

Erlanger and S. J. Meltzer. The general discussion was participated in by W. T. Porter, J. J. R. Macleod, G. W. Crile, A. J. Carlson, G. T. Kemp and Y. Henderson.

The following persons were elected to membership in the society:

Rockefeller Institute—A. E. Cohn, I. S. Kleiner, F. W. Bancroft.

Johns Hopkins University—L. G. Rowntree, G. H. Whipple, W. E. Burge.

University of Pennsylvania—R. M. Pearce, A. I. Ringer.

University of Syracuse—F. P. Knowlton, C. G. Rogers.

Columbia University—H. A. Stewart.

University of Nebraska—A. E. Guenther.

University of Wisconsin—H. C. Bradley.

University of California—T. C. Burnett.

Western Reserve University—P. W. Cabb.

Starling-Ohio Medical School—R. G. Hoskins.

University of Chicago—A. B. Luckhardt.

The relation of the society to the *American Journal of Physiology* continues as in the past, and A. J. Carlson, W. H. Howell, F. S. Lee, G. Lusk, S. J. Meltzer and W. T. Porter were appointed to constitute the editorial committee for the publication of the *Journal* during 1912.

In the past the annual meeting of the society has occupied three days of the convocation week. But owing to the rapidly increasing number of workers in the society the number of papers submitted for the meetings has already become too great for proper presentation and discussion, in spite of the recent organization of the Biochemical and the Pharmacological Societies. It is generally felt that much of the value of these meetings is lost when time is lacking for adequate discussion of the scientific program. At the second business session this question was considered and the following measures in the way of remedy were proposed and discussed:

1. Extending the time of the meeting to four or more days.

2. Meeting in two or more sections according to subjects.

3. Two or more meetings annually—one in the west and one or more in the east.

4. Limiting the number of papers (each member is at present virtually limited to one communication).

5. Dispense with the formal reading of papers, and devote the time to their discussion on the basis of printed abstract.

6. Changing the time of the meeting to May or June.

7. A closer affiliation with the Biochemical and the Pharmacological Societies.

After a prolonged and earnest discussion the question was referred to the council with instructions to report at the next annual meeting, which will be held in Cleveland, Ohio, in December, 1912.

The following officers were elected for the year 1912:

President—S. J. Meltzer, New York.

Secretary—A. J. Carlson, Chicago.

Treasurer—W. B. Cannon, Boston.

Members of the Council—J. Erlanger, St. Louis, and F. S. Lee, New York.

The arrangements effected by the Baltimore members and friends of the society contributed greatly to the success of the meeting. The headquarters of the three societies were located in the same hotel, and practically all the visiting members were housed in this same hotel. The local members had agreed to dispense with private entertainments, and in their place had arranged for all members and visiting friends an informal dinner followed by a smoker on the evenings of December 27 and 28. By this delightful informality the members were kept together and opportunities afforded for social intercourse and informal conferences and discussions. It was generally felt that this feature should be perpetuated in future meetings.

A. J. CARLSON,
Secretary

UNIVERSITY OF CHICAGO,
January, 1912

THE AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS

THE sixth annual meeting of the American Society of Biological Chemists was held in Baltimore and Washington, December 27–29, 1911. The sessions in Baltimore, held in affiliation with the American Physiological Society and the American Society of Pharmacology and Experimental Therapeutics, in the physiological building of the Johns Hopkins Medical School, were well attended, over forty of the members being present.

The single session in Washington, at the McKinley High School, a joint meeting with the Biological Section of the American Chemical Society, was of exceptional interest from the standpoint of the character of the papers presented and the discussions which they elicited. The following

is a list of the communications which were offered at these meetings:

BALTIMORE, WEDNESDAY, DECEMBER 27, 2:00 P.M.

W. R. Blatherwick, C. P. Sherwin and P. B. Hawk: Intestinal Putrefaction and Bacterial Development accompanying Water Drinking and Fasting.

Amos W. Peters: Essential Conditions of Accuracy and Rapidity for the Determination of Sugar by the Methods of Copper Reduction.

