

Maryland University

SIXTIETH
ANNUAL ANNOUNCEMENT
1903—1904

THE MARYLAND



COLLEGE OF PHARMACY

109-115 AISQUITH STREET
BALTIMORE, MARYLAND

THE ANNUAL COURSE OF INSTRUCTION IN THIS COLLEGE WILL COMMENCE ON OCTOBER 1, 1903, AT 9 O'CLOCK A. M., AND WILL CONTINUE UNTIL MAY 13, 1904.

ROSTER.

JUNIOR CLASS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9:00-10:00 A. M.	Lecture on Pharmacy			Lecture on Chemistry		
10:00-11:00 A. M.	Lecture on Botany		Practical Chemistry January 20-April 22	Lecture on Botany	Practical Chemistry January 20-April 22	Review in Chemistry
11:00-12:00 A. M.	Lecture on Chemistry			Lecture on Pharmacy		
12:00-1:30 P. M.	Microscopy		Microscopy			Microscopy
2:00-3:00 P. M.		Review in Pharmacy Commercial Pharmacy, October 2-January 22			Review in Botany Commercial Pharmacy, October 2-January 22	
3:00-5:20 P. M.		Practical Pharmacy January 26-April 26			Practical Pharmacy January 26-April 26	

SENIOR CLASS.

9:00-10:00 A. M.		Lecture on Chemistry				Review in Pharmacy
10:00-11:00 A. M.		Lecture on Materia Medica	Practical Chemistry October 2-January 15		Practical Chemistry October 2-January 15	
11:00-12:00 A. M.		Lecture on Pharmacy				
12:00-1:30 P. M.					Microscopy	
2:00-3:00 P. M.	Review in Materia Medica		Review in Chemistry	Lecture on Chemistry		
3:00-5:30 P. M.	Practical Pharmacy October 5-January 20 Dispensing Pharmacy January 25-April 27		Practical Pharmacy October 5-January 20 Dispensing Pharmacy January 25-April 27	Lecture on Materia Medica		
				Lecture on Pharmacy		

CALENDAR OF SESSION 1903-1904.

The Session will open September 24, 1903, and close May 13, 1904.

1903

September 24.
September 25.

Fall examinations
for admission to
the Senior Class.

8 A. M.—Microscopy
and Analytical
Chemistry.
3 P. M.—Chemistry.
9 A. M.—Botany and
Materia Medica.
3 P. M.—Pharmacy.

September 28th, 9 A. M.—Examination for Matriculation.
October 1st, 9 A. M.—Junior Lecture Course begins.
October 1st, 2.30 P. M.—Senior Lecture Course begins.
October 2d, 9 A. M.—Senior Chemical Laboratory opens.
October 2d, 12 M.—Advanced Microscopy Course begins.
October 2d, 3 P. M.—Junior Pharmacy Laboratory opens.
October 5th, 12 M.—Junior Microscopy Course begins.
October 5th, 3 P. M.—Senior Pharmacy Laboratory opens.
October 12th, 2 P. M.—Senior Reviews begin.
October 13th, 2 P. M.—Junior Reviews begin.
November 26th.—College closed (Thanksgiving Day.)
December 23d, 5.30 P. M.—College closes for the Christmas Vacation.

1904

January 4th, 9 A. M.—College re-opens.
January 15th, 9 A. M.—Senior Examination in Practical Chemistry.
January 20th, 9 A. M.—Junior Practical Chemistry begins.
January 20th, 3 P. M.—Senior Examination in Practical Pharmacy.
January 22d, 3 P. M.—Junior Examination in Commercial Pharmacy.
January 12th and 19th, 9 A. M. and 21st, 3 P. M.—Senior Intermediate Examinations.
January 14th, 18th and 21st, 9 A. M.—Junior Intermediate Examinations.
February 22d.—College closed (Washington's Birthday.)
March 31st—April 5th.—College closed for the Easter Holidays.
April 20th.—Date fixed for Presentation of Letters and Payment of Graduation Fees.
April 22d, 9 A. M.—Junior Examination in Practical Chemistry.
April 22d, 2 P. M.—Examination in Advanced Microscopy.
April 26th, 9 A. M.—Junior Examination in Practical Pharmacy.
April 27th, 9 A. M.—Senior Examination in Materia Medica.
April 27th, 3 P. M.—Junior Examination in Microscopy.
April 28th, 3 P. M.—Senior Examination in Dispensing Pharmacy.
April 29th, 9 A. M.—Junior Examination in Chemistry.
April 29th, 3 P. M.—Senior Examination in Pharmacy.
May 2d, 9 A. M.—Senior Examination in Chemistry.
May 2d, 3 P. M.—Junior Examination in Pharmacy.
May 3rd, 9 A. M.—Senior Examination in Pharmacognosy.
May 4th, 3 P. M.—Junior Examination in Materia Medica.
May 13th, 3 P. M.—Closing Exercises (Commencement Day.)

OFFICERS OF THE COLLEGE.

President—CHARLES E. DOHME, PH. G.

1st Vice-President—HENRY A. ELLIOTT.

2d Vice-President—COLUMBUS V. EMICH.

Treasurer—SAMUEL MANSFIELD.

Secretary—CHARLES H. WARE, PH. G.

Board of Examiners.

JOHN A. DAVIS, PH. G.,

J. EDWIN HENGST, PH. G.,

LOUIS SCHULZE, PH. G.

FACULTY.

WILLIAM SIMON, PH. D., M. D.

Emeritus Professor of Chemistry.

CHARLES CASPARI, JR., PH. G.,

Professor of Theoretical and Applied Pharmacy, Dean of the Faculty.

109 Atsquith St., Baltimore, Md.

DAVID M. R. CULBRETH, A. M., PH. G., M. D.,

Professor of Materia Medica, Botany and Pharmacognosy.

DANIEL BASE, PH. D.,

Professor of Chemistry and Vegetable Histology.

HENRY P. HYNSON, PH. G.,

Professor of Dispensing and Commercial Pharmacy.

ADJUNCT FACULTY.

CHARLES SCHMIDT, PH. G.,

Associate Professor of Pharmacy.

JOHN P. PIQUETT, PH. G.,

Associate Professor of Materia Medica and Botany.

H. A. B. DUNNING, PH. G.,

Associate Professor of Chemistry.

LABORATORY ASSISTANTS.

HENRY L. TROXEL, PH. G., Chemistry.

E. F. KELLY, Phar. D., Pharmacy.

FRANTZ NAYLOR, PH. G., Dispensing.

The Maryland College of Pharmacy



Historical. This institution was organized as early as 1840, and has, with but one short intermission, previous to 1856, continuously exercised its functions as a teaching school of Pharmacy.

