Crystal Data: Monoclinic. *Point Group: 2/m.* As acicular crystals to 2 mm, elongated and striated parallel to [010].

Physical Properties: Cleavage: None.Fracture: n.d.Tenacity: n.d.Hardness = n.d.VHN = n.d.D(meas.) = n.d.D(calc.) = 5.86

Optical Properties: Opaque.*Color:* Black, sometimes with bluish violet iridescence, light gray in
reflected light.*Optical Class:* n.d.*Luster:* Metallic.R: (470) 38.2, (546) 36.2, (589) 35.4, (650) 32.8

Cell Data: Space Group: C2/m. a = 43.113(9) b = 4.0591(8) c = 37.874(8) $\beta = 117.35(3)^{\circ}$ Z = 2

X-ray Powder Pattern: Buca della Vena deposit, Tuscany, Italy. 3.402 (100), 3.369 (74), 2.815 (70), 2.756 (36), 3.84 (31), 2.251(31), 2.116 (31)

Chemistry:		(1)	(2)
	Cu	1.34	1.23
	Ag		0.48
	Hg	1.76	1.40
	Tl		0.59
	Pb	45.08	42.13
	Sb	31.50	32.88
	S	20.07	20.32
	As		0.47
	Bi		0.05
	0	0.39	<u> </u>
	Total	100.14	99.55

(1) Buca della Vena deposit, Tuscany, Italy; average of 6 electron microprobe analyses; corresponds to $Cu_{2.20}Hg_{0.92}Pb_{22.78}Sb_{27.10}S_{65.53}O_{2.55}$. (2) Monte Arsiccio mine, Tuscany, Italy; average of 3 electron microprobe analyses; corresponds to $Cu_{2.00}(Hg_{0.72}Ag_{0.28})_{\Sigma=1.00}Pb_{20.98}(Tl_{0.30}Ag_{0.18})_{\Sigma=0.48}$ (Sb_{27.87}As_{0.65}Bi_{0.03})_{$\Sigma=28.55$ S_{65.39}.}

Occurrence: In calcite veinlets cutting dolomitic lenses in a barite, pyrite and Fe-oxide deposit.

Association: Bournonite, tetrahedrite, sphalerite (Buca della Vena Fe-Ba deposit); Tl-bearing chovanite, sphalerite, valentinite (Monte Arsiccio mine).

Distribution: From the Buca della Vena Fe-Ba deposit, near the village of Ponte Stazzemese, and the Sant'Olga tunnel, Monte Arsiccio mine, near Sant'Anna di Stazzema, Apuan Alps, Italy. From the Magurka antimony deposit, Slovakia.

Name: Honors Jean Rouxel (1935-1998), a specialist in solid-state chemistry and member of the French Academy of Science, for his studies of chalcogenides.

Type Material: Natural History Museum, University of Pisa, Italy.

References: (1) Orlandi, P., A. Meerschaut, Y. Moëlo, P. Palvadeau, and P. Léone (2005) Leadantimony sulfosalts from Tuscany (Italy). VIII. Rouxelite, $Cu_2HgPb_{22}Sb_{28}S_{64}(O,S)_2$, a new sulfosalt from Buca Della Vena Mine, Apuan Alps: definition and crystal structure. Can. Mineral., 43(3), 919-933. (2) (2006) Amer. Mineral., 91, 219 (abs. ref. 1). (3) Biagioni, C., Y. Moëlo, and P. Orlandi (2014) Lead-antimony sulfosalts from Tuscany (Italy). XV. (Tl-Ag)-bearing rouxelite from Monte Arsiccio Mine: occurrence and crystal chemistry Mineral. Mag., 78(3), 651-661.