Crystal Data: Orthorhombic. *Point Group: mm2*. As isolated aggregates of grains to 0.5 mm.

Physical Properties: Cleavage: Good on $\{010\}$. Fracture: n.d. Tenacity: Brittle. Hardness = 5.5 D(meas.) = 3.41(3) D(calc.) = 3.410

Optical Properties: Transparent. *Color*: Light blue to blue. *Streak*: White. *Luster*: Vitreous. *Optical Class*: Biaxial (-). $\alpha = 1.610 \ \beta = 1.623 \ \gamma = 1.630 \ 2V(meas.) = 70(1)^{\circ} \ 2V(calc.) = 72^{\circ}$ *Pleochroism*: Strong, X = violet, Y = blue-violet, Z = blue. *Orientation*: X = a, Y = b, Z = c. *Dispersion*: Strong, r > v.

Cell Data: Space Group: $P2_1nb$. a = 7.9380(2) b = 10.4923(3) c = 18.2560(6) Z = 4

X-ray Powder Pattern: Wessels mine, Northern Cape Province, South Africa. 2.990 (100), 2.800 (84), 3.166 (42), 2.057 (27), 2.623 (26), 3.550 (25), 1.778 (25)

Chemistry:		(1)
-	SiO_2	46.16
	CaO	0.21
	MgO	3.21
	MnO	2.53
	FeO	0.10
	Na_2O	7.75
	SrO	38.39
	BaO	0.52
	CoO	0.69
	<u>PbO</u>	0.56
	Total	100.12

(1) Wessels mine, Northern Cape Province, South Africa; average of 9 electron microprobe analyses supplemented by Raman spectroscopy; corresponds to $Na_{1.96}(Sr_{2.91}Ba_{0.03}Ca_{0.03}Pb_{0.02})_{\Sigma=2.99}$ ($Mg_{0.62}Mn_{0.28}Co_{0.07}Fe_{0.01})_{\Sigma=0.98}Si_{6.03}O_{17}$.

Occurrence: Probably a result of a hydrothermal event during metamorphism under conditions of 270-420 °C at 0.2-1.0 kb.

Association: Sugilite, aegirine, pectolite.

Distribution: From the Wessels mine, Kalahari Manganese Fields, Northern Cape Province, South Africa.

Name: Honors Dr. Eugene Stuart *Meieran* (b. 1937), a member of the U.S. National Academy of Engineering, an avid mineral collector, who donated several important specimens to major museums, for his work in mineral preservation and education.

Type Material: University of Arizona Mineral Museum (20011) and the RRUFF Project (R140947), Tucson, Arizona, USA.

References: (1) Yang, H., X. Gu, R.T. Downs, S.H. Evans, J.J. Van Nieuwenhuizen, R.M. Lavinsky, and X. Xie (2019) Meieranite, Na₂Sr₃MgSi₆O₁₇, a new mineral from the Wessels mine, Kalahari Manganese Fields, South Africa. Can. Mineral., 57(4), 457-466. (2) (2020) Amer. Mineral., 105, 1922-1923 (abs. ref. 1).