Crystal Data: Orthorhombic. *Point Group*: n.d. As fibrous crystals to $10 \,\mu\text{m}$ or prismatic tablets and blades to $25 \,\mu\text{m}$.

Physical Properties: *Cleavage*: Excellent on {100}. *Fracture*: Conchoidal and hackly. Hardness = 2-3 D(meas.) = 6.86(5) D(calc.) = 6.87 Fluoresces red and red-orange under LW UV.

Optical Properties: Transparent. *Color*: Canary yellow; white in reflected light with abundant bright canary yellow to palest yellow-white internal reflections; blackens on exposure to sunlight. *Streak*: Canary yellow. *Luster*: Vitreous.

Optical Class: Biaxial (+) [synthetic]. $2V = >70^{\circ}$ n = 2.25(1) *Pleochroism*: Weak, pale yellow to greenish yellow. *Dispersion*: r >> v. Length fast; parallel extinction. *Reflectivity*: ~15%

Cell Data: Space Group: Ammm, A2mm, Am2m, Amm2, or A222. a = 9.332(5) b = 16.82(2) c = 9.108(5) Z = 8

X-ray Powder Pattern: McDermitt mercury deposit, Humboldt County, Nevada, USA. 2.58 (100), 3.65 (90), 3.11 (51), 2.60 (49), 2.83 (36), 6.30 (36), 2.97 (23)

Chemistry		(1)	(2)
	Hg	81.2	81.67
	S	9.4	8.70
	Cl	9.4	9.62
	Total	100.0	99.99

(1) McDermitt mercury deposit, Humboldt County, Nevada, USA; SEM-EDS analysis; corresponds to $Hg_3S_{2.17}Cl_{1.97}$. (2) $Hg_3S_2Cl_2$.

Occurrence: Along fractures in hydrothermally altered, rhyolitic, tuffaceous lacustrine rocks in a caldera complex.

Association: Corderoite (α -Hg₃S₂Cl₂), cinnabar.

Distribution: From the McDermitt mercury deposit, ~10 km southwest of McDermitt, Humboldt County, Nevada, USA.

Name: Honors Dr. *Ken*neth Jinghwa *Hsu* (b. 1929), Professor Emeritus, Swiss Federal Institute of Technology (E.T.H.), Zurich, Switzerland, for his numerous contributions to the earth sciences.

Type Material: National Museum of Natural History (171405 and 171406), Washington, D.C., and the W.M. Keck Museum, Mackay School of Mines, University of Nevada, Reno, Nevada, USA.

References: (1) McCormack, J.K. and F.W. Dickson (1998) Kenhsuite, γ -Hg₃S₂Cl₂, A new mineral species from the McDermitt Mercury Deposit, Humbolt County, Nevada. Can. Mineral., 36, 201-206.