H. W.	Woodstock	W. A. Karn		1884
1888	1889	Clarke, W. G.	Woodstock	W. A. Karn		
1888	1889	Clive, H.	Tiskburg.	H. W. Clive	1890	
1888	1889	Coates, J.	Kingston	J. W. Cull	1882	
1888	1889	Cochrane, J.	St. Catharines	A. P. Chow	1886	
1888	1889	Cogan, J. E.	Lakefield	A. J. Greenwood	1891	1892
1888	1889	Cole, E. E.	Niagara Falls	T. J. Bird	1886	
1888	1889	Coleman, F.	Hamilton	R. P. Skinner		1883
1888	1889	Collie, S. J.	Woodstock	H. S. Case		1887
1888	1889	Colling, J. H.	Lowville	W. A. Karn		1883
1888	1889	Colvin, A. B.	Teeswater	McGregor & Parke	1889	1890
1888	1889	Conger, F. H.	Belleville	R. Templeton		1887
1888	1889	Conger, Jos.	Pictou	H. W. Branscombe	1883	
1888	1889	Conger, L. J.	Belleville	R. Templeton	1889	1890
1888	1889	Conger, L. J.	Toronto	H. Sherris	1885	
1888	1889	Congram, A.	Lucknow	Dr. Tennant		1886
1888	1889	Cook, Chas. A.	Brantford	S. H. Golding	1886	1891
1888	1889	Cook, W. V.	Welland	H. W. Hobson	1890	1882
1888	1889	Cooke, A. S.	London	W. T. Strong	1883	
1888	1889	Cooke, H. B.	Dresden	E. Miller & Co.		1884
1888	1889	Coombe, H. B.	Clinton	J. H. Coombe		1885
1888	1889	Coombe, J. A.	Clinton	J. H. Coombe	1882	
1888	1889	Cooper, T. C.	Welland	H. Bugar		1886
1888	1889	Copeland, R.	Lucknow	G. A. Sheppard		1882
1888	1889	Corrigan, J. E.	Hamilton	Harrison Bros.		1885
1888	1889	Cote, Louis V.	Oakville	R. C. Balmer		1888
1888	1889	Couen, C. H.	Toronto	J. R. Lee		1886
1888	1889	Coulson, J. P.	Orillia	R. Weir, Toronto		1887
1888	1889	Cowper, J. A.	Welland	J. H. Bugar		1888
1888	1889	Cox, J. V.	Lakefield	S. Henderson		1887
1888	1889	Crane, Jas. C.	Aylmer	Ormond & Walsh, Peterborough	1891	1892
1888	1889	Cranfield, E. S.	Stayner	W. B. Sanders	1887	1888
1888	1889	Crease, F. J.	Barrie	John Woods	1891	1892
1888	1889	Crease, H. G.	Barrie		1889	
1888	1889	Cremier, C.	Orillia	J. R. Lee, Toronto	1889	
1888	1889	Cronkhitte, F.	Moore		1890	
1888	1889	Crowe, Geo. A.	Peterborough	F. Comport, Aylmer	1891	1892
1888	1889	Crowe, W.	Truro, N. S.	W. F. O'Dell	1889	
1888	1889	Croy, P. R.	Ottawa	M. A. Lloyd	1886	
1888	1889	Crusoe, B.	Almonte	M. Patterson	1886	
1888	1889	Cryderman, C.	Toronto	Dr. Ogden	1886	1886
1888	1889	Cryderman, S. M.	Walkerton	C. W. Cryderman	1888	
1888	1889	Crysler, R.	St. Catharines	W. W. Greenwood		1886
1888	1889	Culbert, C. G.	Ottawa	E. D. Martin	1889	1890
1888	1889	Cummins, J.	Pictou	Dr. K. D. Graham	1885	
1888	1889	Currie, H.	Toronto	E. W. Case		1883
1888	1889	Curry, L.	Toronto	J. R. Lee	1884	1884
1888	1889	Curry, J. C. G.	Toronto	W. C. Niblett, Dundas	1889	
1888	1889	Darlington, A. G.	Chicago, U.S.A.	Higginbotham & Son, Bowmanville		1887
1888	1889	Davidson, Dickson	Peterborough	Ormond & Walsh	1889	1891

NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Davidson, G. W. W.	Hamilton	McGregor & Park, Brantford	1887	1888
Davidson, W. J.	Aurora	G. Patterson		1888
Davies, F. de C.	Charlottetown, P.E.I.	D. C. M. Reddin		1887
Davis, R. A.	Woodstock	W. A. Karn	1890	1891
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, 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, Gananoque		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	
Douglas, A. E.	Welland	J. H. Burger		1884
Douglas, R.	St. Catharines	W. W. Greenwood		87-90
Douglas, W. A.	Warkworth	W. Empey	1882	1884
Douglas, W. G.	Owen Sound	R. Wightman	1883	1884
Douglas, W. J.	Markdale	R. L. Steven	1880	1890
Daw, A.	Toronto	W. S. Robinson	1885	
Dow, J. D.	Pembroke	R. B. Gray	85-88	1889
Dowdall, J. W.	Almonte	P. C. Dowdall	1884	
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	A. B. Eadie		1885
Duncan, H. C. B.	Paisley	G. M. Everest		1886
Duncan, A. C.	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. 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		1883
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		
Elliot, Howard	Toronto	Elliot & Co.	1890	1891
Elliot, Wm., Jr.	Toronto	Elliot & Co.	1890	1891
Elliot, A. T.	Hamilton	J. Higginbotham & Son		1890
Elliot, H.	Toronto	Elliot & Co.		1887
Elliot, W. A.	Culloden	L. E. York & Co.	1882	
Elvidge, E. H.	Cornwall	Dr. Pringle	1885	
Emerson, N. W.	Zimmerman	McGregor & Parke, Brantford	1891	1892
Erbe, S. W.	Toronto	J. E. Neville		1882
Ernewein, —	Mildmay	J. A. Diement	1882	
Esdale, W. T.	Ottawa	Dr. A. Lloyd	1889	1890
Evans, Wm.	Elmwood	John Evans	1891	
Fairweather, E. M.	Sussex, N. B.	C. H. Fairweather		1887
Farr, F. E.	Sarnia	J. J. Clemens	1891	
Fawcett, A. E.	Toronto	J. Dilworth	1885	1885
Fawcett, F. W.	Toronto	W. Haldenby	1891	1892

