

## SOLREES.

SECOND.—On Thursday, the 5th January, Mr. Amos Bowman, of the Geological Survey Staff, explained the significance of the clays, sands and gravels of this district, and drew especial attention to their mode of occurrence at the localities visited by the Club Excursions. By means of a longitudinal section of the valley of the St. Lawrence, including the Great Lakes, and a map marked with blue outlines, he showed the widest expansion, and greatest elevation which the waters of this great basin attained in the Pleistocene period. Diagrams were also drawn on the blackboard showing the relations of the clays and sands to the gravel deposits formed by the rivers when these ran at corresponding elevations. The level of the Welch terrace, on the side of the mountain, near Chelsea, was shown by the section to over-top the hills of Ontario, and to intersect the grade of the St. Lawrence at Sault Ste. Marie. The paper, which was highly appreciated by all present, will be found in the present number.

Mr. H. B. Small said that he had listened with very much pleasure to the lecture, which had presented to the members in a very clear manner the very important subject treated of. It seemed to him especially a proof of the great value of the Club outings, as a means of elucidating such lectures, for if the localities referred to by Mr. Bowman had not been visited by the members, it would have been impossible for them to have so fully realized the character and extent of the deposits in question. Mr. Stewart stated that he had seen in Madoc nodules, obtained from Deer Creek, in the County of Hastings, which exactly resembled those obtained from Green's Creek, near Ottawa, but that not having had an opportunity of opening these nodules he could not say whether they actually contained fossils. In reply to a question by Mr. R. B. Whyte as to whether the boulders, which occur in large numbers between the Ottawa River and the Chelsea Mountains were deposited by glaciers, Mr. Bowman explained that ice was the only known agent for the transportation of such masses. Mr. Ami made some remarks as to the evidence of glacial action in certain localities mentioned, and to the deposition of certain deposits of gravel at Britannia, but owing to the late hour the discussion was not prolonged.