

THE MINERALOGICAL SOCIETY OF AMERICA

Fourteenth Annual Meeting

HERBERT P. WHITLOCK, *President*

Chicago, Illinois

December 28-30, 1933

PROGRAM

In joint session with the Geological Society of America. Friday, December 29, 1933, at 12 o'clock, noon.

HERBERT P. WHITLOCK, *Presidential Address: A Century of Progress in Crystallography.*

LIST OF PAPERS

To be presented Thursday, December 28, 1933, after the business session at 2 P.M., and thereafter at the regular sessions on Friday and Saturday if not previously completed.

T. L. WALKER—**The Royal Ontario Museum of Mineralogy.**

CHARLES PALACHE—**Contributions to crystallography:** a) *claudeite*; b) *minasragrite*; c) *samsonite*; d) *native selenium*; e) *indium*.

CHARLES PALACHE—**Crystallography of the Uranium Oxides.**

CHARLES PALACHE—**Pseudobrookite.**

A. L. PARSONS—**An Unusual Calcite Crystal from Godfrey, Ontario.**

A. L. PARSONS—**A Simple and Inexpensive Sheet for Gnomonic and Stereographic Projections.**

AUSTIN F. ROGERS—**Zones as a Basis for the Definition of Crystal Systems.**

R. C. EMMONS AND E. F. WILLIAMS—**A High Index Refractometer.**

THEODORE A. DODGE—**Determination of Optic Angle with the Universal Stage.**

J. D. H. DONNAY, G. TUNELL, AND T. F. W. BARTH—**The Various Modes of Attack in Crystallographic Investigation.**

R. C. EMMONS—**Plagioclase Determination by the Modified Universal Stage.**

JOHN W. GRUNER—**Relation of Silicate Sheet Structures—Demonstration with Models.**

G. TUNELL AND C. J. KSANDA—**The Relation of X-ray Goniometer Data to Reflection Goniometer Measurements on Sylvanite.**

- C. S. HURLBURT, JR., AND A. F. GONYER—A New Group of Phosphates.
- W. A. TARR—A Study of the Linnaeite Group of Sulphides.
- CHARLES PALACHE—Minerals from Topaz Mountain, Utah.
- C. B. SLAWSON—Sussexite from Iron County, Michigan.
- KENNETH K. LANDES—The Beryl-Molybdenite Deposit of Chaffee County, Colorado.
- CARL R. SCHWARTZLOW—Two Dimensional Dendrites and their Origin.
- LLOYD F. FISHER—Growth of Stalactites.
- J. F. SCHAIRER AND N. L. BOWEN—Preliminary report on the System,  $K_2O \cdot Al_2O_3 \cdot SiO_2$ .
- A. P. BEAVEN AND J. E. HAWLEY—Mineralogy and Genesis of the Mayville Iron Ore of Wisconsin.
- H. N. FISK—The Significance of Three Generations of Plagioclase in an Andesite-basalt Flow.
- DUNCAN STEWART, JR.—The Petrography of the Beacon Sandstone of South Victoria Land.
- LINCOLN DRYDEN—Statistical Correlation of Heavy Mineral Suites.
- A. E. ALEXANDER—Some Interesting Heavy Minerals from the Sediments Collected on the Continental Shelf off Northeastern United States.
- J. J. RUNNER—The Association of Certain Igneous and Sedimentary Amphibolites.
- D. JEROME FISHER—Coal Composition.
- CLAYTON G. BALL—Kaolinite in Illinois Coal.
- EDWARD H. WATSON—Differentiation in Teschenite Sills at El Mulato, Tamaulipas, Mexico.