**Crystal Data**: Monoclinic. *Point Group*: 2/m. In rounded or grape-like aggregates, to 4 mm, composed of microcrystals each less than a few microns.

**Physical Properties**: *Cleavage*: None. *Tenacity*: n.d. *Fracture*: n.d. Hardness = 2 D(meas.) = n.d. D(calc.) = 3.123 Soluble in dilute HCl. Non-fluorescent.

**Optical Properties**: Translucent. *Color*: Pale greenish blue, may show a gray tint. *Streak*: White. *Luster*: Vitreous.

*Optical Class:* n(calc.) = 1.5975 Can be mistakenly taken for geminate.

**Cell Data**: Space Group:  $P2_1/n$ . a = 15.504(7) b = 18.144(7) c = 10.563(5)  $\beta = 103.30(4)^{\circ}$  Z = 4

**X-Ray Diffraction Pattern**: Geister vein, Rovnost mine, Jáchymov, Czech Republic. 9.089 (100), 3.533 (1.03), 2.972 (0.93), 2.937 (0.54), 3.909 (0.51), 4.394 (0.48), 3.369 (0.47)

Chemistry:		(1)	(2)
	CuO	31.83	34.97
	CaO	0.22	
	CoO	1.95	
	NiO	1.90	
	MnO	0.05	
	ZnO	0.68	
	FeO	0.06	
	SiO <sub>2</sub>	0.14	
	$As_2O_5$	53.16	50.51
	$P_2O_5$	0.06	
	$H_2O$	[15.35]	14.52
	Total	105.40	100.00

(1) Geister vein, Rovnost mine, Jáchymov, Czech Republic; average electron microprobe analysis supplemented by Raman spectroscopy,  $H_2O$  calculated from structure; corresponds to  $(Cu_{5.16}Co_{0.34}Ni_{0.33}Zn_{0.11}Ca_{0.05}Fe_{0.01}Mn_{0.01})_{\Sigma=6.01}[AsO_3(OH)]_{5.97}(SiO_4)_{0.03}[PO_3(OH)]_{0.01} \cdot 8H_2O.$ (2)  $Cu_6[AsO_3(OH)]_6 \cdot 8H_2O.$ 

**Occurrence**: As secondary crusts on cemented fragments with strongly altered relics of primary minerals.

**Association**: Tennantite, Bi-rich tennantite, galena, chalcopyrite, bornite, chalcocite, uraninite, quartz.

**Distribution**: From the Geister vein, 3<sup>rd</sup> Geister level of the Rovnost (Werner) mine, Jáchymov, Western Bohemia, Czech Republic.

Name: Honors Professor Jiří "George" Krupička (1913-2014), a polymath, linguist, geologist, and astronomer.

**Type Material**: Department of Mineralogy and Petrology, National Museum, Prague, Czech Republic (P1P 18/2020).

**References**: (1) Steciuk, G., J. Sejkora, J. Čejka, J. Plášil, and J. Hloušek (2021) Krupičkaite, Cu<sub>6</sub>[AsO<sub>3</sub>(OH)]<sub>6</sub>·8H<sub>2</sub>O, a new copper arsenate mineral from Jáchymov (Czech Republic). J. Geosciences, 66, 37-50.