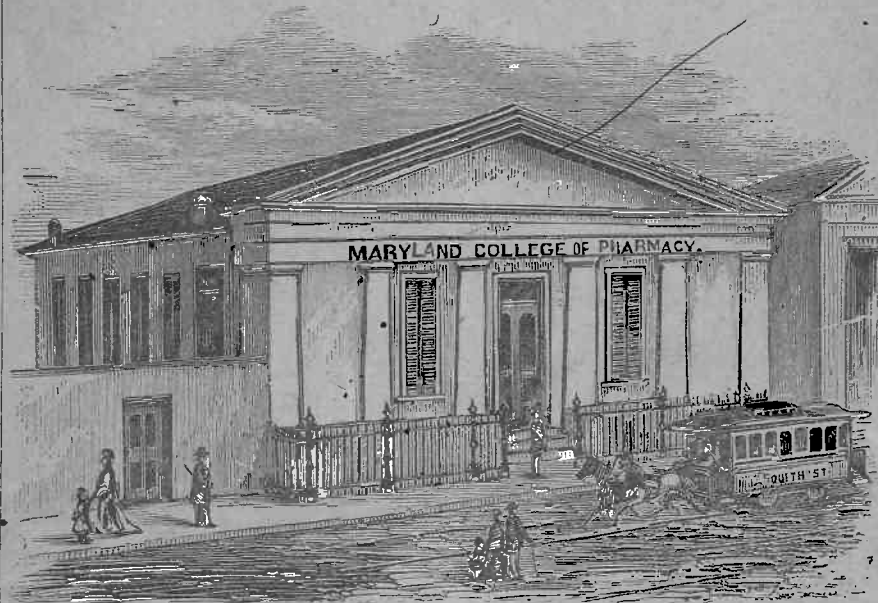


ANNUAL ANNOUNCEMENT

OF THE

Maryland College of Pharmacy



ESTABLISHED 1841.

SESSION OF 1884-85.

BALTIMORE:
THE SUN JOB PRINTING ESTABLISHMENT.

1884.

The Annual Course of Instruction in the Collège will commence on Tuesday, October 7, 1884, at 3 o'clock P. M., and will continue until the close of February.

ROSTER.

SENIORS.	JUNIORS.	SENIORS.	JUNIORS.
Monday.	Tuesday.	Wednesday.	Thursday.
Prof. Caspari, Practical Pharmacy, 3 to 6 P. M.	Prof. Simon, Chemistry, 3 to 4½ P. M. — Prof. Caspari, Pharmacy, 4½ to 6 P. M.	Prof. Caspari, Practical Pharmacy, 3 to 6 P. M.	Prof. Moore, Mat. Med. and Botany, 7½ to 9 P. M.
JUNIORS.	SENIORS.	JUNIORS.	SENIORS.
Prof. Simon, Analytical Chemistry, 3 to 6 P. M.	Prof. Moore, Mat. Med. and Botany, 7½ to 9 P. M.	Prof. Simon, Analytical Chemistry, 3 to 6 P. M.	Prof. Caspari, Pharmacy, 3 to 4½ P. M. — Prof. Simon, Chemistry, 4½ to 6 P. M.

Instructions in Practical Pharmacy will commence October 13th, 1884, and continue 'till February 28th, 1885.

Instructions in Analytical Chemistry will commence about February 2d, 1885, and continue to June 1st.

ANNUAL ANNOUNCEMENT

OF THE

Maryland College of Pharmacy



—ESTABLISHED 1841.—

SESSION OF 1884-85.

BALTIMORE:
THE SUN JOB PRINTING ESTABLISHMENT.
1884.

OFFICERS OF THE COLLEGE,
CONSTITUTING THE
BOARD OF TRUSTEES.

PRESIDENT:
JOSEPH ROBERTS.

FIRST VICE-PRESIDENT:
N. H. JENNINGS.

SECOND VICE-PRESIDENT:
LOUIS C. ROEHLE.

SECRETARY:
JNO. W. GEIGER,
Corner Pratt and High Streets.

TREASURER:
SAMUEL MANSFIELD,
S. W. Corner Baltimore and Schroeder Streets.

BOARD OF EXAMINERS:
LOUIS DOHME,
EDWIN EARECKSON,
ROBT LAUTENBACH.

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FACULTY.

J. FARIS MOORE, M. D. PHAR. D.

Professor of Botany and Materia Medica.

S. W. Cor. Howard and Madison Sts.

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

Professor of Practical Chemistry,

Catonsville, Md.

CHARLES CASPARI, JR., PH. G.

Professor of Theory and Practice of Pharmacy,

N. W. Cor. Baltimore and Fremont Streets.

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

Professor of Analytical Chemistry.

CHARLES CASPARI, JR., PH. G.

Director of Pharmaceutical Manipulations.

Text-Books.

PARRISH'S PHARMACY.

UNITED STATES DISPENSATORY.