S. R. Benedict: Preparation of Creatine and Creatinine from Urine.

S. R. Benedict: Estimation of Creatinine.

H. S. Raper: The Fate of Fat which Enters the Blood Stream.

H. Gideon Wells: Purines and Purine Enzymes of Tumors.

Fletcher McPhedron: Hemolytic Power of Fatty Acids.

P. A. Shaffer: A New Salt of β -Oxybutyric Acid.

Lawrence T. Fairhall and P. B. Hawk: The Allantoin Output of Man after Water Ingestion. The following papers were read by title:

E. B. Hart, E. V. McCollum and H. Steenbock: Physiological Effects on Growth and Reproduction of Rations Balanced from Restricted Sources.

E. V. McCollum and J. G. Halpin: Synthesis of Lecithins in the Hen.

E. B. Hart and H. Steenbock: Effect of High Magnesium Intake on Calcium Excretion by Pigs.

E. V. McCollum: Relation between Nitrogen Retention and the Rise of Creatinine Excreted during the Growth of the Pig.

E. V. McCollum: Comparison of the Nutritive Value for Growing Pigs of the Nitrogen from the Oat and Wheat Grains.

E. V. McCollum and E. B. Hart: Experiments on Feeding Dissected Milks.

BALTIMORE, THURSDAY, DECEMBER 28, 9:00 A.M.
(Joint session with the American Physiological Society)

J. R. Murlin and H. C. Bailey: The Urine of Late Pregnancy and the Puerperium.

C. W. Greene: The Storage of Fat in the Salmon Muscle Tissue and its Resorption during the Migration Fast.

H. C. Bradley and H. S. Gasser: Intestinal Absorption.

J. J. R. Macleod: The Relationship of the Suprarenal Glands to Sugar Production by the Liver.

Victor C. Meyers and G. O. Volovic: Metabolism in an Experimental Fever with Special Reference to Creatinine Elimination.

Thomas B. Osborne and Lafayette B. Mendel: The Rôle of Proteins in Growth.

A. B. Macallum: The Rôle of Surface Tension in the Distribution of Salts in Living Matter.

I. S. Kleiner and S. J. Meltzer: A Comparison of the Effects of Subcutaneous and Intravenous Injections of Adrenalin upon the Production of Glycosuria.

H. B. Williams, J. A. Riche and Graham Lusk: The Hourly Chemical and Energy Transformations in the Dog which Follow the Ingestion of Meat.

Andrew Hunter and Sutherland Simpson: The Iodine Content of Thyroid Glands of Sheep Fed Mainly upon Marine Algæ.

Edward B. Meigs and L. A. Ryan: The Chemical Constituents of the Ash of Smooth Muscle.

BALTIMORE, THURSDAY, DECEMBER 28, 2:00 P.M.

H. H. Bunzel: Measurements of Oxidases.

J. R. Murlin and H. I. Muller: Creatine Elimination in the Pregnant Dog.

J. J. R. Macleod, C. D. Christie and J. D. Donaldson: The Estimation of Dextrose in Blood and Urine by the Difference in Reducing Power before and after Yeast Fermentation.

Torald Sollman (for P. J. Hanzlik): Recovery of Alcohol from Animal Tissues.

Otto Folin and F. F. Flanders: A New Method for the Determination of Hippuric Acid (and Benzoic Acid) in Urine.

H. C. Bradley: Synthetic Action of Enzymes.

Paul E. Howe and P. B. Hawk: A Metabolism Study on a Fasting Man.

Paul E. Howe and P. B. Hawk: Hydrogen Ion Concentration of the Feces.

The following papers were read by title:

H. C. Jackson: Changes in the Composition of Blood and Muscle following Double Nephrectomy and Bilateral Ureteral Ligation.

C. C. Benson: Note on the Inorganic Constituents of Human Blood.

P. A. Levene and W. A. Jacobs: On Sphingosin.

P. A. Levene and G. M. Meyer: On Glycolysis.

P. A. Levene and D. D. Van Slyke: On the Pierates of Glycocol.

H. C. Bradley: Connective Tissues of *Limulus*.

C. F. Langworthy and R. D. Milner: The Respiration Calorimeter and its Uses for the Study of Problems of Vegetable Physiology.

