

PROCEEDINGS
OF THE
AMERICAN PHYSICAL SOCIETY.

MINUTES OF THE SEVENTIETH MEETING.

A JOINT meeting of the Physical Society with Section B of the American Association for the Advancement of Science was held in the physics lecture room of the Georgia School of Technology, Atlanta, Ga., December 29, 1913, to January 3, 1914. The presiding officers were Past-President E. L. Nichols (in the absence of President B. O. Peirce, of the Physical Society) and Vice-President A. D. Cole, of Section B.

The annual business meeting of the Physical Society was held Thursday forenoon, January 1, 1914. Messrs. A. Zeleny and N. E. Gilbert acted as tellers and reported the result of the mail ballot for officers for 1914.

No nominee for president having a majority of all votes cast, the Society chose Ernest Merritt president by ballot.

As Mr. Merritt had been elected Vice-President by the mail ballot, a new ballot resulted in the choice of K. E. Guthe as Vice-President.

The following officers were declared elected by the mail ballot:

Secretary: A. D. Cole.

Treasurer: J. S. Ames.

Members of the Council: D. C. Miller and G. K. Burgess.

Managing Editor: Frederick Bedell.

Members of Editorial Board: A. G. Webster, C. E. Mendenhall, H. A. Bumstead.

The secretary presented the reports of the treasurer and of the managing editor of the PHYSICAL REVIEW. These reports will be printed and mailed to all members.

It was announced that the Council had voted to continue the existing arrangement with the publishers of Science Abstracts for the year 1914.

The session of Tuesday afternoon, December 30, was in charge of Section B, and was devoted to papers of general interest as follows:

Address of the Retiring Vice-President of Section B, "The Methods of Physical Science; to what do they Apply?" A. G. WEBSTER. (Read by A. D. Cole.)

The Factors of Climatic Control. W. J. HUMPHREYS.

Isostasy and the Size and Shape of the Earth. WM. BOWIE.

On Thursday forenoon there was a joint session with Sections B and C, with this program:

Geochemical Research. JOHN JOHNSON.

The Ternary System; Lime—Alumina—Silica. G. A. RANKIN.

Seismology. OTTO KLOTZ (Dominion Observatory, Ottawa, Canada).

The Present Status of the Magnetic Survey of the Earth. L. A. BAUER
(presented by W. J. Humphreys).

At the other three sessions of the meeting the following papers were presented:

The Illumination-Current Relationships in Potassium Photo-electric Cells.
HERBERT E. IVES.

Range of Alpha-Particles in Air at Different Temperatures. ALOIS F. KOVARIK.

Counting the Transmitted and Reflected Beta-Particles. ALOIS F. KOVARIK
and L. W. MCKEEHAN.

An Absolute Method of Determining the Ballistic Constant of a Moving-coil Galvanometer. PAUL E. KLOPSTEG (presented by Anthony Zeleny).

Contributions to the Thermodynamics of Saturated Vapors. J. E. SIEBEL.

Experimental Tests on an Artificial Cable at 700 Cycles. H. G. HEIL.

The Energy Absorption of Condensers for High-frequency Oscillations
excited by the Lepel Arc. A. D. COLE.

Binaural Beats and the Character of the Sound-conducting Paths between
the Ears. G. W. STEWART.

The Mobility of Ions at Different Temperatures and Constant Gas Density.
H. A. ERIKSON.

Thermo-electromotive Force produced when the Two Metals forming a
Junction are not at the Same Temperature. S. L. BROWN.

Why some Winters are Warm and others Cold in the Eastern United States.
W. J. HUMPHREYS.

Physical Characteristics of the Vowels. DAYTON C. MILLER.

Absorption of Beta-Rays by Gases. ALOIS F. KOVARIK.

Calculation of the Size of Wire for a Damping Rectangle to Produce Critical
Damping in a Moving-coil Galvanometer. PAUL E. KLOPSTEG (presented by
Anthony Zeleny).

A New Fluorescence Spectrum of Uranyl Chloride. EDWARD L. NICHOLS
and ERNEST MERRITT.

Preliminary Note on Fluorescence Spectra of Aqueous Solutions of Uranyl
Salts at Low Temperatures. EDWARD L. NICHOLS and ERNEST MERRITT.

A System of Color Standards for the Practical Measurement of Color. H. E.
WETHERILL. (By title.)

On the Thermions Produced by Platinum. CHARLES SHEARD. (By title.)

Discharge Potentials across Very Short Distances. EDNA CARTER.

Adjournment Thursday noon, January 1, 1914.

A. D. COLE,
Secretary.