STILLE & MAISCH'S NATIONAL DISPENSATORY.

UNITED STATES PHARMACOPŒIA.

GRAY'S SYSTEMATIC AND STRUCTURAL BOTANY.

SIMONS' CHEMISTRY (IN PREPARATION).

ATTFIELD'S CHEMISTRY.

WILL'S ANALYTICAL CHEMISTRY AND TABLES.

Books of Reference.

MAISCH'S MANUAL OF ORGANIC MATERIA MEDICA.

BENTLY'S MANUAL OF BOTANY.

PROCTOR'S LECTURES ON PRACTICAL PHARMACY.

ROSCOE'S CHEMISTRY.

FOWNE'S CHEMISTRY.

HOFMAN & POWER'S ANALYTICAL CHEMISTRY

GRADUATES

OF THE

Maryland College of Pharmacy.

March, 1884.

BELLERMAN, LOUIS—Tinct. Nucis Vomicae.....	Maryland
BUSCHMAN, CHARLES—Chemistry.....	Maryland
BROWN, REINHART L.—Boric Acid.....	Ohio
BERNSTEIN, E. J.—Heat.....	Maryland
DAVIS, CHARLES E.—C. P. Acids.....	Pennsylvania
DAVIS, JOHN A.—Resinoid Substances.....	North Carolina
DOWNEY, WM. C.—Hydrargyri and its Compounds....	District of Columbia
DUNHAM, WM. L.—Chromium.....	Pennsylvania
EPPLEY, J. K.—Pharmacy.....	Maryland
FORREST, CHARLES W.—Cantharis.....	Maryland
GROOME, JOHN C.—Hydrargyri. Chlor Corros.....	Pennsylvania
HATHEWAY, H. H.—Pharmacy.....	Ohio
HENNICK, JOHN M.—Carbon.....	Maryland
KOLB, GEORGE—Plumbum.....	Maryland
KORNMANN, LOUIS F.—Zinc.....	Maryland
MOYER, ELMER E.—Carbon.....	Pennsylvania
METZGER, CHARLES—Podophyllin.....	Maryland
OREAR, WM. B.—Eucalyptus.....	Maryland
RICHARDSON, THOMAS L.—Pills and Pill Excipients.....	Maryland
SHAW, THOMAS K.—Cannabis Indica.....	Maryland
SULZBACHER, W. L.—Pepsin.....	Ohio
STUART, GEORGE H.—Powdered Extracts.....	Maryland
SHIPLEY, CHARLES—Ergot.....	Maryland
SULTAN, FREDERICK—Salicylic Acid.....	Maryland
STRAUSS, CONRAD P.—Citric Acid.....	Maryland
SCHULTZE, LOUIS—Hydrargyri.....	Maryland
SAPPINGTON, PURNELL F.—Belladonna.....	Maryland
TALIAFERRO, W. B.—Analytical Chemistry.....	Virginia
TREHERNE, J. CURTIS—Cinchona Preparations.....	Virginia
WOODCOCK, J. HENRY—Sulphur.....	North Carolina

Prizes from the College to the Graduating Class:

<i>First Prize, GOLD MEDAL</i> —CONRAD P. STRAUSS.....	Maryland
<i>Second Prize, GOLD MEDAL</i> —W. L. SULZBACHER.....	Ohio
<i>Third Prize, GOLD MEDAL</i> —L. F. KORNMANN.....	Maryland
<i>Simon Analytical Prize, GOLD MEDAL</i> —FRED. W. SULTAN.....	Maryland
<i>Practical Pharmacy Prize, TROEMNER'S SOLUTION BALANCE</i> —THOS. L. RICHARDSON.....	Maryland

Prize from College to Junior Class:

HOFFMANN AND POWER'S CHEMISTRY—LEE M. WHITSITT.....	Texas
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Junior Students Entitled to Honorable Mention:

WM. J. WALTER,	L. D. LITTLE,	HOWARD MULLIKIN,
W. A. CONWAY,	H. J. DICKINSON,	A. O. BRICKMAN, Jr.

CLASS OF 1883-'84.