Reference to its records shows it to have always been among the first to adopt advanced methods, and the standards it has ever set and maintained have equaled the highest. It was the first School of Pharmacy to employ separate professors for all branches taught; it is the pioneer in establishing laboratories for practical teaching and exercise; it took the initiative in providing adequate buildings for advanced teaching; it was among those which early added Microscopy, Pharmacognosy, Volumetric Analysis, etc., as distinct branches. The last to be added is the Department of Practice, where students will be given better and larger experimental knowledge than can be obtained in the average drug store.

No matter what the special line may be—whether it is in science, literature, manufacture, collecting or dispensing—if it is in pharmaceutical matters that success has been attained, this College is conspicuous by the influence it has lent.

Policy. From the very beginning of its career until now, the chief purpose of this College has been to prepare its matriculants for the intelligent practice of Pharmacy, as it appears in the retail drug store. It does not, however, overlook the fact that there exist three distinct divisions of the profession—collection, preparation and dispensing—the jobber, manufacturer and retailer—that all need to be scientifically taught and that each will secure, through a few years of properly directed study, information which a life-long experience will fail to give. With a full understanding of the kind of scientific knowledge required for each of these several branches, the College has so arranged its curriculum that it may, by promulgating accepted theories and unmistakable facts, build for the students a well-ordered foundation, upon which the most accomplished pharmaceutical specialist can be best elaborated.

Admission of Women. This College admits women, believing it is assisting them to acquire a profession for which they are particularly well fitted, and which will afford them a congenial vocation for earning a livelihood. They are admitted upon equal terms with men, and will always receive the consideration due their sex.

Special provision has been made for their comfort, and every possible effort will be extended, in order that their attendance may be both pleasant and profitable.

Practical Experience. While four years of *employment* in a drug store is still upheld by some colleges as a requisite for graduation, it is believed it will be found, upon close investigation, that shop training, although valuable, should not be made a requirement for a degree in a professional school. In medical colleges and schools of dentistry no such experience is required; in fact, could not be furnished if required, while in these schools, as in the



A CORNER IN THE "LADIES' STUDY."

colleges of pharmacy of the present day, practical training is furnished in the respective laboratories and clinics. Consequently, the Maryland College of Pharmacy, several years ago, abolished, as an essential, the apprenticeship requirement, which had been established at a time when practical instruction did not form a part of the College curriculum, and which oftentimes had prevented the apprentice and future pharmacist from securing even a good common school education. If we would meet demands of the times, have educated matriculants, we should not make this impossible by compelling the prospective student to withdraw from the academy when he has scarcely passed its doors, to spend these precious years doing errands and janitor work in a drug store.

It is not intended, however, to lead prospective students of pharmacy to underestimate the advantages accruing from a knowledge of the contents and appliances of a drug store or familiarity with its daily routine, but to urge them to secure employment, if possible, in a well-equipped pharmacy for a year or two before entering college.

Two and Three Year Courses. Much confusion may exist in the minds of prospective students regarding their respective values. At first glance it would appear as if a three-year course offered fifty per cent. more instruction than one of two years; such however, is not the case, since the annual sessions of a three-year course extend over but six or six and one-half months, as against seven to eight months of a two-year course. In addition, the total number of hours devoted to compulsory instruction, as a requisite to graduation, varies from six hundred to ten hundred and thirty-six in the three-year courses and from eleven hundred and thirty to twelve hundred and seventy-one in the two-year courses, showing conclusively that the actual time demanded for lectures and laboratory instruction in the three-year courses is from ten to fifty per cent. less than that required in the two-year courses. Attendance upon optional or elective studies, at a college, cannot be taken into consideration, as this will vary greatly with the inclination of the student, and is never a requirement for the diploma. Moreover, the two-year colleges also offer one or more elective branches to their students in addition to the regular curriculum.

Those contemplating the study of Pharmacy should not be misled by the statement of the number of years over which a full college course is spread, but should study carefully the "Announcements," especially the hours of compulsory instruction, in order to ascertain where they may derive the greatest value for the expenditure of time and money.

The Maryland College of Pharmacy, after very careful reflection, will continue the two-year courses of instruction, because it is to the best interests of the students, both from an educational and financial point of view. *The sessions of the Junior and Senior Courses are extended to cover a period of thirty-two weeks each, and the possible instruction, both didactic and practical, during two such terms, is considered to be fully equal, and in some cases superior, to that imparted during the shorter sessions of a three-year course, with their attendant interruptions, while the student expends very much less money for tuition, in traveling and for board.*

Curriculum and Degrees. As now arranged, the curriculum of this College must be acknowledged to be a most complete and creditable one. It is comprehensive and practical, and

comprises only such studies as will give to the student that kind of knowledge and practice which will enable him to intelligently meet the requirements of his profession. It contemplates, as a foundation or beginning, the thorough teaching of the general sciences upon which a pharmaceutical education is to be built. Chemistry, Physics, Botany, Vegetable Histology are these, and to them are added the special branches: Pharmacy, in its most comprehensive form, including both theory and practice, Materia Medica, organic and inorganic, Therapeutics, Posology and Toxicology.

A full course consists of attendance upon all lectures and reviews and the performance of the laboratory work required during a Junior and Senior session, as offered by this College. The Senior attendance must be at this College and the Junior work must be done at this College or at a school or college which has membership in the Conference of Pharmaceutical Faculties.

The degree of Doctor of Pharmacy (Phar. D.) will be conferred upon students who have attended the full prescribed course and have attained the required rating in all examinations.

The degree of Graduate in Pharmacy (Ph. G.) will be conferred upon such students as elect a *modified course*, which is provided for those who are not desirous of following the more advanced studies, but wish to prepare themselves to meet the requirements of State Boards and become fitted to transact the ordinary business of the store.

This modified course differs from the regular one in the omission of the Senior Work in: Vegetable Histology; Assay of Drugs; Urinary Analysis and a portion of Volumetric Chemical Analysis; also, the lectures on Systematic and Physiological Botany. While the examination will not, of course, embrace the subjects omitted from the regular course, the same standard of efficiency will be required that obtains in the course for the higher degree.

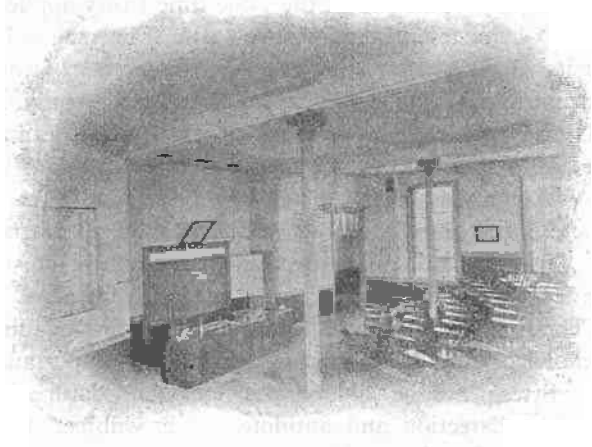
Students who take the course leading to the degree of Doctor of Pharmacy and do not meet the requirements of same, will not be given the privilege of taking the lower degree but will be declared unsuccessful.

