THE

GEOLOGICAL MAGAZINE;

OR.

Monthly Journal of Geology:

WITH WHICH IS INCORPORATED

"THE GEOLOGIST."

NOS. XXXI. TO XLII.

EDITED BY

HENRY WOODWARD, F.G.S., F.Z.S.

HONORARY MEMBER OF THE GEOLOGICAL SOCIETIES OF GLASGOW AND NORWICH; CORRESPONDING MEMBER OF THE NATURAL HISTORY SOCIETY OF MONTREAL.

ASSISTED BY

PROFESSOR JOHN MORRIS, F.G.S., &c., &c.

AND

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

VOL. IV.

JANUARY-DECEMBER, 1867.

LONDON:

TRÜBNER & Co., 60, PATERNOSTER ROW.

CH. DELEGRAVE ET CIE, 78, RUE DES ECOLES, PARIS.

LEIPSIC: F. A. BROCKHAUS.

TURIN & FLORENCE: H. LOESCHER. NEW YORK: LEYPOLDT & HOLT.

1867.

HERTFORD:
PRINTED BY STEPHEN AUSTIN.

LIST OF PLATES.

PLATES						PAG
I. II.	Sketches to illustrate Mr. A. B. Wynne's paper on	Den	ıuda	atic	n	
III. IV.	Cochliodonts					5
V.	Acanthopholis horridus, Chalk Marl, Folkestone					6
VI.	Cycadean Fruits from the Secondary Rocks					10
VII.	Lower Silurian Graptolites	•				11
VIII.	Squalodon Wilkinsonii; Aroideous Fruit from	he	Sto	nes	3-	
	field Slate					14
IX.	Cycadean stem from Leighton Buzzard					19
Х.	The Terraces on the Fraser River					20
XI.	Graptolites from Dumfriesshire					25
XII.	Glacial action near Llandudno; New Trilobites	fron	n N	ort	h	
						29
XIII.	Wales					29
XIV.	Syringothyris from North America and Belgium					31
XV.	Banded and Brecciated Concretions					33
XVI.	Recent and Carboniferous Chitonidæ					34
	English and Canadian Palæozoic Insect-remains					38
	Railway Geology from Exeter to Newton-Bushel					39
	New species of Brachiopoda from Upware					45
XX.	Rock Veins		Ċ			48
XXL	Goniocypoda Edwardsi, H. Woodward	Ċ	Ī	•		52
,,	Necrozius Bowerbankii, A. Milne Edwards					53
	LIST OF WOODCUTS.					
Section a	across the Eglwysegle Rocks, near Tan-y-Castell					1
	Corndensis, Ogygia scutatrix, Asaphus tyrann				a	
	uta					1
Section 1	from Stevenage Cutting to Hitchin Station					3
	from Milton, near Gravesend, to Ratley Hill Woo					3
	on the River Indus, near Sukkur Pass, Upper Sci					4
	lock and Light-house, coast of Cork					8
	to show the relative ages of the Boulder-clays in t					
Con	nties					9
Dia <i>g</i> ram	nties	•		•	•	10
Diagram	of Head-plates of Cheirolepis	•		Ť	48	
Diagram	to illustrate the Geology of South Bedfordshire	•	•		- ∪,	15
Section 4	of Nullaberg, in Wermland, Sweden	•	•	•	•	16
Faults is	Drift-sand at Rochdale	•	•	•	*	18
Section (of about eight feet of the upper part of Uphall B	riol-	· ·fic	1d a		TC
	d					19
11101						12

Diagram of the Glacial Terraces at the Fork of the Yangma Valley.	208
Sand and Clay Pocket, about 180 feet in diameter, in Mountain	
Limestone, near Longrake Mine, Halkin Mountain, Flintshire.	242
Sand and Clay pit, Bwlch Farm, near Nannerch, Flintshire	242
Supposed general arrangement of Pocket, containing sand and clay	
in Mountain Limestone, Bwlch Farm, near Nannerch	243
Clay Pocket, Pant-du, near Llanberris	245
Sand and Clay Pocket, Caldon Hill Limestone Quarry, Weaver Hills	24 8
Section of Weaver Hills, North Staffordshire	249
White Clays, Sands, and Pebble-beds overlain by Glacial Till, Ribden	
Pit, Weaver Hills	250
Section showing the general structure of the country near the	
Phosphate-bed, north-west of Llanfyllin	251
Section of Strata at Cwmgwynnen Mine, north-east of Llanfyllin	252
Diagrams of the north and south entrances to Kent's Cavern	298
Plan of the Coygan Cave near Laugharne, Carmarthenshire	308
Profile of Cliff, looking towards the mouth of Glen-car	345
Land-slip at the Protestant's Rocks, on the south side of Glen-car,	
Sligo	346
Section at Ingleton	348
Section at Horton, in Ribblesdale	34 8
Section at Crummack	351
Tarn Close Quarry in the Carboniferous Limestone, near Ulverstone	403
Section of an Escarpment on the supposition that it is an old cliff .	485
Rough outline of the form of part of the Chalk-ridge in the Isle of	
Purbeck	486
Section showing the relation of the Chalk-cliff and the Chalk-escarp-	
ment in the Isle of Wight	489
New species of Mollusca from the Caribean Miocene Deposits	500
Cliff at Pen Morfa, Great Orme's Head	534
Section of Cliff, about twenty yards from its commencement at Pen	-
Morfa	535
Section from Afon Eden to Blaenau, five miles north-east from Dolgelly	537
	549
Section of Tern Valley	564
MOODING MOTIVE AND AMOUNT AND A MONTH AND	001
· · · · · · · · · · · · · · · · · · ·	
MAP.	