STUDENT.	STATE.	PRECEPTOR.
AMMEN, CHARLES.....	Virginia.....	
ARNODT, FRANK.....	Maryland.....	<i>R. Sappington.</i>
ARNOLD, LINTON S.....	Georgia.....	<i>W. D. Piggott.</i>
ASKEW, THOS. S.....	North Carolina.....	<i>Isaac Emerson.</i>
BARTON, FRED. H.....	Maryland.....	<i>Arnold & Co.</i>
BELLERMAN, LOUIS.....	".....	<i>W. M. Hughes.</i>
BENNETT, SAM'L E.....	".....	
BERNSTEIN, E. J.....	".....	<i>Charles Beck.</i>
BLAND, W. H.....	Mississippi.....	<i>J. J. Bland, Mississippi.</i>
BLASS, J. HENRY.....	Maryland.....	<i>Schulte Bros.</i>
BOEDEKER, W. H.....	Texas.....	
BOOZE, W. H.....	Maryland.....	
BOURKE, JAS. W.....	".....	<i>S. W. Bode.</i>
BRADLEY, E. T.....	Texas.....	<i>Bradley & Treadgill, Texas.</i>
BRICKMAN, ARTHUR O.....	Maryland.....	<i>C. C. Habliston.</i>
BROWN, REINHART L.....	Ohio.....	<i>George R. Stiltz.</i>
BROWN, WILBUR.....	Maryland.....	<i>J. B. Barley & Son.</i>
BRYAN, J. W.....	North Carolina.....	<i>J. Favis Moore.</i>
BUSCHMAN, CHAS. H.....	Maryland.....	<i>John Schwartz & Co.</i>
CHAPMAN, CHAS. B.....	".....	<i>J. B. Bazley & Son.</i>
CLAGETT, H. M.....	".....	<i>John A. Webb.</i>
CLARK, ADAM.....	".....	<i>J. W. Brown.</i>
CONWAY, W. A.....	Dist. of Columbia.....	<i>E. W. Russell.</i>
COOK, CHAS. C.....	Maryland.....	<i>Thomas & Thompson.</i>
CORBIN, L. C.....	Virginia.....	<i>E. L. Strickler.</i>
DAVIS, CHAS. E.....	Pennsylvania.....	<i>Risk Bros.</i>
DAVIS, HARVEY E.....	Maryland.....	<i>C. R. Webster.</i>
DAVIS, JOHN A.....	North Carolina.....	<i>E. H. Perkins.</i>
DAY, E. LESLIE.....	West Virginia.....	<i>Lilly, Rogers & Co.</i>
DICKINSON, HARVEY J.....	Maryland.....	<i>J. A. Dickinson.</i>
DIELMAN, L. H.....	".....	<i>Croft & Conlyn.</i>
DOWNEY, W. C.....	Dist. of Columbia.....	<i>H. C. Moore.</i>
DROUGHT, A. M.....	Maryland.....	<i>Coleman & Rogers.</i>
DUNHAM, W. L.....	Pennsylvania.....	<i>R. Petzold.</i>
DUNN, W. F.....	Delaware.....	<i>Roe & Smith.</i>
EBERT, FERD.....	Maryland.....	<i>Stauff & Foster.</i>
ELLCOTT, F. F.....	".....	<i>W. D. Piggott.</i>
EPPLEY, J. K.....	".....	<i>J. K. B. Emory.</i>
FLAHERTY, W. J.....	".....	<i>J. H. German.</i>
FORREST, C. W.....	".....	<i>J. F. Manger.</i>
GLACKEN, R. M.....	".....	<i>H. C. Moore.</i>
GRÉMPLE, EDWARD.....	".....	<i>W. C. Schiller.</i>
GROOME, J. C.....	Pennsylvania.....	<i>George M. Sutton.</i>
HAMBLETON, SHERWOOD.....	Maryland.....	<i>Howard Silver.</i>
HATHEWAY, H. H.....	Ohio.....	<i>Louis Wolf.</i>
HEMPLE, FREDERICK.....	Maryland.....	<i>J. F. Hancock.</i>
HENNICK, JOHN M.....	".....	<i>E. E. Heironimus.</i>
HEUSER, EDWARD.....	".....	<i>Robert Larstenbach.</i>
IMHOFE, HENRY.....	".....	<i>Vogeler, Son & Co.</i>
JONES, CHARLES.....	".....	<i>Edward Jones.</i>
KINNEAR, WM. A.....	".....	<i>James P. Frames & Son.</i>
KOLB, GEORGE.....	".....	<i>Stauff & Foster.</i>
KORNMAN, LOUIS F.....	".....	<i>John Schwartz.</i>