Any Graduate of this College may obtain the degree of Doctor of Pharmacy upon the payment of the required fee and the successful completion of those courses or parts of courses, in the present curriculum, which were not taken or were not offered during his attendance at this College.

A full course of instruction consists of two sessions of thirty-two weeks each, a Junior Course and a Senior Course. The details of the subjects in these courses are given farther on.

Students should not fail to be present at the opening of the session, in order to derive full benefit from the earliest lectures.

To meet the wishes and convenience of those who desire to spend more time in drug-store employment while attending College, students may extend their studies over three or more years, passing off certain subjects each year. A successful examination in any subject will be final. This arrangement applies to both Junior and Senior students.



CHEMICAL LECTURE HALL

Chemistry—Prof. Base. Provision for a complete course, both theoretical and practical, is made. The benefit of this Chemical training is of incalculable value to the Pharmacist. It includes a thorough study of the fundamental properties of matter, the natural laws controlling it, and, besides familiarizing him with the nature and manufacture of a great number of the most important medicinal agents, it enables him to verify the purity and value of such articles as are constantly passing through his hands.

All lectures in this department are amply illustrated by experiments, and no effort is spared to render the course thoroughly instructive; the main object being to present the science as a whole and, at the same time, point out those facts which bear a special relation to Pharmacy.

JUNIOR COURSE. Several lectures at the beginning of the course will be devoted to the brief study of Physics, in which the constitutional and fundamental properties of matter, the phenomena of electricity and heat, along with their application and service in Pharmaceutical and General Chemistry, will be treated. A few succeeding lectures will be devoted to the teaching of the modern

theories and laws of Chemistry. The remainder of the course will embrace a study of the non-metallic and the greater number of metallic elements, including the consideration of their compounds, with special reference to those of interest to the Pharmacist. At proper intervals during the study of the elements, those laws and theories will be introduced in logical order, which are necessary to a proper understanding of the science of chemistry.

SENIOR COURSE. At the beginning of the course a number of lectures will be devoted to a consideration of Volumetric Analysis, which is a very important and at the same time easily applied branch of Analytical Chemistry, its importance to the Pharmacist being enhanced by its incorporation among the requirements of the United States Pharmacopœia. This will be followed by the study of carbon compounds or Organic Chemistry, which constitutes the major portion of the Senior Course. The general features and constitution of the groups of compounds, as alcohols, ethers, acids, fats, sugars, alkaloids, etc., will be pointed out and important members studied in detail. The formation in nature and manufacture of substances will be given due consideration. By gradual stages of advance, Organic Chemistry is thus simplified, and the student acquires a fair working knowledge of this highly developed and important field of chemistry. Stress will be laid on the poisonous nature of certain chemicals, their detection and antidotes. The subject of chemical incompatibilities, of such great importance in pharmacy, will receive a large share of attention.

Towards the end of the Session some lectures will be devoted to theoretical and historical subjects in chemistry, which will serve, as it were to give a fitting background to all that has gone before.

Botany—Prof. Culbreth. **JUNIOR COURSE.** Nearly every one recognizes that some knowledge of Botany is essential to the pharmacist, and likewise admits that considerable advanced work in this science can be utilized to good advantage in one's business career. In order that these two conditions may be met satisfactorily, this branch is divided into two courses—one more or less elementary, known as the Junior Course, which occupies the first two and a half months of the Junior year.

This course is the only one compulsory for those students applying for the degree of "Graduate in Pharmacy," and includes a good understanding of descriptive or structural botany (organography), such as is essential for one to intelligently understand the botanic language (nomenclature) as employed in the Pharmacopœia and other scientific works.

SENIOR COURSE. The second portion of this branch is known as the Advanced Course, and occupies the last six weeks of the Senior year. This course, along with the Junior Course just referred to, is compulsory only for students applying for the degree of "Doctor of Pharmacy," and comprises a general treatment of physiologic and systematic botany. Here plant analysis is a feature, the aim being to so equip the student that he can pursue the subject independently with a degree of satisfaction and profit. Indeed each student is expected to make a number of analyses during the course, and one at the final examination. The lectures will be illustrated with fresh and dry specimens, colored plates and diagrams designed expressly for the college, and wherever possible with official plant parts.

Pharmacy—Prof. Caspari. JUNIOR COURSE. This will comprise an historical review of the several pharmacopœias and a study of the weights and measures in authoritative use by pharmacists in the United States, Great Britain, Germany and France. The principles of specific gravity will be elucidated and illustrated by practical applications, demonstrating its usefulness in pharmacy. The various manipulations to which crude drugs are subjected during the process of preparation for dispensing and administration will be treated at length. These include the various methods of pulverization, separation, etc. Extemporaneous Pharmacy will be given full consideration further on in the course, when the most recent improvements in apparatus and methods of working will be exhibited to the class. In this course, the Junior, those pharmaceutical preparations, in the production of which no chemical processes are resorted to—i. e., emulsions, mixtures, pills, syrups, tinctures, ointments, etc.—will be studied.

SENIOR COURSE. The lectures on Pharmacy, to the Senior Class, will be devoted principally to Pharmaceutical Chemistry. At the opening of the course the work of the Junior Course will first be briefly reviewed, in order to bring it again to the attention of the student. Fluid and solid extracts and oleoresins will next be studied in detail. Subsequent lectures on Pharmaceutical Chemistry will embrace a study of chemicals from the mineral, the vegetable and the animal kingdoms to the extent of their pharmaceutical interest, their consideration from a purely chemical standpoint being left to the department of Chemistry. In the lectures on the mineral preparations, mineral acids, the salts and other combinations of the alkalies, alkaline earths, earths and heavy metals will be included. The preparation of all important pharmaceutical chemicals will be discussed with accompanying explanations of the various tests of purity. All of

the more important medicinal chemicals derived from the vegetable kingdom will be studied in their proper order, special attention being given to those official in the United States Pharmacopœia. The concluding lectures will be devoted to the consideration of those medicinal agents which are products of the animal economy.



A SECTION OF THE MATERIA MEDICA LECTURE HALL

Materia Medica—Prof. Culbreth. JUNIOR COURSE. The latter three-fourths of the Junior session is taken up with Materia Medica. The lectures will be devoted to explaining the several methods of classification by which medicinal agents can be best studied, in pharmaceutic preparations and therapeutic terms employed in describing medical properties, in outlining the conditions modifying the action and dose, concluding with the treatment of as many vegetable drugs as possible, systematically arranged according to families or natural orders. The sequence followed is that of Engler and Prantl, in their "Die Natuerlichen Pflanzenfamilien," modified occasionally to bring it into nearer conformity with that of Britton and Brown's "Illustrated Flora."

