

Annual Announcement

OF THE

Maryland College of Pharmacy.



ESTABLISHED 1841.

Session of 1882 and 1883.

BALTIMORE:

JNO. S. BRIDGES & CO., POWER PRINTERS AND ENGRAVERS,
NOS. 212 AND 214 WEST BALTIMORE STREET.

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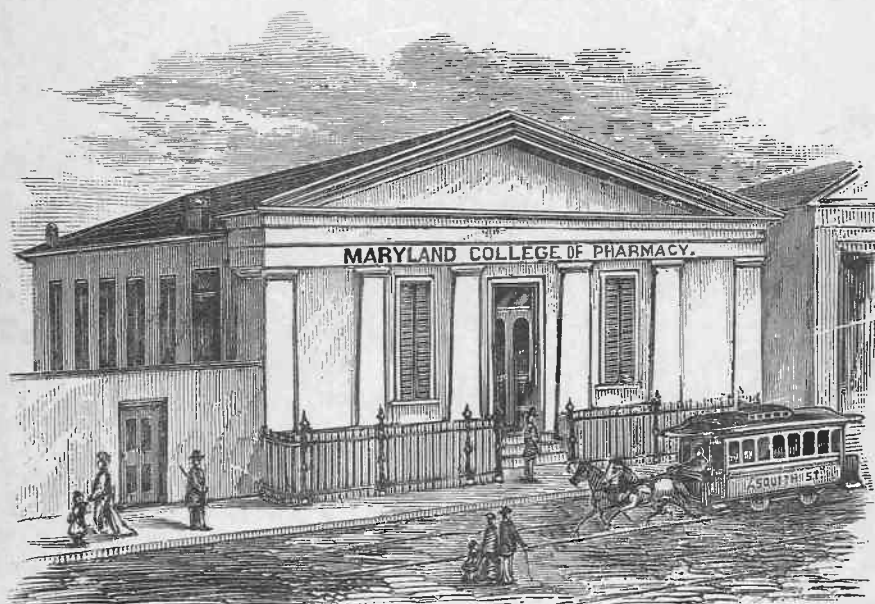
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OFFICERS OF THE COLLEGE,
CONSTITUTING
THE BOARD OF TRUSTEES.

PRESIDENT:
JOSEPH ROBERTS.

FIRST VICE-PRESIDENT:
N. H. JENNINGS.

SECOND VICE-PRESIDENT:
JAS. P. FRAMES.

SECRETARY:
EDWIN EARECKSON,
Corner Baltimore and High Streets.

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

BOARD OF EXAMINERS:
LOUIS DOHME.
D. M. R. CULBRETH.
ROBT LAUTENBACH.

LD3231

.M700

.M365

FACULTY.

J. FARIS MOORE, M. D., PHAR. D.,
Professor of Botany and Materia Medica.

WM. SIMON, PH. D., M. D.,
Professor of Practical Chemistry.

CHAS. CASPARI, JR., PH. G.,
Professor of Theory and Practice of Pharmacy.

WM. SIMON, PH. D., M. D.,
Professor of Analytical Chemistry.

TEXT-BOOKS.

PARRISH'S PHARMACY.
UNITED STATES DISPENSATORY.
GRAY'S SYSTEMATIC AND STRUCTURAL BOTANY.
FOWNE'S CHEMISTRY.
ATTFIELD'S CHEMISTRY.
WILLS' ANALYTICAL CHEMISTRY AND TABLES.
STILLE & MAISCH'S NATIONAL DISPENSATORY.
UNITED STATES PHARMACOPEIA.

BOOKS OF REFERENCE.

MAISCH'S MANUEL OF ORGANIC MATERIA MEDICA.
BENTLY'S MANUAL OF BOTANY.
PROCTOR'S LECTURES ON PRACTICAL PHARMACY.
ROSCOE'S CHEMISTRY.

GRADUATES OF 1882.