STUDENT.	STATE.	PRECEPTOR.
LACIAR, ALBERT J.	Pennsylvania	L. C. Horn.
LANG, NICHOLAS T.	Maryland	Theodoric Smith.
LANKFORD, E. E.	"	Risk Bros.
LENZ, WM.	"	F. Lautenbach.
LINSMEIER, J. C.	"	Wm. Caspari.
LITTLE, L. W.	Ohio	Sharp & Dohme.
MAYKRANTZ, GEORGE.	Maryland	F. A. Meikle.
McKEELEY, C.	New Jersey	Robinson & Co.
MILLS, H. D.	Maryland	George W. Sutton.
MOYER, ELMER E.	Pennsylvania	W. R. Ely.
MULLIKIN, HOWARD.	Maryland	W. J. Parker & Co.
OHLENDORF, J. C., JR.	"	J. C. Ohlendorf.
ONNEN, DEITRICH F.	Germany	E. Esslinger.
OREAR, W. B.	Maryland	Samuel Mansfield.
PARROT, JOHN E.	North Carolina	F. F. Weyler, N. Carolina.
RAIBER, ALBERT G.	Maryland	F. Hassencamp.
REUNDOLLAR, LOUIS	"	J. H. Brown.
RICHARDSON, THOS. L.	"	D. McG. Shipley.
ROTH, JOHN C.	"	Wm. Brude.
ROTH, LOUIS J.	"	Wm. Brude.
RUHL, GEORGE	"	F. H. Ruhl.
RUTHS, GEORGE E.	"	Frank Baker.
SAPPINGTON, P. F.	"	R. Sappington.
SCHULTE, A. W.	"	C. M. Schulte.
SCHULTZ, E. A.	"	T. C. Danahoe.
SCHULZE, LOUIS	"	George A. Francis.
SEEWALD, WM.	"	J. P. Brown.
SHAW, THOS. K.	"	Craft & Conlyn.
SHIPLEY, CHARLES	"	D. McG. Shipley.
SLACK, H. R., JR.	Georgia	T. S. Brudfield, Georgia.
SMITH, R. E. L.	Virginia	N. H. Jennings & Co.
SMITH, THOMAS.	Maryland	W. B. Whiteside.
SOLLERS, C. W.	"	Andrews & Thompson.
SPETZLER, HENRY	"	A. C. Huthwelker.
STEWART, W. H.	"	A. M. Onnen.
STRAUSS, C. P.	"	Sharp & Dohme.
STROUSE, H. F.	"	W. L. Keller & Bro.
STUART, GEORGE H.	"	C. P. Trapp.
SULTAN, F. W.	"	Sharp & Dohme.
SULZBACHER, W. L.	Ohio	J. Gerson.
TALIAFERRO, W. B.	Virginia	E. H. Perkins.
TREHERNE, J. C.	"	J. P. Hyuson.
VAN DEVANTER, R. L.	"	Gilbert, Bros. & Co.
VELLINES, D.	Maryland	Charles Scays.
VOGEL, H. F.	"	W. H. Lotz.
WALTER, W. A.	Pennsylvania	Bayley & Long.
WALTER, W. J.	Virginia	M. S. Kuhn.
WARE, CHARLES H.	Massachusetts	Ware & Co.
WARNEFELD, W. H.	Maryland	Caspari & Nordman.
WEILEPP, BRUNO	"	A. Weilepp.
WHITTITT, LEE M.	Texas	J. F. Moore.
WOLFE, G. H.	Maryland	H. A. Elliott.
WOODCOCK, J. H.	North Carolina	Charles Beck.
WYER, J. P.	Virginia	J. K. B. Emory.

Maryland College of Pharmacy.

ESTABLISHED 1841.

ANNOUNCEMENT.

In presenting the Annual Prospectus of the Maryland College of Pharmacy, the Board of Trustees take great pleasure in referring to its continued prosperity during the past session. Established in 1841, it has, year by year, grown in strength and favor with the profession, till now it enjoys a reputation equal to any teaching College of Pharmacy in our land.

The constant increase in the number of students gives not only a firmer basis for its successful workings, but is also a guarantee of acknowledged confidence with which the College is held by knowing pharmacists. Its location in a great commercial centre affords many advantages to the thoughtful student in the acquirement of associated knowledge. The large number of public institutions, the Academy of Sciences, the free use of the complete and rare library of the Peabody Institute, the Johns Hopkins University, all tend to invite the student's attention from abroad.

The Laboratory appointments and general facilities of the College for the accommodation and thorough instruction of students are very complete, and will still further be increased as the advance in scientific research may demand. The large collection of specimens in botany, materia medica and chemistry, and the abundant supply of chemical and pharmaceutical apparatus possessed by this College, aid greatly in bringing the comprehension of the Lectures nearer to perfection.

The laws already in force in this and other States, together with a general desire for a higher standard of the pharmaceutical profession, make a thorough scientific education essential. This fact the College recognizes, and aims to make every feature, both in equipment and instruction, masterly and perfect.

THE COURSE OF INSTRUCTION.

Following the wise precedent as inaugurated a few years ago, the graded course will be continued. The full course consequently will extend over two years, but will be divided into JUNIOR and SENIOR classes, composed of first and second year students respectively. This arrangement has been found to be a great benefit to the students, as the professors are thereby enabled not only to introduce new and profitable subjects in their departments, but, extending their lectures over two entire sessions, to teach the more elementary portion during the first and the more advanced during the second year.

LECTURES.

The regular Annual Course of Lectures in this College occupies five months, and for this session (1884 '85) will begin on Tuesday, October 7th, 1884, and continue till March 1st, 1885. The curriculum will embrace, as heretofore, the several branches of Pharmacy, Botany, Materia Medica, Practical and Analytical Chemistry and Practical Pharmaceutical Manipulations.

The Lectures will be delivered as follows:

Chemistry and Toxicology.—By Prof. Wm. Simon, Ph. D., on Tuesday afternoons at 3 P. M.

