

CONTENTS.

PART I.

- I. *On a Group of Slate Rocks ranging E.S.E. between the rivers Lune and Wharfe, from near Kirby Lonsdale to near Malham; and on the attendant Phænomena.* By John Phillips, Esq. F.G.S. Hon. Mem. of the Yorkshire, Leeds, and Hull Philosophical Societies. p. 1
- II. *On the Geological Relations of the Secondary Strata in the Isle of Arran.* By the Rev. Adam Sedgwick, V.P.G.S. F.R.S. &c. and Roderick Impey Murchison, Esq. Sec. G.S. F.L.S. &c. p. 21
- III. *On the Geological Relations and internal Structure of the Magnesian Limestone, and the lower Portions of the New Red Sandstone Series in their Range through Nottinghamshire, Derbyshire, Yorkshire, and Durham, to the Southern Extremity of Northumberland.* By the Rev. Adam Sedgwick, V.P.G.S. F.R.S. &c. p. 37
- IV. *On the Structure and Relations of the Deposits contained between the Primary Rocks and the Oolitic Series in the North of Scotland.* By the Rev. Adam Sedgwick, V.P.G.S. F.R.S. &c. and Roderick Impey Murchison, Esq. Sec. G.S. F.R.S. F.L.S. &c. p. 125
- V. *On the Geology of Tor and Babbacombe Bays, Devon.* By Henry T. De la Beche, Esq. F.G.S. F.R.S. F.L.S. &c. p. 161
- VI. *On the Geology of the Environs of Nice, and the Coast thence to Vintimiglia.* By H. T. De la Beche, Esq. F.G.S. F.R.S. F.L.S. &c. p. 171
- VIII. *Observations on the Secondary Formations between Nice and the Col di Tendi.* By the Rev. W. Buckland, D.D. V.P.G.S. F.R.S. F.L.S. &c. &c. p. 187
- IX. *On the Geology of a Portion of Bundelcund, Boghelcund, and the Districts of Saugor and Jubulpore.* By Captain James Franklin, of the Bengal Army, F.G.S. F.R.S. p. 191

CONTENTS.

- X. *A Tabular Arrangement of the Organic Remains of the County of Sussex.*
By Gideon Mantell, Esq. F.G.S. F.R.S. &c. p. 201
- XI. *On the Discovery of a New Species of Pterodactyle in the Lias at Lyme Regis.* By the Rev. W. Buckland, D.D. V.P.G.S. F.R.S. F.L.S. &c. &c. p. 217
- XII. *On the Discovery of Coprolites, or Fossil Fæces, in the Lias at Lyme Regis, and in other Formations.* By the Rev. W. Buckland, D.D. V.P.G.S. F.R.S. F.L.S. &c. &c. p. 223
- XIII. *Letter from Dr. Prout to Dr. Buckland respecting the Analysis of the Fossil Fæces of Ichthyosaurus and other Animals.* p. 237

PART II.

- XIV. *On the Oolitic District of Bath.* By William Lonsdale, Esq. F.G.S. (Communicated by Dr. Fitton, Pres. G.S., &c. &c.) p. 241
- XV. *On a Fossil Fox found at Ceningen near Constance; with an Account of the Deposit in which it was imbedded.* By Roderick Impey Murchison, Esq. Pres. G.S. F.R.S. F.L.S. p. 277
- XVI. *Anatomical Description of the Fox.* By Gideon Mantell, Esq. F.G.S. F.R.S. F.L.S. &c. p. 291
- XVII. *On the Astronomical Causes which may influence Geological Phenomena.* By J. F. W. Herschel, Esq. M.A. F.G.S. F.R.S. L. & E. Correspondent of the Royal Academy of Science of Paris, &c. &c. p. 293
- XVIII. *A Sketch of the Structure of the Eastern Alps; with Sections through the Newer Formations on the Northern Flanks of the Chain, and through the Tertiary Deposits of Styria, &c. &c.* By the Rev. Adam Sedgwick, Pres. G.S. F.R.S. &c. (Woodwardian Professor in the University of Cambridge), and Roderick Impey Murchison, Esq. Sec. G.S. F.R.S. F.L.S. &c. With Supplementary Observations, Sections, and a Map. By Roderick Impey Murchison, Esq. Sec. G.S. F.R.S. F.L.S. &c. p. 301

CONTENTS.

