

GEOLOGICAL MAGAZINE

Edited by

O. M. B. BULMAN, S. R. NOCKOLDS, and
W. B. HARLAND

assisted by

PROFESSOR W. G. FEARNSIDES PROFESSOR O. T. JONES
PROFESSOR LEONARD HAWKES SIR WILLIAM PUGH
PROFESSOR C. E. TILLEY

CONTENTS

	PAGE
WESTERMANN, G. E. G. The Significance of Septa and Sutures in Jurassic Ammonite Systematics	441
ROTHSTEIN, A. T. V. Pyroxenes from the Dawros Peridotite and some comments on their nature	456
BUIST, D. S. The Bostonite of Rudh'a' Chromain, Carsaig, Mull.	463
FORBES, C. L., W. B. HARLAND, and N. F. HUGHES. Palaeontological Evidence for the Age of the Carboniferous and Permian Rocks of Central Vestspitsbergen	465
POTONIÉ, ROBERT. Views on Spore Nomenclature	491
KNILL, J. L., and D. C. KNILL. Some Discordant Fold Structures from the Dalradian of Craignish, Argyll, and Rosguill, Co. Donegall	497

CORRESPONDENCE

pp. 511-513

REVIEWS

p. 514

PUBLICATIONS RECEIVED

pp. 515-516

STEPHEN AUSTIN & SONS, LTD.

CAXTON HILL, WARE ROAD, HERTFORD, HERTS

SUBSCRIPTION 45/- PER ANNUM

THE
GEOLOGICAL MAGAZINE

VOL. XCV OF WHOLE SERIES

JANUARY-DECEMBER, 1958

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, Sc.D., A.R.C.Sc., F.R.S.,

S. R. NOCKOLDS, Ph.D.,

and

W. B. HARLAND, M.A.

assisted by

PROFESSOR W. G. FEARNSIDES, M.A., F.R.S.

PROFESSOR LEONARD HAWKES, D.Sc., F.R.S.

PROFESSOR O. T. JONES, M.A., D.Sc., F.R.S.

PROFESSOR SIR WILLIAM PUGH, O.B.E., D.Sc., F.R.S.

PROFESSOR C. E. TILLEY, Ph.D., F.R.S.

Vol. XCV of Whole Series

JANUARY—DECEMBER, 1958

STEPHEN AUSTIN & SONS, LTD.

CAXTON HILL, WARE ROAD, HERTFORD, HERTS

Stephen Austin & Sons Ltd
ORIENTAL AND GENERAL PRINTERS
MILTFORD - BATH

CONTENTS OF VOLUME XCV, 1958

No. 1	JANUARY-FEBRUARY	PAGE
R. NEVES. Upper Carboniferous Plant Spore Assemblages from the <i>Gastrioceras subvenatum</i> Horizon, North Staffordshire		1
W. E. NEVILL. A Note on the Occurrence of Coal Measures in Eastern County Limerick, Ireland		20
G. H. FRANCIS. The Amphibolite of Doir'a'Chatha (Durcha), Sutherland		25
N. F. HUGHES. Palaeontological Evidence for the Age of the English Wealden		41
N. J. SNELLING. Further Data on the Petrology of the Saxa Vord Schists of Unst, Shetland Isles		50
D. H. MACKENZIE. The Structure of the Grantown Granite Complex, Morayshire		57
A. HALLAM. A Cambro-Ordovician Fauna from the Hecla Hoek Succession of Ny Friesland, Spitsbergen		71
D. G. JONES. A note on new Namurian Plant localities at the head of the Neath Valley, South Wales		77
CORRESPONDENCE.—A Use for Acetic Acid in the Study of Fossil Sponges, 82 ; On some Turkish Sediments, 83 ; Recent Marine Deposits near Basrah, 84 ; Namurian Stage Names, 85.		
REVIEWS.—Glacial and Pleistocene Geology, 86 ; Mio-Pliocene Floras from West-Central Nevada, 87 ; Fossilium Catalogus II : Plantae, 87 ; A Treatise on Limnology, 87 ; Lehrbuch der Tektonischen Geologie, 88.		
No. 2	MARCH-APRIL	
W. B. HARLAND and M. B. BAYLY. Tectonic Regimes		89
R. TAVENER-SMITH. The Development of the Mid-Zambezi Valley in Northern Rhodesia since Early Karroo Times		105
P. F. HUTCHINS. Devonian Limestone Pebbles in Central Devon		119
C. A. COTTON. Alternating Pleistocene Morphogenetic Systems		125
A. A. DAY. The Pre-Tertiary Geology of the Western Approaches to the English Channel		137
S. MOORBATH, S. R. TAYLOR, and B. G. J. UPTON. Age of Zircon from the Kunait Syenite Complex, South-West Greenland		149
C. L. FORBES, K. A. JOYSEY, and R. G. WEST. On Post-Glacial Pelicans in Britain		153
R. W. HEY. High-level Gravels in and near the Lower Severn Valley		161
CORRESPONDENCE.—On Some Turkish Rocks, 169 ; Antidunes and Flame Structures, 169 ; Load-cast Structures, 171 ; Igneous Rocks at Gorei, Shilemadu Range, British Somaliland, 172.		
REVIEW.—Mesures Gravimétriques et Magnétiques dans la Partie Centrale de l'A.O.F., 174.		
PUBLICATIONS RECEIVED.—176.		

