CORRESPONDENCE.

THE MAGMATIC ORIGIN OF ORES.

SIR,—The interesting letter of Mr. H. C. Sargent published in our last issue creates a somewhat anomalous situation, because the author of the paper referred to in it is also the editor of this Magazine, and it seems rather irregular for the editor in his private capacity to write a letter to himself in his editorial capacity. But our readers will perhaps excuse this unusual proceeding.

It may be well to confess that the suggestion of a granite bathylith underlying the mineralized area of Derbyshire was put forward mainly in default of a better explanation. The presence of great quantities of fluorspar must be accounted for somehow, and according to the accepted canons of geology fluorine is associated with acid intrusions, whereas the only known igneous rocks of that area are decidedly basic. However, the facts disclosed by the data supplied in Mr. Sargent's letter do seem to afford a possible explanation of the presence of fluorspar in that area as the result of the differentiation of a magma rich in potash and silica, with granitic affinities, though far from being a granite magma in the ordinary sense. It is of course obvious that a lava-flow cannot account *directly* for the formation of minerals higher up in the rock-series, which are necessarily of much later date than the lava. It should be remembered that fluorspar is also found in quantity in the northern part of the Pennine area, where the only igneous rock that could be concerned in its formation is the Whin Sill. The publication of Mr. Sargent's detailed work will be awaited with interest : till this occurs further speculation on the subject may well be deferred.

R. H. RASTALL.

THE SILURO-DEVONIAN JUNCTION IN ENGLAND.

SIR,—No apology is needed from Dr. Robertson for reopening this controversy; on the contrary, his paper in the August number of the GEOLOGICAL MAGAZINE is a welcome indication of the progress towards general agreement. Reviewing the subject from still another angle, he has expressed agreement with the main conclusion put forward by de Dorlodot, Barrois, myself, and others, that the Ludlow Bone-bed or the equivalent horizon elsewhere is the most generally satisfactory base for the Devonian. Dr. Robertson mentions that he does not accept certain statements in my 1923 paper in this MAGAZINE, and that he disagrees with certain of the reasons given for the selection of the Ludlow Bone-bed as the Devonian base. I think there are only two points of apparent disagreement. I showed that the Ludlow Bone-bed passes laterally when traced southwards