

A  
SYSTEM  
OF  
MINERALOGY.

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DESCRIPTIVE MINERALOGY,

COMPRISING THE  
MOST RECENT DISCOVERIES.

BY

JAMES DWIGHT DANA,

SILLIMAN PROFESSOR OF GEOLOGY AND MINERALOGY IN YALE COLLEGE. AUTHOR OF A MANUAL OF GEOLOGY; OF  
REPORTS OF WILKES'S U. S. EXPLORING EXPEDITION ON GEOLOGY; ON ZOOPHYTES; AND ON  
CRUSTACEA, ETC.

AIDED BY

GEORGE JARVIS BRUSH,

PROFESSOR OF MINERALOGY AND METALLURGY IN THE SHEFFIELD SCIENTIFIC SCHOOL OF YALE COLLEGE.

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*"Hæc studia nobiscum peregrinantur....rusticantur."*

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FIFTH EDITION.

REWRITTEN AND ENLARGED, AND ILLUSTRATED WITH UPWARDS OF SIX HUNDRED WOODCUTS.

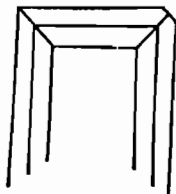
NEW YORK:  
JOHN WILEY & SON, PUBLISHERS,  
NO. 2 CLINTON PLACE.

1868.

C

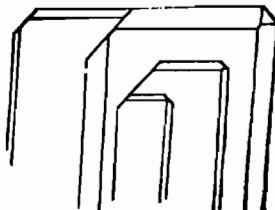
H.=2.5-3. G.=2.666, (?) Blake; 2.605, Genth. Lustre pearly or dull. Color grayish-white, delicate pink, or yellowish.

609



Saucon Valley, Pa.

610



Saucon Valley, Pa.

Comp.—La  $\bar{C} + 3 \bar{H}$  = Lanthana 52.6, carbonic acid 21.3, water 26.1 = 100. Analyses: 1, 2, J. L. Smith (Am. J. Sci., II. xvi. 230, xviii. 378); 3, F. A. Genth (ib., xxiii. 425):

	C	La	H
1. Saucon valley	22.58	54.90	24.09 Smith.
2. " "	21.95	55.08	24.21 Smith.
3. " "	21.08	54.95	[23.97] Genth.

There is some oxyd of didymium with the lanthana, according to Smith.

Blake obtained La 54.27, 54.98, 54.64, C 19.13, C+H (by ign.) 45.07, 45.36.

Hisinger found in a Swedish specimen, probably impure, La 75.7, C 10.8, H 13.5, whence the formula La<sup>2</sup>C+3H.

**Pyr., etc.**—In the closed tube yields water. B.B. infusible; but whitens and becomes opaque, silvery, and brownish; with borax, a glass, slightly bluish, reddish, or amethystine, on cooling; with salt of phosphorus a glass, bluish amethystine while hot, red cold, the bead becoming opaque when but slightly heated, and retaining a pink color. Effervesces in the acids.

**Obs.**—Found coating cerite at Bastnäs, Sweden; also in Silurian limestone with the zinc ores of the Saucon valley, Lehigh Co., Pa., in masses consisting of aggregated minute tables; at the Sandford iron-ore bed, Moriah, Essex Co., N. Y., in delicate scales, and a thin scaly crust, in fissures in the ore, and on crystals of allanite. Reported by Shepard as occurring at the Canton mine, Ga., in pink-colored crystals, lining cavities of botryoidal white pyrite.

On cryst., W. P. Blake, Am. J. Sci., II. xvi. 228, 1853, and this Min., 1854, with the above figs.; v. Lang, Phil. Mag., IV. xxv. 43, 1868; both on Pennsylvania crystals.

**746. TENERITE.** Kolsyrad Ytterjord A. F. Svanberg and C. Tenger, Arsb., xviii. 206, 1838. Ytterspath Germ. Tengerite Dana.

Pulverulent. In thin coatings. Sometimes an appearance of radiated crystallization.

Lustre dull, or like that of chalk. Color white.

**Comp.**—A carbonate of yttria, according to Svanberg and Tenger, but no analysis has been published.

**Pyr., etc.**—In the closed tube yields a considerable amount of water (Erush). Effervesces with acids.

**Obs.**—Occurs as a thin coating on gadolinite at Ytterby, and is evidently a result of its alteration.

**747. ZARATITE.** Hydrate of Nickel (fr. Texas, Pa.) Silliman, Jr., Am. J. Sci., II. iii. 407, 1847; Emerald Nickel *id.*, ib., vi. 248, 1848. Nickel Smaragd Germ.; Texasit Kennig., Min., 1853. Carbonato hidratado de Niquel (fr. Spain) A. Casares, A. M. Alcibar in Min. Revista of Madrid, 304, 1850; Zaratita Casares, ib., 176, March, 1851. Zamtit wrong orthogr.

Incrusting; often small stalactitic or minute mammillary; sometimes appearing prismatic with rounded summits. Also massive, compact.