CONTENTS.

I. On Geological Time. By Sir William Thomson, LL.D., - - - 1
II. Miscellaneous Notes in Chemical Geology. By J. Wallace Young, - 28
III. On the Causes which seem to have Regulated the Relative Distribution of the Calcareous and Sedimentary Strata of Great Britain, with Special Reference to the Carboniferous Formation. By Edward Hull, M.A., F.R.S., - - - - - - 33
IV. Sketch of the Geology of the Falls of Clyde, the Mouse Valley, and Cartland Craigs. By John Dougall, - - - - - - 44
V. On Denudation in Scotland since Glacial Times. By James Geikie, Geological Survey of Scotland, - - - - - - 54
VI. On the Order of Succession among the Silurian Rocks of Scotland. By Archibald Geikie, F.R.S., - - - - - - 74
VII. On the Upper Coal Measures of Lanarkshire. By William Grossart, 96
VIII. The Post-Tertiary Fossiliferous Beds of Scotland. By Rev. Henry W. Crosskey, F.G.S., and David Robertson. (Plate I.), - - 113
IX. Note on the Spines of Gyracanthus. By James Thomson, F.G.S., 130
X. On the Surface Geology of the District around Glasgow, as indicated by the Journals of certain Bores. By James Bennie, - - - - 133
XII. On Modern Denudation. By Archibald Geikie, F.R.S., - - 153
Proceedings for 1867-68, - - - - - - - - - - - - - - 191
List of Excursions, 1868, - - - - - - - - - - - - 205
Donations to the Library, - - - - - - - - - - - - - 206
List of Members, - - - - - - - - - - - - - - - 208
XIV. On the Action of Organic Matter on Peroxide of Iron, as observed in the Post-Tertiary Sands of Glasgow. By J. Wallace Young, 241
XV. On the Arran Claystones. By Rev. John F. Potts, B.A., - - 244
XVI. On the Carboniferous Sections of the Levern Valley, Renfrewshire. By Hugh M'Phail, - - - - - - - - - - - - 254
CONTENTS.

XVII. Sketch of the Carboniferous Basin of Dalry, Ayrshire. By Robert Craig, Langside, Beith, Corresponding Member, Geological Society of Glasgow, 271

XVIII. Notes on the Section of Strata in the Gilmorehill Quarry, and Boulder-Clay, on the site of the New University Buildings, Glasgow. By John Young, 298

XIX. Notes on the Occurrence of Seeds of Fresh-water Plants and Arctic Shells, along with the Remains of the Mammoth and Reindeer, in beds under the Boulder-Clay at Kilmaurs. By John Young and Robert Craig, 310


XXI. From Geology to History. By Professor John Young, President of the Geological Society of Glasgow, 341

XXII. Notes on the Post-Tertiary Deposits of the Carse of Falkirk. By John Burns, 367

Proceedings for the Year, 1868-69, 368
Summer Excursions, 1869, 376
Meetings—Session 1869-70, 380
Donations to the Society's Library, 380
List of Officers and Members, 338

SUPPLEMENT TO VOLUME.—On the Carboniferous Fossils of the West of Scotland, their vertical range and distribution. By John Young. With a General Catalogue of the Fossils and their mode of occurrence, and an Index to the principal Localities. By James Armstrong, 1—101

ILLUSTRATIONS.

Plate 1. Post-Tertiary Echinodermata, 113
Woodcut. Cross Section of the Levern Valley, 257