

## PROCEEDINGS OF SOCIETIES

NEW YORK MINERALOGICAL CLUB, INC.

*The American Museum of Natural History, New York City*

*Meeting of Oct. 15, 1941*

The deaths of Dr. Olaf Anderson, Mr. James A. Morton, and Mr. Horace A. Woodward were announced and eulogies read.

The meeting was devoted to reports by the members on summer collecting. Mr. Leonard Morgan exhibited very fine smoky quartz crystals from Lovejoy's gravel pit at North Conway, N. H.

Mr. Northup showed samarskite, euxenite, uraninite, torbernite, garnet, and emerald crystals from Mitchell County, North Carolina, and large crystallized pyrite concretions from a clay bed at Sayreville, N. J.

Mr. O. Ivan Lee found excellent dufenite at Midvale, Rockbridge Co., Va. He also reported that the Morefield mine at Amelia, Va., is soon to be worked for tantalite again. Mr. Peter Zodac showed a large black tourmaline crystal from Bachelor's Ridge, Saratoga County, N. Y.

*Meeting of Nov. 5, 1941*

Mr. E. A. Maynard spoke on the subject: "Rambling through the West." His talk was illustrated with a large number of colored slides and specimens of shattuckite, wulfenite, diopside, azurite, vanadinite, and malachite.

*Meeting of Nov. 19, 1941*

Mr. Grahl reported on the fall excursion to the Strickland and Schoonmaker quarries on Collins Hill near Portland, Conn. The usual minerals were found in abundance as well as a number of fine specimens of bertrandite.

Mr. Trainer then introduced the speaker of the evening, Dr. J. F. Schairer of the Geophysical Laboratory of the Carnegie Institution of Washington, whose talk was entitled "The relations between olivines, pyroxenes and melilites in igneous rocks."

The studies at the Geophysical laboratory on the melting relations of silicates were described. Dr. Schairer discussed in detail by means of phase equilibrium diagrams the chemical and melting relationships of the molecules of the olivines, pyroxenes, and melilites. All of these show extensive solid solutions. Many binary and ternary diagrams were explained and by means of a tetrahedral model, the complex relations between the lime-iron olivines, the  $\text{CaSiO}_3$ - $\text{FeSiO}_3$  pyroxenes and pyroxenoids and the gehlenite-iron ackermanite melilites in the quaternary system  $\text{CaO-FeO-Al}_2\text{O}_3\text{-SiO}_2$  were shown.

*Meeting of Dec. 17, 1941*

Mr. Leo Neal Yedlin spoke on "Collecting Minerals in Maine." He discussed the five stages in the formation and subsequent alteration of pegmatites in Maine and reported on specimens found at various Maine localities; among these were: large twinned hercynite crystals, blue topaz, small samarskite and monazite crystals from Topsham; quartz casts after heulandite, (?) white and blue tabular apatite, and bertrandite from Greenwood; pollucite, triphylite and purpurite-heterosite from Newry; large lepidolite crystals from Mt. Apatite; large radiating masses of rubellite, caesium beryl, eosporite, childrenite, and uraninite from Black Mt. at Rumford; splendid brown garnet crystals from Minot; as well as biotite crystals from Standpipe hill. These specimens were exhibited along with other type specimens of Maine minerals which the speaker had borrowed from older collections.

M. ALLEN NORTHUP, *Secretary*