NAME.	
Fear, G. A.	Brantford
Fear, J. V.	Brantford
Ferguson, A.	Toronto
Ferguson, J. W.	Mt. Pleasant
Fessant, J.	Peterborough
Field, W. H.	Peterborough
Fife, R. J.	Peterborough
Fish, J. W.	Orillia
Fitchett, J. W.	Napier
Flack, E. R.	St. Catharines
Flemming, G. O.	Gloucester
Flemming, J. W.	Brantford
Flett, F. W.	Toronto
Footo, W. R.	Brantford
Forbes, G. A.	Peterborough
Forster, J. E.	London
Fortier, W. B.	Peterborough
Poster, A. L.	St. Catharines
Poster, R. B.	St. Catharines
Foulds, C. R.	Hamilton
Fox, J.	Windsor
Fraser, A.	Windsor
Fraser, H. J.	Orillia
Fraser, W. J.	Kitchener
Freer, B. J. E.	Kitchener
Galbraith, W. S.	Galt
Galley, W. E.	Toronto
Gamon, C. A.	Orillia
Gamsby, A. T.	Orillia
Gardner, W. F.	Orillia
Gayler, A. E.	Orillia
Geary, Wm.	London
Gibson, W. F.	Kitchener
Gilbank, J. C.	London
Gillilan, J. J.	London
Gillies, A. C.	London
Glasford, V. H.	London
Glenny, E. J.	London
Golding, W. L.	London
Goode, W. C.	London
Goodeve, A. S.	London
Goodwin, F. J.	London
Gould, A. J.	London
Gowans, F. M.	London
Graham, G.	London
Graham, J. N.	London
Graham, Thos.	London
Graham, W. B.	London
Grange, W.	London
Grant, W.	London
Grant, W. H.	London
Gray, J. C.	London
Gray, J. N.	London
Gray, J. S.	London
Gray, John	London
Greatrix, W. R.	London
Green, H. W.	London
Green, J.	London
Green, S. M.	London
Gregory, A. E.	London
Gregory, W. H.	London
Grimshaw, T. S.	London
Guillemont, E.	London
Gun, Jas.	London
Gunn, C. H.	London
Guy, A. E.	London



ATTENDED.		NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
Aut.	Spring.				Aut.	Spring.
1887	1888	Fear, G. A.	Brussels	John Hargreave	1888	1889
1887	1888	Fear, J. V.	Brussels	A. Gailich	1883	1885
1887	1888	Ferguson, A.	Toronto	B. Meacham	1885	1886
1890	1891	Ferguson, J. W.	Millbank	Dr. J. Johnston	1885	1888
1887	1886	Fessant, J.	Teeswater	W. G. Smith, Guelph	1887	1888
1888	1890	Field, W. H.	Pickering	Dr. Field	1884	1888
1888	1886	Fife, R. J.	Peterborough	Ormond & Walsh	1888	1889
1890	1891	Fish, J. W.	Otterville	Dr. A. J. Collyer	84-88	1888
1887	1887	Fitchett, J. W.	Napanee	A. W. Grange	1882	1889
1882	1887	Flack, E. R.	St. Thomas	W. O. Foster	1889	1890
1884	1886	Flemming, G.	Glennorris	J. M. Hamilton, Blythe	1884	1886
1884	1886	Flemming, H. O.	Windsor	F. H. Laing	1886	1888
1884	1886	Flemming, J. W.	Brandon, Man.	Dr. A. Flemming	1888	1889
1882	1887	Flett, F. W.	Toronto	W. Brydon	1882	1883
1885	1888	Foote, W. R.	Bracebridge	Dr. S. Bridgeland	1886	1888
1883	1886	Forbes, G. A.	Pembroke	F. W. Noble	1886	1888
1885	1886	Forster, J. E.	London	Dr. Forster	1886	1888
1883	1886	Fortier, W. B.	Port Colborne	W. A. Jamieson	1886	1888
1885	1886	Foster, A. L.	Ottawa	Jno. Gerrie	1886	1888
1885	1886	Foster, R. B.	Hamilton	J. Findlay	85-86	1888
1882	1884	Fowlds, C. R.	Hastings	John Bower	1891	1892
1882	1884	Fox, J.	Wroxeter	Wm. Robinson	1885	1888
1889	1890	Fraser, A.	Woodstock	E. Stark	1885	1888
1885	1886	Fraser, H. J.	Ottawa	H. F. McCarthy	1890	1891
85-88	1889	Fraser, W. J.	Toronto	S. W. Johnston	1890	1891
1884	1885	Freer, B. J. E.	Kincardine	J. C. Cooke	1890	1891
1886	1886	Galbraith, W. S.	Guelph	N. G. Smith & Co.	1885	1888
1886	1886	Galley, W. E.	Toronto	John Pearin	1887	1888
1890	1891	Gamon, C. A.	Stayner	T. W. Coleman	1883	1888
1882	1884	Gamsby, A. T.	Orono	L. A. Gambay	82-84	1887
1887	1889	Gardiner, W. F.	Oshawa	J. Higginbotham	1890	1891
1888	1891	Gayer, A. E.	Ingersoll	John Gayer	1890	1891
1890	1884	Geary, Wm.	London	W. E. Saunders & Co.	1890	1891
1891	1890	Gibson, W. F.	Kars	J. E. Hanna, N. Gower	1888	1890
1889	1892	Gilbank, J. C.	London	W. T. Strong	1891	1892
1891	1890	Gillilan, J. J.	Bowmanville	Stott & Jry.	1891	1892
1889	1890	Gillies, A. C.	S. Dumfries	F. C. Bond, Galt	1891	1892
1891	1892	Glasford, V. H.	Brockville	T. J. B. Harding	1886	1888
1887	1888	Glenny, E. J.	Oshawa	J. W. Higginbotham	1883	1888
1890	1883	Golding, W. L.	Chesley	G. H. Golding	1883	1888
1886	1886	Goode, W. C.	Morrisburg	L. T. Selleck	1885	1888
1886	1882	Goodeve, A. S.	Guelph	W. G. Smith & Co.	1885	1888
1890	1891	Goodwin, F. J.	Stratford	N. A. Bosworth	1890	1891
1890	1891	Gould, A. J.	Colborne	A. W. Hawley, Trenton	1891	1892
1890	1891	Gowans, F. M.	Cobourg	W. T. Porter	1886	1888
1882	1882	Graham, G.	Morden	G. W. McLaren	1889	1890
1890	1891	Graham, J. N.	Windsor	C. T. Covernton, Montreal	1886	1891
1890	1891	Graham, Thos.	Sturgeon Point	John McKee, Peterborough	1885	1888
1890	1891	Graham, W. B.	Aylmer	W. J. Grundy	1885	1888
1890	1887	Grange, W.	Napanee	A. W. Grang	1886	1888
1882	1882	Grant, W.	Orillia	H. Cooke	1886	1888
1882	1882	Grant, W. H.	Ottawa	J. Skinner & Co.	1882	1885
1885	1882	Gray, J. C.	Parkdale	R. Robinson, Toronto	1885	1888
1891	1882	Gray, J. N.	Hagersville	S. W. Howard	1884	1888
1882	1882	Gray, J. S.	Galt	Gibbard Bros.	1884	1891
1882	1890	Gray, John	Moorfield	George Crawford	1884	1885
1889	1890	Greatrix, W. R.	Belleville	W. R. Carmichael	1888	1890
1891	1890	Green, H. W.	Arthur	Dr. Robinson	1885	1888
1891	1890	Green, J.	Hamilton	McGregor & Park	1889	1890
1891	1890	Green, S. M.	Toronto	G. K. C. McGregor	1889	1890
1891	1890	Gregory, A. E.	Lindsay	E. Gregory	1889	1890
1891	1890	Gregory, W. H.	Lindsay	E. Gregory	1889	1890
1891	1890	Grimshaw, T. S.	London	T. Stevens, Orangeville	1891	1892
1891	1890	Guillemont, E.	Belleville	Cairncross & Lawrence	1889	1890
1891	1890	Gunn, J. A.	Durham	H. Parker	1889	1890
1891	1890	Gunn, C. H.	Woodstock	R. Stark	1889	1890
1891	1890	Guy, A. E.	Oshawa	W. Woon	1889	1890

NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Hackney, J. G.	Exeter	A. W. Harrison, St. Thomas	1888	
Hafly, Ross	Woodstock	J. White	1892	
Hagar, W. A.	Orangeville	T. Stevenson	1883	
Hagarty, T. M.	Toronto	Hargreaves Bros.	1891	
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
Hanna, G. H.	Paisley	W. A. Hargreaves	1884	1884
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.	Cananogue	T. H. McCollom	1888	1889
Hartley, D. S.	Toronto	I. McCammon	84-87	1888
Hartley, T. P.	Shelburne	C. A. Gamon	1890	1891
Hartman, W. N.	Clarksburg	C. Line	1890	1891
Harvey, E. C. F.	Watford	W. P. McClaren	1885	1886
Hassard, W. T.	Owen Sound	R. Wightman	1889	1890
Hauley, J. H.	Stratford	F. W. Meek	1889	1890
Hay, J. J. M.	Stratford	J. H. Nasmyth	1887	
Hay, V. R.	Watford	T. B. Taylor	1888	1889
Heard, T.	Amherstburg	C. M. S. Thomas	1884	
Hedley, R. A.	St. Mary's	O. Fraleigh	1886	
Hellems, H.	St. Catharines	W. W. Greenwood	1888	1889
Helmer, R. A.	Ottawa	Dr. Cook, Hull, Q.	1884	
Herod, Walter	Guelph	Herod & Co.	1891	1892
Hessey, C. E.	Orangeville	T. Stephenson	1889	1890
Hewitt, C. W.	Sparta	H. G. Eakins	1886	
Higginbotham, A.	Bowmanville	J. E. Higginbotham	1891	1892
Higginbotham, E.	Bowmanville	J. Higginbotham	1882	
Higginbotham, J. D.	Guelph	W. G. Smith & Co.	1882	
Hill, Chas. W.	Tilensburg	Wm. McDonald	1891	1892
Hill, E. B.	New Westminster, B.C.	B. S. Curtis & Co.	1888	1889
Hill, G. S.	Norwich	W. A. Kirk	1888	89-90
Hill, J. K.	Portage la Prairie	B. M. Canniff	1891	
Hill, R.	Norwich	H. J. Dager	1890	
Hinch, G. H.	Odessa	D. B. Booth	1886	1889
Hipwell, J. R.	Toronto	L. Curry	89-90-91	
Hosg, F. J.	Kingston	G. S. Hobart	1887	1888
*Hobart, S. W.	Kingston	G. S. Hobart	1885	1888
Hobbs, J. A.	Morden, Man.	G. W. McLaren, Nelson	1887	1888
Hodgson, J.	Brampton	R. Hodgson	1882	1886
Hodson, J. W.	Drayton	A. B. Petrie	1887	1888
Hoffman, J. W.	Waterloo	S. Snyder	86-88	1889
Hollingshead, J. R.	Tottenham	J. R. Bond	1887	
Hookway, Wm.	St. Mary's	T. S. Ryley	1890	1892
Hoolihan, A. B.	Peterborough	G. W. Morgan	1891	1891
Hopkins, C. H.	Belleville	D. M. Waters	1888	1889
Hooper, J. H.	Charlottetown, P.E.I.	G. E. Hughes	1887	
Horton, H. G.	Toronto	Sheriss & Conger	1890	1891
Hossack, Robt	Toronto	Elliot & Co.	1891	1892
Houston, T. W.	Tweed	Dr. Tuttle	1885	
Howard, E. T.	Hagersville	T. S. Howard	1891	1892
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
Hunter, G. A.	Clarksburg	C. W. Hartman	1882	

NAME.	
Iber, F. B.	Essex
Ivison, Wm.	Guelph
Jackson, E.	Simcoe
Jackson, W. D.	Guelph
James, F. W.	St. Catharines
James, J. B.	Toronto
Jefferys, T. W. G.	Welland
Jeffery, C. W. T.	Welland
Jeffery, E. M.	Welland
Johnson, J. F.	Orono
Johnson, Lowry	Orono
Johnson, Anna M.	Orono
Johnson, B. M.	Orono
Johnson, H. L.	Orono
Johnson, J. A.	Orono
Johnson, J. C.	Orono
Jones, A. H.	Orono
Jones, C. E.	Orono
Jones, C. R.	Orono
Kaitting, Wm.	Toronto
Kannawin, J. B.	Toronto
Karn, J. G.	Toronto
Kendall, W. T.	Toronto
Kennedy, A. G.	Toronto
Kennedy, Geo. A.	Toronto
Kernohan, R. Y.	Toronto
Kibblewhite, E. J.	Toronto
Kilgour, E. B.	Toronto
Kipp, H.	Toronto
King, W. A.	Toronto
Kirby, H. S.	Toronto
Kirby, R. H.	Toronto
Kirkpatrick, F. M.	Toronto
Knowles, E. W.	Toronto
Kyle, R. J.	Toronto
Lacourse, A.	Toronto
Lacourse, A. Jr.	Toronto
Lafamme, E. B.	Toronto
Lafleur, W. B.	Toronto
Lake, W. B.	Toronto
Lalonde, F. C.	Toronto
Landreth, J. H.	Toronto
Langley, W. F.	Toronto
Laurie, H. E.	Toronto
Larkins, G.	Toronto
Lattimer, W.	Toronto
Lewis, J. F.	Toronto
Lewis, H. P.	Toronto
LePatourel, T. A.	Toronto
Lewis, C.	Toronto
Little, G. J.	Toronto

