

These properties are so close to those given for pigeonite by Larsen⁵ that without a chemical analysis it seems reasonably certain that this white augite is pigeonite.

The augite has a slate brown color in thick grains and higher refractive indices than the pigeonite, alpha being about 1.701, beta 1.707 and gamma, 1.726. The optic angle is about 60 degrees.

The approximate proportions of the minerals in the diabase at the Lane quarry are as follows:

	Per cent
Labradorite	45
Augite	40
Pigeonite	10
Accessories	5

The occurrence of pigeonite in the diabase at the Lane quarry adds one more interesting mineral to those found there by Shannon.⁶

PROCEEDINGS OF SOCIETIES

PHILADELPHIA MINERALOGICAL SOCIETY

Academy of Natural Sciences of Philadelphia, Sept. 2, 1920.

A stated meeting of the Philadelphia Mineralogical Society was held on the above date, Mr. Millson presiding in the absence of the president and vice-president. Nineteen members and four visitors were present. Nominations for officers for the coming year were presented.

Reports on summer trips constituted the program of the evening. Mr. Biernbaum described a trip to New England, in company with Messrs. Radu and Hoadley. The localities visited included Auburn and Paris, Maine; Grafton and Acworth, N. H.; Portland, Middletown, Danbury, and Meriden, Conn.; and Paterson, N. J. Specimens of the following minerals obtained were exhibited: topaz, apatite, cassiterite, tourmaline, beryl, lepidolite, columbite, and prehnite. Mr. Hoadley spoke of his trip to Montreal and vicinity. Mr. Rosenbaum reported on visits to Paterson, and Cornwall, Pa.

Mr. Trudell then gave an account of a trip to the South Mountain district in Adams County, accompanied by Messrs. Cajori and Gordon. Piedmontite was collected in the metarhyolite near Gladhill, and native copper with cuprite was obtained in veins in the metabasalts.

SAMUEL G. GORDON, *Secretary pro tem.*

⁵ Larsen, E. S.: The microscopic determination of the non-opaque minerals. *U. S. Geol. Survey Bull.* 679, p. 225 (1921).

⁶ Shannon, E. V.: Famous mineral localities. The datolite locality near Westfield, Mass. *Am. Mineral.*, 4, 4-5 (1919).

Stilpnomelane and chalcodite at the trap quarries of Westfield, Mass. *Proc. U. S. Nat. Museum*, 57, 397-403 (1920).