# GEOLOGICAL MAGAZINE

Edited by

R. H. RASTALL and O. M. B. BULMAN

#### assisted by

PROFESSOR W. S. BOULTON
PROFESSOR W. G. FEARNSIDES
PROFESSOR LEONARD HAWKES
HENRY WOODS
PROFESSOR O. T. JONES
PROFESSOR C. T. JULEY

#### CONTENTS

			PAGE
RASTALL, R. H., and HEMINGWAY, J. E. The Yorkshire Dogger			201
WILLIAMS, A. New Lower Ordovician Brachiopods from the Ll	ande	ilo-	
Langadock District			226
ANDERSON, J. G. C. The Gare Loch Re-advance Moraine.			239
KING, L. The Pediment Landform: Some Current Problems			245
MACKENZIE, W. S. Kyenite-Gneiss within a Thermal Aureole			251
SABINE, P. A. The Source of Some Erratics from North	-Fast	ern	
Northamptonshire and adjacent parts of Huntingdonshire			255

#### CORRESPONDENCE

Palaeogeography of the Midlands, 260; Salt Tectonics and a Possible Igneous Analogy, 261; The Origin of Red Sandstones and Conglomerates, 261; Authigenic Felspar in Fuller's Earth, 262; Revised Nomenclature for Yorkshire Estuarine Series, 263; An International Secretariat for Sedimentary Petrology, 263.

#### **REVIEWS**

p. 264

STEPHEN AUSTIN & SONS, LTD.

1 FORE STREET, HERTFORD, HERTS

SUBSCRIPTION 30/- PER ANNUM

#### GEOLOGICAL MAGAZINE

founded in 1864

by the late Dr. H. Woodward, F.R.S., with which is incorporated

### THE GEOLOGIST

(founded 1858)

Published every two months, price 30/- per annum (single numbers, 6/-).

Subscriptions for 1949, inquiries relating to back stock, advertising, etc., should be sent to Stephen Austin & Sons, Ltd., Fore Street, Hertford, Herts.

## Instructions to Contributors.

Articles submitted for publication in the Geological Magazine should be addressed to the Editors at the Sedgwick Museum, Cambridge, not to the Publishers.

Manuscripts should be typewritten, double-spaced, and preferably with a wide margin, and should be carefully revised; they should be as concise as possible, and in no case should an article exceed 10,000 words. MS. must be accompanied by a short abstract, 50-100 words. References should not be given in footnotes, but arranged in alphabetic order of author's names at the end of the article; the author's name should be followed by date of publication, and the title of each paper should be given in addition to volume and page numbers of the Journal, thus:—

Lapworth, C. 1878. The Moffat Series. Quart. Journ. Geol. Soc., xxxiv, 240-343.

References should be cited in the text by author's name and date, with page reference if necessary, in brackets:—(Lapworth, 1878, p. 339).

Illustrations should be so drawn as to allow reduction to a maximum size of  $6\frac{3}{4} \times 3\frac{3}{4}$  inches (the type-area of the Magazine) and originals must not exceed  $40 \times 22$  inches. Map lettering should be such as to be clearly legible after reduction (equivalent to 5-point as a *minimum* on reduction), while lettering on text-figures should in general be left in pencil for printing.

Authors will receive 25 reprints free of cost.

# GEOLOGICAL MAGAZINE

with which is incorporated

#### THE GEOLOGIST

Founded in 1864 by the late Dr. Henry Woodward, F.R.S.

Edited by

R. H. RASTALL, M.A., Sc.D.

and

O. M. B. BULMAN, Ph.D. A.R.C.Sc., F.R.S.

assisted by

PROFESSOR W. S. BOULTON, D.Sc. PROFESSOR W. G. FEARNSIDES, M.A., F.R.S. PROFESSOR LEONARD HAWKES, D.Sc. PROFESSOR O. T. JONES, M.A., D.Sc., F.R.S. PROFESSOR W. J. PUGH, O.B.E., D.Sc. PROFESSOR C. E. TILLEY, Ph.D., F.R.S. HENRY WOODS, M.A., F.R.S.

Vol. LXXXVI of Whole Series
JANUARY—DECEMBER, 1949

STEPHEN AUSTIN & SONS, LTD 1 FORE STREET, HERTFORD, HERTS

## HERTFORD

STEPHEN AUSTIN AND SONS, LTD.