H. McGuigan and C. L. von Hess: Glycolysis as Modified by Removal of the Pancreas and by the Addition of Antiseptics.

H. McGuigan: On the Excretion of Formaldehyde, Ammonia and Hexamethylenamine.

A. D. Emmett: Effect of the Quantity of Protein Ingested on the Nutrition of Animals. VI. On the Chemical Composition of the Entire Body of Swine.

O. H. Brown: The Effect of Quinine on Pneumococci.

WASHINGTON, FRIDAY, DECEMBER 29, 2:30 P.M.
(Joint session with the Biological Section of the American Chemical Society)

Thomas B. Osborne and Lafayette B. Mendel: Maintenance and Growth.

Wilder D. Bancroft: The Study of Environment.

Treat B. Johnson: Synthesis of Thiotyrosine.

Alfred Dachnowski: The Relation of Vegetation to the Chemical Nature of Peat Soils.

C. L. Alsberg and O. F. Black: Phytochemical Studies on Hydrocyanic Acid.

Andrew Hunter and M. H. Givens: The Nitrogen Excretion of the Monkey with Special Reference to the Metabolism of Purines.

John H. Long: The Definition of Normal Urine.

W. Koch: Should the Term Protagon be Retained?

H. S. Reed and H. S. Stahl: Oxidizing Enzymes in Certain Fungi Pathogenic for Plants.

William J. Gies: Modified Collodion Membranes for Studies of Diffusion.

M. S. Fine: A Method for Differentiating between Metabolic and Residual Food Nitrogen in the Feces.

E. Monroe Bailey: Biochemical and Bacteriological Studies on the Banana.

The following officers were elected for the year 1912:

President—A. B. Macallum.

Vice-president—Graham Lusk.

Secretary—A. N. Richards.

Treasurer—Walter Jones.

Additional Members of Council—H. P. Armsby, Lafayette B. Mendel, H. Gideon Wells.

Nominating Committee—John J. Abel, F. G. Benedict, H. C. Bradley, Otto Folin, Wm. J. Gies, Andrew Hunter, J. B. Leathes, J. J. R. Macleod, D. D. Van Slyke.

A special committee, consisting of W. Koch (chairman), H. D. Dakin, William J. Gies, J. B. Leathes and Jacques Loeb, was appointed for the

purpose of considering and reporting to the society concerning the nomenclature of the lipoids.

Resolutions were passed by the society concerning the recent deaths of three of its members, Dr. Raymond H. Pond, Dr. Arthur H. Koelker and Professor William F. Koelker.

A. N. RICHARDS,
Secretary

THE MEETINGS OF THE ECONOMIC AND SOCIOLOGICAL SOCIETIES AT WASHINGTON

SEVEN societies met at Washington during the holidays to discuss economic and sociological problems. These societies represent the various fields of economics, civics, home economics, labor, sociology and statistics. Acting under the rule of the council of the American Association for the Advancement of Science adopted at Minneapolis, Section I, devoted to economics and social science, yielded the regular program to the visiting societies with the exception of two sessions, provided by the management governing the correlation of the sections to visiting societies.

One of the notable features of the convocation was the address of Senator Burton, the retiring vice-president of Section I, delivered at a joint session of the American Civic Alliance and of the section at which Dr. J. Pease Norton presided. The address of Senator Burton on the "Causes of the High Prices" has been printed in full in *SCIENCE*. Senator Burton presented an analysis of the causes which have operated to increase prices and showed conclusively that in addition to the vast increase in the gold supply many individual causes have been operative. The American Economic Association adopted a resolution in favor of an International Commission on the Cost of Living to study the remedies. This was the subject of a round table discussion led by Professor Fisher. Senator Burton's opinion was that natural causes would in a short time produce relief.

At this session the section adopted this resolution:

"*Resolved*: That the chairman be empowered to appoint a committee whose power and duty shall be to take such steps as shall in its opinion be most effective in focusing the attention of the proper persons and institutions upon the problems of soil erosion and the improved utilization of land through tree crops. This committee to report at the next meeting of the association."

Other addresses were delivered at this meeting