



## On the rocks, with a twist

**Geology: The Paradox of Earth and Man** serves up the old rocks, waters, and landforms with a new twist. An environmental emphasis.

Keith Young's introduction to geology places environmental problems in a geological context. Articulating the connection between geology and the environment gives students a better understanding of geological principles.

**Geology: The Paradox of Earth and Man** traverses the spectrum of man-made and natural hazards — from water and air pollution, soil depletion, and over-population to volcanoes, earthquakes, and floods. A topical approach shows students how a knowledge of geological principles is essential in making intelligent environmental decisions.

An *Instructor's Manual* accompanies the text, and a complimentary set of twenty 35mm slides, adapted from illustrations in the text, is available to instructors who adopt Keith Young's new introduction to geology.

**Geology: The Paradox of Earth and Man.** It's on the rocks, with a twist.

Try one.



**Houghton Mifflin**

Boston 02107 / Atlanta 30324 / Dallas 75235  
Geneva, Ill. 60134 / Hopewell, N.J. 08525 / Palo Alto 94304

# PHYSICS OF THE EARTH AND PLANETS

A. H. Cook

A clear and systematic account of the observations and arguments on which rest our understanding of the physical nature of the earth, together with a discussion of the principles and problems involved in practical work and a comparison of the earth with other planets.

£8.50 Fully illustrated

# RECENT EARTH HISTORY

Claudio Vita-Finzi

Drawing chiefly on the organic and inorganic record of the last 20,000 years Dr Vita-Finzi argues that quantitative dating should serve as the basis for earth history in its own right, rather than as a mere appendage to stratigraphy.

£3.00 paperback £1.50 18 illustrations

# THE NATURE OF THE STRATIGRAPHICAL RECORD

Derek V. Ager

This commentary on the general pattern of earth history, based on the author's own observations, abandons the usual laborious climb up the stratigraphical column, such as one finds in most text-books, and challenges some of the assumptions limiting the views of many stratigraphers to their own particular areas of interest.

£2.95 28 plates

MACMILLAN

## NOTES FOR CONTRIBUTORS

Contributions for publication should be addressed to The Editors, Geological Magazine, Sedgwick Museum, Downing Street, Cambridge, CB2 3EQ, England.

All contributions, whether articles, correspondence or reviews, must be typed in duplicate on one side of the paper, double spaced throughout, with a wide margin on the left of each page and a narrower margin on the right. Any minor corrections should be made neatly in the typescript, leaving the margins clear.

Articles must be accompanied by a brief summary. Contributions should follow the general style of papers in recent issues of the Magazine and the principles laid down in *Notes to Authors* (*Proc. Geol. Soc. Lond.*, No. 1627. Oct. 1965). Headings should be set out clearly, but not underlined. Primary headings should be in lower case, at margin, with arabic numeral; sub-headings should be numbered 2.a, 2.b, etc., and tertiary headings 2.a.1., 2.a.2. No cross references should be given by page number, but 'above' and 'below' should be used with the section specified, e.g. Section 2.a.1. The total length of a paper should not in general exceed 20 pages of the Geological Magazine; preference and priority are given to short papers. The accuracy of references is the responsibility of authors. References must be double spaced and abbreviated in the form of the *World List of Scientific Periodicals* 4th Edition as far as possible, e.g. Lapworth, C. 1878. The Moffat Series. *Q. Jl geol. Soc., Lond.* **34**, 240-343. Books should be cited briefly as: Burns, R. G. 1970. *Mineralogical applications of crystal field theory*. 224 p., C.U.P., London. Unpublished work, e.g. from theses, should normally be referred to in the text in parentheses and not included in the reference list unless in the press.

Illustrations must be drawn to allow reduction to maximum size of 165 mm × 110 mm; originals must not exceed 495 mm × 110 mm and must be sent in a flat package. Lettering must allow for legibility after reduction (i.e. equivalent to 1 mm as a minimum on reduction). Duplicates of illustrations may be prints or, preferably, reductions. Metric units of the SI system are preferred. Illustrations in the text will be referred to as figures (Fig. 2, 2a, etc.), and halftone plates will be referred to (also in arabic) as Plates 2, 2a, etc. Folding plates will not be accepted. Captions for figures and plates must be typed on separate sheets.

Twenty-five offprints of each paper will be provided free of charge. Additional offprints may be purchased according to a set scale of charges.

# Geological Magazine

Volume 111, Number 1, January 1974

---

PARKASH, B., BAJPAI, I. P. & SAXENA, H. P. Sedimentary structures and palaeocurrents of the Siwaliks exposed between the Yamuna and Gola Rivers, U.P. (India)	1-14
KERR, P. F., GAVESCI, A. T. & BOWES, D. R. Welded glass-breccias from Marysvale, Utah	15-22
STORETVEDT, K. M. A possible large-scale sinistral displacement along the Great Glen Fault in Scotland	23-30
BATES, D. E. B. Probable orthocone skip and roll marks from the Aberystwyth Grits	31-34
WILKINSON, J. M. & GANN, J. R. Trace elements and tectonic relationships of basaltic rocks in the Ballantrae igneous complex, Ayrshire	35-41
WEBB, P. K. Roof modification of a high-level granite, Jos-Bukuru Younger Granite Ring Complex, Nigeria	43-47
KRISHNAMACHARLU, T. Ignimbrite flows from Rajula, Saurashtra, India	49-54
GARFUNKEL, Z., BARTOV, J., EYAL, Y. & STEINITZ, G. Raham Conglomerate - new evidence for Neogene tectonism in the southern part of the Dead Sea Rift	55-64
UZUAKPUNWA, A. B. The Abakaliki pyroclastics - Eastern Nigeria: new age and tectonic implications	65-70
LINDSTRÖM, M. Steps facing against the slip direction: a model	71-74
CHINNER, G. A. Dalradian margarite: a preliminary note	75-78
CORRESPONDENCE	
Drift thickness maps of Scotland: SIR KINGSLEY DUNHAM, Director of I.G.S.	79
A Mediterranean catastrophe? P. SONNENFELD	79-80
Tertiary beach deposits east of Reading associated with the London Clay transgression: B. W. SELLWOOD	80-83
On 'metabasite': R. B. ELLIOTT	83-84
Observations on the Kaiserstuhl Loess: W. BRIAN WHALLEY	84-86
REVIEWS	87-92
PUBLICATIONS RECEIVED	93-96

© Cambridge University Press 1974

Printed in Great Britain at the University Printing House, Cambridge