SENIOR COURSE. This will be entirely devoted to Materia Medica. The organic drugs, both vegetable and animal, are also studied in this class according to family sequence, the leading points considered being botanic or zoologic source, habitat, family or natural order (organic), commercial history, physical properties and characteristics of official parts, constituents or composition, preparations, doses, medical properties and uses, antidotes and treatment for poisonous quantities, etc. The inorganic drugs are treated from the sequence of chemical relationship, the mode of manufacture, tests,

doses, properties, uses, antidotes for poisonous quantities, etc., being the chief points dwelt upon. Although only a few synthetic compounds are official, yet quite a number are growing in favor with both the public and profession, so that these must needs receive consideration, so far, at least, as their points of greatest interest.

Class Reviews—Junior and Senior.

INSTRUCTORS :

Pharmacy,.....CHARLES SCHMIDT, PH. G.
Materia Medica and Botany,.....JOHN P. PIQUETT, PH. G.
Chemistry,.....H. A. B. DUNNING, PH. G.

The great advantages to be derived from frequent and thorough reviews of lectures, in the nature of a "Quiz," are too well known to all educators and students to require further comment.

With the arrangements now perfected through the appointment of three competent instructors as assistants to the professors, students will be enabled to derive the greatest possible benefit from a system of weekly class reviews in each of the three branches upon which lectures are delivered. Attendance thereon has been made compulsory for both Junior and Senior Students.

The instructors will keep in close touch with the lecturers, and full records will be kept of each student's attendance and rating at the weekly reviews, in order to stimulate all to aid in elevating the character of the work done by the class. These records will be duly considered at the monthly meetings of the faculty, with the view of proper advising those students who appear derelict in their duties or who are unable to keep up with the progress of the lectures.

Laboratory Courses. It is scarcely necessary at this day, when laboratory work is so highly commended by all leading scientists, to call attention to the advantages presented by this form of teaching. The Board of Trustees of this college long ago recognized its importance, and has always substantially encouraged its extension.

The laboratories of the Maryland College of Pharmacy are commodious, well lighted and completely equipped. The addition of the "Dispensary," which approaches as nearly as practicable the modern drug store, makes the service as complete, we believe, as that possessed by any other school of pharmacy.

Pharmacognosy—Assoc. Prof. Piquett. The great object sought is the detection of adulterations or foreign substances which may be mixed with commercial drugs from the vegetable kingdom. That this may be possible, each student is liberally supplied, at the college's expense, with samples of nearly all official parts, which must be mounted and described upon cards in an

acceptable manner. All graduates have to pass a written and practical examination in this branch, which consists in identifying and describing about forty specimens of native and foreign drugs along with admixtures.

Chemical Laboratory Course—Prof. Base. Chemistry is a science resting on a foundation of facts which can be readily verified by practical demonstrations. Whilst many such demonstrations are given during the lectures, yet it is of great importance that the student familiarize himself with the various modes of chemical operations, apply the knowledge acquired during the lectures to a practical test, and demonstrate for himself the truth and accuracy of the assertions.

The values of such practical training in chemical manipulations cannot be overestimated, and the means for obtaining it are afforded to the student in the well-equipped chemical laboratory provided by this College.

The JUNIOR COURSE will embrace a number of experiments bearing on general chemistry and the analytical reactions of the acids and metals. Every attention will be given to students, and full explanation of the work done will be given each day. The course extends from the middle of January to the end of April; six hours a week.

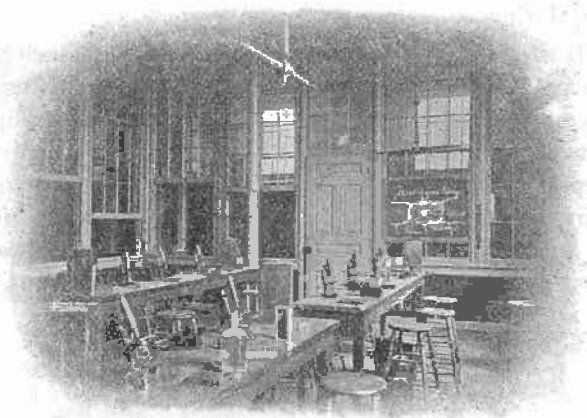
The SENIOR COURSE will be devoted to qualitative analysis, to the methods of the United States Pharmacopœia for detecting impurities in chemicals, and the determination of percentage strength by volumetric methods. The additional work required for the degree of Doctor of Pharmacy consists in a more complete study of qualitative and volumetric analysis, urinary analysis, and the study of a number of the organic chemicals and the preparation of some of them. Length of the course: from the first of October to the middle of January; six hours a week.

Vegetable Histology (Microscopy)—Prof. Base. A knowledge of the use of the microscope and of the structure of plant tissues will prove a most valuable aid to the pharmacist in the study of drugs, and is really imperative for a proper investigation of their structure, adulterations, etc.

For these reasons a practical course in Vegetable Histology has been made obligatory for all students.

This course embraces a study of the mechanism of the microscope and its theory of action; practical manipulations of the instrument; the art of cutting "sections," staining and making permanent mounts of them; the study of the lower plant organisms, as yeast, bacteria, fungi and algæ; the study of the primary vegetable cell and

its numerous subsequent modifications, which form the various "tissues" as found in the higher plants, and the relative arrangement of these which gives rise to the various kinds of stems, roots, and leaves. The time devoted to this department is one and a half hours a week throughout the session.



A SECTION OF THE MICROSCOPICAL LABORATORY

ADVANCED COURSE. This is obligatory only for those who are candidates for the degree of Doctor of Pharmacy. This work will consist of examinations of official drugs, to illustrate the method of study and the detection of spurious drugs, the study of powdered drugs, both pure and adulterated, which at present is a very important subject; a thorough study of urinary sediments, for normal and abnormal constituents, for which the several hospitals of this city are a convenient and sufficient source of supply. The course will occupy about one-half of the session, one and a half hours a week.