JUNIOR CLASS.—*Pharmacy.*—By Prof. Charles Caspari, Jr., Ph. G., on Tuesday afternoons at 4.30 P. M.

Botany and Materia Medica.—By Prof. J. Faris Moore, M. D., on Thursday evenings at 7.30 P. M.

SENIOR CLASS.—*Pharmacy.*—By Prof. Charles Caspari, Jr., Ph. G., on Thursday afternoons at 3 P. M.

Chemistry and Toxicology.—By Prof. Wm. Simon, Ph. D., on Thursday afternoons at 4.30 P. M.

Botany and Materia Medica.—By Prof. J. Faris Moore, M. D., on Tuesday evenings at 7.30 P. M.

Analytical Chemistry.—By Prof. Wm. Simon, Ph. D., on Monday and Wednesday afternoons at 3 P. M., from February 2d to June 1st.

SENIORS.—*Practical Pharmacy.*—By Prof. Charles Caspari, Jr., Ph. G., on Wednesday and Monday afternoons at 3 P. M., from October 13th, 1884, to about January 28th, 1885.

Proper means of illustrating the Lectures in the several departments are in possession of the College, such as maps, charts, plates, diagrams, etc., etc.

PHARMACY.

PROF. CHARLES CASPARI, JR., PH. G.

JUNIOR COURSE.—The Lectures to this class will be delivered on each Tuesday afternoon during the session. The course will consist of a series of lectures in detail upon the Pharmacopœias, the theories and principles of weights and measures in general standard use, special attention being given to those authorized by the United States, Great Britain, France and Germany. Specific gravity will next be considered, and the principles thoroughly explained and illustrated by practical experiments, showing its great usefulness as applied to pharmacy and chemistry. The details of all those operations which relate to the preparations of crude drugs, and their ultimate use in medicine, will receive due consideration, including the various methods of pulverization, solution, separation, etc. Another portion of the course will be devoted to pharmaceutical operations and extemporaneous pharmacy, as practiced mainly at the dispensing counter, taking care to always note the recent and well advised improvements from recognized authorities. Those pharmaceutical preparations in which no chemical action occurs will be especially dwelt upon, and, wherever possible, will be fully illustrated by practical experiments.

SENIOR COURSE.—The Lectures to this class will be delivered on Thursday afternoons, during the session, and will be devoted chiefly to pharmaceutical chemistry. At the opening of this course a few lectures will be devoted to a careful review of the leading facts and principles of pharmacy, which were explained in the Junior Class in detail, which, however, are of so important a character that a recurrence to the same is very advisable. The Lectures on Pharmaceutical Chemistry will treat of chemicals obtained from the mineral, vegetable and animal kingdoms, and these will be considered mainly as they interest the pharmacist, not the professional chemist.

The chemistry of the mineral kingdom will include the officinal preparations of acids, alkalies, alkaline earths, metallic bodies and other combinations, and those elements directly or indirectly used in medicine. Trade chemicals often used and sold by the pharmacist will also be alluded to, and the preparation of all chemicals on the small scale by the pharmacist and on the large scale by the manufacturer will be fully detailed and explained. Tests of purity will be given and practically applied so as to familiarize the student with those operations oftentimes so very necessary. The officinal methods of assay by use of volumetric solutions will be explained and demonstrated, as they are considered a

very important branch of modern pharmacy. The chemicals from the vegetable kingdom will be carefully studied in their proper order; and while the officinal substances claim the first attention, all which are of medicinal importance will be discussed. The animal kingdom, though yielding but few important medicinal products, will receive particular attention. One or more lectures will be devoted to the practical examination of urine, a subject of great importance to the skilled pharmacist.

It must be borne in mind that the professor, in all these lectures, endeavors to treat each subject very thoroughly, yet in a practical and interesting manner, dwelling mainly on the salient points relating to the article or process under consideration.

PRACTICAL COURSE PHARMACEUTICAL MANIPULATIONS.

PROF. CHARLES CASPARI, JR., PH. G., DIRECTOR.

The Board of Trustees point with satisfaction to the successful establishment, during the past session, of this new department. The necessity of its existence has long been acknowledged by all, but it was thought best not to give it place until every compartment and feature was thoroughly organized and complete. This has now been accomplished, and in fitting out the Laboratory neither expense nor pains have been spared in making its appointments unique and in keeping with those of the foremost pharmaceutical schools. The most approved and recognized appliances have been supplied in every sense, thus bringing the manipulatory art, if possible, nearer to a pleasure and a profession.

The Laboratory has a capacity for the instruction of about seventy-five students at one time. Each table has gas and water-baths attached, and each a closet for the storage of pharmaceutical apparatus and preparations, finished and unfinished. Each student will have entire charge of his table and desk, so that, with the safeguard of lock and key, accurate and thorough work may be pursued to a definite end, with little fear of outside or indirect hindrance.

