

## THE NEW HAVEN MEETING OF THE NATIONAL ACADEMY OF SCIENCES

THE sessions of the autumn meeting of the academy were held in the Osborn Zoological Laboratory, Yale University, on November 10 and 11. The program of scientific papers was as follows:

### MONDAY, NOVEMBER 10

#### Morning Session

*Four cliff islands in the coral seas*: W. M. DAVIS.

*Some new theorems in the dynamics of a particle*: EDWARD KASNER.

*The relative physiological efficiency of spectral lights of equal radiant energy content* (by invitation): HENRY LAURENS and HENRY D. HOOKER.

*A study in synthetic paleontology* (by invitation): RICHARD S. LULL.

*The adjustment to the barometer of the hæmato-respiratory functions in man* (by invitation): YANDELL HENDERSON.

*Development of connective tissue in the amphibian embryo* (by invitation): GEORGE A. BAITSELL.

#### Afternoon Session

*A new method for determining the solar constant of radiation*: C. G. ABBOT.

*A kinematic interpretation of electromagnetism* (by invitation): LEIGH PAGE.

*Defects found in drafted men*: CHARLES B. DAVENPORT and ALBERT G. LOVE.

*The effect of physical agents on the resistance of mice to cancer* (by invitation): JAMES B. MURPHY.

*Some restorations of extinct vertebrates. The great sponge colonies of the Devonian; their origin, rise and appearance*: JOHN M. CLARKE.

*On the mechanism of fever reduction by drugs* (by invitation): HENRY G. BARBOUR and J. B. HERRMANN.

*The Thompson effect from the point of view of dual electric conductivity*: EDWIN H. HALL.

### TUESDAY, NOVEMBER 11

*A statistical method for studying the radiations from radioactive substances and the X-rays* (by invitation): ALOIS F. KOVARIK.

*Anatomical changes in the respiratory tract associated with acid insufflation* (by invitation): M. C. WINTERNITZ.

*Experimental pneumonia in monkeys* (by invitation): FRANCIS G. BLAKE.

*The extension of the ultra-violet spectrum. The*

*effect upon an atom of the passage of an alpha ray through it*: R. A. MILLIKAN.

*Leptospira icteroides and yellow fever* (by invitation): HIDEYO NOGUCHI.

*Calculating ancestral influence in man* (by invitation): H. H. LAUGHLIN.

*Calcium and magnesium metabolism in certain diseases* (by invitation): FRANK P. UNDERHILL, JAMES A. HONEIJ and L. JEAN BOGERT.

*Reconstruction of the skeleton of the sauropod dinosaur Camarasaurus Cope (Morosaurus Marsh)*: HENRY FAIRFIELD OSBORN and CHARLES CRAIG MOOK.

*Restoration of camarasaurus and life model* (communicated by H. F. Osborn): WILLIAM K. GREGORY.

*Plato's Atlantis in paleogeography* (communicated by H. F. Osborn): WILLIAM DILLER MATTHEW.

#### Afternoon Session

*Lethargic encephalitis and poliomyelitis*: SIMON FLEXNER.

*The history of the coral reefs of Tutuila, Samoa. Biographical notice of Dr. Samuel Hubbard Scudder, 1837-1911* (read by title): A. G. MAYOR.

*Changes of land and ocean levels* (by invitation): R. A. DALY.

*On hyperplasia of nerve centers resulting from excessive loading* (by invitation): SAMUEL RANDALL DETWILER.

*Concentration of the water soluble vitamins of yeast*: T. B. OSBORNE.

*The manner of infection of the white pine by the blister rust, with demonstrations at the Connecticut Agricultural Experiment Station*: (by invitation): G. P. CLINTON.

*Certain chemical properties of foods and their relation to nutrition, with demonstrations at the Connecticut Agricultural Experiment Station*: T. B. OSBORNE and LAFAYETTE B. MENDEL.

*Studies upon the life cycles of the bacteria* (introduced by Raymond Pearl) (read by title): F. LOHNIS.

*Lower California and its natural resources* (introduced by C. D. Walcott) (read by title): EDWARD W. NELSON.

*A recalculation of the atomic weights* (read by title): F. W. CLARKE.

*Biographical memoir of Richmond Mayo-Smith* (read by title): EDWIN R. A. SELIGMAN.