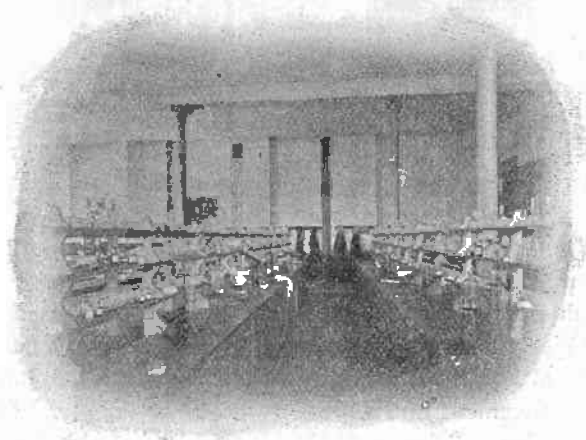
Laboratory Course in Pharmaceutical Manipulations—

Prof Caspari. By the departure of many pharmacists from the practice of producing their own pharmaceutical preparations, relying, instead, exclusively upon the wholesale manufacturer for a supply, many young men are deprived, in the store, of the opportunity to become skilled in the various pharmaceutical operations, or possessed of that important and necessary qualification—self-confidence.

The Pharmaceutical Laboratory was established by this College to supply a remedy for this growing evil and it offers a place

for practice, under the guidance of a competent instructor. The laboratory has capacity for the instruction of about seventy-five students at one time and in its full equipment and complete arrangements great pains were taken. Each table is supplied with gas, water and a closet for the safe-keeping of apparatus, finished and unfinished preparations. The student assumes personal charge of the table and closet assigned him, and thus secures his labors against interference, during laboratory exercises.

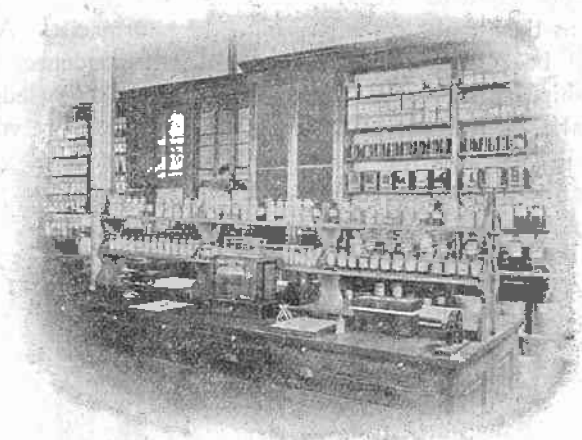
The JUNIOR COURSE will embrace manipulations, such as the use of apothecary and metric weights and measures; the finding of specific gravity of liquids and adjustment of the same; the testing of alcohol and medicinal wines; solution; filtration; purification of certain salts; preparation of infusions, decoctions, aromatic waters, glycerites, detannated wine, tinctures, syrups, emulsions, triturations, powders, mixtures, lozenges, pills, ointments; the sealing of wafers, etc.



PHARMACEUTICAL LABORATORY

The SENIOR COURSE will be devoted to the preparation of fluid and solid extracts, elixirs and oleates, and such chemicals and their solutions as the competent apothecary can make with pecuniary advantage to himself. Then will follow, for those seeking the degree of Doctor of Pharmacy, instruction in the official and other methods of assay of vegetable drugs and their preparations, by means of which students will be made practically familiar with the pharmacopœial requirements and become able to better determine the quality of crude drugs and galenicals they may desire to purchase.

The value of such a course of instruction must be apparent to all, and the examinations thus far have given evidence of good results therefrom obtained. Attendance upon the course arranged for the respective degrees is compulsory, and a rigid examination must be passed by a candidate before he can receive his diploma.



DISPENSING LABORATORY

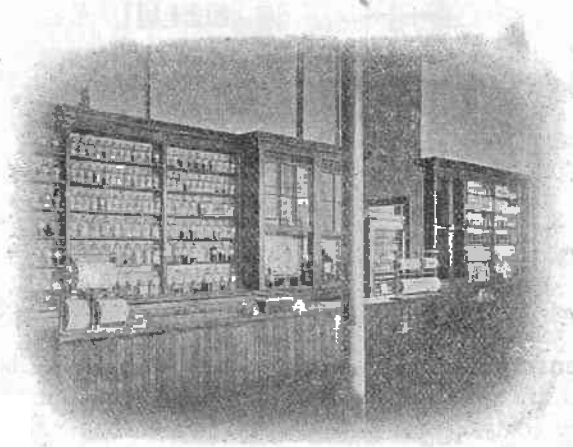
Dispensing—Prof. Hynson. This department has been added by the Board of Trustees in the belief that the *application* of the very complete knowledge to be gained in the other departments of the College can be best taught by an active and actual practitioner. It is indeed to make use of the student's knowledge of laws, principles and details, so fully taught, by applying it to the daily doings of the busy pharmacist. The instruction will be confined strictly to subjects of real interest to the dispenser and will not exclude such seemingly small matters as store-manners, ethics, stock keeping, etc.

The DISPENSARY, an unique addition to the College equipment, will be highly appreciated by those who desire proficiency in pharmaceutical practice and wish to become finished dispensers. In it students will secure extended experience in compounding, dispensing and every other detail of practice. The idea is to supply comprehensive drug-store experience, which has lately become so difficult to obtain.

The JUNIOR COURSE will be devoted to preliminary work, to familiarizing students with dispensing technique and to fitting them for the greater requirements of prescription filling.

The SENIOR COURSE will be given up entirely to the preparation, labeling and wrapping of up-to-date prescriptions, as they severally appear in modern pharmacies. Pains will be taken to make the course thoroughly comprehensive.

Commercial Pharmacy—Prof. Hynson. In connection with the Dispensary service, ample time will be given to carefully instruct students regarding business forms and practices, especially as they apply to the affairs of the pharmacist. Actual exercise will be given in Book-keeping, Correspondence, Banking, Salesmanship, etc., that the student may obtain a knowledge of the commercial as well as the professional side of his future vocation.



SECTION OF COMMERCIAL DEPARTMENT

The desirability of this kind of knowledge and practice cannot be questioned. The introduction of such teaching into the curricula of the colleges of pharmacy has been very generally endorsed by practical and successful pharmacists, and particularly by the leading credit men of the wholesale and manufacturing drug trade. It is thought by them that the want of success with many very excellent pharmacists is due to their lack of good business training. This the Maryland College of Pharmacy seeks to supply by the most practical methods.

Location of the College.—Aisquith Street, near Fayette, Baltimore. Baltimore now easily ranks sixth in population among the great cities of the country. Its rapid growth and the absorption of Brooklyn by New York undoubtedly give it this position. It is one of the leading business centres, and is the foremost educational community in the Union. Its elevation and

proximity to the sea give it unusual hygienic advantages, which, together with its superior natural drainage, renders the yearly health record phenomenally good. Owing to its pleasant location, midway between the extremes of North and South, the climate is genial in winter and by no means oppressive in summer. The moral tone is high and the religious sentiment strong. Young men from abroad, desiring to master a profession, seldom forget home influences, and, without exception, leave the city with nobler and oftentimes more fixed Christian characters.

