Crystal Data: Monoclinic. *Point Group*: 2/*m*. Crystals, prismatic, to 0.1 mm, forms {011} and {*hol*} observed; typically as rosettes, to 0.8 mm.

Physical Properties: Cleavage: Good on $\{010\}$; fair on $\{001\}$. Fracture: Hackly. Tenacity: Brittle. Hardness = ~ 3 D(meas.) = 2.93(2) D(calc.) = 2.94

Optical Properties: Transparent. *Color*: Purplish pink with a brown tint. *Streak*: Colorless to pale pink. *Luster*: Vitreous to adamantine. *Optical Class*: Biaxial (+). $\alpha = 1.596(2)$ $\beta = 1.604(2)$ $\gamma = 1.628(2)$ 2V(meas.) = $70(2)^{\circ}$ 2V(calc.) = 61° *Orientation*: X = b; $Y \land c = 29^{\circ}$ (in β obtuse); $Z \land a = 20^{\circ}$ (in β acute).

Cell Data: *Space Group*: $P2_1/n$. a = 4.7058(12) b = 9.299(3) c = 12.738(4) $\beta = 98.933(8)^{\circ}$ Z = 2

X-ray Powder Pattern: Keeley mine, Timiskaming District, Ontario, Canada. 7.446 (100), 6.267 (44), 2.998 (31), 3.725 (29), 3.260 (25), 2.596 (23), 2.970 (21)

Chemistry:		(1)
	As_2O_5	47.91
	P_2O_5	0.03
	CoO	27.31
	NiO	3.52
	ZnO	0.04
	CaO	0.18
	SO_3	0.13
	$\underline{\text{H}_2\text{O}}$	22.65
	Total	101.77

(1) Keeley mine, South Lorraine Township, Timiskaming District, Ontario, Canada; average of 8 electron microprobe analyses, H_2O by difference, structure analysis and IR confirm OH and H_2O , corresponding to $(Co_{1.75}Ni_{0.23}Ca_{0.02})_{\Sigma=2.00}(AsO_3OH)_{\Sigma=2.00}(H_2O)_5$.

Occurrence: A secondary mineral along fractures in the weathering zone of a polymetallic sulfarsenate deposit.

Association: Skutterudite, cobaltite, bismuth, arsenolite, bismuthoferrite, erythrite.

Distribution: Keeley mine, South Lorraine Township, Timiskaming District, Ontario, Canada.

Name: For David Burgess (b. 1951), of Newington, Connecticut, USA, who brought the sample to the authors' attention.

Type Material: Canadian Museum of Nature, Ottawa, Ontario (CNMMC 86051).

References: (1) Sejkora, J., F.C. Hawthorne, M.A. Cooper, J.D. Grice, J. Vadak, and J.L. Jambor (2009) Burgessite, $Co_2(H_2O)_4[AsO_3(OH)]_2(H_2O)$, a new arsenate mineral species from the Keeley mine, South Lorrain Township, Ontario, Canada. Can. Mineral., 47, 159–164. (2) Cooper, M.A. and F.C. Hawthorne (2009) The crystal structure of burgessite, $Co_2(H_2O)_4[AsO_3(OH)]_2(H_2O)$, and its relation to erythrite. Can. Mineral., 47, 165–172. (3) (2009) Amer. Mineral., 94, 1495-1496 (abs. refs. 1 and 2).