BACHRACH, SAMUEL	Virginia.
BECK, JOHN G.	Maryland.
BLACKSTONE, THOMAS W.	Virginia.
FRAMES, J. FULLER	Maryland.
FRIESE, WILLIAM P.	Maryland.
HAUGH, CHARLES S.	W. Virginia.
LINDEMANN, GUSTAVE	Maryland.
KACH, AUGUST	Maryland.
KELLEY, SYLVESTER R., JR.	Maryland.
KROH, WILLIAM	Maryland.
MALLETTE, J. GORDON	Georgia.
McKINNEY, ROBERT S.	Maryland.
SCHMIDT, SAMUEL	Maryland.
SCHULTZE, ANTHONY H.	Maryland.
SILVER, HOWARD C.	W. Virginia.
SMITH, J. CHARLES.	Pennsylvania.
WICH, CONRAD	Maryland.

PRIZES FROM THE COLLEGE TO THE GRADUATING CLASS.

FIRST PRIZE,
SAMUEL SCHMIDT,
Maryland.

SECOND PRIZE,
AUGUST KACH,
Maryland.

THIRD PRIZE,
CONRAD WICH,
Maryland.

SIMON PRIZE.
ANTHONY H. SCHULTZE,
Maryland.

PRIZE FROM COLLEGE TO JUNIOR CLASS.

WILLIAM KRAUSS,
Tennessee.

JUNIOR CLASS STUDENTS ENTITLED TO HONORABLE MENTION.

LOUIS F. KORNMANN, J. J. VALENTINI, A. EDWIN SCHMIDT,
GEO. A. THOMPSON, MANES. E. FULD.

CLASS OF 1881-'82.

NAMES.	RESIDENCE.	PRECEPTOR.
ARNOLD, LINTON S.	Georgia	Frank Piggott.
BECK, JOHN G.	Maryland.	C. C. Habliston.
BENTON, LUTHER B.	"	Edwin Eareckson.
BACHRACH, SAMUEL	Virginia	W. B. Whiteside.
BLACKSTONE, THOMAS W.	"	A. J. Gosman.
BOURKE, JAS. W.	Maryland.	S. W. Bode.
BETTS, A. PARRAN.	"	Wilbur F. Thompson.
BECKER, HENRY	"	C. E. Brack.
BAIST, LOUIS.	Germany	Wm. Caspari.
BLUM, JOSEPH.	Maryland.	Sharpe & Dohme.
BERNSTEIN, E. J.	"	C. P. Trapp.
BOYD, G. H.	Pennsylvania	W. E. Thornton.
BLASS, JOHN B.	Maryland.	C. M. Schulte, Jr.
BICKERS, A. H.	Virginia	Risk Bros.
CAMPBELL, WM. L.	Maryland.	E. W. Russell.
COOK, J. W.	"	Croft & Conlyn.
DAILY, MARTIN A.	"	Andrews & Thompson.
DAVIS, HENRY E.	"	Jno. A. Webb.
DAILEY, W. F.	Mississippi	W. P. Barnett.
ELLIOTT, C. H.	Maryland.	Robinson & Co.
EPPLEY, J. K.	Pennsylvania.	A. J. Corning.
FRAMES, JNO. FULLER.	Maryland.	Jas. P. Frames.
FRIESE, WILLIAM.	"	Emile Sinz.
FOUKE, FRANK W.	"	D. M. R. Culbreth.
FINK, WM. C.	"	H. R. Horstman.
FULD, MANES E.	"	W. E. Thornton.
FORREST, CHAS. W.	"	J. W. Brown.
GROOME, JNO. C.	Pennsylvania.	E. H. Perkins.
HEMPEL, FREDERICK.	Maryland	R. Burton.
HURSEY, THOS. D.	W. Virginia.	Andrews & Thompson.
HAUGH, C. S.	Virginia	
HUGHES, R. G.	"	A. J. Gosman.
KELLY, S. ROBT, JR	Maryland.	T. E. Kirby.
KACH, AUGUST.	"	F. J. Grote.
KROH, WILLIAM	"	W. Schiller.
KRAUSS, WILLIAM.	Tennessee.	C. Caspari, Jr.

