

months old. Mr. Lutz joined the American Pharmaceutical Association in 1917 and was in attendance at the Chicago meeting. He

was very highly esteemed and was regarded as one of the successful business men of his community.
W. B. D.

SOCIETIES AND COLLEGES.

NATIONAL COMMITTEE ON THE PHARMACEUTICAL SYLLABUS.

BULLETIN XIX.

To the Members of the National Committee on the Pharmaceutical Syllabus:

I hand you herewith the financial statement of the Committee:

Receipts.

1917.			
Oct. 4	T. J. Bradley, retiring Treasurer.....	\$23.95	
Oct. 25	American Pharmaceutical Association.....	25.00	
Oct. 29	American Conference of Pharmaceutical Faculties.....	25.00	
Nov. 5	National Assn. Boards of Pharmacy.....	25.00	
	Sale of 3 copies of the Syllabus.....	3.85	
			\$102.80

Disbursements.

1917.			
Oct. 12	Freight from Boston and cartage.....	\$ 2.80	
Oct. 12	Typewriting for Bulletins XIII-XIV-XV.....	3.00	
Oct. 29	Spatula Publishing Co., supplies.....	12.75	
Nov. 2	100 3c. postage stamps....	3.00	
Dec. 7	T. J. Bradley, miscellaneous expense.....	9.00	
			\$30.55
1918.			
Aug. 6	Cash on hand.....	72.25	
			\$102.80

There are now in the hands of the Secretary-Treasurer about one hundred and ten copies of the Syllabus.

Respectfully,

CLYDE M. SNOW,
Secretary-Treasurer.

Examined and found correct, August 14, 1918.

GEO. C. DIEKMAN,
Auditing Committee.

CHICAGO, ILL.,
Aug. 6, 1918.

BULLETIN XX.

Minutes of the meeting of the Committee held at the Congress Hotel, Chicago, Illinois, August 14, 1918, Chairman T. J. Bradley presiding.

Present: Messrs. W. C. Anderson, T. J. Bradley, John Culley, G. C. Diekman, E. G. Eberle, W. G. Gregory, J. A. Koch, W. H. Rudder, H. H. Rusby, C. M. Snow.

The Chairman presented his report in which he discussed the following matters of interest to the Committee:

Revision of the introductory matter of the Syllabus.

Make the Syllabus a true syllabus and in no way a compend.

Definitions in the Syllabus.

Lists of text and reference books in the Syllabus.

Might a chapter on "Model Questions" in the Syllabus be of value to members of boards of pharmacy?

Should large and small type be used in the Syllabus to indicate required and elective parts of subjects?

Shall the definition of the word "pharmacology" be changed to conform to medical usage?

Moved by H. H. Rusby, seconded by J. A. Koch, that the sub-Committee reports on revision be sent to the Chairman who will submit them by mail to the several members. Carried.

Moved by W. G. Gregory, seconded by W. C. Anderson, that the introductory chapters of the Syllabus be revised by the Chairman. Carried.

Moved by J. A. Koch, seconded by John Culley, that a list of pharmaceutical terms with definitions be included in the Syllabus as a glossary. Carried.

Moved by W. G. Gregory, seconded by W. H. Rudder, that the Secretary make a list of terms to be defined and submit such list to all members of the Committee for suggestions and revision. Carried.

Moved by J. A. Koch, seconded by W. G. Gregory, that lists of text and reference books be eliminated from the Syllabus. Carried.

The question of including a chapter in the Syllabus on Model Questions was discussed at some length. It was the sense of the Committee that such a chapter should be included.

Moved by John Culley, seconded by G. C. Diekman, that the coöperation of officers of the Association of Boards of Pharmacy be invited in the preparation of the chapter on Model Questions. Carried.

Moved by W. G. Gregory, seconded by H. H. Rusby, that the major or required exercises of the Syllabus be printed in large type and the minor or optional exercises be printed in small type. Carried.

Moved by W. G. Gregory, seconded by H. H. Rusby, that the definition of the word "pharmacology" be continued as now given in the Syllabus. Carried.

The Secretary-Treasurer presented his report. It was moved and seconded that the report be received and that it be audited by G. C. Diekman. Carried. (This report is circulated as Bulletin XIX.)

The report of the sub-committee on *Materia Medica* was presented by H. H. Rusby. Dr. Rusby recommended that the study of botany should be divided into two groups, *viz.*, Gross Structure and Microscopical Structure. This recommendation was adopted.

The report of the sub-committee on Chemistry was presented by J. A. Koch.

The report of the sub-committee on Pharmacy was presented by W. H. Rudder.

Chairman Bradley presented the results of a study of the subjects included by various colleges in a graduate course of one year leading to the degree of Pharmaceutical Chemist after the customary two-year course. Catalogues of more than sixty colleges of pharmacy were examined and it was found that thirty-five offer such a graduate course. Several colleges which are departments of state universities send their students to other departments of the universities for very diverse subjects, some of which have little or no connection with pharmacy. The subjects included in the various courses were classed under the following four heads, the numbers being the number of schools offering such subjects, from a total of thirty-five schools:

Subjects in the department of *Materia Medica*: Bacteriology, 26; advanced microscopy and micro-analysis, 13; advanced pharmacognosy, 9; toxicology, 9; advanced pharmacology, 6; physiology, 6; hygiene, 3; physiological testing, 3; etc.

Subjects in the Department of Chemistry: Food and drug analysis, 21; pharmaceutical assaying, 20; quantitative analysis, 18; advanced organic chemistry, 17; chemical technology, 9; urinalysis, 9; physiological chemistry, 9; physics, 5; etc.

