

was especially interesting because of the many new methods and principles introduced.

SUNDAY, APRIL 22. Meet at 69th Street Terminal at 8.45 A. M. for trip to General Trimble's Mine and Chester Springs.

SUNDAY, MAY 6. Meet at 69th Street Terminal at 8.45 A. M. for trip to Moro Phillips Mine, Blue Hill and Sycamore Mills, Delaware Co.

SAMUEL G. GORDON, *Secretary*.

SOCIÉTÉ IMPÉRIALE RUSSE DE MINÉRALOGIE

On January 20 (7, Russian Calendar), 1917, the Imperial Russian Society of Mineralogy celebrated the one hundredth anniversary of its existence, and its history was discussed at the regular annual meeting held on that date. The officers of the society are:

President, S. A. I. Madame la Princesse Eugénie d'Oldenbourg.

Director, A. P. Karpinsky, member of the Imperial Academy of Sciences.

Secretary, A. P. Guérassimov, mining engineer.

NEW MINERALS

Griffithite, A MEMBER OF THE CHLORITE GROUP

ESPER S. LARSEN AND GEORGE STEIGER, of the U. S. Geological Survey: *Mineralogic notes. J. Wash. Acad. Sci.*, 7, (1), 11-12, 1917.

NAME: From locality, Griffith Park, Los Angeles, California.

PHYSICAL PROPERTIES

Color: dark green. Luster: vitreous. H. about 1. Sp. Gr. 2.309. Fusibility 4, with intumescence and formation of black magnetic slag.

CRYSTALLOGRAPHIC AND OPTICAL PROPERTIES

Crystal system presumably monoclinic like other chlorites. Habit, basal plates and shreds. Cleavage, basal perfect. Optically-. Biaxial with 2V varying from 0-40°. X normal to cleavage. Birefringence strong. Pleochroism and indices varying somewhat, as follows: $\alpha = 1.485 \pm 0.01$, pale yellowish; $\beta = 1.569 \pm 0.005$, olive green; $\gamma = 1.572 \pm 0.005$, brownish green.

CHEMICAL PROPERTIES

Gelatinizes with HCl. Homogeneous material gave on analysis (by S): SiO₂ 39.64, Al₂O₃ 9.05, Fe₂O₃ 7.32, FeO 7.83, MgO 15.80, CaO 2.93, Na₂O 0.71, K₂O none, H₂O-12.31, H₂O+4.90, TiO₂ none, sum 100.49. The formula derived is 4(Mg, Fe, Ca) O. (Al, Fe)₂O₃. 5SiO₂. 7H₂O, or perhaps H₄R₄'R'''₂ Si₅O₁₉. 5H₂O.

OCCURRENCE AND PARAGENESIS

Fills amygdaloidal cavities in a basalt collected by R. T. Hill at Cahuenga Pass in Griffith Park. The amygdules are up to an inch in largest dimension and comprise a considerable part of the rock; they are pure griffithite. To be classed as a mineral of metamorphosed calcic igneous rocks.

E. T. W.