Employment. It is very desirable, on account of the large number of hours required for laboratory work, lectures and study, that students should come prepared to sustain themselves during their collegiate term, as is the case in medical and dental schools; yet a number annually succeed in finding suitable employment in retail drug stores of this city. The officers of the College stand ever ready to aid in securing positions for those students to whom employment is desirable.

Living.—BOARD. While the expenses of living in Baltimore are far less than in many cities, they will, of course, vary according to the habits and desires of the students. Board can be obtained from four dollars and upwards per week.

Information regarding good boarding-houses in the neighborhood of the College may be obtained from the janitor, who will assist students in securing desirable homes.

Particulars. MATRICULATION. Ample preliminary education is insisted upon as a requirement for entrance to the College. Indeed, it is considered of much more importance, as the groundwork upon which to rear a pharmaceutical education, than is the meagre shop experience usually secured by the apprentice.

Students unable to present a certificate of proficiency in the rudimentary branches, will be required to stand an examination in these before applying for tickets.

Table of Fees.*

Matriculation, paid but once.....	\$ 5.00
<i>General Lecture and Laboratory Ticket:</i>	
For Junior Students.....	100.00
For Senior Students (Ph. G. Course).....	80.00
For Senior Students (Phar. D. Course).....	100.00
Graduation (returned in case of failure).....	15.00

These tickets entitle the holders to a full term of instruction in the Junior and Senior Course respectively, including lectures on

*NOTE.—The Matriculation Tickets may be procured at the office of the Dean in the College Building, and must be taken out at the opening of the Session. The fees for Lecture and Laboratory Tickets are payable in two equal instalments, October 1, 1903, and January 2, 1904. Students applying for Senior Course Tickets must present proof of having passed the Junior examinations. Seats will be assigned students in the order in which they secure their tickets.

Pharmacy, Chemistry, Botany, Materia Medica and Pharmacology; weekly reviews in all of these branches; Laboratory instruction in Practical Pharmacy, Analytical Chemistry and Microscopy; service in the Dispensary and Commercial Practice.

Special Tickets of Admission.

FOR EITHER JUNIOR OR SENIOR STUDENTS.

To any one of the Lecture Courses.....	\$ 17.50
To any one of the Reviews.....	5.00
To Pharmaceutical Laboratory:	
Junior Division.....	\$ 12.50
Senior Division.....	20.00
To Chemical Laboratory.....	12.50
To Microscopical Laboratory.....	7.00
To Dispensary.....	12.50

Students who find it desirable or necessary to repeat a course, will be expected to take out a Renewal Ticket. This rule has been adopted to stimulate students to take advantage of opportunities before them, and to discourage the tendency to put off making proper efforts to pass the various examinations.

Renewal Tickets.

FOR JUNIOR OR SENIOR STUDENTS.

To any of the Lecture Courses.....	\$ 10.00
To any of the Reviews.....	5.00
To Laboratories.....	full fees as above.

Text Books. U. S. Pharmacopœia, Simon's Manual of Chemistry (seventh edition), Caspari's Treatise on Pharmacy (second edition), Culbreth's Pharmaceutic Botany, Rusby and Jelliffe's Morphology and Histology of Plants, Culbreth's Materia Medica and Pharmacology (third edition), Base's Elements of Vegetable Microscopy, Gray's Manual of Botany.

Books of Reference. National Dispensatory, United States Dispensatory, Remsen's Theoretical and Organic Chemistry, Beal's Chemical Arithmetic, Prescott & Johnson's Qualitative Analysis, Maisch's Organic Materia Medica, Gray's New Lessons in Botany

***Examinations.**—PRELIMINARY by the Board of Trustees. The examination of applicants for matriculation at the coming session will be held on Monday, September 28th, beginning at 9 A. M.

SPECIAL EXAMINATIONS for admission to the Senior Class will be held on Thursday, September 24th, and Friday, September 25th, at 9 o'clock A. M. and 3 o'clock P. M. The first day being set aside for Microscopy, Analytical Chemistry and General Chemistry, and the second day for Botany, Materia Medica and Pharmacy. These examinations are held for the benefit of those Junior students who

*NOTE.—Students arriving from another college of pharmacy, where they have passed the Junior examination, must present a certificate to that effect, signed by the proper officers of that institution.

may have failed in one or more branches at the regular spring examinations of this or some other college of pharmacy.

INTERMEDIATE EXAMINATIONS. In order to avoid the serious evil of cramming for the final examinations, the faculty will hold intermediate examinations in all Lecture Branches, for both Junior and Senior students—about the middle of January. The records of these examinations will form a part of each student's final rating, hence assiduous application to study from the beginning of the course is necessary in order to insure the required class-room average.

The dates of the final examinations will be found in the calendar on the front page of this Announcement.

Requisites for Graduation. The diploma of this College is granted only after all requirements herein mentioned have been complied with, and when the candidate shall have attained the age of twenty-one years.

1. The candidate must possess a good moral character.
2. He must have attended two full courses of lectures at a college of pharmacy, the last *in all instances*, at this College.
3. He must have attended a full course (Junior and Senior division of instruction) in Practical Pharmacy and Dispensing at this College.
4. He must have passed an examination in Analytical Chemistry, Pharmaceutical Manipulation, Dispensing, Pharmacognosy and Microscopy; a written examination in Chemistry, Pharmacy and Materia Medica; also the examinations of the Board of Examiners.
5. On or before April 20th, the candidate must present the graduation fee and a letter from his parents or some authorized person certifying to his age.

Certificate of Examination. Any student under twenty-one years of age may apply for final examination at the expiration of the full collegiate course. Should the examination prove successful, he will receive a Certificate of Examination, to be subsequently exchanged for the diploma, when all the requirements have been met.

Commencement. Commencement exercises will be held about the middle of May. Experience has proven that provision for these ceremonies can be most satisfactorily made by an experienced committee, and, as the College prefers to meet all expenses attending the exercises, it reserves the right to take entire charge of the arrangements, including the selection and distribution of invitations.

Prizes. GENERAL. Appropriate College Prizes, rating according to merit, will be presented at each Annual Commencement to three successful candidates for graduation who acquit themselves most creditably. These prizes are awarded for general work, and are open to competition to all senior class students. Honorable mention will also be given to the five students standing next highest in the order of merit after the prize men.

Special prizes will also be awarded as follows:

CHEMISTRY. Dr. Wm. Simon has generously placed at the disposal of the College a liberal sum of money, the income of which is to be used annually in procuring a special gold medal to be awarded for superior proficiency in the field of analytical chemistry. This medal will be known as the Simon Prize and in accordance with stipulations fixed by the donor, the recipient must stand high in all branches and must have the endorsement of the whole faculty. In recommending a student for the prize, the Professor of Chemistry will be guided in his judgment of the student's ability as much by observation and personal contact, as by marks made in examinations.