Subjects in the Department of Pharmacy: Manufacturing pharmacy, 10; dispensing, 10; commercial pharmacy, 6; etc.

Miscellaneous subjects: Modern languages, 8; electives from university courses, 5; mathematics, 3; English, 2; etc.

Moved by W. G. Gregory, seconded by J. A. Koch, that 750 hours be required as a minimum for the third year course. Carried.

Moved by G. C. Diekman, seconded by W. C. Anderson, that Bacteriology be a required subject in the third year course. Carried.

Moved by J. A. Koch, seconded by W. C. Anderson, that Advanced Analytical Chemistry be a required subject in the third year course. Carried.

Moved by W. C. Anderson, seconded by G. C. Diekman, that Advanced Manufacturing Pharmacy be a required subject in the third year course. Carried.

Moved by H. H. Rusby, seconded by W. G. Gregory, that 75 hours of Bacteriology be the minimum requirement for this subject in the third year course. Carried.

Moved by J. A. Koch, seconded by G. C. Diekman, that 300 hours be the minimum requirement in Advanced Analytical Chemistry in the third year course. Carried.

Moved by W. C. Anderson, seconded by G. C. Diekman, that 100 hours be the minimum requirement in Advanced Manufacturing Pharmacy in the third year course. Carried.

The matter of Elective Subjects was then discussed. It was the sense of the Committee that it might with propriety designate Elective Subjects in the various departments.

Moved by H. H. Rusby, seconded by W. G. Gregory, that Micro-Analysis, Advanced Botany, and Physiological Testing be Elective Subjects in the department of *Materia Medica*. Carried.

Moved by J. A. Koch, seconded by G. C. Diekman, that Advanced Organic Chemistry, Chemical Technology, and Urine Analysis be Elective Subjects in the department of Chemistry. Carried.

Moved by W. G. Gregory, seconded by W. H. Rudder, that Dispensing and Pharmaceutical Jurisprudence be Elective Subjects in the department of Pharmacy. Carried.

Moved by W. C. Anderson, seconded by G. C. Diekman, that the Committee adjourn subject to the call of the Chairman. Carried.

Clyde M. Snow,
Secretary-Treasurer.

BULLETIN XXI.

BOSTON, MASS., October 10, 1918.

The proposed revision of the section on Chemistry, as prepared by the sub-committee on that subject, has been sent to all members of the Committee, and the revisions of the sections on Pharmacy and Materia Medica will be sent out soon. All members of the Committee are asked to read these sections carefully as they are received, and to send suggestions and criticisms to the Chairman to be considered during the final revisions of the section, before they are published. The mimeographed sheets of the revised sections should be preserved for reference until revised sets are distributed.

The Committee now has the following membership:

FROM AMERICAN PHARMACEUTICAL ASSOCIATION.

Term expires.

- 1919 Edwin L. Newcomb, University of Minnesota School of Pharmacy, Minneapolis, Minn.
- 1920 Eugene G. Eberle, 253 Bourse Bldg., Philadelphia, Pa.
- 1921 Harry B. Mason, P. O. Box 484, Detroit, Mich.
- 1922 George M. Beringer, 501 Federal St., Camden, N. J.
- 1923 Henry H. Rusby, 115 West 68th St., New York, N. Y.
- 1924 Willis G. Gregory, 125 Bedford St., Buffalo, N. Y.
- 1925 William H. Rudder, Salem, Indiana.

FROM AMERICAN CONFERENCE OF PHARMACEUTICAL FACULTIES.

- 1919 Clement B. Lowe, 145 North Tenth St., Philadelphia, Pa.
- 1920 William C. Anderson, 315 Greene Ave., Brooklyn, N. Y.
- 1921 Julius A. Koch, Bluff and Pride Sts., Pittsburgh, Pa.
- 1922 Theodore J. Bradley, 179 Longwood Ave., Boston, Mass.

- 1923 Clyde M. Snow, 701 South Wood St., Chicago, Ill.
- 1924 Albert Bolenbaugh, Richmond, Va.
- 1925 Edsel A. Ruddiman, Vanderbilt University, Nashville, Tenn.

FROM NATIONAL ASSOCIATION OF BOARDS OF PHARMACY.

- 1919 George C. Diekman, 115 West 68th St., New York, N. Y.
- 1920 Mason C. Beebe, 75 Church St., Burlington, Vt.
- 1921 John Culley, 2479 Washington Ave., Ogden, Utah.
- 1922 Ellis E. Faulkner, Delton, Mich.
- 1923 Charles H. Skinner, Windsor, Vt.
- 1924 Otto W. Osterlund, 46th St. and Baltimore Ave., Philadelphia, Pa.
- 1925 George W. McDuff, 2712 Magazine St., New Orleans, La.

E. A. Ruddiman and G. W. McDuff are hereby appointed as members of the sub-committee on Chemistry to fill existing vacancies.

Corrected list of members of sub-committees:

MATERIA MEDICA.

- H. H. Rusby, *Chairman.*
- M. C. Beebe.
- G. M. Beringer.
- John Culley.
- E. E. Faulkner.
- C. B. Lowe.
- E. L. Newcomb.

CHEMISTRY.

- J. A. Koch, *Chairman.*
- T. J. Bradley.
- E. G. Eberle.
- G. W. McDuff.
- O. W. Osterlund.
- E. A. Ruddiman.
- C. H. Skinner.

PHARMACY.

- W. H. Rudder, *Chairman.*
- W. C. Anderson.
- Albert Bolenbaugh.
- G. C. Diekman.
- W. G. Gregory.
- H. B. Mason.
- C. M. Snow.

(Signed) THEODORE J. BRADLEY,
Chairman.