NAMES.	RESIDENCE.	PRECEPTOR.
KELLEY, J. B.	Virginia	<i>E. C. Livingstone.</i>
KORNMANN, LOUIS F.	Maryland	<i>L. Wolfe</i>
LINDEMANN, GUSTAVE	"	<i>J. Sohl.</i>
LAUTENBACH, EMILE	"	<i>J. V. D. Stewart.</i>
MALLETTE, J. G.	Georgia	<i>N. H. Jennings.</i>
MEZGER, CHARLES	Maryland	<i>R. W. Taylor.</i>
McKINNEY, ROBT S.	"	<i>C. R. Pue.</i>
MAISCH, HENRY	"	<i>T. Smith.</i>
MARKERT, W. F.	"	<i>Vogeler & Co.</i>
OREAR, WILLIAM BARTON	"	<i>Samuel Mangfield.</i>
ROLPH, NOBLE C.	"	<i>Thomas & Thompson.</i>
REMSBURG, CHAS D.	"	<i>J. F. Hancock.</i>
SCHMIDT, SAMUEL	"	<i>J. W. Geiger.</i>
SCHULTZE, ANTHONY H.	"	<i>E. Esslinger.</i>
STROUSE, HENRY F.	"	<i>W. L. Keller.</i>
SCHULTE, HENRY C.	"	<i>Schulte Bros.</i>
SMITH, G. E. M.	"	<i>J. W. German.</i>
SMITH, J. CHAS.	Pennsylvania	<i>J. F. Hancock.</i>
SILVER, HOWARD C.	W. Virginia	<i>Geo. Healy.</i>
SCHMIDT, A. EDWIN	Maryland	<i>Jno. A. Webb.</i>
SULTAN, FREDERICK	"	<i>Sharp & Dohme.</i>
SITES, W. A.	"	<i>J. A. Jones.</i>
SMITH, T. NORMAN	"	<i>R. Sappington.</i>
SAPPINGTON, P. F.	"	"
THOMPSON, GEO. A.	"	<i>Andrews & Thompson.</i>
TUMBLESON, A. M.	"	<i>G. H. Schone.</i>
VALENTINI, J. J.	"	<i>Thos. Kelly.</i>
VELLINES, DAVIES	"	"
WICH, CONRAD	"	<i>E. H. Perkins.</i>
WISSLER, CHAS. H.	"	<i>Chas. Beck.</i>
WEILEPP, BRUNO	"	<i>A. Weilepp.</i>

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 under many adverse circumstances, 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 the great commercial centre of the South and West 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 students' 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. Large collections of specimens in Botany, Materia Medica and Chemistry, and an abundant supply of chemical and pharmaceutical apparatus have been added in the past few years which serve as rich material of great interest, and aids in bringing often 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 henceforth 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 (1882-83) will begin on Tuesday, October 3rd, 1882, and continue till March 1st, 1883. The curriculum will embrace, as heretofore, the several branches of Pharmacy, Botany, Materia Medica, Practical and Analytical Chemistry.

The lectures will be delivered as follows:

JUNIOR CLASS.—PHARMACY, by Prof. Charles Caspari, Jr., Ph. G., on Tuesday afternoons at 3 P. M.

CHEMISTRY AND TOXICOLOGY.—By Prof. William Simon, Ph. D., 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. Chas. Caspari, Jr., Ph. G., on Thursday afternoons at 3 P. M.

CHEMISTRY AND TOXICOLOGY.—By Prof. William 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. William Simon, Ph. D., on Monday and Wednesday afternoons at 3 P. M.

The following scheme exhibits the lectures in a more tabulated form:

	3-6 P. M.	3-4½ P. M.	4½-6 P. M.	7½-9 P. M.
<i>Monday.</i>	Analytical Chemistry.			
<i>Tuesday.</i>		Junior Pharmacy.	Junior Chemistry.	Senior Botany Materia Medica.
<i>Wednesday.</i>	Analytical Chemistry.			
<i>Thursday.</i>		Senior Pharmacy.	Senior Chemistry.	Junior Botany Materia Medica.

Proper means of illustrating the lectures in the several departments are in possession of the College—such as maps, charts, plates, diagrams, 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, illustrated by practical experiments, showing its great usefulness as applied to Pharmacy and Chemistry. The details of all those operations which relate to the preparation of crude drugs and their ultimate use in medicine will receive due consideration. 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.

