of hearty votes of thanks to Mr. Webb and to the Directors of the excursion, the members returned to London, many visiting on their way to the railway-station the beautiful little village church.

REFERENCES.

Geological Survey Map, Sheet 6 (Drift Edition). Price 8s. 6d.
Ordnance Survey Map (New Series), Sheet 271. Price 1s.

1889. W. WHITAKER. "Geology of London." Vol. i, pp. 115, 116, 227.
Mem. Geol. Survey.

"Record of Excursions," pages 29 to 33.

References to the various papers which deal with the district will be found in the above-mentioned works.

EXCURSION TO ERITH AND CRAYFORD.

SATURDAY, MAY 22ND, 1897.

Director : FLAXMAN C. J. SPURRELL, F.G.S.

Excursion Secretary : W. P. D. STEBBING, F.G.S.

(*Report by* MR. MONCKTON.)

THE party assembled at Cannon Street Station and travelled by the 2.2 p.m. train to Erith. Leaving Erith Station the members were led by the Director to a good section in the lowest gravels of the Brickearth Series at Slades Green. There a short halt was made, and the Director gave an account of the geology of the locality and of the nature and composition of the beds of the Brickearth Series. The members then examined the section and noticed that the gravel showed current bedding in most parts and that, though it consisted mainly of flint, either subangular or in the form of pebbles, both Lower Greensand chert and pebbles of quartz could be found without difficulty. Various other foreign stones occur, and the Director expressed a belief that they were all derived from gravel equivalent to that of Dartford Heath.

The party then proceeded to the classic pit at Crayford which is, unfortunately, not now in a condition altogether satisfactory for the geologist. The main features were, however, pointed out by the Director, but as they have already been fully dealt with in our PROCEEDINGS and elsewhere it is only necessary to refer to the works and references at the end of this report.

Leaving the great Crayford Pit the Director led the way to an exceedingly good section in a pit on the west side of the road to Erith. Here some time was spent, and a number of the characteristic fossils of the Brickearth Series were obtained.

Returning to Erith the members enjoyed an excellent tea at the Prince of Wales Hotel, after which a vote of thanks to the
[JULY, 1897.]

SECTION SHOWN BY THE SOUTHERN FACE OF THE GREAT PIT AT THE ERITH BRICKYARD.—*W. Whitaker*, 1867.

(Reprinted by permission from *The Geology of London*, vol. i, p. 434.)

1. Soil and wash lessening westwards.
2. Brown brick-earth with race about 15 feet ; contains pebbles and pieces of shell from the Woolwich Beds.
3. Darker brown clay, with a little race, about 5 feet, with a little grey brick-earth (with shells) at the bottom passing down into the bed below.
5. Sand with shells, *Corbicula fluminalis*, etc., and pebbles less than 4 feet for the most part, loamy at the top in parts, and gravelly at bottom ; thins out west.
9. Brick-earth with a little pebble gravel.

SECTION IN THE BRICKFIELD AT ERITH.—*A. Tylor*, 1869.

(Reprinted by permission from *Quart. Journ. Geol. Soc.*, vol. xxv, p. 85.)

Drift e. Flint Gravel.
d. Brickearth.

Drift b. False bedded sand.
A. The Chalk.

Director was proposed by Mr. Potter and carried unanimously. The party returned to London by the 7.6 p.m. train.

REFERENCES.

- Geological Survey Map, Sheet 1, S.W. (Drift Edition). Price 3s.
 Ordnance Survey Map (New Series), Sheet 271. Price 1s.
1864. J. PRESTWICH.—“Deposits containing the remains of extinct Mammalia and Flint Implements.” *Phil. Trans.*, vol. cliv, Pt. 2. p. 247.
1880. FLAXMAN C. J. SPURRELL.—“On the discovery of the place where Palæolithic Implements were made at Crayford.” *Quart. Journ. Geol. Soc.*, vol. xxxvi, p. 544.
1885. ———.—“Excursion to Erith and Crayford.” *Proc. Geol. Assoc.*, vol. ix, p. 213.
1889. WILLIAM WHITAKER.—“Geology of London.” *Mem. Geol. Survey*. See also “Record of Excursions,” p. 17.

EXCURSION TO REDHILL AND MERSTHAM (NEW RAILWAY).

SATURDAY, JUNE 26TH, 1897.

Directors: G. J. HINDE, Ph.D., F.R.S., and W. WHITAKER,
B.A., F.R.S.

(*Report by THE DIRECTORS.*)

THE party reached Redhill at about 2.30 p.m. The Directors explained that the objects of the Excursion were to trace the succession of the Cretaceous Series from Lower Greensand to Chalk, and to illustrate some difficulties in Geological mapping.

Leaving the station on the eastern side, the party, between sixty and seventy in number, proceeded first to a field about a quarter of a mile distant, where the Fuller's Earth was being excavated. The bed at this place is about fourteen feet in thickness; not the whole of it is, however, economically valuable, and overlying it there are from three to four feet of a sandy rock consisting of quartz and glauconite grains and large numbers of sponge spicules cemented together. Specimens of heavy spar (Sulphate of Baryta) were obtained from the Fuller's Earth, and the overlying sandy sponge rock yielded casts of a small Echinoderm and of *Trigonia*. This same pit was visited* by the Asso-

* *Proc. Geol. Assoc.*, vol. xiii, p. 371.