Crystal Data: Monoclinic. *Point Group*: 2/m. Crystals to 750 μ m display striated and curved faces, also as aggregates of stacked lamellar crystals with oblique terminal faces.

Physical Properties: *Cleavage*: None. *Tenacity*: Brittle. *Fracture*: Uneven. Hardness = \sim 3-3.5 VHN = 170-203, 188 average (25 g load). D(meas.) = n.d. D(calc.) = 3.692 (for analysis 1)

Optical Properties: Opaque. *Color*: Gray-black or dark copper-red, gray with bright-red internal reflections in reflected light. *Streak*: Black. *Luster*: Metallic. *Optical Class*: n.d. *Anisotropism*: Distinct, grayish white to bluish tints. R₁-R₂: (471.1) 27.9-29.8, (548.3) 27.8-31.0, (586.6) 27.3-30.8, (652.3) 27.0-30.5

Cell Data: Space Group: $P2_1/c$. a = 8.8925(2) b = 8.4154(2) c = 8.5754(2) $\beta = 108.665(3)^{\circ}$ Z = 4

X-ray Powder Pattern: Lengenbach quarry, Imfeld, Binn Valley, Canton Valais, Switzerland. 3.762 (100), 4.23 (80), 2.622 (80), 3.875 (70), 3.278 (70), 2.931 (70), 2.714 (70)

Chemistry:		(1)	(2)
	Tl	34.72	35.08
	Pb	35.45	35.56
	As	12.80	12.86
	Sb	0.04	
	S	16.22	16.51
	Total	99.24	100.00

(1) Lengenbach quarry, Imfeld, Binn Valley, Canton Valais, Switzerland; average of 9 electron microprobe analyses; corresponds to $Tl_{1.001}Pb_{1.008}(As_{1.007}Sb_{0.002})_{\Sigma=1.009}S_{2.982}$. (2) TlPbAsS₃.

Occurrence: In vugs in lenses and ribbons of recrystallized metadolostone.

Association: Hutchinsonite, barite, Tl-bearing dufrénoysite, realgar, pyrite, dolomite.

Distribution: From the Lengenbach quarry, Imfeld, Binn Valley, Canton Valais, Switzerland.

Name: Honors Richard Harrison Solly (1851-1925) for his contributions to the mineralogy of Lengenbach during the period of investigations, at the beginning of the 20th Century.

Type Material: Mineralogical Collection, Geology Museum, University of Lausanne, Switzerland (MGL no. 080126).

References: (1) Meisser, N., P. Roth, F. Nestola, C. Biagioni, L. Bindi, and M. Robyr (2017) Richardsollyite, TlPbAsS₃, a new sulfosalt from the Lengenbach quarry, Binn Valley, Switzerland. Eur. J. Mineral., 29(4), 679-688. (2) (2018) Amer. Mineral., 103, 835 (abs. ref. 1).