NEW MINERAL NAMES

Pseudowavellite

H. LAUBMANN: in F. Henrich, *Ber. deutsch. Ch. Ges.*, **55**, (Abt. B) p. 3016, 1922; *Geognostische Jahreshefte, München*, **35**, 203, 1922.

NAME: From its resemblance to wavellite.

CHEMICAL COMPOSITION: Analysis: Al_2O_3 28:18, $(Yt., Er)_2O_3$ 1.02, Fe_2O_3 5.79, CaO 16.86, BaO 0.67, P_2O_5 30.10, H_2O 18.76; Sum 101.38

PHYSICAL PROPERTIES: White stalactites, triangular in cross section, with perfect basal cleavage.

OPTICAL PROPERTIES: Optically +, uniaxial, birefringence 0.015, indices of refraction about 1.63.

OCCURRENCE: As white radiating incrustations on limonite and wavellite from Amberg.

DISCUSSION: Needs further study before accepting as a new species.

J. F. SCHAIRER

Alkali-Spinel

H. VON ECKERMANN: Alkali-spinel of the Mansjö Mts. *Geol. Fören, Förh.*, **44**, 757, (1922).

NAME: From the composition.

CHEMICAL PROPERTIES: Black octahedrons contained Na_2O 1.38% and K_2O 1.31%. Analysis: MgO 24.76, FeO 9.62, CaO 0.84, Na_2O 1.38, K_2O 1.31, Fe_2O_3 3.04, Al_2O_3 57.80, SiO_2 0.94; Sum 99.69.

CRYSTALLOGRAPHIC PROPERTIES: Sharp octahedrons.

PHYSICAL PROPERTIES: Color blackish green. Sp. Gr. (15°) 3.683. $n=1.720$.

OCCURRENCE: Among the contact-minerals in the Mansjö Mt. limestone in the province of Hälsingland, Northern Sweden.

J. F. S.

Avogadrite

FERRUCCIO ZAMBONINI: Sulla presenza, tra i prodotti dell' attuale attivita del Vesuvio, di una varietá cesifera del fluoborato di potassio, (On the presence, among the products of Vesuvius, of a caesium-bearing variety of potassium fluoborate), *Rend. Accad. Lincei*, Ser. 6, **III**, 644–649(1926).

NAME: In honor of Amedo *Avogadro*, famous Italian chemist.

CHEMICAL PROPERTIES: A fluoborate of potassium carrying some caesium, (K, Cs) BF_4. Spectroscopic analysis gave K, Cs, B. Chemical analysis deduced from its similarity to the artificial salt. Somewhat soluble in water.

CRYSTALLOGRAPHIC PROPERTIES: Tabular crystals of eight sides having an angle of 77°. Artificial salt is orthorhombic, $a:b:c=0.7898:1:1.2830$ ($m:m=76°39'$).

PHYSICAL AND OPTICAL PROPERTIES: Biaxial, negative (?), n is less than that of water. Birefringence very weak. For the artificial salt $\alpha_{Na}=1.3239$, $\beta_{Na}=1.3245$, $\gamma_{Na}=1.3247$. $2E$ large. Plane of the optic axes parallel to $a(010)$, $a=Z$, $b=Y$, $c=X$. Sp. Gr. (pure compound) 2.505.

OCCURRENCE: Found as a sublimate at Vesuvius mixed with other salts.

W. F. FOSHAG