President—J. S. Ames.

Vice-president—W. C. Sabine.

Secretary—D. C. Miller.

Treasurer—G. B. Pegram.

Members of the Council (four year term)—G. K. Burgess, J. C. McLennon.

Member of the Council (one year, unexpired term)—Max Mason.

Members of the Board of Editors of the Physical Review—Henry Crew, L. V. King, H. S. Uhler.

Colonel Millikan explained the purposes of the Smith-Howard Bill now before Congress, authorizing federal cooperation with the states for the promotion of engineering and industrial research. After general discussion it was unanimously voted that the American Physical Society favors federal aid and cooperation with the several states in support of research in science and engineering and in industrial research. The society favors the creation of boards of eminent scientists and engineers within each state for the administration of the funds appropriated for all research within the state.

At the morning sessions of December 27 and 28, 1918, thirty papers were presented as follows, four being read by title:

The unique system of units: W. W. Strong.

A simple stretched wire dilatometer: Arthur W. Gray.

Monochromatic and neutral tint screens in optical pyrometry: W. E. Forsythe.

The temperature, pressure, and density of the atmosphere in the region of northern France: W. J. Humphreys.

Refinements in spherometry: G. W. Moffitt.

A new type of hot wire anemometer: T. S. Taylor.

The linear thermal expansion of glass at high temperatures: C. G. Peters.

Some characteristics of glasses in the annealing range: A. Q. Tool and J. Valasek.

Striæ in optical glass: L. E. Dodd and A. R. Payne.

Preliminary determination of the thermal expansion of molybdenum: Lloyd W. Schadd and Peter Hidnert.

On the characteristics of electrically operated tuning forks: H. M. Dadourian. (Read by title.)

Ionization and resonance potentials for electrons in vapors of arsenic, rubidium and cæsium: Paul D. Foote, O. Rognley and F. L. Mohler.

Absorption coefficient of the penetrating radiation: Oliver H. Gish.

Photoelectric sensitivity vs. current rectification in molybdenite: W. W. Coblentz and Louise S. McDowell.

A device for the automatic registration of the α- and β-particles and γ-ray pulses: Alois F. Kovarik.

Note on the distribution of energy in the visible spectrum of a cylindrical acetylene flame: Edward P. Hyde, W. E. Forsythe and F. E. Cady.

Preliminary note on the luminescence of the rare earths: E. L. Nichols, D. T. Wilber and F. G. Wick.

On the critical absorption frequencies of chemical elements of high atomic numbers: William Duane and Takio Shimizu.

Some interesting results of eclipse magnetic observations: L. A. Bauer.

The minimum temperature at the base of the stratosphere: W. J. Humphreys. (Read by title.)

Why clouds never form in the stratosphere: W. J. Humphreys. (Read by title.)

Speeds in signaling by the use of light: W. E. Forsythe.

Thermal conductivity of various materials: T. S. Taylor.

Further observations on the production of metallic spectra by cathode luminescence: Edna Carter and Arthur S. King.

Effect of crystal structure upon photoelectric sensitivity: W. W. Coblentz. (Read by title.)

A mechanically blown wind instrument: A. G. Webster.

The dynamics of the rifle fired at the shoulder: A. G. Webster.

Interior ballistics, by a new gun indicator: A. G. Webster.

Residual gases in highly exhausted glass bulbs: J. F. Shrader.

Silvering quartz fibers by cathodic sputtering: J. F. Shrader.

Dayton C. Miller,
Secretary

SCIENCE

A Weekly Journal devoted to the Advancement of Science, publishing the official notices and proceedings of the American Association for the Advancement of Science

Published every Friday by

THE SCIENCE PRESS

LANCASTER, PA. GARRISON, N. Y.

NEW YORK, N. Y.

Entered in the post-office at Lancaster, Pa., as second class matter