

ANNUAL CATALOGUE  
OF THE  
**Maryland College of Pharmacy.**

INCORPORATED 1841.



**Session of 1897-'98.**

PRESS OF  
COMMERCIAL PRINTING HOUSE,  
BALTIMORE.

The Annual Course of Instruction in this College will commence on September 27th, 1897, at 2.30 o'clock P. M., and will continue until May 19th, 1898.

## Roster.

HOURS:	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
<b>JUNIORS.</b>					
9 — 10	Review in Pharmacy.				
10 — 11	Review in Chemistry.		Pharmaceutical Manipulations		Pharmaceutical Manipulations.
11 — 12	Review in Botany and Mat. Medica.				
12 — 1.30	Microscopy.		Microscopy.		Microscopy.
2.30 — 3.30		Botany and Materia Medica.		Botany and Materia Medica.	
3.30 — 4.30		Chemistry.		Chemistry.	
4.30 — 5.30		Pharmacy.		Pharmacy.	
<b>SENIORS.</b>					
9 — 10					
10 — 11		Analytical Chemistry.		Analytical Chemistry.	
11 — 11.30			Microscopy.		
11 — 12					
12 — 1.30		Microscopy.		Microscopy.	
2.30 — 3.30	Materia Medica and Pharmacognosy.		Materia Medica and Pharmacognosy.		Review in Materia Medica.
3.30 — 4.30	Chemistry.		Chemistry.		Review in Chemistry.
4.30 — 5.30	Pharmacy.		Pharmacy.		Review in Pharmacy.

The above laboratory arrangement for the Junior and Senior Class will be reversed after January 24th, 1898.

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*Professor of Botany, Materia Medica and Pharmacognosy,*  
NO. 203 EAST PRESTON STREET.

DANIEL BASE, Ph. D.

*Professor of Microscopy and Analytical Chemistry,*  
NO. 329 NORTH SCHROEDER STREET.

CHARLES SCHMIDT, Ph. G.

*Instructor in Pharmacy.*

JOHN P. PIQUETT, Ph. G.

*Instructor in Botany and Pharmacognosy.*

## Calendar of Session 1897-'98.

The Session will Open September 27th, 1897, and  
Close May 19th, 1898.

### . . 1897 . .

September 22d, { at 9 A. M., and } —Fall examinations for admission  
September 23d, { 3 P. M. } to the Senior Class.  
September 24th, at 9 A. M.—Examination for Matriculation.  
September 27th, at 2.30 P. M.—Lecture Course opens.  
October 4th, at 12 M.—Senior Course in Microscopy begins.  
October 5th, at 9 A. M.—Senior Course in Analytical Chemistry begins.  
October 5th, at 12 M.—Junior Course in Microscopy begins.  
October 6th, at 9 A. M.—Junior Course in Practical Pharmacy begins.  
October 11th, at 9 A. M.—Junior Class Reviews begin.  
October 15th, at 2.30 P. M.—Senior Class Reviews begin.  
November 25th—College closed—Thanksgiving Day.  
December 6th—First Intermediate Examinations for the Senior Class.  
December 9th—First Intermediate Examinations for the Junior Class.  
December 23d—Last Lecture before the Christmas vacation.

### . . 1898 . .

January 3d, at 9 A. M.—Lectures resumed.  
January 20th, at 9 A. M.—Senior Examination in Analytical Chemistry.  
January 19th and 21st, at 9 A. M.—Junior Exam's in Practical Pharmacy.  
January 25th, at 9 A. M.—Senior Course in Practical Pharmacy begins.  
January 26th, at 9 A. M.—Junior Course in Analytical Chemistry begins.  
February 21st—Second Intermediate Examinations for the Senior Class.  
February 22d—College closed—Washington's Birthday.  
February 24th—Second Intermediate Examinations for the Junior Class.  
April 7th to 12th—College Closed—Easter holidays.  
April 25th—Time expires for presentation of letters and graduation fee.  
April 26th and 28th, at 9 A. M.—Senior Exam's in Practical Pharmacy.  
April 29th, at 9 A. M.—Junior Examinations in Analytical Chemistry.  
April 30th, at 9 A. M.—Junior Examinations in Microscopy.  
May 2d, at 9 A. M.—Junior Examination in Pharmacy.  
May 3d, at 9 A. M.—Senior Examination in Pharmacognosy.  
May 3d, at 3 P. M.—Junior Examination in Chemistry.  
May 4th, at 9 A. M.—Senior Examination in Chemistry.  
May 5th, at 9 A. M.—Senior Examination in Microscopy.  
May 6th, at 9 A. M.—Junior Examination in Botany and Materia Medica.  
May 6th, at 3 P. M.—Senior Examination in Pharmacy.  
May 7th, at 3 P. M.—Senior Examination in Materia Medica.  
May 9th, at 9 A. M.—Board Examination for Graduation.  
May 19th—Commencement Day.

# BALTIMORE.

## ITS ADVANTAGES.



BALTIMORE is the seventh city in population of the country, and is at the head or second as a business or educational center. Its elevation above and proximity to the sea give almost unequaled hygienic advantages, which, together with its superior drainage system, render the yearly health record phenomenally good. The climate, owing to its pleasant location, being midway between the extremes of North and South, is the most genial in winter and by no means oppressive in summer. The moral tone is high, and the religious sentiment strong. Immorality does not rear its brazen front with impunity; nor does the law by its inaction encourage vice or embolden its votaries. Young men from abroad desiring to master their profession seldom forget their home influences, and without exception leave our city with nobler, and oft-times more Christian characters.

Our city, in addition, offers to all who may desire, opportunities for culture in every branch of art and science. It is the seat of a number of the most noted institutions in this country, endowed by philanthropic citizens. Among them we mention the world-renowned Johns Hopkins University; the Peabody Institute, embracing one of the largest public libraries, a conservatory of music and an art gallery; the Enoch Pratt Free Library, with its imposing central building and its five branches in different parts of the city.

Students of Pharmacy can obtain tickets to the course of public lectures delivered at the Johns Hopkins University during each winter free of charge, by applying at the office in the University buildings. Tickets to a course of thirty lectures at the Peabody Institute on history, art, the natural sciences, etc., may be obtained at a merely nominal cost. At the Medical Schools of the city students can make arrangements for courses in Anatomy, Physiology, Hygiene, etc. The Maryland Institute School of Art and Design is an excellent place for securing instructions in drawing, sketching, painting, etc. Besides these it will be advantageous to attend any of the many private educational institutions, or business colleges, which are engaged in all departments of learning, so that knowledge may be gained on subjects where weakness is felt, which may be essential to a good and successful business pharmacist.

Students having had sufficient practical experience and not desiring to be in stores, yet aiming to lay a good foundation for their future career, cannot place too great an estimate upon such surroundings of literature, science and art.

# Maryland College of Pharmacy.

## THE 48th SESSION.

The Maryland College of Pharmacy has always known how to combine wisely proper conservatism with a true spirit of progressiveness. Rarely has a year passed in which the course of instruction has not been widened or improved in one direction or another.

LABORATORY METHODS are now everywhere recognized not only as important, but as absolutely essential for proper instruction in scientific schools, and with the present increased facilities and appliances the Board of Trustees feel justified in advancing the claim that the course of training offered by this school is second to none in the country. Special stress is laid upon the practical education of those desirous of making Pharmacy their life-calling, and as many at the present day are denied the opportunity of instruction at the store in the many details of the dispensing counter and laboratory, which at one time formed the most important feature of drug apprenticeship, all students will be thoroughly drilled in the various operations, simple as well as complex, which tend to make the pharmacist a competent and valuable ally of the physician.