PHARMACY. In order to give greater stimulus to the study of practical pharmacy, an appropriate prize will be presented to that member of the Senior class who shall make the highest record in both theoretical and practical Pharmacy. Formerly this was awarded for Laboratory work alone, but it has often happened that a perfect manipulator was very ordinary in theory, consequently the winner *must obtain maximum rating in both departments.*

MICROSCOPY. The Alumni Association, to stimulate advanced studies, will each year give a medal to the member of the graduating class who attains the greatest proficiency in Microscopy.

JUNIOR. A gold medal is annually awarded to the most successful Junior Student and Honorable Mention will be made of the five next best in succession.

Important Notice. *The rules and conditions stated in this Prospectus will govern all students of this College until the next succeeding issue of the College Prospectus, after which time students will be governed by the conditions stated in the latter.*

A copy of this circular will be mailed to any address upon application.

Address,

CHAS. CASPARI, JR., DEAN.

109 Atsquith St., BALTIMORE, MD.

Student's Roll, Session 1902-1903.

SENIOR CLASS.

Adams, John L.....	North Carolina	Krug, George H.....	Maryland
Anderson, B. W.....	Maryland	Lemke, George.....	Maryland
Andrews, Edgar R.....	Maryland	Lindenberger, Jno. E.....	Maryland
Barron, Edward W.....	South Carolina	Lynch, Wm. C.....	South Carolina
Bonifant, Florence.....	Virginia	McCartney, Frank L.....	West Virginia
Cherry, John M.....	Georgia	McFall, Frank B.....	South Carolina
Clapp, Clarence.....	North Carolina	McLarty, Geo. C. Jr.,	North Carolina
Doyle, A. Calhoun.....	South Carolina	McLean, I. William.....	North Carolina
Edmundson, Karl K.....	Georgia	Moose, Gurley D.....	North Carolina
Evans, Joseph M.....	South Carolina	Noland, Chas. E.....	Maryland
Falck, James S.....	Maryland	Onnen, John G.....	Maryland
Fulford, Alex. M.....	Maryland	Pharr, Clarence C.....	Virginia
Gibson, Eliza G.....	North Carolina	Schoenrich, Herbert A.....	Maryland
Graham, Karl H.....	Texas	Thomas, Geo. W. Jr.....	West Virginia
Gray, James H.....	North Carolina	Tomb, David M.....	Louisiana
Hawley, Fredk. O., Jr.	North Carolina	Tumbleson, Chas. C.....	Maryland
Hillman, A. S.....	Maryland	White, R. Charles.....	Maryland
Howard, Lettice M.....	Maryland	Zapf, Louisa F.....	Maryland

JUNIOR CLASS.

Amberg, Richard O.....	Maryland	Hunter, Edwin F.....	North Carolina
Anger, Louis Jr.....	Maryland	Hunter, L. O.....	North Carolina
Aydelotte, Wm. J.....	Maryland	Johnson, Leonard V.....	Maryland
Bambach, Stanley.....	Maryland	Jordan, Wm. E.....	South Carolina
Barrett, Henry H.....	Maryland	Kidd, Chas. B.....	North Carolina
Beattie, Frank E.....	Virginia	King, Henry C.....	Maryland
Becker, George L.....	Maryland	Lehr, Robert H.....	Maryland
Bell, Raymond M.....	Maryland	Lillich, Bert A.....	Pennsylvania
Black, Frank L.....	Maryland	McElwee, Ross S.....	North Carolina
Boenning, P. J. H.....	Maryland	McMillan, John D.....	North Carolina
Boon, Peyton T.....	Virginia	Nance, Fuller.....	North Carolina
Boon, Wiley J.....	North Carolina	Poggi, Gabriel L.....	Maryland
Burruss, Jaxon M.....	Georgia	Price, Cyrus S.....	Virginia
Busick, Chas. D.....	North Carolina	Raines, W. Horace.....	Georgia
Chidester, Clay C.....	West Virginia	Rettaliata, G. L.....	Maryland
Clark, George A.....	North Carolina	Ritch, Thomas W.....	North Carolina
Daniel, Chesley V.....	Texas	Robinson, Jos. T.....	Maryland
Eliades, D. L.....	Egypt	Smith, Lewis A.....	South Carolina
Fant, Theodore B.....	South Carolina	Stulz, Fredk. J.....	Maryland
Farr, Thomas J.....	Texas	Thomas, Oscar B.....	Maryland
Gamse, Hugo.....	Maryland	Thornton, Wm. H.....	North Carolina
Gibson, John H.....	Maryland	Von Dreele, John H. Jr.	Maryland
Hackerman, Samuel.....	Maryland	Weinsbenker, A.....	Maryland
Herrmann, Fredk.....	Maryland	Wood, Carroll E.....	Virginia
Hess, Stephen C.....	Maryland	Woodruff, Theo. C.....	North Carolina

Graduates of the Maryland College of Pharmacy.

May 14, 1903.

RECEIVING THE DEGREE OF DOCTOR OF PHARMACY.

Florence Bonifant, - - - - Virginia.	G. Collins McLarty, Jr. N. Carolina.
Alex. Calhoun Doyle, - S. Carolina.	I. William McLean, - N. Carolina.
Joseph M. Evans, - - S. Carolina.	Gurley D. Moose, - - N. Carolina.
Karl Harris Graham, - - Texas.	Herbert A. Schoenrich, Maryland.
Abraham S. Hillman, - - Maryland.	Charles C. Tumbleson, - Maryland.
George Lemke, - - - - - Maryland.	Robert Charles White, - Maryland.
Frank L. McCartney, - W. Virginia.	Chapman S. Williamson, Virginia.
Frank Bell McFall, - S. Carolina.	

RECEIVING THE DEGREE OF GRADUATE IN PHARMACY.

John Lean Adams, - N. Carolina.	Lettice May Howard, - Maryland.
Edgar R. Andrews, - - Maryland.	George Henry Krug, - - Maryland.
Edw. Wilson Barron, S. Carolina.	J. Ernest Lindenberger, Maryland.
John M. Cherry, - - - - - Georgia.	William C. Lynch, - S. Carolina.
Clarence Clapp, - - - N. Carolina.	John G. Ounen, - - - - Maryland.
Karl K. Edmundson, - - - Georgia.	Clarence Cassius Pharr, - Virginia.
James Stanley Falck, - Maryland.	George W. Thomas, Jr., W. Virginia.
Alex. Maitland Fulford, Maryland.	David Moore Tomb, - Louisiana.
Ellza Gertrude Gibson, N. Carolina.	Louisa Frances Zapf, - - Maryland.
Fred. O. Hawley, Jr. N. Carolina.	

HONOR ROLL—SESSION 1902-1903.

SENIOR CLASS.

