

## CONTENTS.

---

---

### PART I.

- I. *Observations on the Geology of Northumberland and Durham. By N. J. Winch, Esq. F.L.S. Honorary Member of the Geological Society* - - - - - p. 1
- II. *On a Whin Dyle traversing Limestone in the County of Northumberland. By the Hon. Henry Grey Bennet, M.P. F.R.S. Vice-President of the Geological Society* - - - - - p. 102
- III. *Description of an insulated Group of Rocks of Slate and Greenstone, in Cumberland and Westmoreland on the east side of Appleby between Melnerby and Murton. By the Rev. William Buckland, B.D. Professor of Mineralogy in the University of Oxford, and Member of the Geological Society* - - - - - p. 105

### PART II.

- IV. *Observations on the Mountain Cruachan in Argyleshire; with some Remarks on the surrounding Country. By John Mac Culloch, M.D. F.L.S. President of the Geological Society, Chemist to the Ordnance, Lecturer on Chemistry at the Royal Military Academy, and Geologist to the Trigonometrical Survey* - - - - - p. 117
- V. *Account of some remarkable Disturbances in the Veins of the Mine called Huel Peecer, in Cornwall. By John Williams, Esq. Honorary Member of the Geological Society* - - - - - p. 139
- VI. *Description of the Tunnel of the Tavistock Canal, through Morwel Down, in the County of Devon. By John Taylor, Esq. Treasurer of the Geological Society* - - - - - p. 146

## CONTENTS

- VII. *Corrections and Additions to the Sketch of the Mineralogy of Sky, published in the Third Volume of the Transactions of the Geological Society. By John Mac Culloch, M.D. F.L.S. President of the Geological Society, &c. &c.* - - - - - p. 156
- VIII. *On the Strata in the Neighbourhood of Brisol. By Richard Bright, M.D. Member of the Geological Society. With Notes, extracted from the Communications of George Cumberland, Esq. Honorary Member of the Geological Society* - - - - - p. 193
- Note on Magnesian Breccia. By Henry Warburton, Esq. Vice-President of the Geological Society* - - - - - p. 205
- IX. *On the Magnesian Limestone and Red Marle or Sandstone of the Neighbourhood of Bristol. By W. H. Gilby, M.D.* - p. 210
- X. *On the Strata at Whorlbury Camp, in Somerseshire. By George Cumberland, Esq. Honorary Member of the Geological Society* p. 216
- XI. *Observations on the Hill of Kinnoul, in Perthshire. By John Mac Culloch, M.D. F.L.S. President of the Geological Society, &c. &c.* - - - - - p. 220
- XII. *Account of some attempts to ascertain the angles of the Primitive Crystals of Quartz and of the Sulphate of Barytes, by means of the reflecting Goniometer, together with practical reasons for presuming that the admeasurements assigned by Haüy to several varieties of the parallelepiped and of the octohedron are inaccurate. By William Phillips, Member of the Geological Society* - - - - - p. 233
- XIII. *On the Measurement, by the reflecting Goniometer, of certain primitive Crystals; with Observations on the methods of obtaining them by mechanical division along the natural joints of Crystals. By William Phillips, Member of the Geological Society* - p. 241
- XIV. *Supplementary Observations on Quartz Rock, made in 1814. By John Mac Culloch, M.D. F.L.S. President of the Geological Society, &c. &c.* - - - - - p. 264
- XV. *Description of a series of Specimens from the Plastic Clay near Reading, Berks. With Observations on the Formation to which those Beds belong. By the Rev. William Buckland, B.D. Member of the Geological Society, and Professor of Mineralogy in the University of Oxford* - - - - - p. 277

## CONTENTS.

- XVI.** *On some Beds of Shell Marle in Scotland.* By Henry Warburton, Esq. F.R.S. Vice-President of the Geological Society - p. 305
- XVII.** *Geological Remarks on the Vicinity of Maestricht.* By the Rev. W. E. Hony, Fellow of Exeter College, Oxford; Member of the Geological Society - - - - - p. 310
- XVIII.** *On the Parallel Roads of Glen Roy.* By John Mac Culloch, M.D. F.L.S. President of the Geological Society, &c. &c. - p. 314
- XIX.** *On a Shifted Vein occurring in Limestone.* By John Mac Culloch, M.D. F.L.S. President of the Geological Society, &c. &c. - p. 393
- XX.** *Explanation of a Supplementary Plate to the Paper on Vegetable Remains preserved in Chalcedony, printed in the Second Volume of the Transactions of the Geological Society.* By John Mac Culloch, M.D. F.L.S. President of the Geological Society, &c. &c. - p. 398
- XXI.** *On a peculiar Disposition of the Colouring Matters in a Schistose Rock.* By John Mac Culloch, M.D. F.L.S. President of the Geological Society, &c. &c. - - - - - p. 399
- XXII.** *Memoranda relative to the Porphyritic Veins, &c. of St. Agnes in Cornwall.* By the Rev. J. J. Conybeare, Member of the Geological Society - - - - - p. 401
- XXIII.** *On the Stream Works of Pentowan.* By Edward Smith, Esq. p. 404
- XXIV.** *Observations respecting the Limestone of Plymouth, extracted from two Letters, dated September 26, 1814, and January 19, 1815, addressed to Henry Warburton, Esq. Secretary.* By the Rev. Richard Hennah, junr. Chaplain to the Forces at Plymouth p. 410
- XXV.** *Description of the Paramoudra, a singular fossil body that is found in the Chalk of the North of Ireland; with some general Observations upon Flints in Chalk, tending to illustrate the History of their Formation.* By the Rev. William Buckland, B.D. Member of the Geological Society, and Professor of Mineralogy in the University of Oxford - - - - - p. 413
- XXVI.** *Notice of Fossil Shells in the Slate of Tintagel.* By the Rev. J. J. Conybeare, Member of the Geological Society - p. 424
- XXVII.** *Notice of some peculiarities observed in the Gravel of Litchfield.* By Arthur Aikin, Esq. Member of the Geological Society, and Secretary to the Society for the Encouragement of Arts, Manufactures, and Commerce - - - - - p. 426

## CONTENTS.

<b>XXVIII.</b> <i>Analysis of one hundred parts of a dark Bituminous Limestone, from the Parish of Whiteford, in Flintshire, North Wales. By Edward Daniel Clarke, LL.D. Professor of Mineralogy in the University of Cambridge, and Honorary Member of the Geological Society</i>	-	-	-	-	-	-	-	p. 430
<b>XXIX.</b> <i>Barometrical Measurements. By William Allen, Esq. F.R.S. and Samuel Woods, Esq. Members of the Geological Society</i>	-	-	-	-	-	-	-	p. 434
<b>XXX.</b> <i>Notice concerning the Shropshire Witherite. By Arthur Aikin, Esq. Member of the Geological Society, and Secretary to the Society for the Encouragement of Arts, Manufactures and Commerce</i>	-	-	-	-	-	-	-	p. 438
<b>XXXI.</b> <i>Extracts from the Minute Book of the Geological Society</i>	-	-	-	-	-	-	-	p. 443
<i>List of Donations</i>	-	-	-	-	-	-	-	p. 451
<i>Index</i>	-	-	-	-	-	-	-	p. 459