

CONTENTS

—:O:—

	PLATE	PAGE
I. A. F. CALVERT on Western Australia and its Gold-fields,	f.	1
II. H. M. CADELL on the New Geological Map of the Edinburgh District,		15
III. RALPH RICHARDSON on Kent's Cavern and Sir HENRY HOWORTH's Flood Theory,		21
IV. JAMES CURRIE on the Copper Mines of Namaqualand, .		30
V. JOHN HORNE on Two Volcanic Necks in Applecross, .		35
VI. JOHN HORNE on the Intercrossing of Boulders in the Applecross Mountains,		38
VII. EDWARD GREENLY on a Triassic Land-Surface,		45
VIII. DUGALD BELL on Glaciation of West of Scotland,		49
IX. H. M. CADELL on Petroleum and Natural Gas,	II.	51
X. RALPH RICHARDSON, Obituary Notice of Mr Pengelly,		74
XI. Prof. W. M. DAVIS, Note on Croll's Glacial Theory,		77
XII. RALPH RICHARDSON on Old Edinburgh Geologists,	III.	81
XIII. EDWARD GREENLY, Notes on the Sutherland Goldfield,		100
XIV. DUGALD BELL on the Orientation of Boulders,		108
XV. JOHN HORNE, Note on the occurrence of <i>Alethopteris lonchitica</i> in the carboniferous beds of Loch Ryan,		111
XVI. JOHN HORNE, Note on a Band of Fossiliferous Ironstone in the Cambrian Rocks of West Ross-shire,		113
XVII. JAMES CURRIE on an Iona Erratic containing Withamite,		115
XVIII. H. M. CADELL, Notes on the Section in the New Haymarket Tunnel,		119
XIX. J. G. GOODCHILD on Some of the Modes of Origin of Oil Shales, with Remarks upon the Geological History of some other Hydro-carbon Compounds,		121
XX. JOHN HORNE, Obituary Notice of Hugh Miller,	IV.	132

	PLATE	PAGE
XXI. JOHN HENDERSON on the Calton Hill and its relation to the Rocks in the Neighbourhood,		139
XXII. JOHN HORNE on the Relation of Valley Moraines to Underlying Strata in Coulin Forest, Ross-shire,		145
XXIII. WM. MACKIE on the Sands and Sandstones of Eastern Moray,		148
XXIV. H. M. CADELL, Note on the Occurrence of Vivianite in an Old Lake Bed at Cauldhame, near Linlithgow,		173
XXV. H. M. CADELL on Some Geological Features of the Coast of Western Australia,		174
XXVI. H. M. CADELL on a Visit to the New Zealand Volcanic Zone,	V.-X.	183
XXVII. J. G. GOODCHILD, Notes on the Minerals of the Hilderston Silver Mines, Linlithgow,		201
XXVIII. J. G. GOODCHILD on Desert Conditions in Britain,	XI.	203
XXIX. JAMES CURRIE on the Minerals of the Tertiary Eruptive Rocks of Ben More, Mull,		223
XXX. EDWARD GREENLY on the Occurrence of Sillimanite Gneisses in Central Anglesey,		230
XXXI. Prof. CHARLES LAPWORTH, Note on Cambrian Hyolithes Sandstones from Nuneaton,		231
XXXII. JOHN T. JOHNSTONE, Note on the Occurrence of Limestone Nodules containing Cementstone Fossils in Glacial Deposits near Moffat,		233
XXXIII. J. G. GOODCHILD, Remarks upon a recent Boring for Water at North Berwick,		236
XXXIV. Prof. M. F. HEDDLE on Analcime with New Forms,	XII.	241
XXXV. CAMPBELL BROWN on the Occurrence of Gasteropods (<i>Platystomella Scotoburdigalensis</i>) in a Lepidodendron from Craighleith Quarry, Edinburgh,	XIII.	244
XXXVI. JAMES CURRIE on Apophyllite from Cape Colony,	XIV.	252
XXXVII. EDWARD GREENLY on Incipient Metamorphism in the Harlech Grits,		254
XXXVIII. J. G. GOODCHILD, Notes on a Borehole through the Rocks of the Calton Hill,		259
XXXIX. Prof. M. F. HEDDLE on the Crystalline Forms of Riebeckite,	XV.-XVI.	265
XL. WILLIAM GUNN, Notes on the Geology of the Isle of Arran,		268
XLI. DAVID J. MITCHELL on the Greensand Fossils from Drift-Beds at Moresat, Cruden, E. Aberdeenshire,		277

