

Johns Hopkins University.

Baltimore, Dec 31 1882

My dear Harrington:

Many thanks for the Christmas card, which is by far the most amusing one that I have yet seen. The drawing is capital and the sentiment is marvelously well expressed.

I received a welcome letter from Casprial a few weeks since in response to some questions of mine concerning magnetic tracings. It is the meeting of each old

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friends as yourself and the
making of such friends as
Carpmael which gives a
value to the Amer. Association.

I think it extremely improbable
that I shall soon have
another experience so pleasant
as that of last summer.

I remember asking you
if you had ever made arti-
ficial twin crystals of Calcite,
to which you replied, if I am
not mistaken, in the negative.

The experiment is an easy
one and of astonishing interest;
but before I tell you how to
make them, I wish to tell

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the edge ab, the block, even if very large, will split beautifully. This fact seems to be known to very few, whence I thought it worth writing. It is singular that it is ~~of~~ impossible to cleave the crystal by acting on an ~~and~~ obtuse edge—in that case you get twinning. I enclose a little bit so treated for you to examine, but the proper thing is to make them for yourself. The thing is a perfect marvel to me.

Please present my regards to Miss Dawson, and to other friends whom you may meet.

Very sincerely your friend
Charles S. Hastings