Crystal Data: Isometric. *Point Group:* 4/*m* $\bar{3}$ 2/*m*. As powdery coatings.

Physical Properties: *Cleavage:* n.d. *Fracture:* n.d. *Tenacity:* n.d. Hardness = n.d.
D(meas.) = n.d. D(calc.) = 6.5
Non-fluorescent in SW UV and LW UV.

Optical Properties: Translucent. *Color:* Yellow. *Streak:* n.d. *Luster:* [Earthy].
Optical Class: n.d.; probably isotropic. n(calc) ≈ 1.9

Cell Data: Space Group: *Fm3m*. a = 5.6282(5) *Z* = 4

X-ray Powder Pattern: Bastnäs deposit, Sweden.
3.25 (100), 1.991 (61), 1.6969 (46), 2.815 (31), 1.292 (15), 1.1486 (12), 1.6246 (9)

Chemistry:

	(1)
La_2O_3	39.29
Ce_2O_3	39.00
Pr_2O_3	4.06
Nd_2O_3	7.60
Sm_2O_3	0.28
Gd_2O_3	0.27
Y_2O_3	0.08
SiO_2	0.38
CaO	0.02
F	11.70
-O = F	4.93
Total	97.75

(1) Bastnäs deposit, Sweden; electron microprobe and EDS analyses, IR spectroscopy confirms absence of OH^- and CO_3^{2-}; corresponding to $(La_{0.431}Ce_{0.425}Nd_{0.082}Pr_{0.044}Si_{0.011}Sm_{0.003}Gd_{0.003}Y_{0.001}Ca_{0.001})_{\Sigma=1.001}F_{1.10}O_{0.95}$.

Occurrence: Formed by alteration of primary bastnäsite-(La), most likely by a decarbonation reaction.

Association: Ferriallanite-(Ce), bastnåsite-(La), quartz.

Distribution: At the Bastnäs deposit, Skinnskatteberg District, Västmanland County, Sweden.

Name: Honors Professor Ulf Hålenius (b.1951), head of the Department of Mineralogy, Swedish Museum of Natural History, for his contributions to mineral sciences.

Type Material: Swedish Museum of Natural History, Stockholm, Sweden; (no. 20030025).

References: (1) Holstam, D., J., Grins, and P.Nysten (2004) Håleniusite-(La) from the Bastnäs deposit, Västmanland, Sweden: A new REE oxy-fluoride mineral species. Can. Mineral. 42(4), 1097-1103. (2) (2005) Amer. Mineral., 90, 769 (abs. ref. 1).