The pharmaceutical subjects of maceration, expression, infusion, decoction, digestion and percolation will next be treated at length. Evaporation, distillation, sublimation, precipitation, crystallization, will then be taken up in their order. The course will close with a general notice of the medicinal metals, alkalies and alkaline earths.

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, but 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 and not the professional chemist.

The chemistry of the mineral kingdom will include the official 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 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, and 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.

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 as preparatory to the senior course.

SENIOR COURSE.—The lectures to this class will be delivered on each Tuesday evening during the session. These 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, and in aid of this the MICROSCOPE will be employed throughout the course, whenever available, as a test of genuineness of the drugs under consideration.

CHEMISTRY AND TOXICOLOGY.

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

Chemistry, owing to the extent of the scientific field which it includes, necessarily occupies a prominent part in the course of instruction. All the fundamental principles of the science are thoroughly presented from a modern standpoint, the general object being, however, to render the instruction as practically useful as possible to the pharmacist.

JUNIOR COURSE.—The lectures to this class will be delivered every Tuesday afternoon during the session. During the first year the lectures will be limited to inorganic chemistry, including the non-metallic elements and some of the metals. The course will be made thoroughly experimental, the chemical relations and affinities of each element being demonstrated where it will add to a better understanding of its character, or is at all practicable.

SENIOR COURSE.—The lectures to this class will be delivered on each Thursday afternoon during the session. During this year inorganic chemistry will be briefly reviewed, including the most important metals and allied salts, and organic chemistry will be studied in detail.

Before taking up the metals for special consideration several lectures will be devoted to the subjects of chemical notation, equivalence, formation of compound molecules—the distinction between acids—bases, salts and derived ammonias, to chemical equations, reactions and calculations therefrom, and to the general methods of formation of metallic salts. Next will come metals, and from that will pass to organic chemistry proper. This part of the course will cover the whole ground of this large and growing branch of the subject, and not only will the present views of classification be explained, but especial attention will be directed to those groups like the ethers, glucosides, alkaloids, essential oils and resins that have a practical importance for the pharmacist on account of medicinal or technical uses. This course will also include several lectures upon organic analysis, proximate and ultimate, in which, both, methods and apparatus will be explained. All during this course great attention will be given to the nature of poisons, their antidotes and the methods for detecting them, chemical incompatibilities and the various phenomena which are likely to be met with in the varied and often unscientific mixtures at the prescription counter, and the chemical changes which time and other causes effect in pharmaceutical preparations, are all dwelt upon in detail, and when possible explained.

ANALYTICAL CHEMISTRY.

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

The importance to the pharmacist of a practical knowledge of chemical analysis, experience in the use of reagents and accuracy in manipulation is becoming daily more and more apparent. In Europe such knowledge has long been considered as absolutely essential to the proper performance of the duties devolving upon the dispenser of medicines. Enlightened communities appreciating the necessity for such education in those who frequently hold in their hands, as it were, the life or health of their patrons, are demanding of them the additional safeguard of a trained and acknowledged proficiency in this as in the other branches of their profession. In view of these facts the Board of Trustees have made the study of analytical chemistry a part of the regular curriculum, and require at least one course of such training as requisite for graduation.

The Summer course of instruction in this branch will commence about March 1st of each year, or immediately after the close of the regular session. The Winter course will begin the first of October of every year. Students may, at their option, take the one or the other, and the examination in this branch, held at the conclusion of either course, if successful will be final.

LABORATORY.

The College has a well appointed and arranged laboratory, containing accommodations for the instruction of fifty 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. The Fayette Street line of cars pass by the door, while Baltimore Street line of cars and busses are only one block distant.

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.

FINAL EXAMINATION.

For the Junior Class students the examination will begin about February 25th, and last for three consecutive days, between the hours of 9 A. M. and 2 P. M. These examinations will be held for the purpose of ascertaining the student's familiarity with the various subjects of the course. Honorable mention will be made at the ensuing commencement of those (five) giving greatest evidence of progress in their studies. This examination will be compulsory in order to insure admission into the Senior class.

Those who fail to pass successfully at this appointed time will be allowed a second examination at the beginning of the following session in September. If at this any should fail they will be com-

pelled to go over the Junior course until they have acquired sufficient knowledge for the due promotion to Senior class.

