

various imitations separate into groups; the members comprising any one group are chemically similar. Doubtful cases can be solved by measuring in addition the relative dispersion.

MR. H. E. BUCKLEY: *The crystallization of potash-alum*. The author described the results of experiments on the differences of crystal habit obtained under varying conditions of cooling, and evaporation, and in the presence of various substances in solution.

W. CAMPBELL SMITH, *General Secretary*

NEW MINERAL NAMES

Renardite

ALFRED SCHOEP: La renardite, nouveau Minéral uranifère (Renardite, a new uranium mineral). *Bull. Soc. Min. Fran.*, **51**, 1-6, 1928.

NAME: In honor of A. F. Renard, formerly professor of mineralogy at the University of Gand.

CHEMICAL PROPERTIES: A hydrous phosphate of uranium and lead, $PbO \cdot 4UO_3 \cdot P_2O_5 \cdot 9H_2O$. Analysis: Insol. 2.11, PbO 12.26, P_2O_5 8.15, CoO 3.68, MoO 0.74, UO_3 64.82, H_2O 8.74. Sum 100.50. In a closed tube it yields water and turns brown. Fuses on charcoal to a black scoriaceous mass. Easily soluble in hot HNO_3 , in HCl with separation of lead on cooling.

CRYSTALLOGRAPHIC PROPERTIES: Orthorhombic. $a:c=1:1.209$. Flat, rectangular prisms. Forms (100), (010), (101). Cleavage parallel to (100), perfect.

PHYSICAL AND OPTICAL PROPERTIES: Color yellow, luster greasy. Biaxial negative, plane of optic axes is parallel to (001). $X=a$, $Y=c$, $Z=b$, $\alpha=1.715$, $\beta=1.736$, $\gamma=1.739$. Dispersion $\rho > \nu$. Pleochroism X=colorless, Y=yellow, Z=yellow.

OCCURRENCE: Found as minute crystals with quartz, torbernite and clay from the Kasolo Mine, Katanga, Belgian Congo. Resembles dewindtite and dumotite.

W. F. FOSHAG

Chile-Loweite

W. WETZEL: Die Salzbildungen der Chilenischen Wüste (The formation of Salts in the Chilean Desert). *Chemie der Erde*, **3**, 388-389, 1928.

CHEMICAL PROPERTIES: A hydrous sodium, potassium, magnesium sulphate, $K_2Na_4Mg_2(SO_4)_6 \cdot 5H_2O$. Analysis (on impure material): K_2O 10.83, Na_2O 20.51, MgO 7.15, SO_3 43.43, N_2O_5 8.73, H_2O -0.23, H_2O +9.05.

CRYSTALLOGRAPHIC PROPERTIES: Trigonal. Habit: thin tabular to the base. $a:c=1:1.19$ ca. Forms: base and rhombohedron.

PHYSICAL AND OPTICAL PROPERTIES: Optically negative. $\epsilon=1.434$, $\omega=1.470$. Sp. Gr. 2.153 ca.

OCCURRENCE: Found in the "calichera" between the "Chile" "Alemania" works, at Taltal, Chile, as minute crystals.

W.F.F.