

THE GEOLOGICAL SOCIETY OF AMERICA.

The Fourth Annual and Summer Meeting of the Geological Society of America was held last week in Rochester, N. Y., and in connection with the Forty first Meeting of the American Association for the Advancement of Science.

There were upwards of fifty fellows present. Monday and Tuesday, August 15th and 16th, were the days set apart for the reading and discussion of papers. The warmest and most animated discussion took place on the second day—when two papers on the "Ice Age," by Messrs. Warren Upham and G. Frederick Wright, well known glacialists, were taken up. Mr. Upham's paper was a detailed description of the origin, mode of formation and "conditions of accumulation of Drumlins," illustrated with numerous diagrams and figures of various forms met with in different districts. Drumlins were made up of *en-glacial* drift material accumulated rapidly and during the departure of the ice close to the border. The author referred to the irregularity of the drumlins as puzzling. The relation of drumlins to the terminal moraine was also discussed, as also the different shapes drumlins assume owing to the conditions under which they are accumulated.

Prof. G. F. Wright's paper then followed on the subject: "The extra-morainic drift of the Susquehanna Valley." This so-called "fringe" of the long, great terminal moraine was of much importance and significance. Its remote antiquity was discussed. A detailed account of careful observations made by the author in the Valley of the Susquehanna was then given. In the discussion which followed both papers Messrs. Gilbert, McGee, Salisbury, Upham, and Wright took part.

Prof. C. H. Hitchcock's "Studies of the Connecticut Valley Glacier," also proved of considerable interest.

Prof. James Hall, the veteran paleontologist of North America, who was the first to welcome us on arriving at Rochester, received a very hearty reception on presenting his paper "On the Oneonta Sandstone; its relations to the Portage, Chemung and Catskill Groups." This was a remarkable paper in which the correlation of strata by lithological or petrographical characters as well as of faunas by paleontological characters was rendered difficult by the variety and number of formations