

CONTENTS.

—: o :—

	PLATES	PAGE
I. ALEXANDER SUTHERLAND, A Boulder containing Ammonites from Dunbeath, Caithness		1
II. G. W. LEE, Note on Fossiliferous Sandstone from Dunbeath, Caithness		2
III. J. DUNCAN, On a Deposit of Diatomaceous Earth near the East End of Loch Leven, Kinross-shire		3
IV. T. CUTHBERT DAY, Veining and Metasomatism in Basalt at Upper Whitfield, near Macbiehill	I.-II.	6
V. WILLIAM TAYLOR, A New Locality for Triassic Reptiles, with Notes on the Trias found in the Parishes of Urquhart and Lhanbryde, Morayshire		11
VI. T. CUTHBERT DAY, Igneous Intrusive Phenomena at Upper Whitfield, near Macbiehill; and at Ravelrig and Kaimes Hill Quarries, Balerno	III.-VI.	14
VII. D. TAIT, On the Section in a Bore-hole in the Calciferous Sandstone Series, Upper Old Red Sandstones and Lower Old Red Sandstone Lavas in the Grange District, Edinburgh		18
VIII. ALEXANDER BREMNER, Low-level Kettle-holes in and near Aberdeen		23
IX. ALEXANDER BREMNER, The Glacial Geology of the Stonehaven District		25
X. J. S. FLETT, The Submarine Contours around the Orkneys	VII.	42
XI. T. CUTHBERT DAY, Marginal Intrusive Phenomena near Linlithgow, and at Auchineon	VIII.	50
XII. D. TAIT, Notes on a Section of the Wardie Shales, with Igneous Intrusions, exposed in the Stank, Corstorphine; and on the Draining of the Old Lochs at Gogar and Corstorphine	IX.	54
XIII. J. MASTERTON, Coal Apples		58
XIV. ALEXANDER BREMNER, Limits of the Valley Glaciation in the Basin of the Dee		61
XV. D. BALSILLIE, Descriptions of some Volcanic Vents near St Andrews	X.	69

	PLATES	PAGE
XVI. D. BALSILLIE, Descriptions of some New Volcanic Vents in East Fife		81
XVII. RACHEL WORKMAN M'ROBERT, Igneous Rocks of Teviot and Liddisdale	XI.-XIV.	86
Records of Papers read and of Exhibits, Sessions 1915-1916, 1916-1917, and 1917-1918		104
XVIII. WILLIAM MACKIE, Acid Potassium Sulphate as a Petrochemical Test and Solvent	XV.	119
XIX. T. CUTHBERT DAY, Chemical Analyses of the Dolerite and Hornfels of Auchinoon	XVI.	128
XX. D. TAIT, Notice of a Shrimp-bearing Limestone in the Calciferous Sandstone Series at Granton, near Edinburgh	XVII.	131
XXI. THOMAS D. WALLACE, A New Locality for Manganese		135
XXII. WILLIAM MACKIE, The Principles that regulate the Distribution of Particles of Heavy Minerals in Sedimentary Rocks, as illustrated by the Sandstones of the North-East of Scotland		138
XXIII. DAVID TAIT and JAMES WRIGHT, Notes on the Structure, Character, and Relationship of the Lower Carboniferous Limestones of St Monans, Fife	XVIII.	165
XXIV. T. CUTHBERT DAY, A New Volcanic Vent and other New Geological Features on the Shore, Weak Law, near Gullane	XIX.-XXIV.	185
XXV. J. MATHIESON and E. B. BAILEY, The Glacial Strandlines of Loch Tulla		193
XXVI. WILLIAM MACKIE, The Source of the Purple Zircons in the Sedimentary Rocks of Scotland	XXV.	200
XXVII. H. M. CADELL, A Basalt Laccolite in the Bo'ness Coalfield		214
XXVIII. E. B. BAILEY, Volcanic Vent Parasitic on St Leonard's Sill		223
XXIX. H. H. READ, ALEXANDER BREMNER, ROBERT CAMPBELL, and A. W. GIBB, Records of the Occurrence of Boulders of Norwegian Rocks in Aberdeenshire and Banffshire		230
XXX. ROBERT CAMPBELL, The late Professor James Geikie, LL.D., D.C.L., F.R.S.		232
XXXI. E. B. BAILEY, C. T. Clough, M.A., LL.D., F.G.S.		236
XXXII. Dr WALCOT GIBSON, Charles Lapworth, M.Sc., LL.D., F.R.S., F.G.S., 1842-1920		239
XXXIII. Dr MACKIE, William Taylor, J.P., Lhanbryde		243

CONTENTS

	vii
	PLATES PAGE
Records of Papers read and of Exhibits, Sessions 1918-1919, 1919-1920, 1920-1921, and 1921-1922	246
XXXIV. D. TAIT, On a Bore for Brewing Water near Craigh- lockhart	271
XXXV. JAMES WRIGHT, Notes on the Occurrence of Crinoids in the Carboniferous Limestones in Scotland XXVI.-XXIX.	275
XXXVI. T. CUTHBERT DAY, The Leithies, North Berwick, a small Laccolite with unusual Intrusive Phenomena XXX.-XXXIV.	300
XXXVII. R. J. A. ECKFORD and W. MANSON, Certain Glacial Phenomena in the Central Tweed Area XXXV.-XXXVI.	308
XXXVIII. H. R. J. CONACHER, Some Occurrences of Natural Mineral Oil in the Scottish Shale Fields	319
XXXIX. J. J. H. TEALL and E. G. RADLEY, Petrological Notes on the Houston Marl XXXVII.-XXXIX.	327
XL. T. CUTHBERT DAY, Two Unrecorded Volcanic Vents on the Shore East of North Berwick XL.-XLVII.	338
XLI. D. TAIT, The Rocks between Leith and Granton, with Historical Notes on the working of the Wardie Coal	346
XLII. WILLIAM MACKIE, Dumortierite in British Rocks	352
XLIII. H. H. READ, A Diopside-bearing Pegmatite near Ellon in Aberdeenshire	353
XLIV. FREDERICK WALKER, Four Granitic Intrusions in South- Eastern Scotland	357
XLV. S. R. KIRK, Geology of the Coast between Kinkell Ness and Kingask, Fifeshire XLVIII.	366
XLVI. JAMES W. LUNN, Two Unrecorded Intrusions in the Pentland Hills	383
XLVII. D. HALDANE, Notes on the Discovery of "Edmondia" (Jones) in Fife XLIX.	386
XLVIII. FREDERICK WALKER, A Monchiquite Dyke in Lauderdale	390
Obituaries	392
Records of Papers read and of Exhibits, Sessions 1922-1923 and 1923-1924	399
Index	411
Roll of the Edinburgh Geological Society	419