ATTENDED.		NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
Aut.	Spring.				Aut.	Spring.
	1888	Iber, F. B.	Essex Centre.			1884
	1892	Iverson, Wm.	Guelph	W. G. Smith & Co.	1888	1889
1891	1883					
	1892					
	1884					
1890	1891	Jackson, E.	Simcoe	Hayes & Co.	1889	
1888	1889	Jackson, W. D.	Guelph	Herod & Co.	1887	1888
	1882	James, F. W.	Strathroy	W. J. Dyas.	1885	
	1886	James, J. B.	Toronto	Wm. Haldenby	1889	1890
	1888	Jefferis, T. W. G.	Toronto	B. G. Jefferies	1882	
1889	1890	Jeffrey, C. W.	Welland	H. W. Hobson		1886
1890	1891	Jenkins, W. T.	Bobcaygeon	Dr. McCamall	1886	
	1884	Jenkins, W. T.	Fenelon Falls	T. G. Rigley, Bethany.	1886	
	1892	Jewell, E. M.	Bowmanville	Stott & Jury		1883
82-84		Johnson, J. F.	Owen Sound	J. F. McCallum	1890	1891
1891		Johnson, Lowry	Minden	F. R. Curry	1891	
1891	1892	Johnson, Anna M.	Chatham	H. C. Hall, Detroit	1885	
1883		Johnson, B. M.	Toronto	S. W. Johnston		1883
	1883	Johnson, H. L.	Port Rowan	W. Scott, Toronto	1884	
1888	1889	Johnson, J.	Omenees	F. R. Curry, Minden	1888	1889
84-87	1888	Johnson, J. A.	Witby	W. R. Howse	1887	1888
1890	1891	Johnson, J. G.	Toronto	S. W. Johnston	1889	1890
1890	1891	Jones, A. H.	St. Catharines	A. Dukes & Co.	1889	
1885	1886	Jones, C. E.	Mitchell	J. W. Cull		1887
1888		Jones, C. R.	Tamworth	D. E. Rose	1889	1890
1889	1890					
	1887					
1888	1889	Kaitting, Wm.	Toronto	W. Gaynor	1891	1892
	1884	Kannawin, J. B.	Acton	N. McGavin		1887
1888	1889	Karn, J. G.	Woodstock	W. A. Karn		1887
1884		Kendall, W. T.	Dundas	W. C. Niblett	1890	1891
1891	1892	Kennedy, A. G.	Toronto	J. Wright	1882	
1889	1890	Kennedy, Geo. A.	Toronto	Hargreaves Bros.	1891	1892
		Kernohan, R. Y.	Ingersoll	R. Kneeshaw & Co.	1885	1885
		Kibblewhite, E. J.	Acton	J. F. Holden	1886	1887
1886		Kilgour, E. B.	Mt. Forest	W. Colclough	1890	1891
1891	1892					1884
	1882	Kipp, H.	London	W. Saunders & Co.		
1882	1892	King, W. A.	Orillia	H. Cook & Co.	1884	
1888	1889	Kirby, H. S.	Ottawa	A. Christie & Co.	1885	
1888	89-90	Kirby, R. H.	Ottawa	A. Christie & Co.	1888	1889
	1891	Kirkpatrick, F. M.	Galt	W. H. Lutz	1884	
1890		Knowles, E. W.	Guelph	W. G. Smith	1887	1888
1886	1889	Kyle, R. J.	Strathroy	W. J. Dyas		1889
89-90-91	90-92					
1887	1888					
1885	1888					
1887	1886					
1882						
1887	1888	Lacourse, A.	Hespeler	W. Saunders		1883
86-88	1889	Lacour, A. J.	Berlin	N. H. Jackson, Winnipeg		1885
	1887	Lafamme, E. B.	Ottawa	C. O. Dacier	1886	1886
	1891	Laidlaw, W.	Orillia	J. W. Slavin	1888	1889
1890	1892	Lake, W. B.	Toronto	S. N. Erbe	1886	1886
1891	1889	Lalonde, F. C.	Brockville	J. Williams	1885	1886
1888	1887	Landreth, J. H.	Galt	R. Ferrah	1888	1887
		Langley, W. F.	Victoria	Langley & Co.		1884
1890	1891	Laumie, H. E.	Bradford	T. Edmanson	1883	
1891	1892	Larkins, G. W.	Toronto	W. A. Howell, Hamilton	1884	
1883		Lattimer, W.	Toronto	W. S. Christie	1890	1891
1891	1892	Lavis, J. F.	Oshawa	R. A. Harrison	1888	1889
	85-86	Law, Chas.	Tilsonburg	C. Thomson	1891	1892
	1885	Lawrason, J. F.	Hamilton	Garland & Rutherford		1887
1889		Leach, W.	Napanee	D. E. Rose	1884	1886
1886	1887	Lee, J.	Woodstock	J. J. Hall & Co.		
1891	1892	Leitch, D. G.	Hamilton	Garland & Rutherford	1886	
1882		Lemaitre, J. F.	Toronto	E. G. Lemaitre	1889	
		Lent, H. P.	Ridgetown	E. Miller, Dresden	1886	1887
		LePatourel, T. A.	Burlington	A. Wilson & Co., Hamilton	1888	1889
		Lewis, C.	Toronto	C. H. Roach, Cork		1884
		Little, G. J.	Parkdale	G. A. Devlin	1883	