1st College Prize. .Gurley D. Moose.	Special	Frank L. McCartney.
2nd College Prize...F. B. McFall.	Pharmacy	Gurley D. Moose.
3rd College Prize, F. L. McCartney.	Prizes.	Frank B. McFall.
Practical Chemistry Prize....		
Chas. C. Tumbleson.	Microscopy Prize.....	R. Charles White.

Note.—G. D. Moose, although having obtained the highest rating in practical chemistry, by choosing the first college prize became ineligible for the Simon Medal, under conditions imposed by the donor.

HONORABLE MENTION (in order of merit.)

Florence Bonifant, I. Wm. McLean, Chas. C. Tumbleson, K. H. Graham,
A. Calhoun Doyle.

JUNIOR CLASS.

College Prize, - - - - - Lewis Ayer Smith.

HONORABLE MENTION (in order of merit.)

W. Horace Raines, Carroll E. Wood, J. H. Von Dreele, Jr., Samuel
Hackerman, Thomas J. Farr.

Alumni Association, M. C. P.

President—J. Emory Bond, '86.....29 W. North Ave.
First Vice-President—J. B. Thomas, '72.....2207 Eutaw Place.
Second Vice-President—Clarence Clapp, '03.....Newton, N. C.
Secretary—Wm. J. Lowry, Jr., '96.....731 E. 21st St.
Treasurer—J. W. Westcott, '89.....Charles and Franklin Sts.

STANDING COMMITTEES.

Executive.

J. J. Barnett, '99, *Chairman.*
Frantz Naylor, '00.
Emma Davis, '02.
Charles Schmidt, '80.

Publication.

Sidney Hollander, *Chairman,* '02.
W. J. Lowry, Jr., '96.
J. J. Barnett, '99.
Frantz Naylor, '00.
E. Davis, '02.
Chas. Schmidt, '80.

Auditing.

Wm. Owings, *Chairman,* '87.
C. D. Hickman, '00.
Fred. R. Hall, '99.

Deceased Members.

J. F. Hancock, *Chairman,* '60.
C. H. Ware, '86.
H. P. Hynson, '77.

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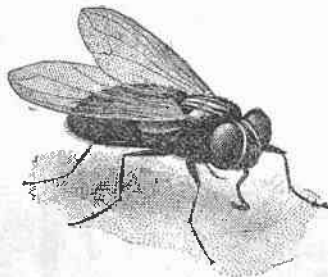
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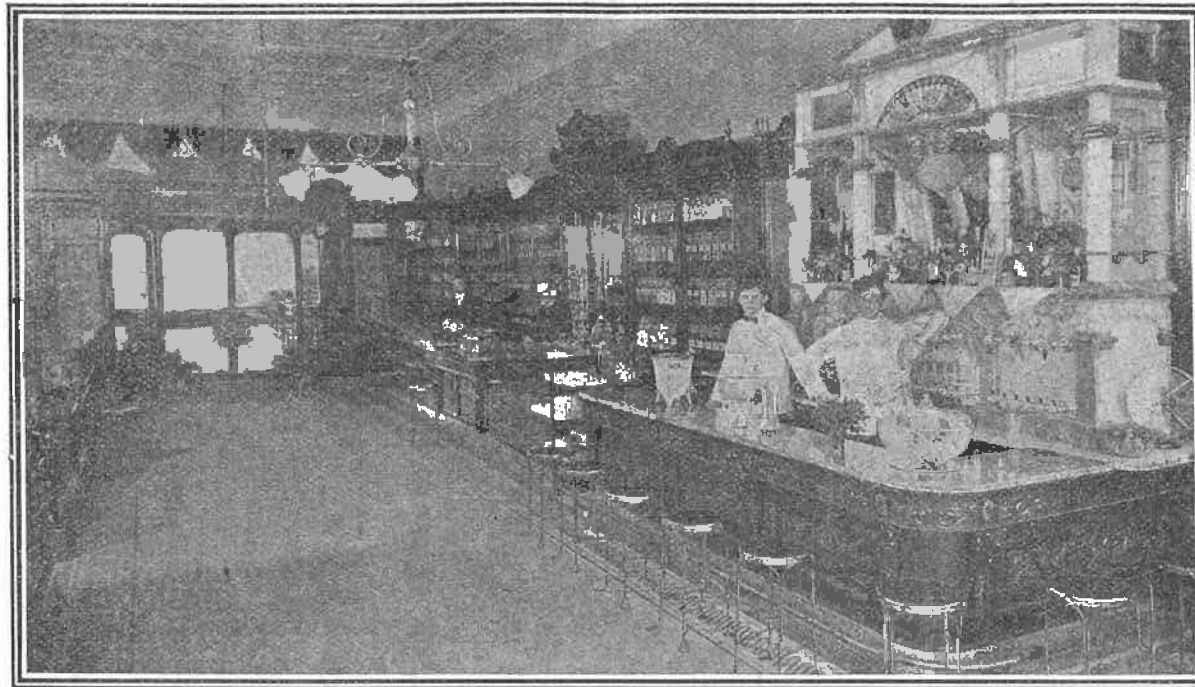
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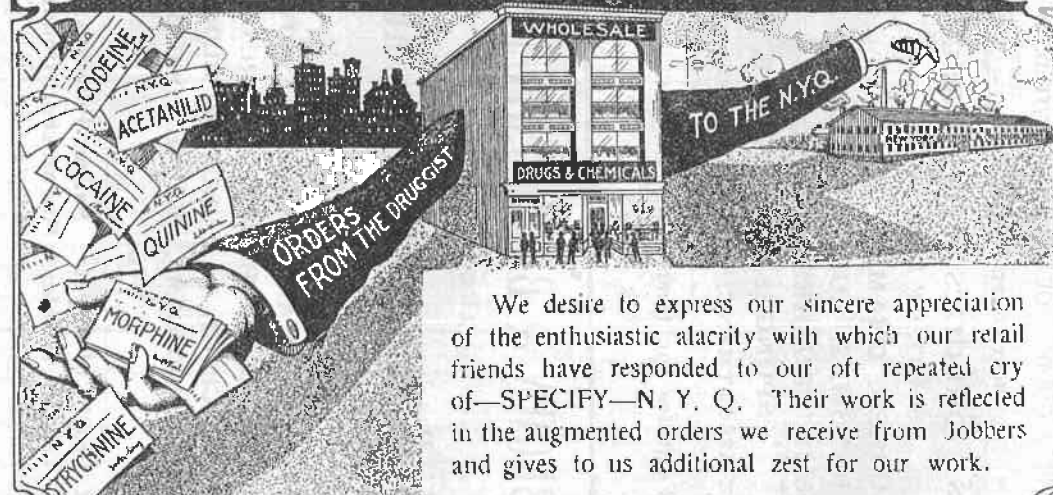
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