

of new *data* bearing on the matter, he will possibly render some service to English geologists; but off-hand enunciations of simple opinion have no special value because they come from Russia.

Mr. Schmidt obviously can tell us no more about Kunth's specimen than what we have seen, and what he has seen, in Kunth's paper.¹

It is interesting to read that Mr. Schmidt thinks he has found bone-lacunæ in *Pteraspis*; but it is desirable to caution the readers of the *GEOL. MAG.* as to accepting the supposed fact. There have been so many blunders on the Continent with regard to *Pteraspis*, that it will not be wise to attach any importance to the statement until we have evidence that the shield examined was really that of *Pteraspis*. It is not at all improbable that it was, but it is also not improbable that it was something else.

E. RAY LANKESTER.

EXETER COLLEGE, OXFORD,
Sept. 1st, 1873.

MR. WARD ON THE GLACIATION OF THE LAKE DISTRICT.

SIR,—On reading Mr. J. Clifton Ward's paper on the above subject, in the last number of the *Quarterly Journ. of the Geol. Society*, I find that he has been led by an independent series of observations to corroborate several statements and opinions I have from time to time advanced in the pages of the *GEOLOGICAL MAGAZINE*. But as Mr. Ward does not refer to what others have done before him in the Lake District, would you allow me to direct the attention of those of your readers who are interested in the subject to Vol. VII., August, October, and December, 1870; Vol. VIII., February, June, and July, 1871; and Vol. IX., September, 1872. In one or other of these seven articles several phenomena noticed by Mr. Ward have been described; the results of observations on the dispersion of syenite erratics from the Buttermere and Ennerdale centres, stated; the distinction between mounds of Boulder-clay, sand, gravel, and glacial moraines, discussed; the almost entire limitation of true moraines to the upper valleys, advocated (contrary to prevailing ideas); the transportation of erratics by floating-ice in various directions, and often irrespectively of the drainage, insisted on, etc. In making these remarks my object is very far from undervaluing the great mass of entirely new information contained in Mr. Ward's paper.

D. MACKINTOSH.

¹ Magister Schmidt had forwarded an earlier communication than that referred to above, which appeared in the April Number of the *GEOL. MAG.* (p. 152), in which is also contained a refutation of Dr. Kunth's views by Mr. Lankester (p. 190). Doubtless M. Schmidt has good grounds for the opinions he has expressed concerning the assumed relationship to each other of *Pteraspis* and *Scaphaspis*—as the dorsal and ventral shields of the same individual—and we shall be glad to receive a further account of his researches on this important subject.—*EDIT. GEOL. MAG.*