## ONTARIO COLLEGE OF PHARMACY

NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Little, J. ....	Ottawa	W. A. Lloyd	1883	
Lloyd, W. T. ....	Kettley	J. E. York	1889	1890
Lockie, J. A. ....	Hanover	W. H. Goodeve	1885	
Lockie, P. M. ....	Hanover	W. H. Goodeve	1888	1889
Logan, D. S. ....	St. Catharines	A. J. Greenwood	1887	1888
Loucks, J. A. ....	Campbellford	W. F. Loucks	1891	
Love, H. W. ....	Toronto	J. Dilworth	1890	1891
Luckham, J. ....	Alvinston	P. A. McDiarmid	1889	1890
Lusk, C. P. ....	Oakville	Dr. Urquhart	1886	
Lynch, C. A. ....	Toronto	H. Sherris	1883	
Lynch, J. ....	Peterborough	John Nugent	1890	1891
McAlpine, R. J. ....	Gore Bay	J. R. McGregor	1891	1892
McBrien, W. H. ....	Orangeville	T. Stevenson	1886	1886
McCallum, Jessie	New Hamburg	F. H. McCallum	1883	1883
McCamus, W. E. ....	Peterborough	J. D. Tulley	1891	
McCarthy, F. C. ....	Peterborough	H. S. Macdonald	1891	
McClintock, W. L. ....	Newmarket	W. Bentley	1885	1885
McColl, G. R. ....	St. Thomas	W. O. Foster & Co.	1886	
McCollom, J. F. ....	Milton	J. H. McCollom, Milton	1887	1888
McCormack, G. F. ....	Ottawa	H. Watters	1889	1890
McCrea, W. A. ....	Toledo	R. H. Kilborn	1891	1892
McDaniell, R. W. ....	St. Thomas	J. Dutton, Stratford	1887	1888
McDermid, N. L. ....	London	Harkness & Co.	1889	1890
McDonald, A. McG.	Acadia Mines, N.B.	Tippard & McDonald	1887	
McDonald, G. ....	St. Catharines	J. R. Seymour	1888	1890
McDonald, J. H. ....	Perth	J. Kellock	1889	1890
McDonell, J. J. ....	Cornwall	W. B. Thompson	1891	1892
McDougall, J. H. ....	Ottawa	A. Christie	1887	
McDougall, W. C. ....	Guelph	A. B. Petrie	1890	1891
McEachren, J. ....	Galt	E. E. Gibbard	1885	
McFarlane, R. ....	Durham	G. C. McFarlane	1882	
McGibbon, P. J. ....	Sarnia	R. D. Scott	1888	1890
McGillivray, D. J. ....	Whitby	W. R. Howse	1887	87-88
McGregor, J. R. ....	Welland	J. Cumines	1884	
McGuire, W. J. ....	Elmvale		1892	
McIntyre, J. ....	Toronto	Hargreaves Bros.	1890	1891
McIntyre, W. A. ....	St. Mary's	S. Fraleigh	1891	1891
McKay, J. ....	Toronto	J. R. Lee	1887	
McKeague, W. ....	Welland	H. W. Hobson	1888	1889
McKee, W. ....	Brighton	Dr. A. D. Lake	1889	1890
McKenzie, J. A. ....	Owen Sound	V. H. Chantler	1890	
McKenzie, J. L. ....	Dundalk	H. Parker	1887	1892
McKenzie, S. R. ....	Parkdale	G. A. Devlin	1888	1889
McKenney, J. ....	Ottawa	E. D. Martin	1888	
McKeown, J. S. ....	Belleville	R. Templeton	1891	1892
McKindsay, W. J. H. ....	Streetsville	Wm. Madill	1891	
McKinley, C. T. ....	Clarksburg	C. W. Hartman	1884	
McKurracher, J. D. ....	Kincardine	G. M. McKendrich	1883	
McLaren, D. H. ....	Almonte	M. Patterson	1884	
McLaren, J. W. ....	Mitchell	S. A. Hodges	1884	1885
McLarty, Jas. ....	Strathroy	F. W. Meek	1891	1891
McLaughlin, N. ....	Gorrie	C. J. Passmore	83-85	
McLean, F. W. ....	Aurora	G. W. Patterson	1886	
McLean, H. G. ....	Goderich	G. Rhynas	1884	
McLean, W. A. ....	Brockville	J. McLean, St. Mary's	1887	
McLeay, J. F. ....	Watford	W. P. McLaren	1890	1891
McLeary, R. H. ....	Bowmanville	Stott & Jury	1887	1888
McLellan, T. E. ....	Galt	C. J. Graham	1887	
McLennan, J. F. ....	Ottawa	H. Waters	1887	88-90
McLeod, J. A. ....	Cornwall	E. H. Brown	1885	
McLeod, J. B. ....	Kingston	W. T. C. Bethel	1883	
McMaster, Angus	Guelph	A. B. Petrie	1890	1891
McMaster, Jno. ....	Angus	W. B. Nesbitt	1890	
McMichael, R. W. ....	Mitchell	W. Cull	1887	1886
McMillan, A. M. ....	Ottawa	W. A. Lloyd	1887	1888
McMillan, D. ....	Collingwood	E. R. Carpenter	1887	1888

NAME.	
McPherson, G. S. ....	Stratford
McQuarrie, W. ....	Goderich
McRae, J. R. ....	Stratford
McRae, J. W. ....	Glenora
McRobie, John	Peterborough
McTavish, J. H. ....	Collingwood
McVey, W. ....	St. John
Madcock, P. F. ....	Guelph
Madill, W. R. ....	Toronto
Malley, W. T. ....	Sharnbrook
Marling, A. W., Rev.	Juba
Martin, E. W. ....	Heslop
Martin, J. E. ....	Barrie
Marshall, G. W. ....	Toronto
Marshall, J. A. ....	Peterborough
Marshall, W. G. ....	Motat
Mason, F. H. ....	Toronto
Mason, R. A. ....	Manitowish
Matthew, D. J. ....	Oshawa
Maxwell, W. H. ....	Toronto
May, J. W. ....	Stratford
Mearns, E. C. ....	Orillia
Meek, W. H. ....	Orillia
Meldrum, D. G. ....	Toronto
Meldrum, H. ....	Fergus
Menger, W. S. ....	Cambridge
Mengies, A. W. ....	Cambridge
Mercer, F. B. ....	Toronto
Merrill, Frank	Brantford
Middough, L. ....	Thamesville
Millard, C. T. ....	Orillia
Miller, R. N. ....	Toronto
Millman, J. T. ....	Burlington
Mills, F. W. ....	Burlington
Mills, G. W. ....	Orillia
Mitchell, D. J. ....	Kitchener
Mitchell, E. C. ....	Kitchener
Mitchell, W. J. ....	Welland
Mittleberger, G. B. ....	Toronto
Montgomery, W. R. ....	Toronto
Mooney, G. S. ....	Toronto
Morgan, L. P. ....	London
Morrow, A. E. ....	London
Morrow, T. ....	London
Moyer, A. B. ....	Toronto
Muir, R. S. ....	Stratford
Muir, T. A. ....	Stratford
Mulligan, R. J. ....	Stratford
Munro, E. D. ....	Stratford
Murchison, W. ....	London
Musgrove, I. J. T. ....	London
Naismith, J. ....	Stratford
Nash, C. M. ....	Stratford
Naylor, R. ....	Stratford
Neff, H. C. ....	Stratford
Neff, J. E. ....	Stratford
Newton, C. H. ....	Stratford
Nicholson, J. H. ....	Stratford
Noble, W. G. ....	Stratford
Noecker, L. A. ....	Stratford
Norris, R. ....	Stratford



