

# GEOLOGICAL MAGAZINE

Edited by

O. M. B. BULMAN and S. R. NOCKOLDS

assisted by

PROFESSOR W. S. BOULTON

PROFESSOR O. T. JONES

PROFESSOR W. G. FEARNSIDES

W. J. PUGH

PROFESSOR LEONARD HAWKES

PROFESSOR C. E. TILLEY

HENRY WOODS

## CONTENTS

	PAGE
PHILLIPS, F. C. Apparent Coincidences in the Life-history of the Moine Schists	225
CARTER, D. J. Indigenous and Exotic Foraminifera in the Coralline Crag of Sutton, Suffolk	236
JOHNSON, R. J., and MCCONNELL, R. B. Notes on the Geology of the Northern Part of the Ruwenzori Mountains	249
KENNEDY, W. Q. Sedimentary Differentiation as a Factor in the Moine-Torridonian Correlation	257
CONYBEARE, C. E. B. On the Significance of Metamorphosed Calcareous Concretions in Lower Birrimian Schists of the Gold Coast	267
GLAESSNER, M. F. Three Foraminiferal Zones in the Tertiary of Australia	273
NICHOLLS, G. D. An Unusual Pyroxene-rich Xenolith in the Diorite of the Glenelg-Ratagain Igneous Complex	284

## CORRESPONDENCE

Further Remarks on <i>Platycalymene</i> and the Segmental Relations of Trilobite Eyes	295
Rhythmic Layering in the Ultrabasic Rocks of Rhum	296
Wall Grange Brickyard, Staffs	297
Red Sea Rifting	298
Scourie Dykes and Laxfordian Metamorphism	299

## REVIEWS

pages 302-4

STEPHEN AUSTIN & SONS, LTD.

1 FORE STREET, HERTFORD, HERTS

SUBSCRIPTION 32/6 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 32/6 per annum  
(single numbers, 7/6).

---

Subscriptions for 1950, 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  $6\frac{1}{2} \times 3\frac{3}{4}$  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.

THE  
GEOLOGICAL MAGAZINE

VOL. LXXXVIII OF WHOLE SERIES

JANUARY—DECEMBER, 1951

# GEOLOGICAL MAGAZINE

with which is incorporated

## THE GEOLOGIST

FOUNDED IN 1864 BY THE LATE DR. HENRY WOODWARD, F.R.S.

Edited by

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

and

S. R. NOCKOLDS, Ph.D.

*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.  
W. J. PUGH, O.B.E., D.Sc., F.R.S.  
PROFESSOR C. E. TILLEY, Ph.D., F.R.S.  
HENRY WOODS, M.A., F.R.S.

Vol. LXXXVIII of Whole Series  
JANUARY—DECEMBER, 1951

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

**HERTFORD**  
**STEPHEN AUSTIN AND SONS, LTD.**



REVIEWS.—République Syrien : Carte Géologique au 50,000 Feuille de Zebdani, 220 ; République Libanaise : Carte Géologique au 50,000 Feuille de Djezzine, Feuille de Rayak. Carte Géologique au 200,000, Feuille de Tripoli, 220 ; Las Rocas Eruptivas al Microscopia : Su Sistemática y su Nomenclatura, 227 ; Survey of Egypt : Survey Department Papers, 221 ; A Revision of Fossil Sequoia and Taxodium in Western North America Based on the Recent Discovery of Metasequoia, 222 ; The Geology of the Commonwealth of Australia, 222 ; Petroleum Geology, 224.

