

Monthly Journal of Geology:

WITH WHICH IS INCORPORATED

“THE GEOLOGIST.”

NOS. CCCXIX. TO CCCXXX.

EDITED BY

HENRY WOODWARD, LL.D., F.R.S., F.G.S., F.Z.S., F.R.M.S.,

OF THE BRITISH MUSEUM OF NATURAL HISTORY;

VICE-PRESIDENT OF THE PALEONTOGRAPHICAL SOCIETY,

MEMBER OF THE LYCEUM OF NATURAL HISTORY, NEW YORK; AND OF THE AMERICAN PHILOSOPHICAL SOCIETY, PHILADELPHIA; HONORARY MEMBER OF THE YORKSHIRE PHILOSOPHICAL SOCIETY; OF THE GEOLOGISTS' ASSOCIATION, LONDON; OF THE GEOLOGICAL SOCIETIES OF EDINBURGH, GLASGOW, HALIFAX, LIVERPOOL, AND NORWICH; CORRESPONDING MEMBER OF THE GEOLOGICAL SOCIETY OF BELGIUM; OF THE IMPERIAL SOCIETY OF NATURAL HISTORY OF MOSCOW; OF THE NATURAL HISTORY SOCIETY OF MONTREAL; AND OF THE MALACOLOGICAL SOCIETY OF BELGIUM.

ASSISTED BY

ROBERT ETHERIDGE, F.R.S. L. & E., F.G.S., F.C.S., &c.,

OF THE BRITISH MUSEUM OF NATURAL HISTORY.

WILFRID H. HUDLESTON, M.A., F.R.S., V.P.G.S., F.L.S., F.C.S.

AND

GEORGE J. HINDE, Ph.D., F.G.S., &c.

NEW SERIES. DECADE III. VOL. VIII.

JANUARY—DECEMBER, 1891.

LONDON:

KEGAN PAUL, TRENCH, TRÜBNER & Co., LIMITED,
PATERNOSTER HOUSE, CHARING CROSS ROAD, W.C.

F. SAVY, 77, BOULEVART ST.-GERMAIN, PARIS.

1891.

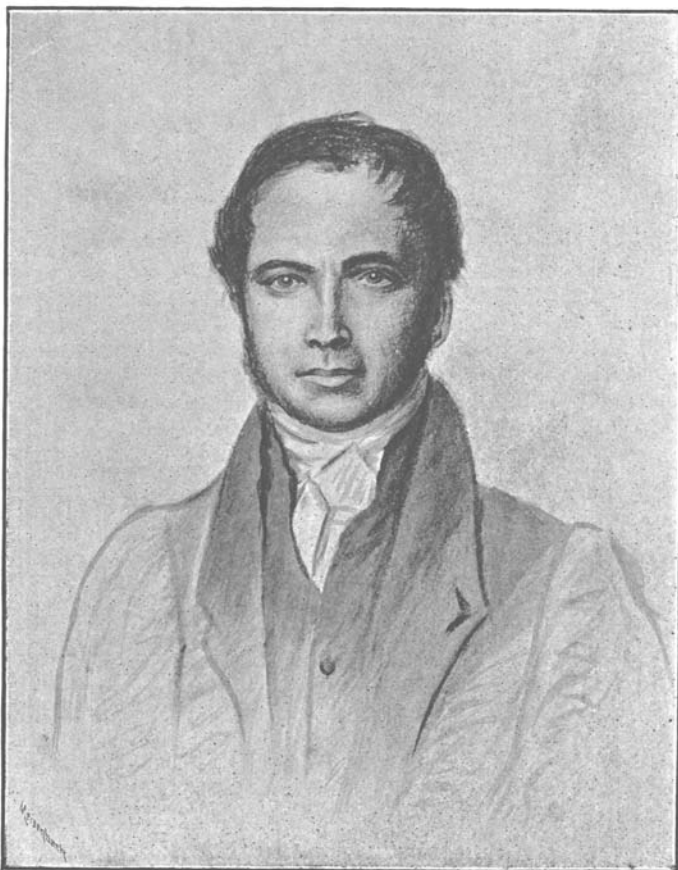
LIST OF PLATES.