*Biographical memoir of Samuel Wendell Williston* (read by title): R. S. LULL.

*Biographical memoir of Charles R. Van Hise* (read by title): THOMAS CHOWDER CHAMBERLIN.

WEDNESDAY, NOVEMBER 12

*Morning Session*

*On the embryological basis of human mortality:*  
RAYMOND PEARL.

*Jupiter's five attendant planets (by invitation):*  
E. W. BROWN.

*Notes on human sex ratio (by invitation):* C. C. LITTLE.

*Sex intergrades and their peculiar inheritance*  
(by invitation): A. M. BANTA.

*The starting of a ship under constant power*  
(by invitation): J. K. WHITEMORE.

*Endomixis in relation to selection in paramecia*  
(by invitation): LORANDE LOSS WOODRUFF.

*The activities of the ions of largely ionized substances:* ARTHUR A. NOYES and DUNCAN MAC-INNES.

*The basal metabolism of boys from one to thirteen years of age:* FRANCIS G. BENEDICT.

# AMERICAN MATHEMATICAL SOCIETY

THE two hundred and fifth regular meeting of the society was held at Columbia University on Saturday, October 25, 1919, extending through the usual morning and afternoon sessions. The attendance included forty-nine members.

Vice-president G. D. Birkhoff occupied the chair. The council announced the election of the following persons to membership in the society: Dr. C. C. Camp, University of Illinois; Professor Carl J. Coe, University of Michigan; Dr. Teresa Cohen, Johns Hopkins University; Mr. W. E. Heal, U. S. Bureau of Plant Industry; Dr. C. A. Nelson, University of Kansas; Mr. J. L. Walsh, Harvard University. Four applications for membership were received.

A list of nominations for officers for the coming year was adopted and ordered printed on the official ballot for the annual election. A committee was appointed to audit the treasurer's accounts for the current year. Propositions for establishing a board of custodians for the society's property and for issuing a new catalogue of the library were laid over for action at the annual meeting.

The following papers were read at this meeting:  
1. *Motion in a resisting medium:* J. K. WHITEMORE.

2. *A countable collection of mutually exclusive closed point sets with connected sum:* ANNA M. MULLIKEN.

3. *New proofs of certain finiteness theorems in the theory of modular covariants:* OLIVE C. HAZLETT.

4. *On the convergence of certain classes of series of functions:* R. D. CARMICHAEL.

5. *Note on a transformation of series similar to the principle of inversion in the theory of numbers:* R. D. CARMICHAEL.

6. *Note on the theory of integral functions of the first class:* R. D. CARMICHAEL.

7. *Two linear integral equations with two parameters:* ANNA J. PELL.

8. *Note on stable periodic orbits:* G. D. BIRKHOFF.

9. *Some problems connected with submarine acoustics:* O. D. KELLOGG.

10. *Differential variations in ballistics, with applications to the qualitative properties of the trajectory:* T. H. GRONWALL.

11. *Standard density, temperature and pressure of the air aloft:* A. A. BENNETT.

12. *The probable error of a small number of rounds:* A. A. BENNETT.

13. *The physical bases of ballistic table computations:* A. A. BENNETT.

14. *The sign of the distance in analytic geometry:* A. A. BENNETT.

15. *Invariants of infinite groups in the plane:* E. F. SIMONDS.

16. *The motion of  $n$  bodies, under any forces, starting from rest:* EDWARD KASNER.

The San Francisco Section met at the University of California on October 25. The annual meeting of the society will be held at Columbia University on December 30-31 and will be followed by that of the Mathematical Association of America on January 1-2. The Chicago and the Southwestern Sections will meet at St. Louis with the American Association for the Advancement of Science.

F. N. COLE,  
*Secretary*

# MEETING OF THE COMMITTEE OF POLICY OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE committee on policy met at the residence of President Flexner, New York City, on Thursday, November 13, 1919, at 5 P.M. The meeting was called to order by the permanent secretary, who suggested that Mr. Flexner take the chair. Members of the committee present were: Messrs. Flexner, Humphreys, MacDougal, Cattell, Fairchild, Paton, Woodward, Noyes and Howard.

The minutes of the spring meeting were read and approved.

The permanent secretary made a statement re-