Crystal Data: Monoclinic. Point Group: 2/m. Prismatic to thick tabular pseudohexagonal crystals, with $\{100\}$, $\{001\}$, $\{110\}$, rare $\{011\}$, $\{\overline{2}01\}$, to 2 mm.

Physical Properties: Hardness = 3 D(meas.) = 2.463 D(calc.) = 2.51

Optical Properties: Semitransparent. Color: Pale yellow-orange, light to dark yellow, orange-brown.

Optical Class: Biaxial (+). Pleochroism: X = Y = pale yellow; Z = yellow. Orientation: $Z = b; X \wedge c = 2^{\circ}; Y \wedge a = 12^{\circ}.$ $\alpha = 1.626$ $\beta = 1.650$ $\gamma = 1.686$ 2V(meas.) = n.d. $2V(calc.) = 80^{\circ}$

Cell Data: Space Group: $P2_1/a$. a = 9.647 b = 7.428 c = 10.194 $\beta = 104.63^{\circ}$ Z = 2

X-ray Powder Pattern: Hagendorf, Germany. 9.926(10), 5.869(7), 3.472(4), 4.678(3), 3.908(3), 3.186(3), 3.069(3)

Chemistry: (1) Hagendorf, Germany; analysis not given, stated to correspond to (Mn_{0.78}Al_{0.20} $\operatorname{Ca}_{0.02}$ $_{\Sigma=1.00}$ $(\operatorname{Fe}_{1.80}^{3+}\operatorname{Fe}_{0.10}^{2+}\operatorname{Mg}_{0.07}\operatorname{Mn}_{0.04})_{\Sigma=2.01}(\operatorname{PO}_{4})_{2}(\operatorname{OH})_{2} \cdot \operatorname{8H}_{2}\operatorname{O}.$

Polymorphism & Series: Trimorphous with laueite and stewartite.

Occurrence: As incrustations and replacements of stewartite crystals in a complex zoned granite pegmatite (Hagendorf, Germany).

Association: Stewartite, laueite, strunzite, triphylite, Fe-Mn oxides (Hagendorf, Germany).

Distribution: From Hagendorf, Bavaria, Germany. In Portugal, at the Mangualde pegmatite, near Mesquitela, and in the Bendada pegmatite, near Guarda. From the Palermo #1 mine, near North Groton, Grafton Co., New Hampshire; at the White Elephant mine, near Pringle, Custer Co., South Dakota, USA.

Name: From the Greek for false and its relation to laueite, as it is not that species.

Type Material: University of Chicago, Chicago, Illinois, USA, P239.

References: (1) Strunz, H. (1956) Pseudolaueit, ein neues Mineral. Naturwiss., 43, 128 (in German). (2) (1956) Amer. Mineral., 41, 815 (abs. ref. 1). (3) Baur, W.H. (1969) A comparison of the crystal structures of pseudolaueite and laueite. Amer. Mineral., 54, 1312–1323. (4) Moore, P.B. (1975) Laueite, pseudolaueite, stewartite and metavauxite: a study in combinatorial polymorphism. Neues Jahrb. Mineral., Abh., 123, 148–159.