

## 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.