Crystal Data: Hexagonal. *Point Group*: $\bar{3}$. As pseudo-hexagonal tabular crystals to 0.5 mm.

Physical Properties: *Cleavage*: Perfect on {0001}. *Tenacity*: Brittle. *Fracture*: Irregular. Hardness = 2-2.5 D(meas.) = n.d. D(calc.) = 2.432 Easily soluble in water.

Optical Properties: Transparent. *Color*: Yellowish to brownish. *Streak*: Yellowish. *Luster*: Vitreous.

Optical Class: Uniaxial (-). n(calc.) = 1.573 Pleochroism: Distinct, pale yellow to yellow.

Cell Data: Space Group: $R\bar{3}$. a = 9.7509(4) c = 53.525(2) Z = 3

X-ray Powder Pattern: Monte Arsiccio mine, Stazzema (LU), Apuan Alps, Tuscany, Italy. 8.3 (s), 2.884 (s), 6.6 (m), 4.22 (m), 3.777 (m), 3.299 (m), 3.189 (m), 8.8 (mw)

Chemistry:

	(1)	(2)
SO_3	47.31	44.14
Al_2O_3	0.66	
Fe_2O_3	[24.68]	24.47
FeO	[0.69]	
Na ₂ O	0.52	
K_2O	17.36	17.31
H_2O	[15.06]	14.08
Total	106.28	100.00

(1) Monte Arsiccio mine, Stazzema (LU), Apuan Alps, Tuscany, Italy; average electron microprobe and Raman spectroscopic analyses, Fe^{2+} : Fe^{3+} from Mössbauer spectroscopy, H_2O calculated from structure; corresponding to $(K_{7.50}Na_{0.34})_{\Sigma=7.84}(Fe^{3+}_{6.29}Al_{0.26}Fe^{2+}_{0.20})_{\Sigma=6.75}S_{12.02}O_{50} \cdot 17H_2O$. (2) $K_8(Fe^{3+}_{0.67}\square_{0.33})[Fe^{3+}_{3}O(SO_4)_6(H_2O)_3]_2(H_2O)_{11}$.

Occurrence: From the weathering of a pyrite + baryte + iron oxide (magnetite, hematite, "limonite") deposit.

Association: Giacovazzoite, krausite, gypsum, jarosite, alum-(K), magnanelliite.

Distribution: From the Monte Arsiccio mine, Stazzema (LU), Apuan Alps, Tuscany, Italy.

Name: Honors Fernando *Scordari* (b. 1944), retired Professor of Mineralogy, University of Bari, Italy, past president of the Società Italiana di Mineralogia e Petrologia and past vice-president of the European Mineralogical Union. His scientific contributions were to the crystal chemistry of minerals and inorganic compounds, with a particular focus on silicates and sulfates.

Type Material: Natural History Museum, University of Pisa, Italy (19893).

References: (1) Biagioni, C., L. Bindi, D. Mauro, and U. Hålenius (2019) Crystal chemistry of sulfates from the Apuan Alps (Tuscany, Italy). V. Scordariite, $K_8(Fe^{3+}_{0.67}\square_{0.33})[Fe^{3+}_{3}O(SO_4)_{6} (H_2O)_{3}]_2(H_2O)_{11}$: A new metavoltine-related mineral. Minerals, 9, 702, 1-13.