frequently hollow and are free from marl, so that probably the cavities were once filled with crystals of salt or other alkali.

Sufficient specimens having been collected, Dr. Woolacott described the relations of the Raised Beach containing blocks of magnesian limestone as well as stones from the Cheviots. On the way to Roker a section of oolitic magnesian limestone in Cemetery Lane was examined, some of it being vesicular. The cannon ball bed was viewed from end to end. Here too the secondary banding in the balls of the cliff was very noticeable. The Excursion finished by the party passing through the caves in the soft yellow limestone bed under which the cannon ball bed dips. In the evening Dr Woolacott very kindly gave at the Sunderland Library a description of the geological features of the district illustrated by lantern photographs.

EXCURSION TO CLAXHEUGH.

AUGUST 8TH, 1903.

Director : D. WOOLACOTT, M.Sc., F.G.S.

(*Report by THE DIRECTOR*).

THE first point of interest on this excursion was the Ford Quarry, where the best fossiliferous exposure of the Permian in the North of England occurs. The search for fossils was soon rewarded by a good series of Middle Magnesian Limestone specimens. The small party then moved on towards the Claxheugh section, the principal physiographical features of the district being pointed out on the way by the Director. This section has been described by the Director (*see references below*). The Coal Measures, yellow sands, marl and slate, and the Lower and Middle Magnesian Limestone, are all exposed here with complications which render the section especially interesting.

When the Claxheugh section had been examined, the party walked back along the banks of the Wear into Sunderland, and although it had been raining for the greater part of the day, the excursion was a thoroughly enjoyable one.

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ORDINARY MEETING.

FRIDAY, JULY 3RD, 1903.

H. W. MONCKTON, F.L.S., F.G.S., President, in the Chair.

Rev. J. H. Gybbon Spilsbury, F.R.G.S., and Edward William Tunbridge were elected Members of the Association.

MR. LL. TREACHER, F.G.S., gave a lecture on “Some Flint Implements from Reading and Maidenhead,” his remarks being illustrated by a series of specimens. MR. EDGAR WILLETT, M.A., F.R.C.S., exhibited some Flint Implements from Saver-nake for comparison with those from Reading and Maidenhead.

The PRESIDENT then exhibited and explained a series of Photographs of Norwegian Glaciers taken by Mr. J. Rekestad, of the Geological Survey of Norway.

ORDINARY MEETING.

FRIDAY, NOVEMBER 6TH, 1903.

H. W. MONCKTON, F.L.S., F.G.S., President, in the Chair.

The following were elected members of the Association :
J. L. Popham, C. Roberts.

The meeting then resolved into a *Conversazione*, and the following is a list of the exhibitors and their exhibits :

THE DIRECTOR OF THE GEOLOGICAL SURVEY : Maps and Memoirs published by the Geological Survey during the past year.
G. ABBOTT, M.R.C.S. : Iron, flint and lime concretions.