## CONTENTS

<p>| J. G. GOODCHILD on Haematite on Arthur Seat, | 1 |
| I. J. G. GOODCHILD on Some Recent Exposures of Rock in Edinburgh, | 2 |
| II. THOMAS WALLACE, Additional Notes on the Geology of Strathdearn and Adjoining District of the Aviemore Railway, | 10 |
| III. JAS. W. KIRKBY, Note on the Ostracoda from the Scotsman Office Section, | 15 |
| IV. HERBERT KYNASTON, Notes on Contact Metamorphism round the Cheviot Granite, | 18 |
| V. JAMES SIMPSON and DAVID HEPBURN on Mammalian Bones found during Excavations at Hailes Quarry, near Edinburgh, | 27 |
| Memorial Notice of the late JAMES SIMPSON, | 32 |
| VI. Dr MACKIE, Seventy Chemical Analyses of Rocks (chiefly from the Moray area) with Deductions, | I. 38 |
| VII. JAS. W. KIRKBY on Lower Carboniferous Strata and Fossils at Randerstone, near Crail, Fife, | II. 61 |
| VIII. A. JESSEN on the Shell-bearing Clay in Kintyre, | 76 |
| IX. HERBERT KYNASTON on Some Tuffs associated with the Andesitic LavaS of Lorne, | III. 87 |
| X. Dr MACKIE, Some Notes on the Distribution of Erratics over Eastern Moray, | 91 |
| XI. Dr MACKIE on Differences in Chemical Composition between the Central and Marginal Zones of Granite Veins, with further Evidence of Exchanges between such Veins and the Contact Rocks, | 98 |
| XII. LIONEL HINXMAN, Note on Specimens of Spherulitic Felsite from Glen Feshie, | 114 |
| XIII. HENRY M. CADELL on the Geology of the Oil Shale-fields of the Lothians, | 116 |</p>
<table>
<thead>
<tr>
<th>CONTENTS.</th>
<th>PLATE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. G. GOODCHILD on John Henderson,</td>
<td></td>
<td>165</td>
</tr>
<tr>
<td>J. G. GOODCHILD, Obituary Notice of the Duke of Argyll,</td>
<td></td>
<td>176</td>
</tr>
<tr>
<td>J. G. GOODCHILD on the Geognosy of Scottish Tourmalines,</td>
<td></td>
<td>182</td>
</tr>
<tr>
<td>Dr HORNE, Obituary Notice of Mr Bennie,</td>
<td></td>
<td>187</td>
</tr>
<tr>
<td>HENRY M. CADELL, Note on the Buried River Channel of the Almond,</td>
<td></td>
<td>194</td>
</tr>
<tr>
<td>DAVID HEPBURN on the Association of Human Remains with those of the Red Deer and the Ox in Hailes Quarry, Midlothian,</td>
<td></td>
<td>197</td>
</tr>
<tr>
<td>J. G. GOODCHILD on the Scottish Ores of Iron,</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>J. SZRACHAN, Notes on Some Agates from the Pentlands (Hillend),</td>
<td></td>
<td>220</td>
</tr>
<tr>
<td>JOHN MILNE on Old Red Sandstone in Aberdeen and Neighbourhood,</td>
<td></td>
<td>221</td>
</tr>
<tr>
<td>PERCY F. KENDALL on the Evidence for Glacier-dammed Lakes in the Cheviot Hills,</td>
<td></td>
<td>VI. 226</td>
</tr>
<tr>
<td>Dr HORNE, Obituary Notice of J. W. KIRKBY,</td>
<td></td>
<td>V. 231</td>
</tr>
<tr>
<td>Mr KERR, Note on Agate Specimens from Monzie,</td>
<td></td>
<td>237</td>
</tr>
<tr>
<td>Dr MACKIE on the Saltiness of the Sea in relation to the Geological Age of the Earth,</td>
<td></td>
<td>240</td>
</tr>
<tr>
<td>Dr MACKIE, Note on the Occurrence of Traces of the Heavy Metals in the Sandstone of the Moray Firth Basin,</td>
<td></td>
<td>256</td>
</tr>
<tr>
<td>J. G. GOODCHILD on Some Pseudomorphs after a Lime-Soda Felspar,</td>
<td></td>
<td>260</td>
</tr>
<tr>
<td>J. G. GOODCHILD, Further Remarks on some Recent Exposures of Rock in Edinburgh,</td>
<td></td>
<td>266</td>
</tr>
<tr>
<td>J. G. GOODCHILD, The Nepheline Aegirine Pegmatite of Cnoc na Sroine,</td>
<td></td>
<td>273</td>
</tr>
<tr>
<td>J. G. GOODCHILD on Unconformities and Paleontological Breaks in relation to Geological Time,</td>
<td></td>
<td>VII.-IX. 275</td>
</tr>
<tr>
<td>ALEX. L. DU TORR, The Lower Old Red Sandstone Rocks of the Balmaha-Aberfoyle Region,</td>
<td></td>
<td>315</td>
</tr>
<tr>
<td>ROBERT B. YOUNG, An Analcite Diabase and other Rocks from Gullane Hill,</td>
<td></td>
<td>326</td>
</tr>
<tr>
<td>E. H. CUNNINGHAM CRAIG on the Igneous Breccia of the Lui near Braemar,</td>
<td></td>
<td>336</td>
</tr>
</tbody>
</table>
### CONTENTS

| XXXV. JAMES CURRIE on New Localities for Levyne in the Feröes and in Skye | 341 |
| XXXVI. ALFRED HARKER, The Tertiary Crust-Movements in the Inner Hebrides | X. 344 |
| XXXVII. E. B. BAILEY on the Occurrence of True Coal Measures at Port Seton, East Lothian | 351 |
| XXXVIII. E. B. BAILEY on the Occurrence of Two Spherulitic ("Variolitic") Basalt Dykes in Ardmuchnish, Argyll | XI. 363 |
| XXXIX. B. N. PEACH, Abstract of Opening Address, The Higher Crustacea of the Carboniferous Rocks of Scotland | 372 |
| XL. C. B. CRAMPTON, The Limestones of Aberlady, Dunbar, and St Monans | 374 |
| XLI. ROBERT MARTIN, Coal-Mining in the Musselburgh Coal-Field | 379 |
| XLII. ERNEST M. ANDERSON, The Dynamics of Faulting | 387 |
| XLIII. JAMES CURRIE, The Stassfurt Salt Industry | 403 |

### ERRATA

- Page 282, line 6, *delete* "that."
- Page 283, line 31, *read* "2182."
- Page 288, line 32, *read* "208364-808 miles."
- Page 292, line 31, for "horizon upon which" *read* "horizons which form."
- Page 296, line 13, for "found" *read* "formed."
- Page 327, line 27, for "Nichol's" *read* "Nicol's."