

## TABLE OF CONTENTS.

	PAGE
On the Origin of the British Trias. By Professor T. G. Bonney, Sc.D., LL.D., F.R.S. ... ..	1
On the Origin of the Trias. By J. Lomas, A.R.C.S., F.G.S. ...	15
Discussion on the Origin of the Trias ... ..	19
Roman Remains at Filey. By the Rev. E. Maule Cole, M.A., F.G.S.	21
Striated Rock Surface on Harden Moor, near Bingley. By E. E. Gregory	26
The Structure of some Craven Limestones. Part I. By Albert Wilmore, B.Sc., F.C.S., F.G.S., ... ..	27
Ingleborough. Part IV. Stratigraphy and Palæontology of the Silurian. By T. McKenny Hughes, M.A., F.R.S., F.G.S. ...	45
A Note on the Carboniferous Sequence in the neighbourhood of Pateley Bridge. By Arthur Vaughan, B.A., D.Sc., F.G.S. ... ..	75
On a Carboniferous Trilobite from Angram, in Nidderdale. By Henry Woodward, LL.D., F.R.S., &c. ... ..	84
The Ingletonian Series of West Yorkshire. By R. H. Rastall, M.A., F.G.S., Fellow of Christ's College, Cambridge... ..	87
Notes on Speeton Ammonites. By C. G. Danford ... ..	101
Honorary Secretary's Report, 1905... ..	115
Honorary Treasurer's Statement, 1905 ... ..	136
The Palæontological Succession of the Carboniferous Rocks in the South of the Isle of Man. By Wheelton Hind, M.D., B.S., F.R.C.S., F.G.S. ... ..	137
On the Occurrence of Dendroid Graptolites in British Carboniferous Rocks. By Wheelton Hind, M.D., B.S., F.R.C.S., F.G.S. ...	155
The Structure of some Craven Limestones. Part II. By Albert Wilmore, B.Sc., F.C.S., F.G.S. ... ..	158
Note on a New Section in the Glacial Drifts of Holderness. By T. Sheppard, F.G.S., and J. W. Stather, F.G.S. ... ..	171
Ingleborough. Part IV. Devonian and Carboniferous. By T. McKenny Hughes, M.A., F.R.S., F.G.S. ... ..	177
A List of the Fossil Fishes of the Carboniferous Rocks of Yorkshire, with their Distribution. By Edgar D. Wellburn, L.R.C.P.E., F.G.S., &c. ... ..	198

	PAGE
Honorary Secretary's Report, 1906	205
Honorary Secretary's Report, 1907	222
Excursions in 1907	229
Honorary Treasurer's Statement, 1906	244
Honorary Treasurer's Statement, 1907	245
In Memoriam: Henry Clifton Sorby. By Professor Percy F. Kendall, M.Sc., F.G.S.	247
In Memoriam: Joseph Lomas. By Professor Percy F. Kendall, M.Sc., F.G.S.	251
Ingleborough. Part VI. The Carboniferous Rocks. By Professor T. McKenny Hughes, M.A., F.R.S., F.G.S.	253
Marine, and other, Fossils in the Yorkshire Coal Measures above the Barnsley Seam. By H. Culpin	321
Description of two New Species of Lamellibranchs from Marine Bands of the Yorkshire Coal Field. By Wheelton Hind, M.D., B.S., F.R.C.S., F.G.S.	335
Geological Notes on a Deep Boring near Selby. By H. St. John Durnford, M.Inst.C.E.	337
Notes on the Geology of Thornton, Marton, and Broughton-in-Craven. By A. Wilmore, B.Sc., F.G.S.	347
The Glaciation of North Cleveland. By Frank Elgee	372
Some Effects of the Storm of June 3rd, 1908, on Barden Fell. By Albert Gilligan, B.Sc.	383
Notes on a Junction of Coal Measures and Millstone Grit at Hawkes- worth Quarry, Horsforth. By A. R. Dwerryhouse, D.Sc., F.G.S.	391
Some Undescribed Faults in the Settle-Malham Area. By Cosmo Johns, M.I.Mech.E., F.G.S.	393
Notes on the Development of the Yorkshire Coal Field in the neigh- bourhood of Doncaster. By Walter Rowley, F.S.A., M.Inst.C.E., F.G.S.	403
Honorary Secretaries' Report, 1908	405
Excursions of 1908	409
Honorary Treasurer's Statement, 1908	424

