Crystal Data: Monoclinic. *Point Group*: 2/m. Acicular to fibrous, elongated on [001], to 0.5 mm and 2–3 μ m thick; often as spherulites (rarely to 1 mm). Typically as botryoidal crusts of spherulitic clusters and parallel- or radial-columnar aggregates, to 1 mm thick.

Physical Properties: *Cleavage*: Perfect, probably on $\{02\ 1\}$. *Fracture*: Uneven. *Tenacity*: Brittle. Hardness = 3.5-4 D(meas.) = n.d. D(calc.) = 3.60

Optical Properties: Transparent. *Color*: Pale-green, colorless; aggregates brownish-green. *Streak*: White. *Luster*: Vitreous.

Optical Class: Biaxial (–). $\alpha = 1.673(3)$ $\beta = 1.770(5)$ $\gamma = 1.780(5)$ 2V(meas.) = 10(5)°

Cell Data: Space Group: $P2_1/a$. a = 12.396(1) b = 9.407(1) c = 3.2152(3) $\beta = 97.78^{\circ}$ Z = 1

X-ray Powder Pattern: Dronino iron meteorite, Russia. 2.645 (100), 3.73 (80), 5.15 (60), 6.14 (40), 2.361 (40), 2.171 (40)

Chemistry:		(1)
	MgO	0.1
	FeO	68.8
	NiO	0.6
	CO_2	19.8
	H_2O	10.9
	Total	100.2

(1) Dronino iron meteorite, Russia; electron microprobe analysis, H_2O by modified Penfield method, CO_2 by selective sorption, corresponding to $(Fe^{2+}_{1.97}Ni_{0.02}Mg_{0.01})_{\Sigma=2.00}(CO_3)_{0.93}(OH)_{2.14}$. 0.18 H_2O .

Occurrence: In a terrestrially altered meteorite fragment.

Association: Kamacite, taenite, chromite, troilite, goethite, akaganeite, hematite, hibbingite, reevesite, honessite, undetermined Fe-Ni sulfides.

Distribution: In cavities in the Dronino ataxite iron meteorite, collected near Dronino, Kasimov district, Ryazan' Oblast, 350 km southeast of Moscow, Russia.

Name: Honors Nikita V. Chukanov (b. 1953), Russian physicist and mineralogist.

Type Material: A.E. Fersman Mineralogical Museum, Academy of Sciences, Moscow, Russia.

References: (1) Pekovi, I.V., N. Perchiazzi, S. Merlino, V.N. Kalachev, M. Merlini, and A.E. Zadov (2007) Chukanovite, $Fe_2(CO_3)(OH)_2$, a new mineral from the weathered iron meteorite Dronino. Eur. J. Mineral., 19, 891–898. (2) (2008) Amer. Mineral., 93, 1687 (abs. ref. 1).