ATTENDED.		NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
Aut.	Spring.				Aut.	Spring.
1889	1883	McPherson, G. S.	Strathroy	F. W. Meek	1884	
1885	1890	McQuarrie, W.	Goderich	F. P. Reynolds, St. Thomas	1887	
1888		McRae, J. R.	Peterborough	J. McKee		1885
1887	1889	McRae, J. W.	Glencoe	M. F. Barclay	1891	1892
1891	1888	McRobie, John	Petrolia	Chas. Lewis	1890	91-92
1890	1892	McTavish, J. H.	Collingwood	T. Greaves	1886	1887
1889	1886	McVey, W.	St. John, N.B.	R. W. McCarty	1886	
1883						
1890	1891					
		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
1891	1892	Marling, A. W., Rev.	Tuba, Africa	A. G. McBean		1884
1886	1886	Martin, E. W.	Hespeler		1890	
	1883	Martin, J. E.	Niagara Falls	R. P. Skinner		1885
1891		Marshall, G.	Bartie	J. Woods		
1891		Marshall, G. W.	Toronto	E. J. Waugh	1885	
1885	1885	Marshall, J. A.	Port Hope	R. Deyell	1889	1883
1886		Marshall, W. G.	Mount Forest	L. H. Yeomans		
1887	1888	Mason, F. H.	Toronto	Dr. J. Ogden	1886	
1889	1890	Mason, R. A.	Markham	W. Miller & Co.	1889	
1891	1892	Matthew, D. J.	Stratford	J. H. Nasmyth & Co.	1883	
1887	1888	Maxwell, W. H.	Oshawa	W. T. Atkinson	1885	
1889	1890	May, J. W.	Toronto	W. J. Rose	1884	
	1887	Mears, E. C.	St. Catharines	Jas. Mills	1882	1890
1888		Meek, W. H.	Orangeville	H. S. Webber		1891
1889	1890	Meldrum, D. G.	Toronto	F. T. Burgess	1890	
1891	1892	Meldrum, H.	Fenelon Falls	W. E. Ellis	1890	1890
1887		Menger, W. S.	Elmira	Walsley & Merner	1889	1888
1889		Mengies, A.	Carleton Place	D. F. McEwan	1884	
1890	1891	Mercer, F. B.	Toronto	May & Co.	1882	1885
	1885	Merrill, Frank	Brantford	D. S. Sager		1892
1882		Middough, L.	Thorold	Charles A. Kyle	1889	
1888	1890	Millard, C. T.	Orillia	E. H. Robinson		1885
1887	87-88	Miller, R. N.	Tamworth	F. C. Clark	1890	1891
	1884	Millman, J. T.	Guelph	A. B. Petrie	1883	1887
	1892	Mills, F. W.	Brantford	McGregor & Parks	1889	
1890	1891	Mills, G. W.	Oakland	McGregor & Parks, Brantford	1887	1888
1891		Mitchell, D. J.	Kingston	N. C. Polson & Co.	1884	
1887		Mitchell, E. C.	Kingston	W. J. Wilson	1885	
1888	1889	Mitchell, W. J.	Watford	G. A. McAnn, Wallaceburg	1886	
1889	1890	Mittleberger, G. B.	Toronto	S. W. Johnston	1889	
1890		Montgomery, W. R.	Lakefield	S. Henderson	1891	
1887	1892	Mooney, G. S.	Toronto	H. M. Kipp	1888	85-89
	1883	Morgan, L. P.	Lindsay	A. Higginbotham	1885	
1888	1889	Morrow, A. E.	Cobourg	J. E. Kennedy		1885
1891	1892	Morrow, T. A.	Chatsworth	J. W. Elliot	1882	
1884	1891	Moyer, A. B.	Toronto	H. A. Kofwies	1890	1891
1883		Muir, R. S.	Port Elgin	G. B. Smith & Co.		1884
		Muir, T. A.	St. Thomas	F. B. Reynolds		1886
1884	1884	Mulligan, R. J.	Omeme	Dr. Higginbotham		1889
1885	1885	Munro, E. D.	St. Thomas	F. P. Reynolds	1891	1892
1891	1892	Murchison, W.	Lucknow	Dr. Tennant	1886	
1886	83-85	Musgrove, I. J. T.	Ottawa	J. A. Musgrove	1891	1892
	1884					
	1887					
1890	1891					
1887	1888	Naismith, J.	Pembroke	I. & J. H. Walford, Renfrew	1888	1889
1884		Nash, C. M.	Belleville	Dr. Nash	85-87	1886
1887	88-90	Naylor, R.	Lindsay	H. Howard, Toronto		1885
1885		Neff, H. C.	Chatham	R. S. Priddy		1883
1883		Neff, J. E.	Port Colborne	F. D. Thine & Son	1882	
1890	1891	Newton, C. H.	Tara	R. C. Bruce		1885
1890		Nicholson, J. H.	Strathroy	W. J. Dyas		
1886	1886	Noble, W. G.	Coleman	B. E. McKenzie	1888	1889
1887	1888	Noecker, L. A.	Waterloo	Herod & Co., Guelph	1889	1890
1887	1888	Norris, R.	Elora	T. P. Smith	1890	1891

NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
			Aut.	Spring.
Oakley, A. F.	Toronto	Dr. F. Oakley	188-89	
O'Connor, H. B.	Teeswater	R. N. Thurtell	1889	1890
Oldham, S.	Tamworth	T. Hopkins	1891	1892
Orchard, C. E.	Newcastle	R. Fothergill	1882	
Packert, H. M.	Stratford	J. H. Nasmyth	1891	
Parker, C. E.	Striling	Robert Parker	1891	1892
Parker, C. W.	Toronto	R. Robinson	1891	1892
Parkes, G.	Hamilton	A. W. Harrison, St. Thomas	1885	
Patrick, R. A.	London	Geo. Harkness	1890	
Paxton, F. G.	Port Perry	S. E. Allison	1887	
Peaker, G. A.	Brampton	R. G. Hodgson	1890	1891
Pearen, J. M.	Toronto	J. Wright & Co.	1883	
Pement, T.	Hull	R. J. Mills, Ottawa	1891	1892
Pentland, J.	Drumbo	H. E. Lannin	1890	
Pepper, P. F.	Millgrove	Blackader & Mills	1883-84	
Pethick, J.	Stratford	G. H. Waugh	1883	
Petrie, A. B.	Guelph	John A. Clark	1888	
Petrie, G. M.	Toronto	Lemaître & Tuthill	1891	1892
Phillips, O. N.	Aurora	S. H. Ashton	1883	
Phin, J.	Guelph	W. G. Smith & Co.	1891	1892
Piper, D. N.	London	Dr. Piper	1884	
Playter, C. P.	Toronto	J. R. Lee	1887	1888
Pollard, W. N.	Bethany	T. G. Brereton	189-91	
Pollock, R.	Galt	W. H. Lutz	1885	
Poole, W. G.	Dunnville	R. A. Harrison		1884
Porter, J. S.	Seaforth	J. S. Robert		1884
Powell, H.	Aurora			1884
Price, F. R.	Markdale	F. Jordan	1887	1888
Proctor, H. T.	Harriston	W. B. Smith	1888	1890
Pulford, W.	Stonewall, Man.	Dr. T. W. Fulford		1883
Quirk, T.	Cobourg	Dr. E. C. McNicholl	1885	
Radcliffe, J. H.	Granton	Dr. Lang	1884	1885
Radley, E. C.	Chatham	S. B. Radley	1887	
Ralph, R. E.	Hamilton	M. Mundy	1885	
Rand, A. V.	Wolfville, N.S.	Geo. V. Rand	1891	1892
Randall, J. DeW.	St. Catharines	A. J. Greenwood	1886	
Raney, W. H.	Prescott	A. O. Harding	1888	1889
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
Reekie, R. P.	St. Thomas	R. J. Old	1891	1892
Reid, R.	Mt. Forest	L. H. Yeomans	1890	
Reynolds, S.	St. Catharines	Dr. S. S. Sproule	1883	
Rice, C. A.	Markdale	A. Jukes & Co.	1889	1887
Rice, J. B.	Woodstock	W. A. Karn	1889	
Richards, W. A.	Ottawa	A. Christie & Co.	1884	
Rickey, E.	Prescott	A. O. Harding	1891	1892
Riddell, W. C.	St. Catharines	A. J. Greenwood	1888	1890
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	R. P. Skinner	1887	1888
Robertson, H. R.	Sarnia	R. D. Scott	1891	
Robertson, W. S.	Perth	J. F. Kellock	1884	
Robinson, D.	Kingston	G. S. Hobart	1891	1892
Robinson, E. F.	Yorkville	W. S. Robinson		1882

NAME.	NAME.
Robinson, J. S.	Collings
Robinson, L. P.	Toronto
Roblin, W. H. L.	Amelias
Robson, E.	London
Roche, H. P.	Kings
Roger, W. H.	Ottawa
Rogers, G. E.	Norwic
Rogers, H. J.	Ottawa
Ross, A. J.	Waterl
Roseburg, R. M.	Toront
Rose, C. H.	Tamwc
Rose, M. C.	Toront
Ross, J. G.	Embro
Rowan, J. E.	Tilson
Rowland, Thos.	Mount
Rowntree, R.	York,
Roy, H. C.	Toront
Ruby, C.	Berlin
Rudd, A. B.	Perth
Ruddell, W. A.	Hespe
Rust, T.	Toran
Ruston, F.	Georg
Rutherford, R.	Peterl
Ryall, H.	Paris
Ryall, S.	Paris
Ryley, A. A.	Betha
Sadler, G. J.	Ottav
Sampson, N.	Norw
Sanderson, M.	Milte
Sanderson, T. G.	St. M
Sangster, E.	Ham
Sargant, B. M.	Ham
Sawtell, E. T.	King
Sawyer, A. D.	Wall
Sawyer, R. W.	Wall
Sayers, G. W.	Buffi
Scarlett, E.	Cobi
Scarlett, R. A.	Cobi
Schofield, G. A.	Pete
Scott, C. S.	Parl
Scott, P. L.	Sarr
Scott, R. W.	Woc
Scott, T. W.	Bra
Scott, W.	Pict
Seeds, S. A.	Sim
Shand, A.	Sim
Sharp, W. R.	Bo
Shaw, F. A.	Ott
Shaw, W. J.	Ott
Shaunesy	Pre
Shearer, C. W.	Sta
Shepherd, H. C.	Tor
Sherk, M. G.	Bo
Sherrin, G. A.	Bo
Sherrin, G. A.	Ha
Shildrick, E. H.	Ott
Shillington, R. T.	Ott
Shoff, E.	Th
Short, W. H.	De
Sieveright, A. P.	To
Sine, C.	Sti
Skinner, H. W.	Ott
Slaven, R. R.	Ott
Smallwood, Wm.	Ch
Smellie, J. H.	Ch
Smith, E. R. L.	Ha