Although the great value of *store experience*, or so-called shop training, in properly conducted pharmacies cannot be overestimated, experience has taught that grave difficulties are often encountered in trying to ascertain the true status of pharmacy students as represented by their certificates of service in a drug store for varying periods of two, three or more years. The Maryland College of Pharmacy, has, therefore, abolished the requirement of four years of service in a store as an essential for graduation; but, nevertheless, desires to impress upon all prospective students of pharmacy the great advantage of shop training, both from a professional and a commercial standpoint, and young men are recommended to seek eagerly the opportunities for employment in regular drug and prescription stores. Suavity of manners in approaching customers, familiarity with location and price of goods and other little accomplishments which tend to enhance the value of a pharmacist's assistant can, of course, not be taught in the college

hall, but may be acquired with little difficulty if supported by confidence in one's own work, and a consciousness of competency in professional duties. As the hours of college instruction and necessary home studies demand nearly all of the student's time, shop experience should be obtained before and after the college terms; in the majority of cases service in a good drug store for one or two years before attending college, will prove decidedly advantageous.

Besides the regular course of instruction designed for those aspiring to the degree of GRADUATE IN PHARMACY, arrangements have been made for advanced work in all branches for the benefit of those students who, having passed through the regular course, desire to fit themselves for special work. This course, further particulars of which are given elsewhere (on page 17), leads up to the degree of DOCTOR OF PHARMACY.

Some colleges of pharmacy have adopted a so-called three-years course of study, consisting of three sessions, each usually extending over a period of five and a half or six months. A course of two sessions is still maintained at this college, because, after careful reflection, it is considered to be for the best interests of the student, both from an educational and a financial point of view. The sessions have been extended to cover a period of thirty-two weeks each, and the instruction, both didactic and practical, possible during two such terms is considered to be fully equal to that imparted during three shorter periods, with their attendant interruptions to study, while, at the same time, the student is put to far less expense for tuition and traveling expenses.

In deciding between two and three term schools of pharmacy, prospective students should carefully consider the actual amount of time devoted to instruction and not be misled by a simple statement of an increased number of terms. While all the leading colleges of pharmacy keep their laboratories open throughout the whole term for the benefit of students desiring to do extra work or those pursuing elective courses, the number of hours of attendance upon lectures and laboratory instruction required for graduation varies considerably in different institutions. The value of a college course must naturally depend upon the amount of compulsory instruction and study leading to a degree, and cannot be measured simply by the number of weeks or years over which the course extends.

#### **PRELIMINARY EXAMINATION.**

No student will be admitted to the regular course of instruction at the Maryland College of Pharmacy who does

not pass a preliminary examination in arithmetic, geography and orthography, or is able to furnish in place thereof satisfactory evidence of having passed an examination equivalent to that required for admission to the high schools of this city.

Failure to pass the entrance examination in one or more branches will necessitate entry as a conditional student, with the requirement that the conditions must be absolved before the student will be admitted to the final college examinations.

The preliminary examination will be conducted by the Board of Examiners, at the hall of the college, on Friday, September 24th, beginning at 9 o'clock A. M.

As the requirement by Colleges of Pharmacy of a preliminary examination for matriculation has become general, pharmacists should in the future inquire into the intellectual attainments of those whom they wish to engage as apprentices, and should point out to them the importance of their having received sufficient education. Any special student may become a regular student and be eligible for examination and diploma when he shall have met the requirements noted above, as also those for graduation.

#### COURSE OF INSTRUCTION.

The regular course of instruction leading to the degree of Graduate in Pharmacy is graded. A full course extends over a period of two sessions of thirty-two weeks each. It is divided into a Junior Course and a Senior Course. By this arrangement the professors are enabled to extend their lectures over a larger field in their respective departments, and likewise to teach the elementary part of the studies to the first year, or Junior students, and the more advanced portions to the second year or Senior students.

Students are urgently requested to be in attendance at the opening of the session, so as to be able to derive full benefit from the earlier lectures of the course. Failure to heed this request has often proven disastrous to students in the pursuit of their college work.

*For information regarding the Post-Graduate Course of instruction see page 17.*

#### CURRICULUM.

The **Compulsory Course** embraces attendance upon lectures in Pharmacy, Chemistry, Botany and Materia Medica, Laboratory work in Pharmaceutical Manipulations and Analytical Chemistry, Microscopical Instruction and weekly Reviews in the three branches of didactic lectures.



**Elective Courses:** Advance work in the Chemical Laboratory (see page 12). Field instruction in practical Botany (see page 13).

The season of 1897-98 will open on Monday, September 27th, 1897, and close May 19th, 1898.

## PHARMACY.

### PROFESSOR CASPARI.

**Junior Course:** A part of each Tuesday and Thursday afternoon during the session will be devoted to the delivery of the lectures in this department to the Junior Class. (See Roster.) The course will comprise a comparative review of the pharmacopœias, and 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 of at length. These include the various methods of pulverization, solution, separation, etc. Extemporaneous Pharmacy will be given full consideration further on in the course, and the most recent improvements in apparatus and method of working will be exhibited to the class. In this, the Junior Course, those pharmaceutical preparations will be studied in the production of which no chemical processes are resorted to—*e. g.*, fluid and solid extracts, tinctures, syrups, etc.

**Senior Course:** The lectures on Pharmacy to the Senior Class will be delivered on each Monday and Wednesday afternoon during the session. (See Roster.) They will be devoted principally to Pharmaceutical Chemistry. The leading features and offices of Pharmacy as lectured on in the Junior Class will be carefully reviewed during a few hours at the opening of the course, in order to bring them again to the attention of the student. The 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, the 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 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.

### LABORATORY COURSE IN PHARMACEUTICAL MANIPULATIONS.

PROFESSOR CASPARI, Director.

The Pharmaceutical Laboratory was established to supply a need occasioned by the departure of many pharmacists from the proper practice of producing their own pharmaceutical preparations, and instead relying in some instances exclusively on the wholesale manufacturer for a supply. Thus many apprentices are deprived of the opportunity in the shop to become skilled in the various pharmaceutical operations, and possessed of that important and necessary qualification, self-confidence.

This College, to supply, at least, to some degree, a remedy for this growing evil, here offers a place for practice under the guidance of a competent instructor. The laboratory has a capacity for the instruction of about one hundred students at one time, and in its equipment and arrangements great pains were taken to make it complete. Each table is supplied with gas and water, and has connected with it a closet with lock and key, for the safekeeping of apparatus and finished and unfinished preparations. Each student assumes personal charge of the table and closet assigned him, and thus secures his labors against outside interference during the intervals between the hours spent in the laboratory.

**The Junior Class** will meet every Wednesday and Friday morning, from October 6th to January 21st, and the course will embrace thorough instruction in the various manipulations of the dispensing department, including the preparation of pills, emulsions, complex mixtures, suppositories, lozenges, ointments, plasters, etc. ; also, the correct reading and writing of prescriptions, and the translation of same from one system of weights and measures to another.

**The Senior Class** will meet every Tuesday and Thursday morning, from January 25th to April 28th, during which time the preparation of fluid and solid extracts, syrups, ointments and tinctures will claim careful attention, as also the various iron and other chemical solutions, oleates, granulated

effervescent salts, and such other chemicals as the competent apothecary can make with pecuniary advantage to himself.

The value of such a course of instruction must be apparent to all, and the final examinations thus far have given evidence of good results therefrom. Attendance upon the full course is compulsory, and a rigid examination in practical Pharmacy must be successfully passed by each candidate for graduation before he shall be entitled to receive his diploma.

