

suggested. Goniometric and optical examination of the minute crystals shows them to be triclinic, but much complicated by polysynthetic twinning. The mineral is related to afwillite, with the addition of $\text{Ca}(\text{OH})_2$ and CaF_2 , and the nearest ally is custerite [$\text{CaO} \cdot \text{Ca}(\text{OH}, \text{F})_2 \cdot \text{SiO}_2$].

Dr. Henry S. Washington has been elected an honorary member.

CORRESPONDENCE.

BRIMSTONE HILL, ST. KITTS.

SIR,—Dr. Earle's criticism of our paper on Brimstone Hill does not seem to advance knowledge very far. He might have given us further information regarding the relation of the Godwin Gut limestone to the rest of the volcanic rocks of the island, whether it is in place or has been uplifted. I looked up his list of the mollusca of the raised coral beds on the western side of Dominica and found, as I expected, a number of recent species recorded.

I have more than a suspicion that the western sides of some of these islands have been raised and the eastern side lowered, and this may account for the fossiliferous beds being chiefly on the leeward side. The outline of Dominica is more jagged on the eastern and straighter on the western side, and Curaçao and Barbados have undergone tilting or differential uplift.

I saw no volcanic rocks on St. Kitts which I should care to refer so far back as the early Tertiary, and I attributed the Brimstone Hill mollusc fauna to the Pliocene because it differs appreciably from the living fauna. I left the corals alone, being unable to give any useful opinion on them, but they are in the British Museum (Natural History), where they can be investigated.

Before visiting St. Kitts I was greatly puzzled by the descriptions of Brimstone Hill, as to how a mass of "recent" coral rock could be isolated and uplifted among the volcanic beds, but it did not take me very long to see that the sedimentaries had been dragged up by an extruded plug-like mass of sticky lava and that they were not merely a bit of beach uplifted by a hill of tuff or lava of the Monte Nuovo type. From what depth the sedimentaries have been carried up no one knows, and my suggestion that they may have underlain the main volcano of the island was prompted by analogies with Etna, etc., but remains merely a suggestion.

C. T. TRECHMANN.

CASTLE EDEN,
Co. DURHAM.
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