# CONTENTS OF VOLUME LXXXVI, 1949

No. 1	January-February				
Britain, 19	948		Eighteenth	Session—Great	1 36
F. W. COPE. Crozzle and Hussle					
JAMES M. EDM Trilobites	ONDS. Types in the Unive	and figured are sity Museur	specimens of I m. Oxford	Lower Palaeozoic	43 57
J. E. Hemingy Middle Ju Corresponden "Magma- Trias in the	way. A Rev rassic Rocks sce.—Index F	vised Termir of Yorkshire Foraminifera On the so Studies in t	ology and Su of the Chalk	nbdivision of the , 71; The Term norphism of the nplex—The Base	67
Reviews.—Erc the Count 75; Symp graphs by of Celebes 77; Mala 78; Struc 78; The	uptive Rocks, try Around V posium of Inf Geologists, 5, 76; The Gyan Union, 7 tural Geology Coast of Nover.—University	74; The St Veymouth, St Formation Ref 76; Geolog eology of Ut 8; Emanuel y of Canadiar rtheast Green	wanage, Corfelative to uses ical Exploration Exploration (Exploration Exploration (Exploration Core Deposits Inland, 80.	75; Geology of e, and Lulworth, of Aerial Photoons in the Island l, W. Greenland, iss der Geologie,—A Symposium, niversity Lectures	
No. 2	• .	March-	April		
in Skye RHONA M. M Aline . K. S. SANDFOR R. H. RASTALI L. M. DAVIES. M. CASIMIR a Dicq Roci HARRELL L. SI Descriptio CORRESPONDEN 128; An Yoredale REVIEWS.—Pro Upwelling 131; Klo Mineral I	RD. Notes on L. Accuracy in Ranikothalia of Frederick, Jersey, C.I. TRIMPLE. Evo on of Stuartwe NCE.—The Ori Occurrence Limestones, 1 ocedure in Water to Veckmann's Leboenosits, 131	A Starfish of the Nile Valin Geologica in East and K. A. Henso delibercrinus arigin of Red S of Authig 129; The Te Taxonomy, Vertebrate Parbuch der M: Sequence	from the Glassilley in Berber I Place-names West Indies. Dyke Pholocrinus to Pagentinei sp. no andstones and enic Felspar m "Magma-131; The aleontology at lineralogie, 13 in Layered R	and Dongola  tenomena of the radelocrinus, and w  and Quartz in type ", 130. Importance of nd Oil Geology, 1; Minerals and ocks, 132; The eful Aspects of	81 94 97 110 113 117
Geology,	135; Geolog	gy, 136.			
No. 3 E. Sherbon H	ILLS. Shore I	May–Jı Platforms	JNE		137
ISLES STRACHA	NN. On the C	Genus <i>Coryno</i> Lower Ordo	vician Brachi	iopods from the	153
Llandeilo- F. G. H. BLYT	Liangadock I H. A "Luxu	District . llianite " from Cox An El	m East Dartm	oor	161 175
C:4h			ariy List of S		180

vi Contents

Baron Friedrich von Huene. Classification and Phylogeny of the Tetrapods	PAGE 189
Sites, 196.  Reviews.—Physical Geology, 197; Geology and Scenery of the Countryside round Leeds and Bradford, 197; Deep Boring through Ordovician and Silurian Strata at Kinnekulle Vestergotland, 197.	
No. 4 July-August	
R. H. RASTALL and J. E. HEMINGWAY. The Yorkshire Dogger A. WILLIAMS. New Lower Ordovician Brachiopods from the Llandeilo- Llangad ck District J. G. C. Ar RSON. The Gare Loch Re-advance Moraine. L. King. Pediment Landform: Some Current Problems W. S. Mackenzie. Kyanite-Gneiss within a Thermal Aureole P. A. Sabine. The Source of Some Erratics from North-Eastern Northamptonshire and adjacent parts of Huntingdonshire. Correspondence.—Palaeogeography of the Midlands, 260; Salt Tectonics and a Possible Igneous Analogy, 261; The Origin of Red Sandstones and Conglomerates, 261; Authigenic Felspar in Fuller's Earth, 262; Revised Nomenclature for Yorkshire Estuarine Series, 263; An International Secretariat for Sedimentary Petrology, 263.	201 226 239 245 251 255
REVIEWS.—A Textbook of Geomorphology, 264; Introduction to Historical Geology, 264.	
No. 5 September-October	
<ul> <li>R. H. RASTALL and J. E. HEMINGWAY. The Yorkshire Dogger.</li> <li>F. C. PHILLIPS. Lineation in Moinian and Lewisian Rocks of the Northern Highlands of Scotland.</li> <li>A. HOLMES. The Age of Uraninite and Monazite from the Post-Delhi Pegmatites of Rajputana.</li> <li>O. T. JONES. Hilt's Law and the Volatile Contents of Coal Seams.</li> <li>A. LAMONT. New Species of Calymenidae from Scotland and Ireland Correspondence.—Magma Types, 324; East Anglian Drifts, 324.</li> <li>REVIEWS.—Geology of the Northern Pennine Orefield, 325; A Study of the Structure, Classification, and Relationships of the Palaeozoic Arachnida, 326; The Geology of the British Empire, 327; Petrology of the Northampton Sand Ironstone Formation, 328; The Geology of Lincolnshire, 328; Les Graptolithes et Quelques Nouveaux Groupes d'Animaux du Tremadoc de la Pologne, 329.</li> <li>NO. 6</li> </ul>	265 279 288 303 313
- · · · · · - · · - · · · · · · · · · ·	333
R. CASEY. The Ammonite Genus Uhligella in the English Albian O. T. Jones. Hilt's Law and the Volatile Contents of Coal Seams W. F. WHITTARD. Geology of the Aust-Beachley District, Gloucestershire J. B. SCRIVENOR. The Lizard-Start Problem CORRESPONDENCE.—Photographic Prints from Cellulose-Acetate Transparencies, 387; Borehole Sections at Roseneath and Row, 388.	333 346 365 377
REVIEWS.—Landscape as Developed by the Processes of Normal Erosion, 388; The Geology of Water Supply, 388; The Middle Silurian Rocks of North Wales, 389; Federation of Malaya: Report on the Geological Survey Department for the year 1948, 390; Structural History of the East Indies, 390.  INDEX.—391.	