## LIST OF PLATES IN VOLUME XVI.

	PAGE
I. Folded Strata at Foxley Bank and at Broughton Fields	28
II. Hambleton Quarry, near Bolton Abbey ... ..	30
III. Hambleton Quarry, near Bolton Abbey ... ..	32
IV. Photo-micrographs of Craven Limestones ... ..	36
V. Photo-micrographs of Craven Limestones ... ..	42
VI. Section in Spengill, near Rawthey Bridge, Sedbergh ...	48
VII. Geological Map of the Ingleton District ... ..	90
VIII. Photo-micrographs of Rocks of the Ingletonian Series ...	96
IX. Photo-micrographs of Rocks of the Ingletonian Series ...	98
X. Speeton Ammonites ... ..	102
XI. Speeton Ammonites ... ..	104
XII. Speeton Ammonites ... ..	106
XIII. Speeton Ammonites ... ..	108
XIV. Speeton Ammonites ... ..	110
XV. Undulations in Limestone, Scarlet Point ... ..	140
XVI. Overthrust in Bedded Volcanic Ash, Close ny Chollagh Point ... ..	141
XVII. Natural Arch, Langness ... ..	143
XVIII. Carboniferous Dendroid Graptolites ... ..	156
XIX. Geological Map of Craven ... ..	158
XX. Carboniferous Limestone, Foxley Bank ... ..	160
XXI. Sections of Kelsey Hill ... ..	172
XXII. General View of the Cutting, Kelsey Hill ... ..	174
XXIII. Section at Kelsey Hill ... ..	175
XXIV. Penygent from Ingleborough ... ..	177
XXV. Unconformity, Arco Wood Quarry ... ..	192
XXVI. Henry Clifton Sorby ... ..	247

vi.		LIST OF PLATES IN VOLUME XVI.		PAGE
XXVII.	Photographs of Sorby Slides ... ..	...	...	248
XXVIII.	Photo-micrographs of Sorby Slides ... ..	...	...	248
XXIX.	Geological Map and Section of Ingleborough ... ..	...	...	253
XXX.	Appearance of Columnar Structure seen in Trow Gill ...	...	...	294
XXXI.	Norber and Thwaites Scar, seen from Trow Gill ...	...	...	294
XXXII.	Long Kin West ... ..	...	...	294
XXXIII.	Robin Proctor's Scar and Long Scar ... ..	...	...	294
XXXIV.	Looking towards Penygent over Sulber and Perched Blocks of Limestone ... ..	...	...	294
XXXV.	Waterfall in Black Marble Series and Fish from Black Shales of Fell Close Sike ... ..	...	...	294
XXXVI.	Specimens of <i>Producta</i> ... ..	...	...	294
XXXVII.	<i>Producta gigantea</i> , normal type ... ..	...	...	294
XXXVIII.	<i>Producta gigantea</i> , normal type ... ..	...	...	294
XXXIX.	Specimens of <i>Producta</i> ... ..	...	...	294
XL.	<i>Aviculopecten Culpini</i> and <i>Scaldia carbonaria</i> ... ..	...	...	335
XLI.	Photo-micrographs of Craven Limestones ... ..	...	...	364
XLII.	Photo-micrographs of Craven Limestones ... ..	...	...	364
XLIII.	Photo-micrographs of Craven Limestones ... ..	...	...	364
XLIV.	Photo-micrographs of Craven Limestones ... ..	...	...	364
XLV.	Photo-micrographs of Craven Limestones ... ..	...	...	364
XLVI.	Gill Rock, Craven, and <i>Syringopora ramulosa</i> ... ..	...	...	364
XLVII.	Black Limestone with Calcite Veins and Fragment of Crinoidal Limestone converted into Chert ... ..	...	...	364
XLVIII.	Photo-micrographs of <i>Zaphrentis Omaliusi</i> var. <i>densa</i> and var. <i>ambigua</i> ... ..	...	...	364
XLIX.	Photo-micrographs of <i>Cyathaxonia Rushiana</i> and <i>Cya-</i> <i>thaxonia</i> sp. ... ..	...	...	364
L.	Photo-micrographs of <i>Cyathaxonia</i> ... ..	...	...	364
LI.	Map of Portion of North Cleveland ... ..	...	...	372
LII.	Map of Scugdale Slack and Grove Hill Overflows ...	...	...	376

LIST OF PLATES IN VOLUME XVI.

	vii.
	PAGE
LIII. Map of Sowerdale and the Course of the Leven...	... 376
LIV. Map of Neighbourhood of Seamer, near Stokesley	... 376
LV. Effects of the Storm on Burnsall Fell ... ..	... 388
LVI. New Channel on Burnsall Fell and Loburn Gill, Embsay Fell ... ..	... 388
LVII. Millholme Mill and Spindle Mill on Embsay Beck	... 388
LVIII. Weir in Moor Beck ... ..	... 388

