

2. *On the GEOLOGICAL STRUCTURE of the MALVERN HILLS and adjacent DISTRICT.* By HARVEY B. HOLL, M.D., F.G.S.

[The publication of this paper is postponed.]

[Abstract.]

THE object of this communication was threefold, namely, (1) to discuss the structure and origin of the crystalline rocks of the Malvern Hills; (2) to give the results of an examination of the superposed Palæozoic strata; (3) to state the chronological relationship of the several events in their geological history.

The geological structure of these hills was described in detail, and it was concluded that the rocks hitherto treated of as syenite, and supposed to form the axis of the range, are in reality of metamorphic origin, consisting of gneiss (both micaceous and hornblendic), mica-schist, hornblende-schist, &c., all invaded by veins of granite and trap-rocks. It was then shown that the Hollybush Sandstone is the equivalent of the Middle Lingula-flags, and that the overlying black shales correspond with the Upper Lingula-beds, the whole being overlain, as in Wales, by Dictyonema-shales. These rocks, on the east of the Herefordshire Beacon, are altered by trap-dykes, which were shown to be of later date than those traversing the crystalline rocks before alluded to. Allusion was next made to the Upper Llandovery strata which overlie unconformably the Primordial rocks just noticed; after which the several faults in the district were described in detail.

Dr. Holl concluded with some remarks on the general relations of the rocks of the Malvern Hills with those of the surrounding districts, describing the successive physical changes supposed to have been consequent upon their deposition and their subsequent elevations and depressions.

JUNE 22, 1864.

T. Currie Gregory, Esq., C.E., 149 West George Street, Glasgow; John Hamilton, Esq., Tyne Court; Edward Langdon, Esq., B.A. (Oxon.), New College, Oxford; and George Paddisen, Esq., M.I.C.E., Petersham, Surrey, were elected Fellows.

M. Bosquet, of Maestricht; M. Jules Desnoyers, of Paris; and Dr. Charles Martins, of Montpellier, were elected Foreign Correspondents.

The following communications were read:—

1. *On the FOSSILIFEROUS ROCKS of FORFARSHIRE and their CONTENTS.* By J. POWRIE, Esq., F.G.S.

[PLATE XX.]

As stated in a former paper*, the lower members of the Forfarshire Old Red Sandstone consist of gritty beds and pebbly conglomerates having a highly indurated matrix, passing upwards into conglomerates

* Quart. Journ. Geol. Soc. vol. xvii. p. 534.