Crystal Data: Triclinic. *Point Group*: $\bar{1}$. As imperfect tablets flattened on $\{001\}$, to $\sim 50 \,\mu\text{m}$, in sub-parallel aggregates.

Physical Properties: Cleavage: Perfect on $\{001\}$. Fracture: Irregular. Tenacity: Brittle. Hardness = $\sim 2-3$ D(meas.) = n.d. D(calc.) = 6.304

Optical Properties: Transparent. *Color*: Bluish green. *Streak*: Very pale bluish green. *Luster*: Adamantine.

Optical Class: Biaxial. n = [2.011 by Gladstone-Dale calculation.]

Pleochroism: Moderate, very pale blue-green to moderate blue-green. *Orientation*: One optic axis almost perpendicular to {001}. *Dispersion*: Strong.

Cell Data: *Space Group*: *P*1 . a = 5.322(3) b = 7.098(4) c = 7.511(4) $\alpha = 83.486(7)^{\circ}$ $\beta = 76.279(5)^{\circ}$ $\gamma = 70.742(5)^{\circ}$ Z = 2

X-ray Powder Pattern: Aga mine, Otto Mountain, San Bernardino County, California, USA. 3.274 (100), 2.641 (27), 2.434 (23), 1.5882 (21), 4.76 (17), 1.6736 (17), 6.71 (16)

Chemistry:	(1)	(2)
PbO	43.21	44.97
CuO	15.38	16.03
TeO_3	35.29	35.38
H_2O	[3.49]	3.63
Total	97.37	100.00

(1) Aga mine, Otto Mountain, San Bernardino County, California, USA; average of 5 electron microprobe analyses supplemented by Raman spectroscopy, H_2O calculated; corresponds to $Pb_{0.98}Cu^{2+}_{0.98}Te^{6+}_{1.02}O_6H_{1.96}$. (2) $PbCu^{2+}Te^{6+}O_5(H_2O)$.

Occurrence: A secondary oxidation-zone mineral presumed to have formed by oxidation of primary sulfides and tellurides.

Association: Quartz, timroseite.

Distribution: From the dumps of the Aga mine, Otto Mountain, 1 mile northwest of Baker, San Bernardino County, California, USA.

Name: Honors Andrew (Andy) Gregor Christy (b. 1963), a Welsh-Australian mineralogist, petrologist, geochemist and solid-state chemist, for his contributions to mineralogy (new species described, work on the sapphirine, pyrochlore and hydrotalcite supergroups, and the crystal chemistry of tellurium).

Type Material: Natural History Museum of Los Angeles County, Los Angeles, California, USA (65577).

References: (1) Kampf, A.R., M.A. Cooper, S.J. Mills, R.M. Housley, and G.R. Rossman (2016) Lead-tellurium oxysalts from Otto Mountain near Baker, California, USA: XII. Andychristyite, PbCu²⁺Te⁶⁺O₅(H₂O), a new mineral with *hcp* stair-step layers. Mineral. Mag., 80(6), 1055-1065. (2) (2017) Amer. Mineral., 102, 694 (abs. ref. 1).