PART III.

- XIX. *On the Occurrence of Agates in Dolomitic Strata of the New Red Sandstone Formation in the Mendip Hills. By the Rev. William Buckland, D.D. F.G.S. F.R.S. F.L.S. (Professor of Geology and Mineralogy in the University of Oxford).* p. 421
- XX. *On the Discovery of Fossil Bones of the Iguanodon in the Iron Sand of the Wealden Formation in the Isle of Wight, and in the Isle of Purbeck. By the Rev. William Buckland, D.D. V.P.G.S. F.R.S. F.L.S. (Professor of Geology and Mineralogy in the University of Oxford.)* . p. 425
- XXI. *Notice of Two Models and Sections of about Eleven Square Miles, forming a part of the Mineral Basin of South Wales, in the vicinity of Pontypool, and presented to the Geological Society by Richard Cowling Taylor, Esq. F.G.S.* p. 433
- XXII. *Some Account of the Remains of the Megatherium sent to England from Buenos Ayres by Woodbine Parish, Jun. Esq. F.G.S. F.R.S. By William Clift, Esq. F.G.S. F.R.S.* p. 437
- XXIII. *Remarks on the Existence of the Anoplotherium and Palæotherium in the Lower Freshwater Formation at Binstead, near Ryde, in the Isle of Wight. By Samuel Peace Pratt, Esq. F.G.S. F.L.S.* p. 451
- XXIV. *Observations relative to the Structure and Origin of the Diamond. By Sir David Brewster, K.G.H. LL.D. F.G.S. F.R.S.* p. 455
- XXV. *Remarks on the Structure of large Mineral Masses, and especially on the Chemical Changes produced in the Aggregation of Stratified Rocks during different periods after their Deposition. By the Rev. Adam Sedgwick, F.G.S. F.R.S. (Woodwardian Professor in the University of Cambridge.)* p. 461
- XXVI. *Notices and Extracts from the Minute-Book of the Geological Society.* p. 487 to 498
1. *Extract from a Letter from George Gordon, Esq. to Roderick Impey Murchison, Esq. P.G.S. F.R.S., noticing the Existence of a Blue Clay on the Southern side of the Murray Firth.* p. 487

CONTENTS.

2. <i>On the Basalt of the Titterstone Clee Hill, Shropshire. By J. Robinson Wright, Esq. F.G.S. Employed on the Ordnance Survey.</i>	p. 487
3. <i>On a large Boulder-stone on the Shore of Appin, Argyleshire. By James Maxwell, Esq.; and communicated by William Smith, Esq. F.G.S.</i>	p. 488
4. <i>On the occurrence of Bones in a Coal-mine near Gratz, in Styria. By Prof. Anker, of the Johanneum in Gratz: communicated by Roderick Impey Murchison, Esq. F.G.S.</i>	p. 488
5. <i>Notice of a Machine for regulating High Temperatures, invented by the late Sir James Hall, Bart. F.G.S.; and drawn up by Captain Basil Hall, R.N., F.G.S. &c.</i>	p. 489
6. <i>Extract from a Communication from Captain Colquhoun, R.A., addressed to Roderick Impey Murchison, Esq. F.G.S., descriptive of Masses of Meteoric Iron found in Mexico and Potosi.</i>	p. 491
7. <i>On the Geology of the Banks of the Indus, the Indian Caucasus, and the Plains of Tartary, to the Shores of the Caspian. By Lieut. Alexander Burnes: communicated by Roderick Impey Murchison, Esq. F.G.S.</i>	p. 491
8. <i>An Attempt to bring under General Geological Laws the Relative Position of Metalliferous Deposits with regard to the Rock Formations of which the Crust of the Earth is formed. By M. Albert Louis Necker, For. Mem. G.S.</i>	p. 494
<i>Index.</i>	p. 499
<i>A List of Donations to the Library, to the Collection of Maps, Plans, Sections and Models; and to the Museums.</i>	
<i>Explanation of the Plates.</i>	

** The Binder is directed to place the Tables of Officers and Council immediately after the Title-page, and in the order in which they were published.