SENIOR CLASS.—The College examinations of this class will be held about March 5th, 6th and 7th, 1883, occupying of each day the hours from 9 A. M. till 2 P. M.

These are the examinations given by the professors, and they each include the entire work as lectured on during the session from the respective chairs.

EXAMINATION OF THE BOARD.

This, as are all the others, is a written examination, and will be held March 8th, 1883, from the hours of 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.

This is the only series of examinations held during any single year for graduation, and students who fail to appear or to pass can only present themselves at the next regular examination, at the end of the next lecture term, when they will have again to present a thesis and comply with all the other requirements as subsequently mentioned.

REQUISITES FOR GRADUATION.

Good moral conduct and the age of twenty-one years; an apprenticeship of four years to the apothecary business; attendance upon two full courses of lectures in a regular College of Pharmacy, the last of which shall be in this College; attendance upon one course of Analytical Instruction; the presentation to the Treasurer, on or before February 1st, of an original Thesis of not less than fifteen pages, upon some subject pertaining to Pharmacy; the Graduation Fee; the Matriculation Tickets, and the tickets of the Professors for two full courses of lectures and one course of Analytical Instruction; a letter from his employer testifying to his age and the length of his apprenticeship; the passing of a practical examination in Analytical Chemistry; of a written examination in each branch of study under the supervision of the Board of Examiners, assisted by the Professors, and an additional examination in writing by the Board of Examiners—the percentage of correct answers required to insure graduation being fifty per cent. in each branch, and sixty per cent. of the whole number of questions propounded.

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.

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.

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, and should at once upon arrival register their names as applicants. A list of vacancies and applications will be kept open for the inspection of all, by the Treasurer of the College. 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.

EARLY ATTENDANCE.

Students are particularly requested to be in attendance at the commencement of the course, in order to obtain the fullest benefit from the lectures.

APPRENTICES.

The compensation to apprentices is for the first year \$75.00, for the second year \$100.00, for the third year \$125.00, and for the fourth year \$150.00. Board and lodging are not included.

The foregoing terms, however, will not preclude a more favorable arrangement students may make when experience in business and other circumstances justify it.

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, paid but once.....	\$ 2 00
For Analytical Chemistry.....	15 00
For other Professors' Ticket, each.....	12 00
For 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 correctly, and must 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 take out their tickets.

The matriculation and lecture tickets may be procured of **SAMUEL MANSFIELD, Treasurer, South-west Corner Baltimore and Schroeder Streets, Baltimore.**

ESTABLISHED 1822.

ROSENGARTEN & SONS, MANUFACTURING CHEMISTS, PHILADELPHIA.

Silver Medal Awarded by Franklin Institute, November, 1874,
FOR PURITY OF CHEMICAL PREPARATIONS.

Sulphate of Quinine,

Muriate of Quinine,
Citrate of Iron and Quinine,
Sulphate of Cinchonine,
Sulphate of Cinchonidine,
Sulphate of Quinidine,
Bromide of Ammonium,
Bromide of Potassium,
Nitrate of Silver,

Sulphate of Morphine,

Acetate of Morphine,
Muriate of Morphine,
Nitrate of Ammonia,
Hypophosphites,
Subnitrate of Bismuth,
Spirits of Nitre,
C. P. Acids,
Tannin.

AND A GENERAL ASSORTMENT OF CHEMICALS.

THE UNITED STATES CENTENNIAL COMMISSION announce the following report
as the basis of an award to **Rosengarten & Sons, Philadelphia, for Chemicals.**

"For purity and general excellence as commercial products of a great variety
of Chemicals, inorganic and organic, used chiefly in Pharmacy, and especially
for a fine display of various Salts of Morphine, and the different Cinchona Al-
kaloids, including Quinine, Quinidine, Cinchonine and Cinchonidine."

PEPSIN.

E. SCHEFFER, - - - **Louisville, Ky.**

Manufactures by his Improved Method

SACCHARATED PEPSIN.

which has proven its superiority over other Pepsins by its stability and uniformity, and by
its agreeable taste.

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