**Crystal Data**: Monoclinic. *Point Group*: 2/m. As prismatic crystals or aggregates, to 10 mm., elongated on [001], flattened on {010} with forms {010}, {100}, {110}, {131}, {111}, and { $\frac{5}{3}$  11}.

**Physical Properties**: Cleavage: None. Fracture: Conchoidal. Tenacity: Brittle. Hardness = 5 D(meas.) = 4.18(2) D(calc.) = 4.182(1)

**Optical Properties**: Translucent (slightly metallic). *Color*: Brown or brown-black. *Streak*: Bright brown to yellow-gray. *Luster*: Adamantine. *Optical Class*: Biaxial (-).  $\alpha = 1.870(2)$   $\beta = 1.897(2)$   $\gamma = 1.900(2)$  2V(meas.) = 35(2)° 2V(calc.) = 36.5(3)° *Dispersion*: r < v, strong. *Orientation*:  $X \land a = 5^\circ$ , Y = b,  $Z \land c = 17^\circ$ . *Pleochroism*: Moderate; X = 0 orange brown, yellow; X = 0 grayish yellow, colorless.

**Cell Data**: Space Group: C2/c. a = 12.181(1) b = 12.807(1) c = 6.6391(5)  $\beta = 112.441(9)^{\circ}$  Z = 4

**X-ray Powder Pattern**: Erciyes volcanic complex, Kiranardi, Turkey. 2.780 (100), 3.202 (40), 2.611 (40), 3.575 (30), 6.400 (20), 5.630 (20), 3.766 (15)

## Chemistry:

	(1)
$Na_2O$	5.10
MgO	4.12
MnO	3.70
ZnO	0.30
$Fe_2O_3$	27.20
$As_2O_5$	56.94
$H_2O$	2.64
Total	100.00

(1) Erciyes volcanic complex, Kiranardi, Turkey; average of 5 electron microprobe analyses,  $H_2O$  by difference and confirmed by IR spectroscopy; corresponding to  $Na_{0.99}Fe^{3+}_{2.05}(Mg_{0.61}Mn_{0.32}Zn_{0.02})_{\Sigma=0.95}As_{2.99}O_{12} \bullet 0.88H_2O$ .

**Occurrence**: A hydrothermal mineral in fissures cutting porphyritic andesite in a stratovolcano.

Association: Cassiterite, hematite, magnetite, orpiment, realgar, tridymite.

**Distribution**: Erciyes stratovolcanic complex, 10 km south of the prefecture of Kayseri, near Hisarcik, Kiranardi, Turkey.

Name: Honors Dr. Evren Yazgan (b. 1943), a geologist who found the first specimens.

**Type Material**: Department of Mineralogy, Natural History Museum of Geneva, Switzerland, (478.188).

**References**: (1) Sarp, H. and R. Černý (2005) Yazganite, NaFe<sup>3+</sup><sub>2</sub>(Mg,Mn)(AsO<sub>4</sub>)<sub>3</sub>·H<sub>2</sub>O, a new mineral: its description and crystal structure. Eur. J. Mineral., 17, 367-373. (2) (2005) Amer. Mineral., 90, 1950 (abs. ref. 1).