Apparatus will be furnished without extra cost to student. *Broken or injured articles must, however, be replaced by him.*

## BOTANY AND MATERIA MEDICA.

### PROFESSOR: CULBRETH.

**Junior Course:** In order to thoroughly understand and intelligently comprehend the nature of vegetable drugs, it is necessary to have a general idea of plant development, germination, assimilation, etc.: consequently three-fourths of the first session will be devoted to Structural, Morphologic, Microscopic, Physiological and Systematic Botany. Thus, the student becomes acquainted with the minutias of these several botanic departments to the extent that he can thereafter pursue the study independently with perfect self-reliance and satisfaction. Unless Plant Analysis is understood and practiced the study of Botany becomes aimless and uninteresting to a very great extent; hence, in order to overcome such a possible condition, much stress is placed upon classification; each student being compelled to make a number of analyses during the course and one upon examination. The lectures will be illustrated with fresh and dry specimens, also by plates and diagrams designed expressly for the College. The geographical distribution of plants in general will be considered with special reference to those of medical interest; also, how, by destructive and constructive metabolism, active constituents are formed, etc. The latter portion (one-fourth) of the session will be devoted to explaining the several classifications by which drugs can be studied; also, to defining therapeutic terms used in describing medical properties, concluding with as many vegetable drugs as possible, arranged according to natural orders.

**Senior Course:** This will be entirely devoted to organic and inorganic drugs. Of the former, the Botanic and Commercial History, Physical Properties and Characteristics, Constituents, Preparations, Doses, Properties and Uses will

be the leading points for study; of the latter, Mode of Manufacture, Tests, Doses, Properties and Uses.

The College possesses three distinct sets of drugs: 1. "Students' Collection." These are in cases with glass fronts, securely fastened to the Lecture-Room walls. Here students have free access at all hours, so that by close and continuous observation much knowledge is intuitively absorbed.

2. "College Collection." These for the most part are rare specimens, and could not well be replaced. Consequently, they are simply used to supplement the Lectures.

3. "Reserved Collection." This has been made from time to time for Pharmacognostic work, and consists of a considerable quantity of all drugs of the U. S. P., 1890. From these all specific characteristics are studied by contact, and the distinctive features between the good and inferior quality pointed out.

**PHARMACOGNOSY.** To the Chair of Botany and Materia Medica has been added Pharmacognosy. The great object sought is the detection of adulterations or inert substances mixed with commercial drugs of the vegetable kingdom. All graduates have to pass a written examination in this branch, which consists in identifying about ten specimens of native and foreign drugs along with their admixtures.

## **CHEMISTRY.**

### **PROFESSOR SIMON.**

The close relationship existing between Pharmacy and Chemistry necessitates a thorough knowledge of the latter science by the pharmacist. It is for this reason that chemistry occupies a prominent position in the ranks of the various sciences taught at this College, and that a complete course, both theoretical and practical, is provided for. The benefit of this chemical knowledge is of incalculable value to the pharmacist, because not only does it familiarize him with the nature and manufacture of a great number of the most important medicinal agents, but it also enables him to verify the purity and value of the articles which pass through his hands.

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

**Junior Course:** The Lectures in this course will be delivered every Tuesday and Thursday afternoon during the session. (See Roster.) 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, and their application and service in Pharmaceutical and General Chemistry will be treated of. A few succeeding Lectures will be devoted to the teaching of the modern theories and laws of Chemistry. The remainder of the course will constitute 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.

**Senior Course:** The lectures of this course will be delivered every Monday and Wednesday afternoon during the session. (See Roster.) 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 for the Pharmacist being enhanced by its incorporation among the requirements of the United States Pharmacopœia. Then will follow some more advanced lectures in Theoretical Chemistry which the student will be able to follow intelligently from the knowledge gained in the Junior Course. A few lectures will next be given on those more important metallic elements which may not have been as fully treated in the Junior Course as their pharmaceutical importance requires. The remaining and greatest portion of the course will be devoted to the study of Organic Chemistry, better known as the Chemistry of the Carbon Compounds. This will form the main feature of the Senior Course, and will include a study of the alcohols, ethers, organic acids, fats, carbohydrates, alkaloids, etc. The general features and constitution of the various groups will first be pointed out, and subsequently, the important members of each will be studied separately. The formation in nature and manufacture by artificial means will be given due attention. Thus, by a gradual advance, the study of Organic Chemistry is simplified, and the student enabled to acquire at least a fair knowledge of this, at the present day, so highly developed branch of chemistry.

Throughout the course, stress will be laid on the study of poisons, the methods employed for their detection, and their proper antidotes; also, on the dangers arising from chemical incompatibilities, with which the student is so often confronted in extemporaneous compounding.

## LABORATORY COURSE IN ANALYTICAL CHEMISTRY.

PROFESSOR BASE, DIRECTOR.

Chemistry is mainly an experimental 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 the greatest importance that the student familiarize himself with the various modes of chemical operations; that he apply the knowledge acquired during the Lectures to a practical test, and demonstrate for himself the truth and accuracy of the assertions.

The value of such a practical training in chemical manipulations cannot be overestimated, and the means of obtaining it are afforded to the student in the well-equipped chemical laboratory. Here a systematic course in qualitative analysis is pursued, special attention being given to the recognition of official chemical preparations and the detection of possible impurities in the commercial articles.

As the work in the Laboratory furnishes to a great extent the explanation and experimental proof of the matter which is brought before the student's mind in the Lectures, the course in Analytical Chemistry is *obligatory for both the Junior and Senior Student*.

**The Junior Course** will embrace a study of the analytical reactions of the acids, metals and salts, as also the methods for separating them. This course commences on January 26th, 1898, and continues to the end of the session.

**The Senior Course** will be devoted chiefly to a consideration of the methods of the U. S. Pharm. for detecting impurities in chemicals, and for determining their strength and purity by volumetric methods.

This course commences on October 5th, 1897, and ends January 20th, 1898.

Students in this department will be supplied, without extra charge, with most chemicals and reagents needed, as also with all apparatus, excepting those which are generally used up during a session.

## SPECIAL LABORATORY COURSES IN CHEMISTRY.

Aside from the regular course in Analytical Chemistry, there will be given laboratory instructions, both to beginners and advanced students, in the various branches of General and Analytical Chemistry.

As there is always a number of students who prefer to devote their whole time to scientific work during their years of study, instead of attending to duties in a drug store, these students will now have the opportunity of making excellent use of their time by working in the Laboratory.

Beginners in Chemistry will here be made familiar with chemical operations generally, by working out simple processes of combination or decomposition, by repeating for themselves the experiments seen, or applying the various tests to the different substances spoken of during the previous lecture.

The advanced student will have the opportunity of familiarizing himself with gravimetric determinations, with analyses of organic substances, with the manufacture of chemicals, or with any other kind of chemical operations.

Special Laboratory Courses may be attended by others than pharmaceutical students, and special arrangements regarding hours of working, length of course, etc., will be made with applicants.

### **MICROSCOPY AND VEGETABLE HISTOLOGY.**

#### **PROFESSOR BASE.**

A knowledge of the uses of the microscope will prove a most valuable aid to the pharmacist in the study of drugs, and is really imperative for a proper investigation as to structure, adulterations, etc. It is for this reason that a course in Microscopy has been made obligatory for both Junior and Senior Students.

**The Junior Course** commences with a study of the mechanism of the various styles of microscopes, and with practical instruction in the use and manipulation of the instrument. The histology of plants is next studied, and the mounting of objects fully taught.

**In the Senior Course** the microscope is applied to the study of official drugs and of their impurities and adulterations; powders, crystalline substances and sections of vegetable specimens are examined until the student is perfectly familiar with their characteristic appearance. Finally the microscopic examination of urinary sediments and of food material is taught in this course.

