Crystal Data: Tetragonal. *Point Group*: 4/m 2/m 2/m. As needles to 1.5 mm elongated along [001], felted crystal masses or crusts, and dendritic.

Physical Properties: *Cleavage*: None. *Tenacity*: Brittle. *Fracture*: n.d. Hardness = n.d. D(meas.) = n.d. D(calc.) = 2.73 Nonfluorescent.

Optical Properties: Transparent. *Color*: Pale to olive-green. *Streak*: White to light green. *Luster*: Vitreous.

Optical Class: Uniaxial (-). $\omega = 1.705(5)$ $\varepsilon = 1.684(2)$. *Pleochroism*: Distinct, O = bluish green, E = yellowish green. *Dispersion*: Weak, r < v.

Cell Data: Space Group: P4/ncc. a = 12.835(1) c = 5.6213(6) Z = 4

X-Ray Diffraction Pattern: Nchwaning 3 Mine, Northern Cape Province, South Africa. 3.010 (100), 4.537 (95), 2.724 (75), 9.073 (35), 1.975 (35), 4.064 (20), 2.812 (20)

Chemistry:		(1)	(2)
	CaO	30.33	28.53
	Mn_2O_3	36.9	40.16
	CuO	1.99	
	MgO	0.7	
	SO_3	8.21	10.18
	F	4.86	4.83
	-O = F	2.05	2.03
	H_2O	[18.98]	18.33
	Total	99.92	100.00

(1) Nchwaning 3 Mine, Northern Cape Province, South Africa; average electron microprobe and Raman spectroscopic analyses, H₂O calculated from stoichiometry; corresponds to $Ca_{2.06}Mn^{3+}_{1.78}Cu_{0.10}Mg_{0.07}F_{0.97}(OH)_{8.02}(SO_4)_{0.39}$. (2) $Ca_2Mn^{3+}_2F(OH)_8 \cdot 0.5(SO_4)$.

Occurrence: Filling voids in hydrothermally altered manganese ore.

Association: Bixbyite, baryte, braunite, gypsum, chlorite, sturmanite, ettringite.

Distribution: From the Nchwaning 3 Mine (NW section, upper part of the ore body), Kalahari Manganese Field, Northern Cape Province, Republic of South Africa.

Name: Honors Guido *Sacco* (1900-1994) and his son Desmond *Sacco* (b. 1942) who played a pivotal role in the exploration and development of mining in the Postmasburg and Kalahari Manganese Field of the Northern Cape Province, Republic of South Africa, including the type locality of this new species.

Type Material: Natural History Museum, Vienna, Austria (O1784).

References: (1) Giester, G., C.L. Lengauer, N.C. Chanmuang, D. Topa, J. Gutzmer, and K. Von Bezing (2022) Saccoite, $Ca_2Mn^{3+}_2F(OH)_8 \cdot 0.5(SO_4)$, a new, microporous mineral from the Kalahari Manganese Field, South Africa. Mineral. Mag., 86(5), 814-820.