III. Supplementary Note to Professor Des Cloizeaux's Memoir on Humite (Phil. Mag. [V.] vol. ii.). By Professor A. DES CLOIZEAUX*.

Since the communication of this memoir to the Crystallological Society, I have resumed the examination of the optical character of a certain number of crystals of the three types of Vesuvian humite which I received from Professor The results obtained are similar to those which I have already published; but the crystals of type II. are especially remarkable for the great number of bands twinned round the normal to the base, to which the bands are parallel. consequence of this twinning, a face a^1 , for example, is formed very frequently by a portion of a^1 occupying its proper position, and by a portion of $o^{\frac{1}{2}}$ belonging to a twin band. The same coincidence occurs with the corresponding faces $a^{\frac{2}{3}}$ and $o^{\frac{1}{6}}$, $a^{\frac{1}{2}}$ and h^1 , b^1 , and $d^{\frac{3}{4}}$, &c. Now, no reentering angle being observed on these compound faces, their incidences on the base should be equal. It is precisely what one remarks in the calculated angles contained in the supplementary column, page 8, and which have been obtained by substituting for two of the elemental angles, which I have borrowed from Scacchi, the following:-

*
$$pd^{\frac{1}{2}} = 125^{\circ} 50'$$
 , , 125° 52' ,

b:a:c::419058:907949:696666.

^{*} $p h^1 = 109^{\circ} 1'$ (vom Rath) instead of 108° 58′ (Scacchi).

^{*} Read April 12, 1877.