### **SPRING COURSE IN PRACTICAL BOTANY.**

#### **JOHN P. PIQUETT, P. G.**

For the benefit of those students who desire to participate in field instruction, in the collection and determination of plants, arrangements have been made for weekly excursions.

sions to the country under the guidance of a competent instructor. The class will meet on Saturday afternoon of each week, from March 12th, 1898, to July 1st, at 3 o'clock. Tickets for the course can be obtained from the Treasurer. (See Table of fees.)

The peculiar geographical position of Maryland, lying as it does between the Northern and Southern belts of States, and the surface elevation varying from the sea level to an altitude of 3,500 feet, gives it a variety of flora unsurpassed in facilities for the study of Practical Botany. The great and increased demand of this branch of materia medica, so important to the pharmacist, has induced the College to add this chair to the curriculum.

## CLASS REVIEWS--Junior and Senior.

### INSTRUCTORS:

Chemistry,	DANIEL BASE, Ph. D.
Pharmacy,	CHARLES SCHMIDT, Ph. G.
Botany and Pharmacognosy,	JOHN P. PIQUETT, 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 by 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 regular weekly class reviews in each of the three Lecture branches, more time being devoted to this department than ever before, and attendance thereon having been made compulsory for both Junior and Senior Students.

The instructors will keep in close touch with the Professors, basing their reviews upon the lectures immediately preceding, thereby giving students an opportunity of rectifying any misconceptions while the subject is still fresh in their minds.

**The Junior Students** will meet for class reviews every Monday morning during the session, from nine to twelve o'clock.

**The Senior Students** will meet every Friday afternoon from half-past two to half-past five o'clock.

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 properly advising those students who appear either derelict in their duties or unable to keep up with the progress of the Lectures.

#### PARTIAL JUNIOR AND SENIOR EXAMINATIONS.

Owing to the desire on the part of many students for the past few sessions to extend their studies beyond the prescribed number of years, the College, in order to stimulate such ambition, and thereby increase scholarship and not cramming, allows all who have attended a full course of Lectures in any one department, to present themselves at the annual examination in that branch. This will be final to those who pass successfully. By this arrangement students are enabled to take out tickets for only one class, if they prefer, and devote their whole time and talent to that alone. It is thought this will have a tendency to specialize each year's work, so that in the end the generalization of knowledge will even be at a higher standard. Many who are employed in stores, and have limited time for study, may, by this arrangement, having their College course extended over three or more years, become proficient gradually, without losing appreciably much time from duty. This applies to both Junior and Senior students.

Although two years is the regular required minimum attendance at the College—one for the Junior and one for the Senior course—nevertheless, six years is the maximum—three in each. Students who, consecutively, for three years apply for examination in either Junior or Senior course and are each year unsuccessful, will be barred from further recognition by the College. The Trustees think it wise for those who should be so unfortunate as to fail after attending each class three years, to enter upon some other vocation where less talent is required, and they have drawn this restriction so that unnecessary time by such students may not be lost.

#### ANNUAL EXAMINATIONS.

*The Board Preliminary Examination.*—The examination of applicants for matriculation at the coming session will be held on Friday, September 24, 1897, beginning at 9 A. M.

*Special Examinations* for admission to the Senior Class will be held on Wednesday, September 22d, and Thursday, September 23d, at 9 o'clock A. M. and 3 o'clock P. M. The first day being set aside for Chemistry and Pharmacy, and the second day for Microscopy, Botany and Materia Medica.

These examinations are held for the benefit of those Junior students who may have failed in one or more branches at the regular spring examinations of this or some other College of Pharmacy.

Candidates for these examinations must notify the Secretary of their intention to attend, not later than September 20th, 1897.

Students arriving from other Colleges of Pharmacy, where they have passed the Junior examinations successfully, must present a certificate to that effect, signed by the proper officers of that institution.

*Intermediate Examinations.*—Upon the recommendation of the Faculty two intermediate examinations will be held annually in all Lecture branches, for both Junior and Senior students, the first early in December and the second about the middle of February. The records of these examinations will form a part of each student's final rating, and hence assiduous application to study from the beginning of the Lecture course is necessary in order to avoid the serious evil of cramming for the final examinations.

THE JUNIOR EXAMINATIONS at the close of the next session will take place as follows :

*Practical Pharmacy.*—January 19th and 21st, at 9 A. M.

*Analytical Chemistry.*—April 29th, 1898.

*Microscopy.*—April 30th, at 9 A. M.

*Pharmacy.*—May 2d, at 9 A. M.

*Chemistry.*—May 3d, at 3 P. M.

*Materia Medica and Botany.*—May 6th, at 9 A. M.

These examinations are compulsory, and are held to ascertain the student's fitness to enter upon the studies pursued in the Senior Class.

The "Junior Prize" is awarded to the most successful Junior Student, and Honorable Mention will be made of the five next best in succession.

THE SENIOR EXAMINATIONS for candidates for graduation will take place as follows :

*Analytical Chemistry.*—January 20th, 1898.

*Practical Pharmacy.*—April 26th and 28th, 1898.

*Pharmacognosy.*—May 3d, at 9 A. M.

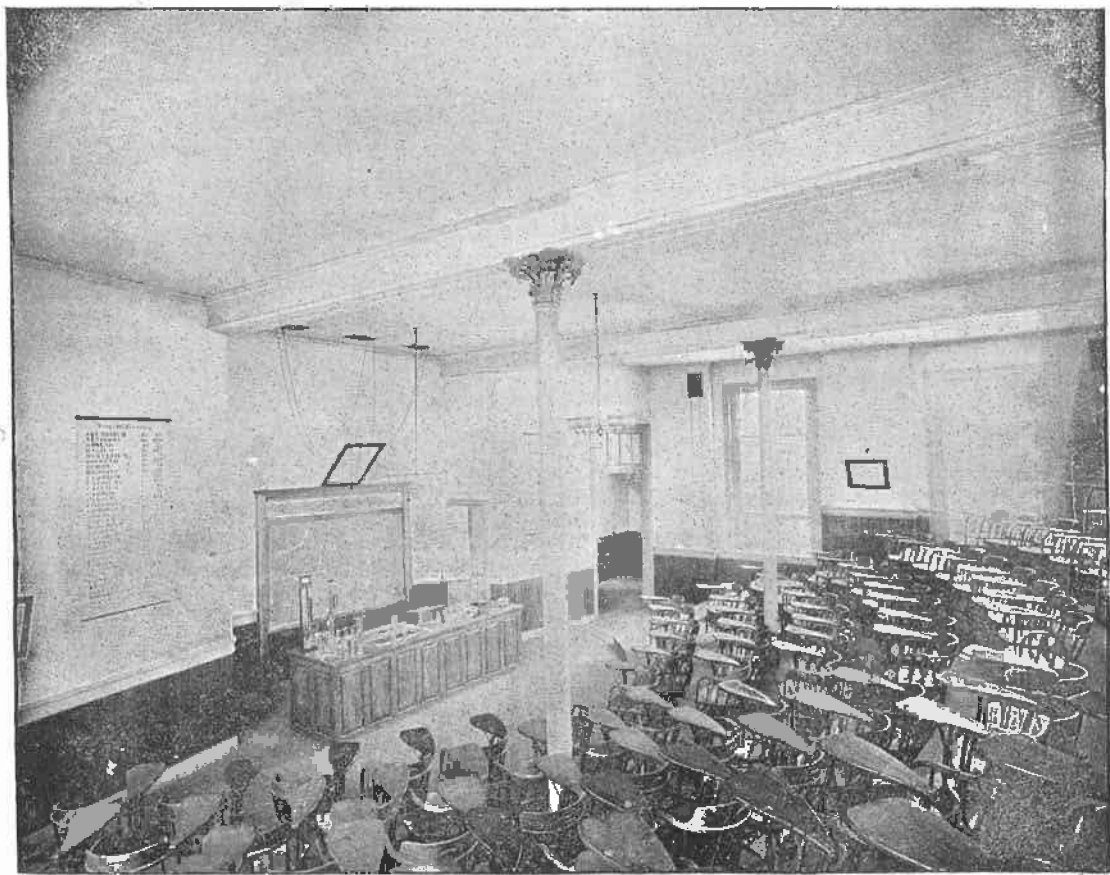
*Chemistry.*—May 4th, at 9 A. M.

