

last in form, which played upon strong, flattened, bony plates that covered the roof of the mouth. These, like *Diplognathus*, are from the Huron Shale of Ohio.

5. *Ctenodus Wagneri*, Newb., of which a remarkably large and finely preserved palate tooth was exhibited, discovered by Mr. Frank Wagner in the Cleveland Shale, near the base of the Carboniferous system at Cleveland, Ohio.

6. Spines of two species of *Edestus*, Leidy, from the Coal Measures of Indiana and Illinois, which show distinctly the structure and mode of growth of these remarkable defensive weapons. They are from 10 to 18 inches in length, very massive and strong, and consist of a series of sheathing segments, finely soldered together, each carrying a triangular, crenulated and enamelled denticle from one to two inches in length.

The spines are symmetrical, and were therefore located on the median line like the spines of *Trygon*, and were probably the defences of large sharks or rays which inhabited the inland waters of the Continent in the Carboniferous age.

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## CORRESPONDENCE.

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### THE SECTION AT HOPE'S NOSE.

SIR,—In the last number of the GEOLOGICAL MAGAZINE (p. 398), the Rev. O. Fisher gives a good diagrammatic section at Hope's Nose near Torquay, which he and also Mr. Pengelly interpret as showing an unconformity. I examined this section in 1875, and believe that the apparent unconformity is due to a fault whose hade is inclined inwards from the face of the quarry; this explanation was given in a former Number of the MAGAZINE (Decade II. Vol. IV. p. 453). Besides being a simpler reading of the section than that furnished by Mr. Pengelly, it accords with his statement of "the specific identity of the numerous fossils in the two series" of rocks; and, may I add that, if I remember rightly, Mr. J. E. Lee informed me soon after I had seen the section, that he had arrived at a similar conclusion respecting it. It is perhaps needless to remark that this interpretation in no ways affects the interesting observations on cleavage made by Mr. Fisher.

HORACE B. WOODWARD.

HIGHBURY, 13th Sept. 1884.

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### REPORT UPON THE NATIONAL GEOLOGICAL SURVEYS OF EUROPE.

SIR,—I should be obliged if you would allow me to state that the "Report" printed in the last Number of the GEOLOGICAL MAGAZINE is from a "proof under correction." Some corrections are needed in this, which will be given, with some additions, in the British Association Report for 1884.

W. TOPLEY.

GEOLOGICAL SURVEY OFFICE, JERMYN STREET, S.W.,  
Oct. 11, 1884.

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