

Crystal Data: Monoclinic. *Point Group:* 2/m. As lath-shaped or platy crystals to 40 μm.

Physical Properties: *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* n.d. *Hardness:* = n.d.
D(meas.) = n.d. D(calc.) = 7.62

Optical Properties: n.d. *Color:* White in reflected light. *Streak:* n.d. *Luster:* n.d.
Optical Class: n.d.

Cell Data: Space Group: C2/c. $a = 11.57$ $b = 4.57$ $c = 5.06$ $\beta = 97.7^\circ$ $Z = 4$

X-ray Powder Pattern: Calculated pattern.

2.05 (100), 2.079 (68), 2.01 (36), 2.207 (31), 2.027 (27), 2.192 (26), 1.921 (26)

Chemistry:	(1)	(2)
Fe	87.01	92.08
Ni	4.37	
Co	0.82	
C	7.90	7.92
total	100.10	100.00

(1) Wedderburn iron meteorite; average of 6 electron microprobe analyses; corresponds to (Fe_{4.73}Ni_{0.23}Co_{0.04})_{Σ=5.00}C_{2.00}. (2) Fe₅C₂.

Occurrence: In a Ni-rich ataxite iron meteorite belonging to subgroup sLH of the IAB complex (Low-Au, High-Ni subgroup).

Association: Low-Ni iron (kamacite), taenite, nickelphosphide (Ni-dominant schreibersite), cohenite.

Distribution: In the Wedderburn iron meteorite.

Name: Honors Edward (Ed) R.D. Scott (b. 1947), a pioneering cosmochemist at the University of Hawai'i at Manoa, for his seminal contributions to research on meteorites.

Type Material: Meteorite Collection, Department of Earth, Planetary, and Space Sciences, University of California, Los Angeles, California, USA (Wedderburn polished thick section UCLA 143).

References: (1) Ma, C. and A.E. Rubin (2019) Edscottite, Fe₅C₂, a new iron carbide mineral from the Ni-rich Wedderburn IAB iron meteorite. *Amer. Mineral.*, 104(9), 1351-1355.