

C O N T E N T S—V O L . I I .

	PAGE
List of the Society's Officers for Session 1864-65. - - -	3
I. Lecture on the Origin of the Present Scenery of Scotland. By Archibald Geikie, F.R.S.E., F.G.S. - - -	4
II. Provisional notice of a new <i>Chiton</i> and a new <i>Chitonellus</i> from the Carboniferous Rocks of Western Scotland. By John Young, with description by James W. Kirkby. - - -	13
III. Exhibition of a <i>Chiton</i> plate and Entomostraca. By James Thomson. - - -	15
IV. Exhibition of Flint implements from Sussex and Liassic fossils from Skye. By Rev. H. W. Crosskey. - - -	16
V. Exhibition of Reptilian remains from black-band ironstone, Airdrie. By James Russell. - - -	16
VI. On the Age of certain Trap-Rocks in the neighbourhood of Glasgow. By Dr. Bryce. - - -	17
VII. On a Section near Inch-na-Damff. By Rev. H. W. Crosskey. -	19
VIII. Lecture on Metamorphism, with Special Reference to Chemical Changes in Rocks. By Dr. A. T. Machattie, F.C.S. - -	20
IX. Description of Two new species of <i>Cypricardia</i> from the Carbo- niferous Limestone of Lanarkshire. By James Armstrong. -	28
X. Exhibition of fish remains from Cambuslang. By Andrew Armour. - - -	29
XI. Exhibition of Specimens of the Laurentian gneiss of Sutherland- shire. By Rev. H. W. Crosskey. - - -	—
XII. Exhibition of Copper Ores and <i>Langite</i> . By James Farie. -	—
XIII. On Ancient Sea Margins around Glasgow. By John Dougall. -	30
XIV. On some peculiar varieties of Old Red and Carboniferous Sand- stones from the neighbourhood of Glasgow. By John Young. -	33
XV. Note on the Analysis of a Red Mineral from Paisley. By J. Wallace Young. - - -	36
XVI. Lecture on Geology as a Branch of General Education. By David Page, F.R.S.E., F.G.S., &c. <i>Title only</i> . - - -	37
XVII. Notice of the occurrence of <i>Rhizodus Hibberti</i> in Carboniferous Strata in the neighbourhood of Glasgow. By John Young. -	38
XVIII. Exhibition of the head of <i>Pleuracanthus gibbosus</i> . By James Thomson. - - -	39
XIX. Exhibition of Model Section of a Coal Pit at Shettleston. By James Stokes. - - -	40

	PAGE
XX. On continuous internal movements in the Earth's crust. By John Reid. - - - - -	—
XXI. Notice of the Position and Character of several of the Igneous Rocks and Minerals in the northern front of the Cathkin Hills. By R. White Skipsey. - - - - -	41
XXII. Glacial deposits of the Clyde District. By Rev. H. W. Crosskey.	45
XXIII. Exhibition of coal-tar products. By J. Wallace Young. - -	52
XXIV. On the discovery of Carboniferous Limestone fossils in the Upper Coal Measures to the east of Glasgow. By R. White Skipsey.	—
XXV. Exhibition of Brachiopoda and <i>Gyrolepis Rankinii</i> from Braidwood Limestone. By John R. S. Hunter. - - - - -	54
XXVI. On some differences in the results of Ice Action in Scotland and Switzerland. By John D. Campbell. - - - - -	—
XXVII. Lecture on the Unity and Permanence of Species. By William Keddie. <i>Title only.</i> - - - - -	55
XXVIII. Exhibition of a new <i>Palæoniscus</i> from Shotts. By Dr. William Grossart. - - - - -	56
XXIX. Exhibition of <i>Palæonisci</i> from Possil black-band. By John Young.	—
XXX. Exhibition of Carboniferous fossils from Belgium. By Rev. H. W. Crosskey. - - - - -	—
XXXI. On Quartz and its mode of formation. By John Sutherland -	—
XXXVII. On the Geological Features of the Country around Jerusalem. By George Somerville - - - - -	61
XXXIII. On the insufficiency of the evidence adduced by Sir Charles Lyell to prove the upheaval of the shores of the Firth of Forth since the Roman invasion. By A. Bryson, F.R.S.E. <i>Title only.</i>	64
XXXIV. On the presence of Magnesia in rocks. By J. Wallace Young.	—
XXXV. Exhibition of Carboniferous corals. By James Thomson. - -	69
XXXVI. Exhibition of Carboniferous fish remains. By Andrew Armour.	—
XXXVII. Exhibition of <i>Peltocaris aptychoides</i> from Moffat. By James Farie. - - - - -	—
XXXVIII. Notes on the Earthquake district of the county of Perth. By Dr. Bryce. - - - - -	70
XXXIX. Description of a new <i>Estheria</i> from the Carboniferous Limestone of Thornliebank. By T. Rupert Jones, F.G.S. - - - -	71
XL. Note on the occurrence of <i>Estheria punctatella</i> . By John Young.	72
XLI. Note on the discovery of the teeth of <i>Dithyrocaris</i> . By James Armstrong. - - - - -	73
XLII. Description of two new shells from the Carboniferous Limestone of Clydesdale. By James Armstrong. - - - - -	74
XLIII. On the Geology of the Campbelltown District. By James Thomson. - - - - -	76
XLIV. Concluding Address. By Rev. H. W. Crosskey, <i>Vice-President.</i> -	90
Summer Excursions. - - - - -	95
Donations to the Library. - - - - -	—