*Microscopy.*—May 5th, at 9 A. M.

*Pharmacy.*—May 6th, at 3 P. M.

*Materia Medica.*—May 7th, at 3 P. M.

*Board Examination.*—May 9th, at 9 A. M.



CHEMICAL LECTURE HALL.



PHARMACEUTICAL LABORATORY.

## 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 be possessed of a good moral character.

1. He must have attended two full courses of Lectures, either both at this College, or one at another College of Pharmacy, and 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 at this College.

4. He must have passed successfully an examination in Analytical Chemistry, Pharmaceutical Manipulations, Pharmacognosy and Microscopy; also, a written examination in Chemistry, Pharmacy and Materia Medica, and an additional written and practical examination by the Board of Examiners.

6. On or before April 25, the candidate must present the graduation fee and a *letter from his parents or some authorized person certifying to his age.*

## ADVANCED COURSE IN PHARMACY.

A POST-GRADUATE COURSE leading to the degree of Doctor of Pharmacy, has been provided for. Admission to this course is open to Graduates in Pharmacy only, and will depend upon the applicant's fitness for advanced studies, which is to be determined by the Faculty in each individual case. The chief features of this course will be Advanced Laboratory work, accompanied by suitable Lectures; the instruction will be almost wholly of a practical nature, and continue throughout one full session of thirty-two weeks. Students must come prepared to devote five whole days of every week to their work, and will be expected to submit to the Faculty, two weeks before the close of the session, an original thesis, or dissertation, upon some work performed by themselves. Satisfactory evidence must be furnished to the Board of Trustees that the candidate for the degree of Phar. D. has had, at least, four years experience at the prescription counter of some well regulated pharmacy.

Students unable to devote the whole time required in one session to the pursuit of advanced work, may extend the course over a period of two sessions by notifying the Faculty

of such intention, so that the work may be appropriately divided up.

The tuition fee for the Post-Graduate course will be \$125, and the Diploma fee \$25 additional.

#### COMMENCEMENT.

The Commencement exercises take place annually, about the latter part of May. The entire expense of this is borne by the College, and, under its direct charge and direction, complete preparations are made and executed. It was the custom in past years for the students to have major representation in the Commencement Council, but the growing tendency was towards so much dissatisfaction that the College has been compelled to assume control of all arrangements in the future.

#### RENEWAL LECTURE TICKETS.

Students who intend taking Lectures on any one branch for more than one year, will have to purchase "Renewal Lecture Tickets," for price of which see table of fees. This aims simply to strengthen the caliber of each class, as the extra charge for additional attendance will stimulate students to make the best of their present time, and not to procrastinate in idleness, in the vain delusion of there being plenty of time in the future to take the classes over at no extra expense.

#### PROFESSIONAL DEGREES.

The degree conferred at the successful termination of the regular course is that of Graduate in Pharmacy (Ph. G.).

The degree of Doctor of Pharmacy (Phar. D.), will be conferred on those who fulfil the requirements of the Post-Graduate course.

#### CERTIFICATE OF EXAMINATION.

Any student may apply for final examination at the expiration of the *full collegiate course*. Should the examination prove successful, he shall receive a *Certificate of Examination*, to be subsequently exchanged for the Diploma when all of the necessary conditions have been fulfilled.

#### OPENING RECEPTION TO STUDENTS.

During the first or second week of the session a reception will be tendered the Junior and Senior Classes jointly, by the Faculty and officers of the College, in order to give

the Matriculants an opportunity of meeting their instructors and to bring the students of both classes into closer acquaintanceship with each other. This reception will be strictly informal, and all students are invited to attend.

#### EMPLOYMENT.

While 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 limited number of young gentlemen annually succeed in finding suitable employment in retail drug stores of this city. The officers of the College stand ever ready to aid those students in securing positions, to whom employment is a matter of necessity.

#### BOARD.

While the expenses of living in Baltimore are far less than in many cities, at the same time they, of course, can vary according to the habits and desires of the students. Board can be obtained from \$4 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.

#### COLLEGE PRIZES.

Appropriate College Prizes, rating according to merit, will be presented at each Annual Commencement to the three successful candidates for graduation who acquit themselves most creditably at the examination. A suitable Premium will also be awarded at each Annual Commencement to the most proficient member of the Junior Class.

In order to give greater stimulus to the study of practical pharmacy, the most important branch of our profession, an appropriate Prize will be presented to that member of the *graduating* class who shall make the highest record in both theoretical and practical examination in 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 *now must attain maximum in both departments.*

As before, work in every preparation made by each student, will have its bearing and rating, so that this, together with the final examinations, will be the strict basis for the Board of Examiners to determine, judiciously and fully, the most proficient, and hence the most successful Prize student.

A medal is also presented at each Annual Commencement to that member of the Graduating Class who may have proved himself most proficient in Analytical Chemistry.

#### ALUMNI PRIZE.

This Prize, a gold medal, will be awarded by the Alumni Association for such an original dissertation on work performed by a successful candidate for the degree of Doctor of Pharmacy, in the Post-graduate course, at this college, as, in the opinion of the Prize Committee of the Association may deserve this distinction.

Students intending to compete for this Prize must notify the Corresponding Secretary of the Alumni Association to this effect at the time of their selection of the subject of their work, which subject must have the approval of the Professor in whose branch it may have been chosen. The paper embodying the work must be presented to the President of the Association at least two weeks prior to the closing of the course.

#### TEXT BOOKS.

"U. S. Pharmacopœia," "Simon's Manual of Chemistry," "Caspari's Treatise on Pharmacy," "Culbreth's Pharmaceutic Botany," Culbreth's *Materia Medica* and Pharmacology," "Bastin's Laboratory Exercises," "Gray's Manual of Botany."

#### BOOKS OF REFERENCE.

"National and United States Dispensatories," Remsen's *Theoretical and Organic Chemistry*," "Beal's *Chemical Arithmetic*," "Curtman's *Chemical Analysis*," "Maisch's *Organic Materia Medica*," Gray's *New Lessons in Botany*."

#### TABLE OF FEES.

<i>Matriculation</i> , paid but once.....	\$ 5 00
<i>General Lecture and Laboratory Ticket</i> :	
For Junior Students.....	80 00
For Senior Students.....	90 00

These tickets entitle the holders to a full term of instruction in the Junior and Senior course, respectively, including Lectures in Pharmacy, Chemistry, Botany, *Materia Medica* and Pharmacognosy, the weekly reviews in all of these branches and Laboratory instruction in Practical Pharmacy, Analytical Chemistry and Microscopy.



## 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 .....	7.50
To Class in Practical Botany.....	5.00

Students taking the regular course in the Chemical Laboratory and desiring to work additional hours, can do so, after securing tickets, which will be issued at the rate of \$2.50 for a three-months course, entitling the holder to three hours instruction weekly.

## RENEWAL TICKETS.

(For Junior or Senior Students.)

