XXXI. On haydenite and couzeranite

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able to show, in each case, that my original views have been supported by a careful *re-examination* of the facts.

Dublin, January 17, 1840.

XXXI. On *Haydenite* and *Couzeranite*. By H. J. BROOKE, Esq., F.R.S.*

IN the last Number of the Phil. Mag. p. 156, I observed a notice of a new mineral (Beaumontite) which M. Levy has found accompanying Haydenite, a mineral that is said to occur near Baltimore in the United States; and M. Levy remarks that I have classed Haydenite with Heulandite without assigning any reason for so doing.

I did so from perceiving that the small and brilliant yellowish crystals on the specimen I examined resembled Heulandite, in having a nacreous plane in only one direction, corresponding with the P of W. Phillips (Mineralogy, p. 39. Ed. 1823); in the form, as far as I could distinguish it in the minute and closely aggregated condition of the crystals; and in the near agreement, about 112° , of the angle between the nacreous plane and a plane appearing to correspond with the *a* of W. Phillips.

M. Levy is doubtless aware of a variety of Heulandite found at Arendal, of a brown or yellowish brown colour, in small bright crystals, and accompanied by stilbite in globularly-radiated concretions of a dull yellowish colour. The specimen sent to me from America as Haydenite has a similar accompaniment of stilbite of the same description, and this circumstance tended to confirm my impression that Haydenite was Heulandite. It is probable, therefore, that the specimen sent to me from America as Haydenite, is really not that mineral, and I do not find anything like M. Levy's Beaumontite upon it, except that the crystals are "small and brilliant, and of a pearly lustre." Mr. L. does not say on what faces this lustre appears in Beaumontite.

I find I have been formerly led into an error relative to Couzeranite by specimens received from Paris, by Mr. Heuland, from Mr. Pentland. On examining the crystals I found them to be felspar, and I accordingly stated, on the faith of the specimens so transmitted to Mr. Heuland being genuine, that Couzeranite was only felspar. I have since seen other specimens named Couzeranite in apparently square prisms, and if these are the true mineral it has no resemblance whatever to felspar.

H. J. B.

* Communicated by the Author.