Instruction in this branch is now looked upon as one of the utmost importance in pharmaceutical education, particularly as much of the work formerly conducted entirely by the apothecary is now in the hands of large manufacturing establishments, and the student in pharmacy is thereby deprived of many valuable opportunities for gaining the necessary experience and self-confidence in the stores, which a personal acquaintance with the various manipulations is sure to bring about.

Fully two-thirds of the total number of senior students were in attendance at the Pharmaceutical Laboratory during the past session, and the great benefits derived therefrom became apparent at the final examinations.

Although as yet the course is an optional one, a rigid examination in Practical Pharmacy will be required of every student presenting himself for graduation; and it is more than likely that at the end of the next session the Board of Trustees will incorporate the course of instruction in Pharmaceutical manipulations in the regular prescribed curriculum of the College.

The Laboratory will be open on Mondays and Wednesdays, from 3 to 6 P. M., from October 13th, 1884, to about January 28th, 1885. Each day's practical work will be preceded by a short lecture, with synopsis from the professor, explaining in detail the precise steps in the manipulatory exercise about to follow. All difficulties which are likely to ensue will be mentioned, and the method of overcoming same will be accurately explained.

In general, the instruction of this department will embrace: Practice with the use of hydrometers, specific gravity bottles and balances; pharmaceutical manipulations, such as the various processes of solution, will receive close attention, so that students may become practically familiar with the best methods; instruction in the use of volumetric test solution, as far as requirements of the Pharmacopœia necessitate a knowledge of the same, when testing the purity and strength of officinal liquids; preparation of tinctures, syrups, oleo-resins, solid and fluid extracts, officinal pill masses, compound powders, solutions, ointments, plasters, etc.; preparation of many chemicals, such as officinal iron solutions, scaly iron salts, some mercury and lead compounds, which the apothecary should and can prepare himself, both with advantage and profit; extemporaneous pharmacy, including the correct reading of prescriptions, the translation of same from one system of weights to another, spreading of plasters, preparation of emulsions, difficult pill masses, and suppositories, as well as consideration of the best method for dispensing incompatible mixtures neatly, quickly and accurately; examination of urine as far as the duties of the apothecary call for, such as testing for the presence of albumen, sugar, etc.

In fact, it is intended to make the course as complete as possible, so as to enable the students to occupy a position not only as careful and elegant dispensers, but also one, as far as practicable, independent of the manufacturer, thereby tending to elevate the standard and dignity of the profession.

Apparatus and Material furnished without cost to the student. Broken and injured articles must be replaced by them.

It is strongly urged that all members of the Senior Class avail themselves of the opportunities offered in the laboratory of becoming thoroughly familiar with the various manipulations necessary to conduct successfully their business as pharmacists.

BOTANY AND MATERIA MEDICA.

PROF. J. FARIS MOORE, M. D.

JUNIOR COURSE.—The Lectures to this class will be delivered on each Thursday evening during the session. The instruction to this class will include structural, physiological and systematic botany, and will be imparted by both lectures and recitations. The subject matter will be thoroughly illustrated by experiments as well as by models, plates, diagrams, etc. After a brief review of the principles of botanical classification, the remainder (fully one-half) of the course will consist of a survey of the entire vegetable materia medica, viewing the geographical distribution of the natural orders, the useful and medicinal plants of each, including general properties and constituents. Some generalization on therapeutical terms in materia medica will then be made, preparatory to the Senior course.

SENIOR COURSE.—The Lectures to this class will be delivered on each Tuesday evening during the session. They will comprise a thorough course in materia medica, to which will be added a few special lectures on toxicology. During the course articles pertaining to both the animal and vegetable kingdom, and constituting part of the stock of every well-arranged pharmacy, will have proper consideration; and in this connection the value of the complete cabinet and extensive collection of specimens belonging to the College will be most conspicuously felt. The student will thus be made acquainted with the appearance of the drug in its crude state, while the physical characteristics by which it can be identified, its natural and commercial history, and its chemical properties, important constituents, officinal preparations, doses and therapeutic action upon the human economy will be carefully brought before the class. Special attention will also be given to ADULTERATIONS, and the contrast of the pure with the inferior varieties will be practically illustrated.

CHEMISTRY AND TOXICOLOGY.

PROF. WM. SIMON, PH. D., M. D.

The relation, which has always existed between *Pharmacy* and *Chemistry*, is at the present day more intimate and is regarded with greater importance by the Pharmaceutical profession than in former times. The number of chemicals used for medicinal purposes is constantly increasing, and this fact necessitates a thorough knowledge of *Chemistry* by the Pharmacist, the dispenser of these chemicals.

It is the aim of this College to furnish her students with a thorough theoretical and practical education in the science and in the art of Chemistry.

All lectures on Chemistry will be fully illustrated by numerous experiments, in order to familiarize the student with chemical operations generally; to impress upon his mind the various changes taking place during chemical action, and also to teach practically the methods employed for the recognition and manufacture of the different officinal or otherwise interesting chemical preparations.