To any of the Lecture Courses .....	\$10.00
To any one of the Reviews .....	5.00
To Microscopical Laboratory.....	5.00
Graduation Fee, returned in case of failure ..	15.00

The Matriculation and Lecture Tickets must be taken out at the opening of the session. Students applying for Senior Course Tickets, who have attended their first course in some other college, must show proof of having passed successfully the Junior examination.

*Seats will be assigned to Students in the order in which they secure their tickets.*

The Matriculation Ticket and the tickets for either course may be procured of

SAMUEL MANSFIELD, *Treasurer,*  
No. 1001 West Baltimore Street,  
Baltimore, Md.

## 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.

CHAS. CASPARI, JR., *Dean,*  
Coll. Pharm. Bldg.

. . . . GRADUATES. . . . .

OF THE

**MARYLAND COLLEGE OF PHARMACY.**

MAY TWENTY-FIRST, 1897.



Bantz, Harvey Blackiston, - Maryland	Meyers, George Alvin, - Pennsylvania
Boggan, Robert Franklin, - Tennessee	Milford, James Edward, - - Indiana
Bosley, John Oliver, - - - Maryland	Morrison, Reginald G., - - Virginia
Delcher, Thomas Benton, - Florida	Musgrave, Darius Earl, West Virginia
Denhard, Frederick, - - - Maryland	Parrott, William Thomas, N. Carolina
Dunning, H. A. B., - - - Maryland	Pendergrast, L. H., - - - Georgia
Eader, George Dicht, - - Maryland	Phillips, John Quincy, South Carolina
Eley, Henry S., - - - Virginia	Rosenorn, Theodore, Jr., - Maryland
Ellis, Robert, Jr., - - - Maryland	Rosenthal, Lewis Jay, - - Maryland
Goslau, Justus F. W., - - - Saxony	Scitz, Allen Harvey, - - Pennsylvania
Hartman, Henry Miller, - Pennsylvania	Senclindiver, Judson Holmes, Virginia
Hammerslough, Lewis, - - Maryland	Simpson, Charles E., - - Maryland
Hayden, Robert Pippin, - - Maryland	Small, Charles Matthews, Pennsylvania
Holljes, John Ludwig, - - Maryland	Smith Rudolph R., - - - Maryland
Keerans, Leswie Colton, - N. Carolina	Streett, Otho Hayward, - - Maryland
Kellam, Richard A., - - - Florida	Stringer, Luther Hopkins, S. Carolina
Lawson, William Henry, N. Carolina	Ulman, Ferdinand, - - - Maryland
Lerp, Theodore R., - - Maryland	Waldkoenig, Christian - Maryland
Little, William Oscar, North Carolina	Watchman, Henry H., - - Maryland
Love, Bedford Elijah, South Carolina	Wight, Walter Lee, - - - Georgia
McLarty, Howard, . North Carolina	Wilkie, William John, - - - Texas
	Zimmerman, Thaddeus S., Maryland



**PRIZES FROM THE COLLEGE TO THE  
GRADUATING CLASS.**

FIRST COLLEGE PRIZE— <i>Gold Medal,</i>	-	FERDINAND ULMAN
SECOND COLLEGE PRIZE— <i>Gold Medal,</i>	-	WALTER L. WIGHT
THIRD COLLEGE PRIZE— <i>Gold Medal,</i>	-	ROBERT F. BOGGAN
SIMON ANALYTICAL PRIZE— <i>Gold Medal,</i>		LUTHER H. STRINGER
PRACTICAL PHARMACY PRIZE— <i>Gold Medal,</i>	- -	J. O. BOSLEY
JUNIOR CLASS PRIZE— <i>Gold Medal,</i>	- - -	C. L. JOHNSON

. . . JUNIOR STUDENTS ENTITLED TO HONORABLE MENTION. . .

T. M. HOOKER.	MARK D. SULLIVAN.	N. H. McCALLUM.
C. W. FOLCKEMMER.		C. F. HERNDON.

## Students, Session 1896-'97.

### SENIORS.

NAME.	STATE.	PRECEPTOR.
BOSLEY JOHN OLIVER.....	Maryland.....	A. G. Sturgiss.
BOGGAN, ROBERT FRANKLIN.....	Tennessee.....	Dr. R. E. L. Hall.
BANTZ, HARVEY BLACKSTON.....	Maryland.....	H. Clay Shaw, Va.
COLLIER, LEVIN D., JR.....	Maryland.....	Leam D. Collier.
DENHARD, FREDERICK.....	Maryland.....	J. A. Wager.
DELCHER, THOMAS BENTON.....	Florida.....	W. H. Moore.
DUNNING, H. A. B.....	Maryland.....	Hynson, Westcott & Co.
EADLER, GEORGE DIEHL.....	Maryland.....	Buchman Bros.
ELFY, HENRY.....	Virginia.....	Brady & Roberts, Va.
ELLIS, ROBERT, JR.....	Maryland.....	N. T. Long.
FIFER, GEORGE WILLIAM.....	Virginia.....	Wilson Bros. Va.
GOSLAU JUST, S. E. W.....	Saxony.....	J. P. B. Goslau.
GALLAGHER, GERALD P.....	Pennsylvania.....	
HOLLIES, JOHN LUDWIG.....	Maryland.....	Dr. J. F. Hempel.
HARTMAN, HENRY MILLER.....	Pennsylvania.....	John Baughman.
HAMMERSLOUGH, LEWIS.....	Maryland.....	J. C. Hanser.
HAYDEN, ROBERT P.....	Maryland.....	Hynson, Westcott & Co.
KERRANS, LESWIE COLTON.....	North Carolina.....	Thomas Reese, N. C.
KELLAM, RICHARD AMASA.....	Florida.....	Dr. R. T. West, Fla.
LEWIS, THOMAS BEAL.....	Maryland.....	G. F. Londerman.
LAWSON, WILLIAM HENRY.....	Virginia.....	G. E. Faulkner, Va.
LOVE, BEDFORD ELIJAH.....	North Carolina.....	W. R. Hambrick, N. C.
LITTLE, WILLIAM OSCAR.....	North Carolina.....	J. L. Wooten, N. C.
LERP, THEODORE R.....	Maryland.....	W. B. Dickmson.
MUSGRAVE, DARIUS EARL.....	West Virginia.....	A. R. Barbie, W. Va.
MORRISON, REGINALD G.....	Virginia.....	John M. Wiesel.
MILFORD, JAMES EDWARD.....	Indiana.....	E. C. Keick, Ind.
MCLARTY, HOWARD.....	North Carolina.....	S. L. Robinson.
MEYERS, GEORGE ALVIN.....	Pennsylvania.....	Gardner, Gross & Co., Pa.
PENDERGRAST, LEVI HULL.....	Georgia.....	Dr. J. T. Reese, Ga.
PARROTT, WILLIAM THOMAS.....	North Carolina.....	C. H. Beeten.
PHILLIPS, JOHN QUINCY.....	South Carolina.....	R. R. Calhoun, S. C.
PURDUM, HENRY DORSEY.....	Maryland.....	N. C. Mules.
ROSENTHAL, LEWIS JAY.....	Maryland.....	
ROST, ERNEST.....	Maryland.....	A. Schrader.
REYNOL, HARLSTON EARL.....	South Carolina.....	H. C. Livingston.
ROSEBORN, THEODORE, JR.....	Maryland.....	O. Wreckshaven.
SENCINDIVER, JUDSON HOLMES.....	Virginia.....	C. P. Kearfoot, Va.
SIGG, JOSEPH R. WARD.....	North Carolina.....	
STRINGER, LUTHER HOPKINS.....	South Carolina.....	Carpenter Bros S. C.
SMALL, CHARLES MATTHEWS.....	Pennsylvania.....	H. Quay McEwee, Pa.
SEITZ, ALLAN H.....	Pennsylvania.....	Dr. James Gary, Pa.
STREETT, OTTIC HAYWARD.....	Maryland.....	
SMITH, RUDOLPH R.....	Maryland.....	W. H. Rullman.
STMPSON, CHARLES E.....	Maryland.....	W. S. Merrick.
TRUITT, J. GORDON.....	Maryland.....	R. K. Truitt.
ULMAN, FERDINAND.....	Maryland.....	
WALDKOEINIG, CHRISTIAN.....	Maryland.....	Dr. L. F. Kornman.
WATCHMAN, HENRY HERMAN.....	Maryland.....	C. C. Habliston.
WILKE, WILLIAM JOHN.....	Texas.....	H. V. Schuman.
WAGNER, CLARENCE.....	Maryland.....	L. G. Fernsner.
WIGHT, WALTER LEE.....	Florida.....	Lewis & Co., Fla.
ZIMMERMAN, T. ELMER.....	Maryland.....	H. C. Valentine.

