# CONTENTS

I. Anniversary Address by Mr Ralph Richardson on Darwin's Geological Work (Plate I.), 1

II. Mr Alexander Johnstone on the Normal Micas, 17

III. Mr Hugh Miller on Supposed High-Level Shell Beds in Easter Ross, 28

IV. Mr John Henderson on the Succession of the Lower Carboniferous Series to the West of Edinburgh, 29

V. Mr W. Pengelly on Human Bones in a Scrobicularia Bed at Newton Abbot, Devonshire, 37

VI. Mr Alexander Johnstone on Improvements in the Methods of determining the Composition of Minerals by Blowpipe Analysis, 43

VII. Anniversary Address by Prof. H. Alleyne Nicholson on Recent Progress in Palaeontology, 53

VIII. Mr J. G. Goodchild on Notes on Faults, 71

IX. Mr Goodchild on Some Abnormal Deposits of Limestone, 75

X. Prof. E. Hull on Our Coal Resources (Plate II.), 76

XI. Mr Cadell on the Coal Question (Plate III.), 83

XII. Mr Ralph Richardson on Observations on the Geology of a part of the Puy de Dôme District of France, 89

XIII. Mr J. G. Goodchild on Dolomitic Limestones, 96

XIV. Mr Alex. Johnstone on the Rock Dolomite, 99

XV. Mr Johnstone on the Devitrification of Igneous Rocks, 106

XVI. Mr Jas. Wilson on Birkhill Fossils at Innerleithen, 113

XVII. Mr Goodchild on Some Irregular Forms of Stratification, 116

XVIII. Obituary Notice of D. Milne-Home, Esq. (Plate IV.), 119

XIX. Anniversary Address by Mr Hugh Miller on Landscape Geology, 129

XX. Mr G. H. Kinahan on the S.W. Mayo and N.W. Galway Silurian Basin, &c., 155

XXI. Obituary Notice of the late Dr James Croll, by Mr J. Horne (Plates V. and VI.), 171
CONTENTS.

XXII. Mr Wm. Morrison on An Outlier of Old Red Sandstone in Mid-Ross-shire, ........................................ 188

XXIII. Mr H. M. Cadeill on Plant Remains in Olivine Basalt at Bo'ness (Plate VI.), ...................................... 191

XXIV. Mr Ralph Richardson on Scottish Earthquakes of the Present Century (Plate VII.), .............................. 194

XXV. Mr W. Tait Kinnear on Homacanthus Borealis (Plate VIII.), ................................................................. 205

XXVI. Anniversary Address on Supposed Causes of the Glacial Period, by Prof. James Geikie, President, ............. 209

XXVII. The late Sir Andrew Crombie Ramsay, LL.D., F.R.S., &c., by Professor James Geikie (Plate IX.), ............. 233

XXVIII. Rev. Dr Gordon on The Reptiliferous Sandstones of Elgin (Plate X.), .................................................. 241

XXIX. Mr Ralph Richardson on Notes on the Flood which occurred in the River Tweed, &c., on 21st September 1891, 246

XXX. Mr L. W. Hinxman on the Occurrence of Moraines in North-West Highlands (Plate XI.), ........................ 249

XXXI. Note on Homosteus Milleri, &c., W. Tait Kinnear, .................................................................................... 252

XXXII. Mr George Craig on Building Stones used in Edinburgh, ....................................................................... 254

XXXIII. Anniversary Address on Geological Changes wrought by Man within the Forth Basin, by Mr H. M. Cadel, 275

XXXIV. Mr Cadell on the Old Lakes of Edinburgh, with Map (Plate XII.), .......................................................... 287

XXXV. Mr John Henderson on Sections exposed on the Barnton Railway, ......................................................... 297

XXXVI. Mr J. G. Goodchild on the Minerals at Barnton, ..................................................................................... 301

XXXVII. Messrs Peach and Horne on a Shell Mound at Tongue, Sutherland, ......................................................... 303

XXXVIII. Messrs Peach and Horne on the Occurrence of Shelly Boulder Clay in North Ronaldshay, Orkney, ........ 309

XXXIX. Prof. Johnston-Lavis on the Ejected Blocks of Monte Somma (Plates XIII., XIV., and XV.), .................... 314