JUNIOR COURSE.—The lectures to the Junior Class will be delivered every Tuesday afternoon during the session. Before entering upon the study of Chemistry proper a number of lectures will be devoted to the consideration of those properties of matter which, though more of a physical nature, are of interest to the Chemist. The nature and action of heat will be given a careful consideration. In the lectures following the principles and laws of Chemistry will be presented from a modern standpoint. The latter part of the course will be devoted to the consideration of the non-metallic elements and their compounds.

SENIOR COURSE.—The lectures to the Senior Class will be delivered on each Thursday afternoon during the session. This course will be opened with a few lectures on Theoretical Chemistry, which the student will now have been enabled to comprehend more clearly and more readily by the possession of a familiarity with general chemical phenomena, which he will have acquired in the Junior Class. These lectures will at the same time serve as a recapitulation of much that has been taught in the Junior Class. In the lectures following the metals will be taken up and considered first in groups; then, such individually, as are of sufficient general interest or importance to the Pharmacist, either in the elementary state or in some form of combination.

Organic Chemistry will take up the larger portion of the course, and cover the whole ground of this large and constantly-growing branch of science. In Organic Chemistry, even more than in Inorganic Chemistry, it

becomes necessary to consider the features of the various groups: Hydrocarbons, Alcohols, Organic Acids, Ethers, Fats, Carbohydrates, Alkaloids, etc., being among those to be considered in the study of Organic Chemistry. The general constitution of the members of each group, their general modes of formation in nature or by artificial means; their general properties, etc., will all be fully discussed before the important members of each group are pointed out and specially considered. By following this plan, now adopted in these lectures, the study of Organic Chemistry is greatly facilitated, and the student enabled to acquire a fair knowledge of this at present highly developed science.

All during the course due attention will be given to the nature of Poisons, the methods employed for their detection and their antidotes. Chemical incompatibilities, so often met with in the varied and sometimes unscientific mixtures which the Pharmacist may be called upon to prepare, are pointed out and dwelt upon.

ANALYTICAL CHEMISTRY.

PROF. WM. SIMON, PH. D., M. D., DIRECTOR.

Laboratories are at the present time indispensable auxiliaries to any institution in which natural sciences are taught. The great progress which certain sciences have made within the last score of years, the large number of discoveries which have been made within the same period are greatly due to the means furnished to scientific investigators by and in the laboratories. As a means for teaching Chemistry in all its various branches, well equipped laboratories are not surpassed by any other means. Lectures may be delivered, experiments shown, books studied, and yet the student who avails himself exclusively of such sources of information will not become a thorough chemist. The student must see and operate himself, and not rest satisfied with being told.

The Pharmacist, more especially at the present day, is expected to be perfectly familiar with chemical manipulations.

These facts induced the Board of Trustees several years ago to make the study of Analytical Chemistry a part of the regular curriculum, and one course at least of such practical training a requisite for graduation.

The instruction will embrace a thorough and systematic course in qualitative analysis, enabling the student to recognize by chemical means any of the various officinal preparations, and to determine with accuracy their purity or the nature of any impurities which may be present.

Special arrangements are made for students who desire to continue their studies beyond the scope above indicated, in order to instruct them

in quantitative analysis, both gravimetric and volumetric, and also in the manufacture of chemicals.

Students in this department will be supplied with all reagents, (except solutions of silver, gold, platinum and palladium.)

The course of instruction in this branch will commence about February 2d, 1885, and continue until June 1st. The examination in this branch will be held at the conclusion of the course, and, if successful, will be final.

Aside from the apparatus furnished by the laboratory, the following are required by each student:

1 Dozen Test Tubes, assorted,	1 Dozen Corks for Flasks.
1 Wash Bottle.	1 Test Tube Stand.
2 Small Flasks.	2 Small Funnels.
1 Small Set Beaker Glasses.	2 Glass Rods.
2 Pieces Glass Tubing.	2 Small Porcelain Dishes.
1 Square Inch Platinum Foil.	2 Inches Platinum Wire.
Perforated Rubber Stoppers.	Filtering Paper.

LABORATORY.

The College has a well-appointed and arranged Laboratory, containing accommodations for the instruction of seventy-five students at one time. Each table has gas, water and closet attached, and affords every convenience for thorough analytical work.

LOCATION.

The College building, with its Laboratory, Museum and Lecture-rooms, is located on Aisquith street, near Fayette, in one of the most accessible parts of the city. Street cars and busses from all parts of the city pass within one block of the building. Aisquith-street cars pass the door.

DAILY EXAMINATION.

As auxiliary to the lectures the professors hold regular examinations in their respective departments, which serve as a review of the subjects recently discussed. The utility of these examinations is beyond question, as they afford the only sure indication of the real value of the lectures to the student. They present opportunities for correcting errors or misapprehensions on his part, and difficulties not sufficiently explained or accurately comprehended are thus rendered clear to the understanding. They also stimulate the student to increased exertion, knowing as he does, that his proficiency will be subjected to a public test.