CONTENTS.	vii
	PAGE
XLV. On the Occurrence of Fossil Trees imbedded in Trappean Ash in Arran. By Edward A. Wunsch, <i>Vice-President</i> . - - -	97
XLVI. On the Surface Geology of Glasgow, By James Bennie. - - -	100
XLVII. Note on the Fossils collected by Mr James Bennie at Windmillcroft. By Rev. Henry W. Crosskey, <i>Vice-President</i> . - - -	115
XLVIII. On the Auriferous Rocks and Drifts of Victoria. By W. Cameron.	117
XLIX. On the Relation between the Glacial Deposits of Scotland and those of Canada. By Rev. Henry W. Crosskey, <i>Vice-President</i> .	132
I. On the Reason why the Change of Climate in Canada since the Glacial Epoch has been less complete than in Scotland. By James Croll - - - - -	138
LI. On the Range and Occurrence of Anthracosia and other Shells in the Coal-measures eastward of Glasgow. By R. Whyte Skipsey.	141
LII. Notes on the Occurrence and Range of LINGULA in the Carboniferous Series of the West of Scotland. By John Young. -	144
LIII. Description of <i>Lingula Thomsonii</i> . By Thomas Davidson, F.R.S. F.G.S. - - - - -	149
LIV. Notes on the Occurrence of Coal Beds under the Traps of the Bowling Hills. By Alexander Currie. - - - - -	---
LV. On the discovery of the Remains of <i>Bos longifrons</i> and <i>Bos primigenus</i> in the ancient Drift of the Clyde. By James Bennie. -	152
LVI. Geological Notes and Queries :—	
Notes on the method adopted in collecting and mounting Entomostraca, etc., from the Carboniferous Strata of the West of Scotland. By John Young. - - - - -	155
Sections of Trap Rocks, etc., near Greenock. By R. Whyte Skipsey. - - - - -	158
Proceedings for the Year 1865-66. - - - - -	159
Summer Excursions. - - - - -	168
Donations to the Library. - - - - -	173
LVII. On the Change in the Obliquity of the Ecliptic, its influence on the climate of the Polar Regions, and Level of the Sea. By James Croll. - - - - -	177
LVIII. On the Chemistry of some Carboniferous and Old Red Sandstones. By J. Wallace Young. - - - - -	198
LIX. On the Ballagan Series of Rocks. By J. Wallace Young. - - -	209
LX. On the Analysis of a Green Fibrous Mineral from Cathkin. By J. Wallace Young. - - - - -	212
LXI. On the Entomostraca of the Carboniferous Rocks of Scotland. By I. Rupert Jones, F.G.S., and James W. Kirkby. - - -	213
LXII. Address in Memory of James Smith, Esq. of Jordanhill, F.G.S. By Rev. Henry W. Crosskey. - - - - -	228
LXIII. Notes on Some Fossil Crustacea and a Chilognathous Myriapod, from the Coal Measures of the West of Scotland. By Henry Woodward, F.G.S. ( <i>Plate III.</i> ) - - - - -	234
LXIV. On the Igneous Rock Sections at the Rye Water, Ayrshire. By R. White Skipsey. - - - - -	248

	PAGE
LXV. Scottish Geology: Its Proofs and Problems. By David Page, F.G.S., <i>Abstract.</i> - - - - -	252
LXVI. On the Silurian Scenery of the Enterkin. By John Dougall. -	255
LXVII. On the Occurrence of a Fault in the Old Red Sandstone and Ballagan Series in Dumbuck Glen, near Dumbarton. By John Young. -	257
LXVIII. Further Observations on the Surface Geology of Glasgow. By James Bennie. - - - - -	260
LXIX. On some Points in the Surface Geology of the Southern Highlands. By Dr. John Young, <i>President.</i> - - - - -	266
LXX. The Post-Tertiary Fossiliferous Beds of Scotland. By Rev. Henry W. Crosskey and David Robertson. - - - - -	267
LXXI. Local Unconformity, as illustrated in Sections near Bishopbriggs. By Dr. John Young and John Young. ( <i>Plate IV.</i> ) - - -	283
LXXII. Geological Notes and Queries:—	
On Quartz Crystals in Limestone. - - - - -	291
Section of Encrinal Limestone near Beith. - - - - -	292
Proceedings for the Year 1866-67. - - - - -	293
Donations to the Library. - - - - -	303
List of Members. - - - - -	308
Index. - - - - -	315

---

LIST OF PLATES.

Plate I. Carboniferous fossils from Western Scotland. - - - -	13
„ II. Carboniferous Brachiopoda from Campbeltown. - - - -	76
„ III. Crustacea and Insecta from the Coal-measures of Kilmaurs and other localities. - - - - -	234
„ IV. Sections near Bishopbriggs. - - - - -	233

---

LIST OF WOOD ENGRAVINGS.

Section of Tinfergus Glen, Campbeltown. - - - - -	83
Fossil Stems of Trees imbedded in Trappean Ash in Arran. - - -	99
Original Figure of <i>Pygocephalus</i> (?). - - - - -	244
<i>Pygocephalus Huxleyi.</i> - - - - -	245