Campostriniite $(Bi^{3+},Na)_3(NH_4,K)_2Na_2(SO_4)_6\cdot H_2O$

Crystal Data: Monoclinic. *Point Group*: 2/*m*. As terminated prismatic crystals, to 0.2 mm.

Physical Properties: *Cleavage*: None. *Fracture*: n.d. *Tenacity*: n.d. Hardness = n.d. D(meas.) = n.d. D(calc.) = 3.87

Optical Properties: Transparent. *Color*: White. *Streak*: White. *Luster*: Vitreous. *Optical Class*: Biaxial. *n*(calc.) = 1.680

Cell Data: *Space Group*: *C*2/*c*. a = 17.748(3) b = 6.982(1) c = 18.221(3) β = 113.97(1)° Z = 4

X-ray Powder Pattern: La Fossa Crater, Vulcano, Aeolian Islands, Italy.
6.396 (100), 7.507 (75), 2.766 (60), 3.380 (57), 5.677 (55), 3.166 (50), 4.410 (47)

Chemistry:	(1)
Bi_2O_3	46.65
SO_3	40.33
Na_2O	6.21
K_2O	1.88
$(NH_4)_2O$	[3.28]
H_2O	[1.50]
Total	99.85

(1) La Fossa Crater, Vulcano, Aeolian Islands, Italy; average of 18 electron microprobe analyses supplemented by FTIR spectrometry, H_2O and $(NH_4)_2O$ calculated from stoichiometry; corresponding to $Bi_{2.41}N_{1.52}Na_{2.41}K_{0.48}S_{6.07}H_{8.08}O_{25}$.

Occurrence: A sublimate on pyroclastic breccia at a volcanic fumarole.

Association: Adranosite, demicheleite-(Br), demicheleite-(I), argesite, sassolite.

Distribution: From La Fossa Crater, Vulcano, Aeolian Islands, Italy.

Name: Honors Italo Campostrini (b. 1959), a mineralogist active in the study of volcanic sublimates.

Type Material: Department of Chemistry, University of Milan, Italy (2013-03).

References: (1) Demartin, F., C. Castellano, and C.M. Gramaccioli (2015) Campostriniite, $(Bi^{3+},Na)_3(NH_4,K)_2Na_2(SO_4)_6\cdot H_2O$, a new sulfate isostructural with görgeyite, from La Fossa Crater, Vulcano, Aeolian Islands, Italy. Mineral. Mag., 79(4), 1007-1018. (2) (2016) Amer. Mineral., 101, 1241-1242 (abs. ref. 1).