No. 3	MAY-JUNE	PAGE
R. St. J. LAMBERT. A Metamorphic Boundary in the Moine Schists of the Morar and Knoydart Districts of Inverness-shire		177
P. STONE and G. M. BROWN. The Quihita-Cunene Layered Gabbroic Intrusion of South-west Angola		195
A. WILLIAMS. Oblique-Slip Faults and Rotated Stress Systems		207
D. E. B. BATES and W. SCHWARZACHER. The Geology of the Land between Ekmanfjorden and Dicksonfjorden in Central Vest-spitsbergen		219
A. J. SMITH and N. RAST. Sedimentary Dykes in the Dalradian of Scotland		234
I. G. GASS. Ultrabasic Pillow Lavas from Cyprus		241
I. MCDUGALL and R. GREEN. The Use of Magnetic Measurements for the Study of the Structure of Talus Slopes		252
CORRESPONDENCE.—The Carboniferous Upland Flora, 261.		
NOTICE.—University of New England, Armidale, N.S.W., 262.		
PUBLICATIONS RECEIVED.—262.		
REVIEWS.—Die Geotektonische Entwicklung des Apennin-Systems, 263 ; Studies on Fossil Vertebrates, 263 ; Phreatophytes, 264 ; Fossilium Catalogus II : Plantae, 264.		
No. 4	JULY-AUGUST	
M. S. RAO. Composite and Multiple Intrusions of Lamlash-Whiting Bay Region, Arran		265
B. E. LEAKE. Composition of Pelites from Connemara, Co. Galway, Ireland		281
A. N. CARTER. Pelagic Foraminifera in the Tertiary of Victoria		297
C. B. WILSON. The Lower Middle Hecla Hoek Rocks of Ny Friesland		305
H. C. SQUIRRELL. New Occurrences of Fish Remains in the Silurian of the Welsh Borderland		328
T. N. CLIFFORD. A note on kyanite in the Moine Series of Southern Ross-shire, and a review of related rocks in the Northern Highlands of Scotland		333
R. GRADWELL. Post-Tectonic Granite-Gabbro Complexes in South-eastern Queensland		347
CORRESPONDENCE.—The Evolutionary Plexus, 351 ; Development of Lineation in Complex Fold Systems, 351.		
No. 5	SEPTEMBER-OCTOBER	
B. P. RUXTON. Weathering and Surface Erosion in Granite at the Piedmont Angle, Balos, Sudan		353
D. L. REYNOLDS. Granite : Some Tectonic, Petrological, and Physico-Chemical Aspects		378
F. M. BROADHURST and R. A. HOWIE. On the Occurrence of Ankerite in a Band of Non-Marine Lamellibranchs from the Lancashire Coal Measures		397
I. D. MUIR and C. E. TILLEY. The Compositions of Coexisting Pyroxenes in Metamorphic Assemblages		403
J. G. LAFUSTE. Note on the Structure and Microstructure of <i>Thecia swinderniana</i> (Goldf.)		409

	PAGE
R. G. S. HUDSON. The Upper Jurassic Faunas of Southern Israel	415
CORRESPONDENCE.—The Evidence for Cosmic Upward Pull in Mountain and Land Uplift, 426 ; Ultrabasic Pillow Lavas from Cyprus, 436 ; Pelagic Foraminifera in the Tertiary of Victoria, 438 ; Development of Lineation in Complex Fold Systems, 439 ; Derived Ammonites in Basal Cretaceous Conglomerate, 440.	

No. 6

NOVEMBER—DECEMBER

G. E. G. WESTERMANN. The Significance of Septa and Sutures in Jurassic Ammonite Systematics	441
A. T. V. ROTHSTEIN. Pyroxenes from the Dawros Peridotite and some comments on their nature	456
D. S. BUIST. The Bostonite of Rudh'a' Chromain, Carsaig, Mull	463
C. L. FORBES, W. B. HARLAND, and N. F. HUGHES. Palaeontological Evidence for the Age of the Carboniferous and Permian Rocks of Central Vestspitsbergen	465
R. POTONÉ. Views on Spore Nomenclature	491
J. L. KNILL and D. C. KNILL. Some Discordant Field Structures from the Dalradian of Craignish, Argyll, and Rosguill, Co. Donegal	497
CORRESPONDENCE.—Picrite, 511 ; Dimensions of Asymmetrical Folds, 511 ; African Erosion Surfaces, 513.	
REVIEWS.—Fossil Men : A Textbook of Human Palaeontology, 514 ; Man's Journey through Time : A first step in Physical and Cultural Anthropology, 514.	
PUBLICATIONS RECEIVED.—515.	
INDEX.—517.	