## JUNIORS.

ARMFIELD, HORACE.....	North Carolina.....	<i>J. P. Monroe, N. C.</i>
BACON, EPHRAIM.....	Maryland.....	<i>W. M. Fouch.</i>
BROWN, HAMPTON E.....	Maryland.....	
BUCKLE, JOHN CARROLL.....	Virginia.....	<i>B. F. Hughes, Va.</i>
BUNTZ, HERMAN BROWN.....	Pennsylvania.....	<i>John G. Beck.</i>
BRENNER, PHILIP FREDERICK.....	Maryland.....	<i>Robert Luck.</i>
BELL, GEORGE ROBERTSON.....	Virginia.....	<i>Willson Bros., Va.</i>
BENSWANGER, WILLIAM.....	Maryland.....	
COPE, JAMES.....	South Carolina.....	<i>J. G. Wanamaker, S. C.</i>
DIERING, WILLIAM LOUIS.....	Maryland.....	<i>D. F. Omen.</i>
DALRYMPLE, HENRY LEROY G.....	Pennsylvania.....	<i>B. J. Cannon, Pa.</i>
DAVIS, BENJAMIN CHARLES.....	Canada.....	<i>Hynson, Westcott &amp; Co.</i>
FOLCKE WYMER, CHAS WARNER.....	Pennsylvania.....	<i>Dr. James Gery, Pa.</i>
GROVE, CHARLES ELMER.....	Virginia.....	<i>Dr. W. Hodson, Va.</i>
GALLOWAY, LOUIS EUGENE.....	Maryland.....	<i>C. H. Knight.</i>
HUDSON, JOHN JAMES.....	Maryland.....	<i>Henry Schmidt.</i>
HOOKER, THOMAS MENAN.....	North Carolina.....	<i>John L. Wooten, N. C.</i>
HERNDON, CHARLES FORTSON.....	Georgia.....	
HOMPHRIES, WOPFORD FORREST.....	South Carolina.....	
HURST, JESSE HENRY BOULDFEN.....	Kentucky.....	
JOHNSON, CHARLES LUTHER.....	West Virginia.....	<i>W. C. Shelton, W. Va.</i>
JARRETT, GOY LESLIE.....	Pennsylvania.....	<i>J. Miles Yost, Pa.</i>
JORDAN, EDWARD ROSS.....	Maryland.....	
KNIGHT, EDWARD FRANK.....	Maryland.....	<i>James A. Leaf.</i>
KOLDREWEY, THEODORE.....	Maryland.....	<i>A. Koldrewey.</i>
LEE, GEORGE MAURICE.....	Maryland.....	<i>J. S. Denton.</i>
LEHNERT, ERNEST J. C.....	Maryland.....	<i>C. Freyer.</i>
LENNAN, ALVIN BROOKS.....	Maryland.....	<i>Paul Lawtenbach.</i>
MCCALLUM, NEILL HINTON.....	North Carolina.....	<i>J. H. Wilkin.</i>
MILLER, CHARLES W.....	Maryland.....	<i>C. E. Sonnenberg.</i>
MILLER, ERNEST H.....	North Carolina.....	<i>W. F. Hall, Jr.</i>
MCCALLIBY, CHARLES WESLEY.....	Maryland.....	
OVLER, JOHN HURSH.....	Pennsylvania.....	<i>H. C. Valentine.</i>
PENNINGTON, SAM'L WETTERILL.....	Maryland.....	<i>Dale, Hart &amp; Co.</i>
ROSSBERG, WILLIAM.....	Maryland.....	
RANSON, BRISCOE BALDWIN.....	Virginia.....	<i>Hoghead, Hanger &amp; Co., Va.</i>
RICHARDSON, WALTER SMITH.....	South Carolina.....	<i>I. M. &amp; N. T. Richardson, S. C.</i>
RECKITT, CHARLES EDWARD.....	Maryland.....	<i>C. H. Dorley.</i>
ROACH, ALEXANDER N. T.....	South Carolina.....	<i>T. S. Forie, S. C.</i>
SULLIVAN, MARK D.....	South Carolina.....	<i>J. F. C. Kiepper.</i>
STEWART, SAMUEL HOUSTON.....	Maryland.....	<i>W. H. Stewart.</i>
STROBEL, EDWARD J. A.....	Maryland.....	<i>A. M. Omen.</i>
SCHWAKZENBACH, C. EUGENE, JR.....	Maryland.....	<i>J. V. D. Stewart &amp; Co.</i>
SCHNEIDBR, JOHN G. J.....	Maryland.....	<i>Dr. John Ard.</i>
TAYLOR, JOHN RICHARDSON.....	Louisiana.....	<i>James A. Lee, La.</i>
TULLMAN, EVERARD EBERT.....	North Carolina.....	<i>Praxton, Hardison &amp; Co., N. C.</i>
TOLSON, BERT DURHAM.....	Maryland.....	<i>C. D. Williams.</i>
THOMAS, ALBERT NELSON.....	Maryland.....	<i>A. R. Milby.</i>
TREIBER, WILLIAM HENRY.....	Maryland.....	<i>C. H. Holtzman.</i>
VOGEL, CHARLES FREDERICK.....	Maryland.....	<i>H. Scheuffer.</i>
VOGEL, GEORGE WILLIAM.....	Maryland.....	<i>George Weller.</i>
WARD, HOMER BEN AMIN.....	North Carolina.....	<i>E. J. Ward, N. C.</i>
WALTHAM, ALAN P. S.....	Maryland.....	<i>M. S. Kahn.</i>
WOLFF, JOHN G. L.....	Maryland.....	<i>C. P. Truppe.</i>
WENDEL, GEORGE HERMAN.....	Maryland.....	<i>H. Nordmann.</i>
WALDSCHMIDT, HENRY.....	Maryland.....	
WHITAKER, WALTER BENJAMIN.....	Maryland.....	<i>Dr. A. S. Harrison.</i>
YOUNG, JOHN HOLLAND.....	South Carolina.....	<i>Dr. J. W. Young, S. C.</i>
ZEPF, WILLIAM SCOTT.....	Maryland.....	<i>Jos. D. Zepf.</i>
ZWANZGER, GEORGE A. L.....	Maryland.....	<i>John H. Zwanzger.</i>

# ALUMNI ASSOCIATION, M. C. P.

## PREAMBLE TO CONSTITUTION.

"For the purpose of promoting an earnest interest in their Alma Mater and of cultivating a feeling of brotherhood and friendly fellowship among themselves, and to stimulate the graduates and students of the Maryland College of Pharmacy to the attainment of more advanced scholarship, the Alumni of the College have formed this Association."