| PLATE | PAGE |
|--|------|
| I. Samuel Woodward, Geologist | I |
| II. Fossil Estheriæ | 49 |
| III. Eocene and Cretaceous Fishes' Teeth, and Tooth of <i>Botlosaurus</i> <i>Belgicus</i> | 105 |
| IV. The Gigantic Ceratopsidæ | 145 |
| V. To illustrate Prof. Marsh's paper on <i>Triceratops</i> | 194 |
| VI. <i>Leveillia latidorsata</i> , sp. nov., R. B. Newton | 202 |
| VII. Restoration of <i>Triceratops prorsus</i> , Marsh | 241 |
| VIII. Remains of <i>Hylonomus Lyelli</i> , Dawson | 256 |
| IX. <i>Ichthyosaurus tenuirostris</i> , Conybeare. | 289 |
| X. The Lancashire Earthquake, February 10, 1889. | 364 |
| XI. Restoration of <i>Stegosaurus ungulatus</i> , Marsh | 385 |
| XII. Concretions from the Magnesian Limestone of Durham | 433 |
| XIII. Marsden Quarries, Coast of Durham | 433 |
| XIV. <i>Olenellus Callavei</i> , Details | 529 |
| XV. <i>Olenellus Callavei</i> , Restoration | 529 |

LIST OF WOODCUTS.

| | PAGE |
|--|------|
| <i>Stephanella sancta</i> , Hinde, gen. et sp. nov., Utica Shale, Canada . . . | 23 |
| Edinburgh Earthquake, January 18, 1889 | 59 |
| Apparatus for Isolating Minerals | 69 |
| Fisher's Physics of the Earth's Crust | 72 |
| Diagram to illustrate the theory of the elevation of the Himalayas . . . | 72 |
| Apical disc of <i>Echinoconus subrotundatus</i> | 117 |
| <i>Peltastes Wrightii</i> , and <i>Echinoconus subrotundatus</i> | 118 |
| Humerus and Mandibles of <i>Dendrerpeton Acadianum</i> | 147 |
| Parts of Skull and other bones of <i>D. Acadianum</i> | 148 |
| Outer Tooth and portion of Maxillary Bone of <i>D. Acadianum</i> | 148 |
| <i>Hylonomus Lyelli</i> | 151 |
| Cervical vertebræ of <i>Triceratops prorsus</i> , Marsh | 195 |
| Dorsal vertebræ of " " " | 196 |
| Sacrum of " " " | 197 |
| Caudal vertebræ of " " " | 198 |
| Distal Caudal of " " " | 199 |
| Cranium of <i>Bubalus Bainii</i> , Seeley | 200 |
| <i>Hylonomus Wildi</i> , A. S. Woodw., sp. nov. | 212 |
| Right scapula and coracoid of <i>Triceratops prorsus</i> | 242 |
| Right humerus of " " | 242 |
| Left ulna of " " | 242 |
| Pelvis of " " | 243 |
| Pubis of " " | 243 |
| Femur and tibia of " " | 244 |
| Metacarpal of " " | 246 |
| Phalanx of of manus of <i>Triceratops flabellatus</i> | 246 |
| Metatarsal of " <i>prorsus</i> | 246 |

| | PAGE |
|--|------|
| Ungual phalanx of <i>Triceratops horridus</i> | 246 |
| Dermal spine of <i>Triceratops</i> | 246 |
| Dermal plate of <i>Triceratops</i> | 247 |
| Dermal ossification of <i>Triceratops</i> | 247 |
| Molar teeth of <i>Anchitherium Bairdii</i> | 318 |
| Cheek teeth of <i>Hipparion</i> | 319 |
| Molar of <i>Equus stenonis</i> | 319 |
| Molar of <i>Rhinoceros palæindicus</i> | 320 |
| Map of part of Island of Gozo near Malta | 349 |
| Pleistocene deposits of the Dueira Valley | 353 |
| Kintyre Earthquake, July 15, 1889 | 366 |
| East Cornwall Earthquake, October 7, 1889 | 368 |
| Restoration of <i>Xenacanthus Decheni</i> , Goldf. sp. | 376 |
| Restoration of <i>Pleuracanthus parallelus</i> , Fritsch | 376 |
| Sketch-map of Daghestan, North Caucasus | 393 |
| Sketch-map showing position of Glacial Mound in Glen Fruin | 417 |
| General aspect of the mound in Glen Fruin | 417 |
| Yorkshire Earthquake, June 25, 1890 | 451 |
| Colour-Markings on <i>Waldheimia perforata</i> | 459 |
| <i>Pleuromutilus nodoso-carinatus</i> , Römer, sp. | 481 |
| Section in Cliff of Glacial Drift at Nevin, Carnarvonshire | 488 |
| Loop of <i>Athyris læviuscula</i> , Sow., sp. | 496 |
| Charles Smith Wilkinson, F.G.S., F.L.S. | 572 |



Sam Woodward

Frontispiece to the GEOLOGICAL MAGAZINE, DEC. III. VOL. VIII. No. 1, for January, 1891.