

**Crystal Data:** Monoclinic. *Point Group:* 2/m. As imperfect, thick-tabular to blocky aggregates, to 0.3 mm, composed of curved and randomly oriented laths to 150  $\mu\text{m}$ . Crystals exhibit {010}, {100}, and {001}.

**Physical Properties:** *Cleavage:* Distinct on {010} and parting on {100}. *Fracture:* n.d. *Tenacity:* Brittle. Hardness = 3.5 D(meas.) = 3.33(2) D(calc.) = 3.34

**Optical Properties:** Translucent. *Color:* White. *Streak:* n.d. *Luster:* Vitreous. *Optical Class:* Biaxial (-).  $\alpha = 1.671(3)$   $\beta = 1.682(2)$   $\gamma = 1.687(3)$   $2V(\text{meas.}) = 65(5)^\circ$   $2V(\text{calc.}) = 68^\circ$  *Orientation:*  $X = b$ . *Dispersion:* Weak,  $r > v$ .

**Cell Data:** *Space Group:* C2/c.  $a = 16.33(4)$   $b = 12.03(3)$   $c = 6.93(1)$   $\beta = 94.84(5)^\circ$   
Z = 2

**X-ray Powder Pattern:** Fuchs quarry, near Sailauf, Spessart Mountains, Bavaria, Germany. 3.25 (100), 9.68 (39), 4.95 (34), 4.17 (34), 3.11 (32), 2.841 (27), 2.711 (26)

Chemistry:	(1)	(2)
Li <sub>2</sub> O	0.04	
BeO	7.70	7.14
MgO	1.68	
CaO	8.28	8.01
MnO	16.27	25.33
FeO	4.89	
Al <sub>2</sub> O <sub>3</sub>	0.22	
As <sub>2</sub> O <sub>5</sub>	51.11	49.23
H <sub>2</sub> O	11.0	10.29
Total	101.19	100.00

- (1) Fuchs quarry, near Sailauf, Bavaria, Germany; electron microprobe analysis supplemented by IR spectroscopy, H<sub>2</sub>O by gas chromatography, Li and Be by ICP MS method; corresponding to  $\text{Ca}_{1.99}(\text{Mn}_{3.09}\text{Fe}_{0.92}\text{Mg}_{0.56}\text{Al}_{0.06}\text{Li}_{0.04})_{\Sigma=4.67}\text{Be}_{4.15}(\text{AsO}_4)_{5.99}(\text{OH})_{3.64} \cdot 6.40\text{H}_2\text{O}$ .  
(2)  $\text{Ca}_2\text{Mn}^{2+}_5\text{Be}_4(\text{AsO}_4)_6(\text{OH})_4 \cdot 6\text{H}_2\text{O}$ .

**Occurrence:** In a hydrothermal vein cross-cutting rhyolite.

**Association:** Braunite, Mn-bearing calcite, arseniosiderite.

**Distribution:** At Fuchs quarry, near Sailauf, Spessart Mountains, Bavaria, Germany.

**Name:** Honors Professor Martin Okrusch (b. 1934), a German specialist in the mineralogy and petrology of magmatic and metamorphic rocks, ore petrology and ore deposits.

**Type Material:** A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (94233).

**References:** (1) Chukanov, N.V., G. Möhn, I.V. Pekov, D.I. Belakovskiy, Y.V. Bychkova, V.V. Gurzhiy and J.A. Lorenz (2014) Okruschite,  $\text{Ca}_2\text{Mn}^{2+}_5\text{Be}_4(\text{AsO}_4)_6(\text{OH})_4 \cdot 6\text{H}_2\text{O}$ , a new roscherite-group mineral from Sailauf, Bavaria, Germany. *Eur. J. of Mineral.*, 26, 589-595.  
(2) (2016) *Amer. Mineral.*, 101, 751 (abs. ref. 1).