

NEW MINERAL NAMES

Legrandite

JULIEN DRUGMEN AND MAX H. HEY: Legrandite, a new zinc arsenate. *Mineral Mag.*, **23**, 175-178, 1932.

NAME: In honor of Mr. Legrand, who collected the mineral.

CHEMICAL PROPERTIES: A hydrous arsenate of zinc: $Zn_{14}(AsO_4)_9OH \cdot 12H_2O$. Analysis: As_2O_5 42.02, ZnO 46.68, Fe_2O_3 2.14, MnO 0.05, H_2O 9.36. Sum 100.25.

CRYSTALLOGRAPHICAL PROPERTIES: Monoclinic. Habit prismatic. $a=1.6075$, $c=1.2886$, $\beta=75^\circ 35'$, (from x -ray data). Unit cell dimensions: $a=12.70$, $b=7.90$, $c=10.18\text{\AA}$.

PHYSICAL AND OPTICAL PROPERTIES: Color canary yellow to almost colorless. Pleochroic. $G. 4.01 \pm 0.05$.

Biaxial positive. $2E=65^\circ \pm 5^\circ$. Dispersion distinct, $r < v$, $\alpha=1.675$, $\beta=1.690$, $\gamma=1.735$. (all $\pm .005$).

OCCURRENCE: Found as massive radiating prisms on massive sphalerite with pyrite, mimetite(?), siderite(?) from the Flor de Peña mine, Lampazos, Nuevo Leon, Mexico.

W.F.F.

Braggite

F. A. BANNISTER: Determination of minerals in platinum concentrates from the Transvaal by x -ray methods. *Mineral Mag.*, **23**, 198-201, 1932.

NAME: In honor of Sir William H. Bragg and Prof. W. L. Bragg, pioneers in the x -ray investigation of crystals.

CHEMICAL PROPERTIES: A sulfide of platinum and palladium with some nickel: (Pt, Pd, Ni)S. Analysis: Pt by difference 58.2, Pd 18.1, Ni 4.7, S 19.0.

CRYSTALLOGRAPHICAL PROPERTIES: Tetragonal. Dimension of unit cell, $a=6.37$, $c=6.58\text{\AA}$.

OCCURRENCE: Found in the platinum concentrates from Rustenburg and Potgietersrust, Transvaal, associated with cooperite, laurite, sperrylite and platinum.

W.F.F.

NEW DATA

Cooperite

F. A. BANNISTER: Determination of minerals in platinum concentrates from the Transvaal by x -ray methods. *Mineral Mag.*, **23**, 189-195, 1932.

CHEMICAL PROPERTIES: Formula PtS and not PtS_2 as previously reported. Analysis (on material selected from x -ray examined material, by M. H. Hey), S 17.5, 14.3; Ni 0 1; Pt (by difference 83.0, 85.6. On carefully selected material by H. R. Adam: S 14.4, 14.36; Ni tr.; Ru and Ir. —, 0.62; Pd 2.6, 4.31; Pt 82.2, 80.26.

CRYSTALLOGRAPHICAL PROPERTIES: Tetragonal (not orthorhombic as reported, the measured crystal being laurite). c (from x -ray data) = 1.242. Dimensions of the unit cell $a=4.91$, $c=6.10\text{\AA}$.

W.F.F.