N. B.—Be loyal! Every graduate of the Maryland College of Pharmacy should become and remain a member of this Association. Annual dues, devoted to above purposes, only one dollar. Write our Corresponding Secretary. (See address below.)

This Association is at all times in search of information concerning the welfare of all graduates of this College, especially of their election or appointment to any public or private positions of honor and trust. Our Alma Mater is always happy to receive such good news, and its announcement at our meetings can only be the cause of mutual rejoicing.

Notice of the death of any alumnus of the M. C. P., together with a sketch of the life of the deceased, if possible, should be forwarded either to the Corresponding Secretary of this Association or to the Secretary of the College.

When you visit Baltimore, do not fail to call on your Alma Mater. You are always cordially welcome at her home.

Alumni Prize. See announcement, page 20.

It is desired to keep a complete and correct register of the addresses of all graduates of the M. C. P. Please notify the Corresponding Secretary of any change in your address.

Address all communications to the Corresponding Secretary.

## OFFICERS: ('97-'98.)

PRESIDENT—E. B. FISCHER, '78.  
1500 E. Fayette Street, Baltimore, Md.  
1ST VICE-PRESIDENT—LUTHER H. STRINGER, '97.  
2ND " " WM. CASPARI, JR., '81.  
3RD " " WM. W. BOWERS, '92.  
RECORDING SECRETARY—J. F. CHAS. KLEPPER, '92.  
CORRESPONDING SECRETARY—SAM. LE ROY ROBINSON, '95.  
Greene and Franklin Streets.  
TREASURER—JAMES W. WESTCOTT, '89.  
423 N. Charles Street.

## STANDING COMMITTEES.

SOCIAL FEATURES—PAUL CALDWELL, '96, Chairman.  
HENRY MAISCH, '83. DAVIS VELLINES, '85.  
JOHN C. HUTHWELKER, '96. J. EDWIN HENGST, '77.  
PUBLICATION—CHAS. CASPARI, JR., '69, Chairman.  
ALFRED LAPOURAILLE, '86. GEO. H. THOMPSON, '83.  
AUDITING—E. E. QUANDT, '87, Chairman.  
GEO. HELLEK, '95. A. E. THOMPSON, '71.  
DECEASED MEMBERS—JOHN F. HANCOCK, '60, Chairman.  
ED. H. KABERNAGEL, '81. DR. JOS. BLUM, '83.  
IMPROVEMENT FUND—JOHN A. DAVIS, '84, Chairman.  
CHAS. DORME, '62. JOHN B. THOMAS, '72.  
DR. D. M. R. CULBRETH, '79. JOHN H. HANCOCK, '70.  
PRESIDENT'S ADDRESS—J. FULLER FRAMES, '82, Chairman.  
JOHN AYD, '75. J. WEBB FOSTER, '81.  
REVISION OF CONSTITUTION AND BY-LAWS—LOUIS DORME, '57, Chairman.  
FRANK M. BLANNY, '75. JOHN R. GEORHEGAN, '78.

# Diluted Fluid Extracts Are Not Tinctures

The United States Pharmacopoeia gives formulae for making Tinctures, others for making Fluid Extracts, on which basis each is prescribed and should be dispensed.

As human lives depend upon the exactitude of medication, the greatest care should be exercised to guard its accuracy.

There is a marked saving to the pharmacist in making his own preparations in addition to the correct results attained.

We grind the finest drugs obtainable for percolation, and where assay is practicable, give their strength on the label.

SEND FOR PRICE LIST  
FORMULARY and SAMPLES.

## Gilpin, Langdon & Co.

Baltimore, Maryland.

# SHARP & DOHME.

ESTABLISHED 1860.

NEW YORK.

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Manufacturers of the following line of  
**Standard Pharmaceutical  
Preparations:**

Fluid Extracts.  
Solid Extracts,  
Powdered Extracts.  
Resinoids.  
Sugar and Gelatin Coated Pills.  
Enteric Coated Pills.  
Granular Effervescent Salts.  
Soluble Hypodermic Tablets.  
Compressed Tablets.  
Medicated and Throat Lozenges.  
Tablet Triturates.  
Elixirs.  
Wines, Glyceroles and Cordials.  
Tinctures.  
Ointments.  
Plain and Emulsion Cod Liver Oil.  
Pressed Herbs.  
Soft Elastic and Hard Empty Capsules.

## SPECIALTIES:

Ergotole—concentrated purified Extract of Ergot.  
Lapactic Pills—small, active, reliable.  
Panpeptic Elixir—a palatable digestive.  
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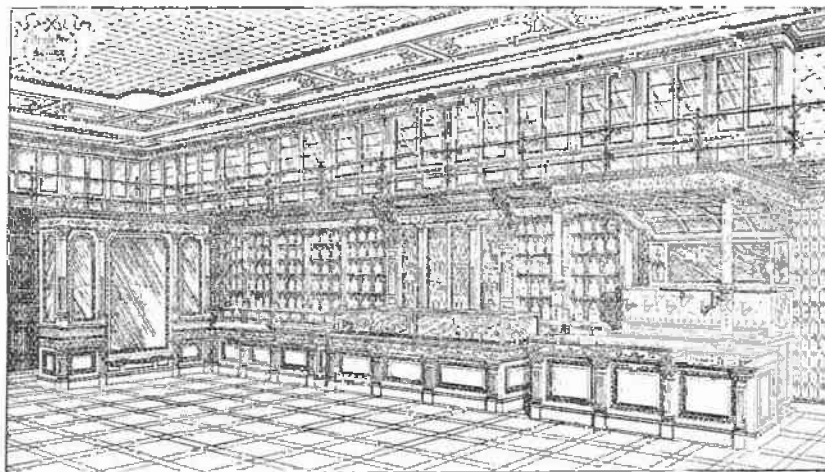
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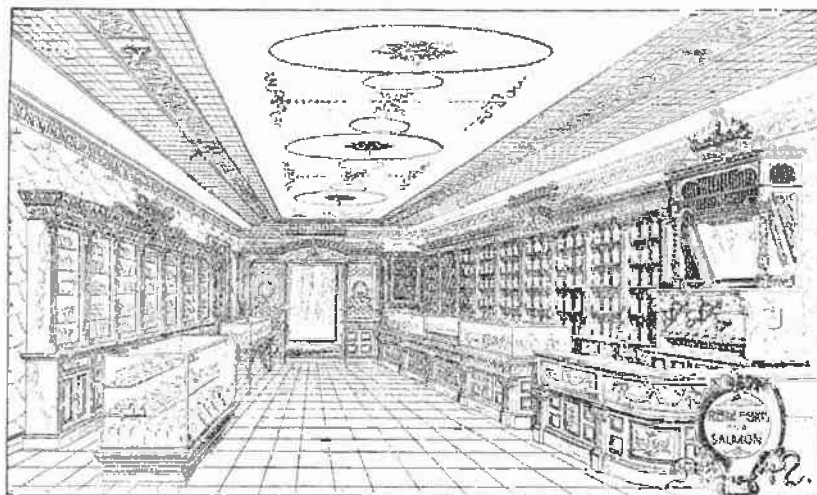
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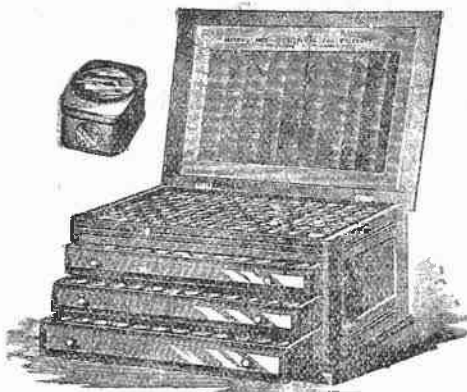
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