## No. 4

## JULY–AUGUST

- F. C. PHILLIPS. Apparent Coincidences in the Life-history of the Moine Schists 225  
 D. J. CARTER. Indigenous and Exotic Foraminifera in the Coralline Crag of Sutton, Suffolk 236  
 R. J. JOHNSON and R. B. MCCONNELL. Notes on the Geology of the Northern Part of the Ruwenzori Mountains 249  
 W. Q. KENNEDY. Sedimentary Differentiation as a Factor in the Moine-Torridonian Correlation 257  
 C. E. B. CONYBEARE. On the Significance of Metamorphosed Calcareous Concretions in Lower Birrimian Schists of the Gold Coast 267  
 M. F. GLAESSNER. Three Foraminiferal Zones in the Tertiary of Australia 273  
 G. D. NICHOLLS. An Unusual Pyroxene-rich Xenolith in the Diorite of the Gleneig-Ratagain Igneous Complex. 284  
 CORRESPONDENCE.—Further Remarks on *Platycalymene* and the Segmental Relations of Trilobite Eyes, 295 ; Rhythmic Layering in the Ultrabasic Rocks of Rhum, 296 ; Wall Grange Brickyard, Staffs, 297 ; Red Sea Rifting, 298 ; Scourie Dykes and Laxfordian Metamorphism, 299.  
 REVIEWS.—Structural Petrology of Deformed Rocks, 302 ; Coal Mining, 302 ; Grundlagen und Methoden der Paläontologischen Chronologie, 303 ; Nonmetallic Minerals, 304.

## No. 5

## SEPTEMBER–OCTOBER

- W. J. ARKELL. A Search for the Alleged Sinemurian in the Wadi Araba, Eastern Desert of Egypt 305  
 — Note on the Alleged Purbeckian at Murzuch, Fezzan, Libya 315  
 O. M. B. BULMAN. Notes on Thecal Variation in *Monograptus* 316  
 A. G. DAVIS and G. F. ELLIOTT. The London Clay of Coastal Suffolk and Essex 329  
 G. H. DRURY. Quantitative Measurement of Available Relief and of Depth of Dissection 339  
 D. F. W. BADEN-POWELL. The Age of Interglacial Deposits at Swanscombe 344  
 G. ARMSTRONG and J. KELL. The Tyne Tunnel 357  
 L. R. COX. The Lamellibranch Genus *Schizodus* and Other Palaeozoic Myophoriidae 362  
 CORRESPONDENCE.—Type Species of the Ostracod *Rhombina*, 371 ; The Moine Schists, 371.  
 REVIEWS.—Paléontologie, 372 ; Die Eisen- und Manganerze der Schweiz, 372 ; Introduction to Theoretical Igneous Petrology, 372 ; Principles of Geology, 373 ; Kayser's Abriss der Geologie 373 ; A Manual of the Geology of India and Burma, 374 ; Silicate Analysis, 375 ; Petroleum Geology, 376.

No. 6	NOVEMBER—DECEMBER	PAGE
K. A. DAVIES. The Uganda Section of the Western Rift . . . . .		377
W. MYKURA. The Age of the Malvern Folding . . . . .		386
W. T. HARRY. The Glen Dessarry Marble and its Associated Calc-Silicate Rocks . . . . .		393
T. M. THOMAS. Some Unusual Structures in Rhaetic Sandstones, near Cowbridge, Glamorgan . . . . .		404
L. STØRMER. A New Eurypterid from the Ordovician of Montgomeryshire, Wales . . . . .		409
S. J. SHAND. Mylonite, Slickensides, and the Great Glen Fault . . . . .		423
B. SCOTT. Note on the Occurrence of Intergrowth between Diopsidic Augite and Albite and of Hydrogrossular from King Island, Tasmania . . . . .		429
P. MARTIN-KAYE. Sorting of Lamellibranch Valves on Beaches in Trinidad, B.W.I. . . . .		432
J. A. STEERS. Notes on Erosion Along the Coast of Suffolk . . . . .		435
CORRESPONDENCE.—Further Renaming of the Tremadoc Trilobite Genus <i>Psilocephalus</i> Salter, 440 ; A Signpost Memorial to William Smith, 441 ; Silicate Analysis, 441 ; Old Red Sandstone of Portsalon, 441 ; Doubt and Certainty in Science, 442.		
REVIEWS.—Proceedings of the Fourth Empire Mining and Metallurgical Congress, 1949, 442 ; Optical Crystallography, 443 ; The Geology and Mineral Resources of the Fraser's Hill Area, Selangor, Perak, and Pahang, 443 ; Practical Oil Geology, 444.		
INDEX.—445.		