

Spanish, were still in the stage when red and yellow were the only colors clearly perceived.³

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THE NATIONAL ACADEMY OF SCIENCES.

THE academy held its autumn meeting at the Sheffield Scientific School of Yale University, on November 14 and 15. The scientific program was as follows:

JOHN TROWBRIDGE: 'Slow movements of electrical discharges.'

E. B. WILSON: 'Sex-determination and the chromosomes.'

L. B. MENDEL: 'Studies on the chemical physiology of development and growth.' (Introduced by R. H. Chittenden.)

W. M. DAVIS: 'The Dwyka glacial conglomerate of South Africa.' (Illustrated by lantern slides.)

B. B. BOLTWOOD: 'The disintegration products of thorium as indicated by the proportions of lead and helium in minerals.' (Introduced by H. L. Wells.)

A. HALL: 'Relation of the true anomalies in a parabola and a very eccentric ellipse having the same perihelion distance.'

S. L. PENFIELD: 'On a new mineral from Borax Lake, California.'

F. E. BEACH: 'On errors of excentricity and collimation in the human eye.' (Introduced by C. S. Hastings.)

C. S. PEIRCE: 'The relation of betweenness and Royce's O-collections.'

L. P. WHEELER: 'Some problems in metallic reflection.' (Introduced by C. S. Hastings.)

FRANZ BOAS: 'On Pearson's formulas of skew distribution of variates.'

A. AGASSIZ: 'On the variation in the spines of sea urchins.'

W. H. BREWER: 'Further observations on sedimentation.'

H. A. BUMSTEAD: 'The effect of Röntgen rays on certain metals.' (Introduced by C. S. Hastings.)

THE GEOLOGICAL SOCIETY OF AMERICA.

THE eighteenth annual meeting of the Geological Society of America will be held on

³I am indebted to Professor R. S. Woodworth, of Columbia University, for valuable suggestions and references to literature. He is not, however, responsible for the conclusions advocated.

December 27, 28 and 29, in Ottawa City, the Canadian capital. The circular of information issued by Secretary Fairchild gives the details of arrangements for the meeting there, and facilities regarding customs as well as railway and hotel accommodation usually given to the fellows of the society.

Ottawa is easily reached from all railway centers and is one of the most progressive cities of the Dominion, being the seat of government and the headquarters of the Geological Survey Department. This official survey, which began in 1842, has continued its operations uninterruptedly and there is now attached to the department a Museum of Geology, for petrography, general geology and historical geology, as well as for paleontology. Type specimens of Canadian fossils, described by Billings, by Whiteaves, Sir William Dawson, by Rupert Jones and by various other well-known authors, are deposited in the collections and can be seen to advantage.

A large attendance is expected at this meeting, many having already signified their intention of being present. A local committee has charge of the details of the meeting, and the evening sessions promise to be of an interesting nature. The annual dinner of the society will be followed by a reception at which the governor general will be present. The Russell House will be the headquarters. Rates are very reasonable, and every comfort will be provided for the guests attending the meeting. All parcels serving to illustrate papers to be presented at the meeting will be admitted free of duty by the commissioner of customs if addressed to Dr. H. M. Ami, Headquarters of the Geological Society of America, Russell House, Ottawa, Canada.

The society met at Ottawa in 1892 under the presidency of Professor B. K. Emerson. This year Professor Raphael Pumpelly is the president.

THE ROYAL SOCIETY'S MEDALS.

THE following is a list of those to whom the Royal Society has this year awarded medals: The Copley medal to Professor Dmitri Ivanovitch Mendeléef, of St. Petersburg, for

his contributions to chemical and physical science.

A Royal medal to Professor John Henry Poynting, F.R.S., for his researches in physical science, especially in connection with the constant of gravitation and the theories of electrodynamics and radiation.

A Royal medal to Professor Charles Scott Sherrington, F.R.S., for his researches on the central nervous system, especially in relation to reflex action.

The Davy medal to Professor Albert Ladenburg, of Breslau, for his researches in organic chemistry, especially in connection with the synthesis of natural alkaloids.

The Hughes medal to Professor Augusto Righi, of Bologna, on the ground of his experimental researches in electrical science.

MEETING OF TRUSTEES OF THE CARNEGIE FOUNDATION.

THE first meeting of the trustees of the Carnegie Foundation, the \$10,000,000 fund given by Mr. Andrew Carnegie last May for the pensioning of college professors, was held, on November 15, at Mr. Carnegie's residence, in New York.

The morning session was devoted to an informal conference. After luncheon Mr. Carnegie called the meeting formally to order. In a brief speech he expressed satisfaction at gathering together so many prominent educators. Nothing he had ever done, he said, seemed so propitious or so likely to be useful to the cause of education as this gift. He expressed the hope, in conclusion, that the trust would be administered in a broad and generous manner. President Eliot, of Harvard, in reply expressed the thanks of the teaching profession to the donor.

The board of directors organized by electing President Eliot chairman, President Harper vice-chairman and President Thwing secretary. By-laws were then adopted providing that the business of the board be entrusted to an executive committee and a president who shall be chairman of the committee. Dr. Henry S. Pritchett, president of the Massachusetts Institute of Technology, was chosen

president. The committee was made up as follows: President Butler, of Columbia; President Wilson, of Princeton; Provost Harrison, of the University of Pennsylvania; President Humphreys, of Stevens Institute; Mr. Vanderlip, vice-president of the National City Bank; and Mr. Franks, Mr. Carnegie's financial secretary.

It was decided that the head office of the foundation shall be in New York City. The third Wednesday in November was selected as the date of the annual meeting. A special meeting will be held in New York late in the winter, at which time the executive committee will make a report on the plan and scope of the organization.

All the trustees except President Harper, of Chicago, were present, namely: Charles W. Eliot, Harvard; A. T. Hadley, Yale; Nicholas Murray Butler, Columbia; Woodrow Wilson, Princeton; Jacob G. Schurman, Cornell; L. Clark Seeley, Smith; Charles C. Harrison, Pennsylvania; Alexander C. Humphreys, Stevens Institute; S. B. McCormick, Western University of Pennsylvania; Edwin B. Craighead, Tulane; H. C. King, Oberlin; Edwin H. Hughes, De Pauw; C. F. Thwing, Western Reserve University; Thomas McClelland Bell, Drake; George H. Denny, Washington and Lee; Principal Peterson, McGill University, Montreal; Samuel Plautz, Lawrence; David Starr Jordan, Stanford; W. H. Crawford, Allegheny; Henry S. Pritchett, Massachusetts Institute of Technology; F. A. Vanderlip, T. Morris Carnegie and Robert A. Franks.

SCIENTIFIC NOTES AND NEWS.

PROFESSOR ALBERT VON KÖLLICKER, the eminent anatomist and zoologist, died at Würzburg, on November 3, at the age of eighty-eight years.

At the meeting of the Academy of Natural Sciences of Philadelphia, held on November 7, the Hayden memorial gold medal was unanimously voted to Charles Doolittle Walcott, director of the United States Geological Survey, in recognition of the value of his individual contributions to geological science and of the benefits derived from his able and con-