

THE
GEOLOGICAL MAGAZINE.

VOL. LXXII OF WHOLE SERIES.

JANUARY—DECEMBER, 1935.

THE
GEOLOGICAL MAGAZINE

OR
Monthly Journal of Geology.

WITH WHICH IS INCORPORATED
THE GEOLOGIST.

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

EDITED BY
R. H. RASTALL
AND
O. M. B. BULMAN.

ASSISTED BY
PROFESSOR W. S. BOULTON, D.Sc.
SIR T. H. HOLLAND, K.C.S.I., D.Sc., F.R.S.
PROFESSOR O. T. JONES, M.A., D.Sc., F.R.S.
PROFESSOR W. W. WATTS, Sc.D., LL.D., M.Sc., F.R.S.
HENRY WOODS, M.A., F.R.S.
SIR ARTHUR SMITH WOODWARD, LL.D., F.R.S.

VOL. LXXII OF WHOLE SERIES.
JANUARY--DECEMBER, 1935.

LONDON:
DULAU & CO., LTD.,
2 STAFFORD STREET, OLD BOND STREET, W.1.
1935.

HERTFORD
STEPHEN AUSTIN AND SONS, LTD.

CONTENTS OF VOLUME LXXII, 1935.

| No. 847. | JANUARY. | PAGE |
|---|----------|------|
| F. J. TURNER and C. O. HUTTON. Stilpnomelane and Related Minerals in Western Otago | | 1 |
| W. F. HUME, H. F. HARWOOD, and L. S. THEOBALD. Analyses of Egyptian Rocks (with petrographical notes by A. I. Awad) | | 8 |
| F. R. C. REED. Triassic Lamellibranchs from Brazil and Paraguay | | 33 |
| E. S. COBBOLD. A Middle Cambrian <i>Hyalithellus</i> from Comley | | 43 |
| REVIEWS.—Geology of the Country between Springs and Bethal, 45; Crystals and the Polarizing Microscope, 45; Leeds Geological Association, 46; Useful Aspects of Geology, 46; Minerals of the French Colonies, 47; Geological Model of Ardnamurchan, 47. | | |
| CORRESPONDENCE.—S. E. Hollingworth, 48. | | |

| No. 848. | FEBRUARY. | |
|---|-----------|----|
| F. WALKER and C. F. DAVIDSON. Marginal and Contact Phenomena of the Dorback Granite | | 49 |
| R. G. LEWIS. Influence of Earth Movements on Climate | | 64 |
| J. G. C. ANDERSON. The Dalradian Succession in the Pass of Brander, Argyll | | 74 |
| S. ELDER. Comparison of Three Scottish Magmas | | 80 |
| S. J. SHAND. An Olivine-Trachyte from Auvergne | | 86 |
| J. P. T. BURCHELL. Glacial Episode of the Lower Thames | | 90 |
| F. JONES. The Occurrence of Markfieldite at Nuneaton | | 91 |
| REVIEWS.—Geology of Uganda, 93; Chromite Deposits of Newfoundland, 94. | | |
| REPORTS AND PROCEEDINGS.—Geological Society, 94; Mineralogical Society, 95. | | |
| CORRESPONDENCE.—P. Jessop, 96. | | |

| No. 849. | MARCH. | |
|--|--------|-----|
| G. A. JOPLIN. A Diorite-Limestone Reaction at Ben Bullen, N.S.W. | | 97 |
| A. J. BUTLER. On the Silurian Coral <i>Cyathaxonia siluriensis</i> M'Coy | | 116 |
| R. H. RASTALL and J. E. HEMINGWAY. The Petrography of the Blea Wyke Series | | 125 |
| E. J. DUNN. Australites | | 139 |
| G. S. BLAKE. On the Occurrence of Marine Miocene in Palestine | | 140 |
| REVIEWS.—Geology of the Baltic, 142; Geologic Structures, 142. | | |
| CORRESPONDENCE.—E. W. Berry, 143; E. S. Cobbold, 144. | | |

Contents.