ATTENDED. Aut. Spring.	NAME.	ADDRESS.	PRECEPTOR.	ATTENDED.	
				Aut.	Spring.
1-89	Robinson, J. S.	Collingwood	A. H. Johnston		1887
89	Robinson, L. P.	Toronto	W. H. Cox		1885
891	Roblin, W. H. L.	London	Andrew Jeffrey	1888	1889
882	Robson, E.	Ameliaaburg, P.E. Co.	W. E. Saunders & Co.	1890	
	Roche, H. P.	Kingston	J. C. King	1882	
	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
	Roos, A. J.	Waterloo	S. Snyder	1884	1885
891	Roseburg, R. M.	Toronto	W. J. Davidson	1889	
891	Rose, C. H.	Tamworth	D. D. Rose	1891	1892
885	Ross, M. C.	Toronto	R. W. Boyle	1890	1891
890	Ross, J. G.	Embro	R. A. Duncan		1889
887	Rowan, J. E.	Tilsonburg	T. Flood, Southampton	1884	
890	Rowland, Thos.	Mount Albert	Dr. D. Gould	1888	
883	Rowntree, R.	York, Eng.	R. Dresser	1883	
891	Roy, H. C.	Toronto	L. Hooper & Co.	1883	
	Ruby, C.	Berlin	H. E. Neville	1890	1891
883	Rudd, A. B.	Perth	Dr. H. C. Rudd		1886
891	Ruddell, W. A.	Hespler	A. G. McBean	1891	
883	Rust, T.	Toronto	Dr. W. Armstrong	1886	
891	Ruston, F.	Georgetown	T. Ruston		87-88
883	Rutherford, W.	Peterborough	J. W. Tully	1883	
891	Ryall, H.	Paris	G. L. Scott		1886
884	Ryall, S.	Paris	G. L. Scott	1891	
887	Ryley, A. A.	Bethany	T. G. Ryley		1887
885					
1884					
1884					
1884					
1889					
1883					
84	Sadler, G. J.	Ottawa	E. D. Martin	1890	1891
87	Sampson, N.	Norwich	D. M. Kirk		1887
86	Sanderson, M.	Milton	J. H. McCollum		1883
85	Sanderson, T. G.	St. Mary's	S. Fraleigh	1889	1890
91	Sangster, E.	Hamilton	Harrison Bros.	1889	1891
88	Sargant, B. M.	Toronto	E. Hooper & Co.	1891	1892
91	Sawtell, E. T.	Hamilton	H. S. Webber, Orangeville	1887	1888
84	Sawyer, A. D.	Kingston	G. S. Hobart	1883	
87	Sawyer, R. W.	Wallaceburg	G. A. McAnn	1889	1890
86	Sayers, G. W.	Buffalo, N.Y.	E. J. Liebetnet	1885	
85	Scarlett, E.	Cobourg	R. Wilson	1883	
84	Scarlett, R. A.	Cobourg	R. Wilson		1886
87	Schofield, G. A.	Peterborough	J. McKee	1885	
86	Scott, C. S.	Newmarket	Dr. Bentley	1883	1884
85	Scott, P. L.	Paris	G. L. Scott		1887
91	Scott, R. W.	Sarnia	Dr. T. G. Johnston	1884	
88	Scott, T. W.	Woodstock	Scott & White		1883
87	Scott, W.	Bradford	T. Edmanson	1891	1892
86	Seeds, S. A.	Pictou	E. W. Case	1887	1888
85	Shand, A. J.	Simcoe	J. Austin & Co.		1886
91	Sharp, W. R.	Brampton	C. Stork & Co.	1890	1891
91	Shaw, F. A.	Bowmanville	D. Secord, Ingersoll	1884	
90	Shaw, W. J.	Ottawa	John Roberts	1888	1889
89	Shaunessy, W.	Toronto	G. A. Bingham	1889	1890
88	Shearer, C. W.	Preston	E. J. Duck	1891	1892
87	Shepherd, H. C.	Stayner	W. B. Sanders	1891	1891
86	Sherk, M. G.	Toronto	F. T. Burgess	1890	
85	Sherin, G. A.	Bowmanville	H. Higginbotham & Co.		84-85
84	Sherin, G. A.	Peterborough	G. A. Sherrin, St.		1887
83	Shildrick, E. H.	Hagersville	S. W. Howard	1891	1892
82	Shillington, R. T.	Ottawa	Dr. Shillington	1888	1889
81	Shoff, E.	Thorndale	McKechnie & Weebe	1887	
80	Short, W. H.	Deseronto	W. G. Egan	1883	
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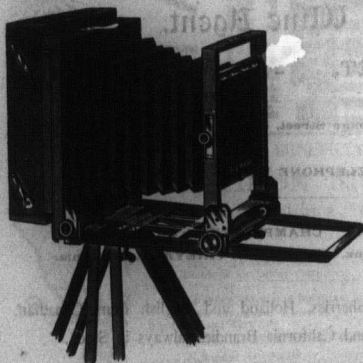
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Darley's Condition Powders  
" Black Oil  
Durham Spice  
Gantz Insect Powder  
Soper's Salve  
Shoshonees Remedy and Pills  
Handy Package Dyes

Northrop & Lyman Co., Limited,

21 FRONT ST. WEST

Toronto, Ont.

# A SMALL DOSE ! A QUICK CURE ! Permanent Health!!

For Ten Dollars (Cash with the order)

I will send to any Druggist in the Dominion of Canada—all charges prepaid to nearest express office—the following Sample Assortment of Brushes and Combs, with a detailed invoice giving cost price if re-ordered. I began the Druggists' Sundries business last year, with an ENTIRELY NEW STOCK. I have no job lots to get rid of; only new goods, latest styles at bottom prices. This offer is made not to sell ten dollars worth of goods, but to introduce to you for comparison, the best value to be had in Canada.

## CONTENTS OF THE SAMPLE ASSORTMENT:

		RETAIL PRICE
No. 101.	One New Patent Solid-Back Hair Brush, Oval Cherry	\$0 30
" 102.	" G. B. Kent & Sons' 11-Row all Bristle Hair Brush, Oval Cherry	0 50
" 103.	" French Solid-Back Oval Olive-Wood Hair Brush	0 60
" 104.	" G. B. Kent & Sons' all Bristle Screw-Back London Hair Brush, large oval, 14-row	0 60
" 105.	" Olive-Back 12-Row Medium-cut all White Bristles	0 75
" 106.	" Rosewood-Back 13-Row, Shaped, Medium-cut, White Bristles	1 00
" 107.	" Penetrating Hard Bristle 17-Row G. B. Kent & Sons' Special	1 00
" 108.	" Satin Wood Back, Long-Oval Lady's Brush, extra quality Bristles	1 00
" 109.	" Broad-Oval 14-Row Medium-Cut, all White Bristles	1 00
" 110.	" Long-Bristle Large-Oval 15 Row Hair Brush, very full and close	1 25
" 111.	" " Lady's Brush, Solid-Back, best Paris make	1 25
" 112.	" New Style, Square, Mahogany, Selected Bristle, new shaped handle	1 50
" 113.	" Fibre Clothes Brush, Grooved Varnish Back	0 13
" 114.	" Extra Long, Colored-Fibre Clothes Brush, Fancy Back	0 25
" 115.	" Family Brush, Roach Back, White Bristles, Black Centre	0 35
	Six Tooth Brushes, assorted, each, 10 cents	0 60
	" Superior 25c. Tooth Brushes	1 50
	Three special Shaving Brushes, China Handle, Imitation Badger, &c.	0 75
	One dozen I. R. Dressing Combs, assorted to retail from 10 to 25c. each	2 00

Total Retail Value.....\$16 33

## ADDRESS:

**HARRIS H. FUDGER,**  
Wholesale Fancy Goods and Notions

DRUGGISTS' SUNDRIES, TOILET SOAPS AND PERFUMERY, MIRRORS, MANICURES,  
DRESSING CASES, TOURISTS' CASES, FITTED BAGS, ETC.,

**50 YONGE ST., TORONTO.**