CONTENTS

V

	PLATE	PAGE
XLII. RALPH RICHARDSON, Obituary Notice of James Melvin, F.S.A.Scot., formerly a Vice-President of the Society,		286
XLIII. JOHN S. FLETT on a Hypersthene Andesite from Dumyat (Ochils),	XVII.	290
XLIV. WM. MACKIE on the Laws that Govern the Rounding of Particles of Sand,	XVIII.-XIX.	298
XLV. J. G. GOODCHILD, Geological Notes on the Excavations at the Leith Dock Extension, 1897,		312
XLVI. J. G. GOODCHILD on Dr Heddle and his Geological Work,	XX.	317
XLVII. Prof. M. F. HEDDLE on the Minerals of the Storr,		328
XLVIII. Dr WHEELTON HIND on the Subdivisions of the Carboniferous Series in Great Britain and some of their European Equivalents,		332
XLIX. WILLIAM GUNN, Notes on the Correlation of the Lower Carboniferous Rocks of England and Scotland,	XXa.	361
L. JAMES REID and PETER MACNAIR on the General Psilophyton, Lycopodites, Zosterophyllum, and Parka decipiens of the Old Red Sandstones of Scotland. Their Affinities and Distribution,	XXI.-XXII.	368
LI. C. T. CLOUGH and ALFRED HARKER on a Coarsely Spherulitic ("Variolitic") Basalt in Skye,	XXIII.	381
LII. HERBERT KYNASTON, Contributions to the Petrology of the Cheviot Hills,	XXIV. XXV.	390
LIII. THOMAS D. WALLACE, Geological Notes on Strathdearn and the Aviemore Railway,		416
LIV. Prof. T. RUPERT JONES, JAMES W. KIRKBY, and Dr JOHN YOUNG on Carbonia: its Horizons and Conditions of Occurrence in Scotland, especially in Fife,		420
LV. WM. MACKIE on the Felspars present in Sedimentary Rocks as Indicators of the Conditions of Contemporaneous Climate,	XXVI.	443
LVI. EDWARD GREENLY on the Hereford Earthquake of December 17, 1896, considered in relation to Geological Structure in the Bangor-Anglesey Region,	XXVIa.	469

	PLATE	PAGE
LVII. HENRY M. CADELL on an Ash Neck in the Broxburn Shale Workings at Philpstoun. With an Appendix by JOHN S. FLETT,		477
LVIII. JOHN S. FLETT on Phenocrysts of Micropegmatite,	XXVII.	482
LIX. JAMES W. KIRKBY on the Occurrence of Carboniferous Limestone Fossils at Viewforth, near Largo, Fife,	XXVIII.	488
LX. JAMES CURRIE, Note on the Feldspars of Canisp,		494

E R R A T A

- Page 30, line 6 from foot. for "former" read "latter."
 ,, 214, ,, 4 ,, top, for " Fe_2O_3 " read " Fe_3O_4 ."
 ,, 242, ,, 10 ,, foot, for "eight" read "ten."
 ,, 242, ,, 7 ,, foot, after "Kilpatrick;" read "Earlsburn; Ratho
 (pectolite pseudo after analcime);"
 ,, 253, ,, 4 ,, top, for "(210)" read "(310)," and for "(310)"
 read "(210)."
 ,, 253, ,, 4 ,, foot, for "(310)" read "(210)."
 Plate XIV., Fig. 1, for "r" read "y," and for "y" read "r."