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.

PRIZE IN PRACTICAL PHARMACY.

In order to give greater stimulus to this, the most important branch of our profession, a prize of handsome value will be presented to that member of the Graduating Class who shall, during this course and at the final competitive examination, prove himself the most familiar and perfected in the manipulatory art.

All work in every preparation made by each student will have its bearing and ratio, so that this, together with the final examination, will be the strict basis for the Board of Examiners to determine, judiciously and justly, the most accomplished and successful prize student.

The prize this year offered will be a set of Troemner's balance scales, five kilograms capacity, with full set of weights, particularly adapted to the requirements of the new *Pharmacopæia*.

Approved by the Board of Trustees April 10, 1883.

ANALYTICAL PRIZE.

This, known as the Simon Medal, is presented at each annual commencement to the *most proficient* member of the Graduating Class in Analytical Chemistry. This prize is offered by Prof. William Simon, with the approval of the Board of Trustees of the College.

DEGREE.

The degree conferred at graduation is that of Graduate of Pharmacy, (Ph. G.)

CERTIFICATE OF PROFICIENCY.

Any student who has had three years and six months' actual experience in the apothecary business, who has not attained the age of twenty-one years, may apply for final examination at the expiration of the collegiate courses, and, should the examination prove successful, shall receive a *Certificate of Proficiency*, signed by the Board of Trustees. At the expiration of his term of apprenticeship, and upon attaining his majority, he shall be entitled to receive his Diploma upon surrender of the certificate.

STUDENTS OF PHARMACY.

Students of Pharmacy from abroad should come prepared to sustain themselves in case of failure to obtain desirable positions in the drug stores of this city. Employment cannot be promised in advance, and places cannot be secured by correspondence; but assistance, as far as possible, will be rendered them. The expenses of living in Baltimore will, of course, vary according to the views and habits of students. Good board may be procured at from \$3.50 to \$6.00 per week.

WHOLESALE DRUGGISTS.

Persons in the wholesale business may attend the lectures, and upon complying with all the requisites for graduation (other than the four years' apprenticeship in the retail drug business) shall receive a Certificate of Proficiency, signed by the officers of the college.

COLLEGE FEES.

The Matriculation Fee	\$2 00
For Analytical Chemistry	20 00
For Practical Pharmacy, (Laboratory Course,)	20 00
For Materia Medica	12 00
For Chemistry	12 00
For Pharmacy	12 00
Graduation Fee	10 00

The Matriculation Ticket is to be paid for ONLY for the first course, but is REQUIRED for EVERY course in order to keep the register correct, and should be obtained on or before OCTOBER 1ST.

The 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 the students in the order in which they secure their tickets.

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

SAMUEL MANSFIELD, *Treasurer,*
Southwest corner Baltimore and Schroeder Streets,
 BALTIMORE, MD.

ANNUAL EXAMINATIONS.

The examinations of Junior students for admission to the Senior Class will take place February 23d, 24th and 25th, 1885, from 9 A. M. to 2 P. M. each day. These examinations are compulsory, and are held in order to ascertain the students' fitness to enter upon the studies pursued in the Senior Class. Honorable mention will be made at the ensuing commencement of those (five) Junior students, giving evidence of greatest progress in their studies.

Those Junior students who may not be successful at this appointed time will be allowed to present themselves for re-examination in the following September. Those who fail at this special examination will be obliged to pursue the Junior studies again, and may again present themselves at the next regular Junior examination at the close of the course.

The examinations of *Applicants for Graduation* (Senior Class) by the Professors, will take place March 2d, 3d and 4th, 1885, from 9 A. M. to 2 P. M. each day. These examinations will embrace all subjects lectured on during the session by the respective Professors.

Students will be examined in *Analytical Chemistry* at the close of the course in this study about June 1, 1885. Students who are successful at this examination will not be required to be re-examined in this branch at the final examinations for graduation.

The examination in *Practical Pharmacy* will take place about February 28, 1885. This examination will include a practical exhibition at the College laboratory of the various manipulations in daily pursuit in the laboratories and at the prescription counters of the shops; also, a presentation, on or before the day of examination in Practical Pharmacy, of a line of preparations made by the student himself, positively without another person's aid. Text-books may be used for reference.

The foregoing are the examinations by the Professors. In addition to these, applicants for graduation will be required to pass an examination by the *Board of Examiners*. This is a written and practical examination, and will be held March 5, 1885, from 9 A. M. to 2 P. M.

Although entirely distinct from the Professors, the subject-matter which is embraced will, for the most part, be heard during the lecture course. Besides this, many practical and theoretical questions will be asked, all of which a scientific and accomplished pharmacist should thoroughly know.

Examinations for Graduation are held but once in each year, and at the close of the lecture term. Applicants who fail to appear, or who