| No. 850. | APRIL. | PAGE |
|---|--------|------|
| SELWYN TURNER. Gotlandian Vulcanicity in Western Europe | | 145 |
| B. BAILEY. The Glencoul Nappe | | 151 |
| H. SIMPSON. Marine Band in the Denbighshire Coalfield | | 165 |
| T. TRECHMANN. Fossils from the Northern Range of Trinidad | | 166 |
| D. THOMAS. Some Sponges and a Coral from Trinidad | | 175 |
| HANSON-LOWE. The Clinographic Curve | | 180 |
| F. SPATH. <i>Trigonia</i> from the Jurassic Rocks of Kachh | | 184 |
| VIEWS.—Geology of Libya, 189; Stegocephalians and Primitive Reptiles, 190. | | |
| REPORTS AND PROCEEDINGS.—Mineralogical Society, 191. | | |
| RESPONDENCE.—S. H. Houghton, 192. | | |
| | | |
| No. 851. | MAY. | |
| WRIGHT. New Crinoids from Caplow Knoll, Clitheroe, with lists of Carboniferous Limestone Crinoid Species | | 193 |
| A. MOY-THOMAS. Coelacanth Fishes from Madagascar | | 213 |
| A. JOPLIN. Origin of Basic Xenoliths in Plutonic Rocks | | 227 |
| VIEWS.—The Geology of Burma, 235; Mineral Resources of Burma, 237; The End of the Palaeolithic, 238. | | |
| RESPONDENCE.—L. C. W. Bonacina, 240. | | |
| | | |
| No. 852. | JUNE. | |
| WOOD. The Origin of Guilielmites | | 241 |
| J. ARKELL. Lower Kimeridgian Ammonites | | 246 |
| HARRISON. The March-Nar Sea | | 257 |
| G. C. ANDERSON. The Arrochar Complex | | 263 |
| VIEWS.—Gemstones, 283; The Ice Age, 283; Geology of Africa, 285; The Sudbury Nickel Irruptive, 285; Glacial Geology of E. Yorks, 287. | | |
| RESPONDENCE.—E. Greenly, 287; F. E. Suess, 288. | | |
| | | |
| No. 853. | JULY. | |
| R. NOCKOLDS. Contributions to the Petrology of Barnavave, Carlingford | | 289 |
| K. S. ST. JOSEPH. Description of <i>Eospirifer radiatus</i> (J. de C. Sowerby) | | 316 |
| P. T. BURCHELL. Pleistocene Deposits at Kirmington and Crayford | | 327 |
| VIEWS.—Petrography of Igneous Rocks, 332; Earthquakes and Mountains, 332. | | |
| REPORTS AND PROCEEDINGS.—Mineralogical Society, 333. | | |
| RESPONDENCE.—W. C. Simmons, 335; J. Fowler, 335; G. Vibert Douglas and J. E. Forster, 336. | | |

Contents.

vii

| No. 854. | AUGUST. | PAGE |
|--|---------|------|
| W. H. BARRETT. Mechanical Composition of the Tertiaries near Harrow | | 337 |
| J. T. STARK and F. F. BARNES. Correlation of Granite by Heavy Mineral Analyses | | 341 |
| F. E. ZEUNER. The Pleistocene Chronology of Central Europe | | 350 |
| P. R. THOMPSON. Thermal Contraction, Land Bridges, and Geosynclines | | 377 |
| REVIEW.—Geology of the Orkneys, 381. | | |
| CORRESPONDENCE.—C. N. Fenner, 381; S. J. Shand, 382; A. W. Woodland, 384. | | |

| No. 855. | SEPTEMBER. | |
|---|------------|-----|
| G. A. JOPLIN. The Exogenous Contact-zone at Ben Bullen, N.S.W. | | 385 |
| J. K. S. ST. JOSEPH. Critical Examination of <i>Stricklandia lirata</i> (J. de C. Sow.) <i>forma typica</i> | | 401 |
| H. DIGHTON THOMAS. <i>Tricycloseris</i> , <i>Anabacia</i> , and some new Genera of Hexacoralla | | 424 |
| REVIEW.—Roman Mines in Europe, 430. | | |
| CORRESPONDENCE.—R. G. Lewis, 431; Geological Survey Centenary, 432. | | |

| No. 856. | OCTOBER. | |
|---|----------|-----|
| S. V. SEMICHATOV. The Middle Carboniferous of Russia | | 433 |
| C. W. WRIGHT. The Chalk Rock Fauna in East Yorkshire | | 441 |
| J. A. STEERS. Rate of Sedimentation on a Salt Marsh | | 443 |
| J. A. MOY-THOMAS and T. S. WESTOLL. On <i>Coelacanthus granulatus</i> Ag. | | 446 |
| J. SELWYN TURNER. Dinantian and Namurian Vulcanicity | | 458 |
| S. C. A. HOLMES. The Periproctal Plates of <i>Discoidea</i> | | 470 |
| REVIEWS.—Problems of Petroleum Geology, 479; Mineral Resources of French Colonies, 480. | | |

| No. 857. | NOVEMBER. | |
|---|-----------|-----|
| D. HILL. British Terminology for Rugose Corals | | 481 |
| E. M. KINDLE. Lime-separating Algae from Subarctic Canada | | 519 |
| F. E. S. CALDWELL. A Simple Method of taking Serial Sections. | | 521 |
| REVIEWS.—British Regional Geology, 523; Petrology for Students, 526; The Dorset Coast, 527. | | |
| CORRESPONDENCE.—T. S. Westoll, 528. | | |

| No. 858. | DECEMBER. | PAGE |
|--|-----------|------|
| C. T. TRECHMANN. The Geology and Fossils of Carriacou, West Indies | | 529 |
| E. DIX. Flora of the Highest "Coal Measures" of Warwickshire | | 555 |
| REVIEWS.—Introduction to Palaeontology, 558; Swedish Liasso-Rhaetic Floras, 558; Structural Geology, 560; Brunner Focal Chart, 560. | | |
| REPORTS AND PROCEEDINGS.—Mineralogical Society, 561. | | |
| ANNOUNCEMENTS.—562. | | |
| INDEX.—563. | | |