

THE DENUDATION CONTROVERSY.

To the Editor of the GEOLOGICAL MAGAZINE.

SIR,—Believing that an amicably-conducted controversy creates a desire to re-examine old, and pursue new lines of investigation, I am glad that my articles on "Denudation" have excited interest among eminent men of science.¹ I should be grateful to Mr. Aveline if, to his avowal of opinion, expressed in your last number, he would add his *reasons* for supposing that the Longmynd valleys have been excavated by streams. I have just read Professor Jukes' testimony to marine denudation in his "Student's Manual of Geology," published in the same year (1862) in which his paper on the River-Valleys of the South of Ireland was read before the Geological Society. The following is a brief extract:—"The passes leading across the crests of great mountain-chains could have been produced by no other cause than by the eroding action of tides and currents, as the mountains rose through the sea. . . . Isolated crags and precipices, or long lines of cliff, and of steep slopes, looking down upon broad plains, must have in like manner been formed by the sweeping power of the sea. Broad open valleys attest a similar origin, and speaking generally, the principal features in the form of the ground in all lands have been produced by this wide-spread action. . . . The results of this erosive action are exhibited to us often in the most striking manner in the gorges and ravines of mountain slopes" (page 101). The great reason why Professor Jukes so suddenly modified the above declaration of belief, would appear to have been the "revelation" that, during the *denudation*, our lands have not been a sufficiently long time submerged to enable the sea to accomplish it. I hope soon to be able to prove that the drift deposits of Siluria furnish undeniable indications of long, if not repeated, submergences, during comparatively recent periods.

Yours truly,

D. MACKINTOSH.

DISCOVERY OF FLINT IMPLEMENTS IN KENT.

To the Editor of the GEOLOGICAL MAGAZINE.

DEAR SIR,—It may be of interest to record the fact, that a number of flint implements have been found by Mr. J. Brent, jun., of Canterbury, between the Old Haven Gap and Reculvers. These implements, seventeen in number, are mostly of large size, of the Amiens type, very perfect. They were found strewn on the beach. One is a very interesting specimen, being extremely flat and sharp, of the figure represented in Sir Charles Lyell's "Antiquity of Man," page 114, fig. 8, and about the same size. It is remarkably weathered, and of an opaque white colour. The other specimens showed little or no

¹ In the last number at page 281, line 21, read *are the result* instead of "are not the result."