#### **INDEX**

- ACKERMAND, D. See Raith, M. et al. AFTALION, M. See VAN BREEMEN, O. et al.
- BENTON, M. J. Trace fossils from Lower Palaeozoic oceanfloor sediments of the Southern Uplands of Scotland, 67
- BLUCK, B. J. See SIMON, J. B. and BLUCK, B. J.
- BOWES, D. R. See HALDEN, N. M. et al.
- BOWES, D. R. See VAN BREEMEN, O. et al.
- BRAND, P. J. Stratigraphical palaeontology of the Westphalian of the Ayrshire Coalfield, Scotland, 173
- CLAYTON, GEOFFREY. See GRAHAM, JOHN R. et al. CORNISH, ROGER. Glacier flow at a former ice-divide in SW Scotland, 31
- DASH, B. See HALDEN, N. M. et al.
- DEBON, F. and LE FORT, P. A chemical-mineralogical classification of common plutonic rocks and associations, 135
- DUDEK, A. See VAN BREEMEN, O. et al.
- ELIAS, PETER and STRONG, D. F. Palaeozoic granitoid plutonism of southern Newfoundland: contrasts in timing, tectonic setting and level of emplacement, 43
- FLOYD, JAMES, D. Stratigraphy of a flysch succession: the Ordovician of W Nithsdale, SW Scotland, 1
- GRAHAM, JOHN R., RICHARDSON, JOHN B. and CLAYTON, GEOFFREY. Age and significance of the Old Red Sandstone around Clew Bay, NW Ireland, 245 GRAVENOR, C. P. See STUPAVSKY, M. et al.
- HALDEN, N. M. Structural, metamorphic and igneous history of migmatites in the deep levels of a wrench fault regime, Savonranta, eastern Finland, 17
- HALDEN, N. M., BOWES, D. R. and DASH, B. Structural evolution of migmatites in granulite facies terrane: Precambrian crystalline complex of Angul, Orissa, India, 109
- HICKMAN, ARTHUR H. and WRIGHT, ALAN E. Geochemistry and chemostratigraphical correlation of slates, marbles and quartzites of the Appin Group, Argyll, Scotland, 251
- HUTTON, DONALD H. W. Deformational history of an

- area with well-developed tectonic slides: Dalradian rocks of Horn Head, NW Irish Caledonides, 151
- LAL, R. K. See RAITH, M. et al. LE FORT, P. See DEBON, F. and LE FORT, P.
- MACKENZIE, R. C. See SMITH, B. F. L. et al.
- MÍSAŘ, Z. See VAN BREEMEN, O. et al.
- MITCHELL, B. D. See SMITH, B. F. L. et al.
- PIASECKI, M. A. J. and VAN BREEMEN, O. Field and isotopic evidence for a c. 750 Ma tectonothermal event in Moine rocks in the Central Highland region of the Scottish Caledonides, 119
- POVONDRA, P. See VAN BREEMEN, O. et al.
- RAASE, P. See RAITH, M. et al.
- RAITH, M., RAASE, P., ACKERMAND, D. and LAL, R. K. Regional geothermobarometry in the granulite facies terrane of South India, 221
- RICHARDSON, JOHN B. See GRAHAM, JOHN R. et al.
- SEARLE, M. P. Stratigraphy, structure and evolution of the Tibetan-Tethys zone in Zanskar and the Indus suture zone in the Ladakh Himalaya, 205
- SIMON, J. B. and BLUCK, B. J. Palaeodrainage of the southern margin of the Caledonian mountain chain in the northern British Isles, 11
- SMITH, B. F. L., MITCHELL, B. D. and MACKENZIE, R. C. Susceptibility to weathering of some Scottish rocks and their derived soils, 191
- STRONG, D. F. See ELIAS, PETER and STRONG, D. F.
- STUPAVSKY, M., SYMONS, D. T. A. and GRAVENOR, C. P. Evidence for metamorphic remagnetisation of upper Precambrian tillite in the Dalradian Supergroup of Scotland, 59
- SYMONS, D. T. A. See STUPAVSKY, M. et al.
- VAN BREEMEN, O. See PIASECKI, M. A. J. and VAN BREEMEN, O.
- VAN BREEMEN, O., AFTALION, M., BOWES, D. R., DUDEK, A., MÍSAŘ, Z., POVONDRA, P. and VRÁNA, S. Geochronological studies of the Bohemian massif, Czechoslovakia, and their significance in the evolution of Central Europe, 89
- VRÁNA, S. See VAN BREEMEN, O. et al.

### Instructions to authors

Transactions of the Royal Society of Edinburgh: Earth Sciences appears quarterly, publishing studies on all aspects of the earth sciences and related planetary sciences. Substantial contributions to both information and understanding that emphasise principles and are relevant to a worldwide readership are welcome. Normally there is an upper limit of 25 000 words, but most contributions are expected to be shorter. Discussions of papers previously published in the Transactions and reviews of topics of current interest are also invited. There are no page charges but subventions towards cost are welcome. If the use of foldouts or colour illustrations is envisaged, the Editorial Office should be consulted prior to submission.

#### 1. Submission

Membership of the Society is not a pre-requisite for submission. Three copies of manuscripts should be sent to the Editorial Office, The Royal Society of Edinburgh, 22 George Street, Edinburgh EH2 2PQ, Scotland. Three copies of illustrations at publication size should also be submitted; for these sets, photocopies of line drawings are adequate, but not of photographs. Illustrations suitable for reproduction (see 3.1) may be requested subsequently. All submissions will be sent to two reviewers.

## 2. Preparation of papers2.1. Manuscripts

Manuscripts should be typed on A4 (295×210 mm) or quarto paper with double spacing throughout and wide margins. A title that is concise and informative, a heading of not more than 50 typewriter strokes for use at the top of text pages and name(s) of author(s) are to be given on the first page. An abstract of not more than 200 words, intelligible without reference to the text or references, should be given on the second page, with a list of key words not in the title making up no more than 150 typewriter strokes. The text should begin on the third page. Where possible, annotated illustrations and tables should be used in place of text. Give full postal address(es) at the end of the references. Tables and a list of figure captions should be on separate pages.

Editorial details. Words to be printed in italics, e.g. names of taxa, should be underlined. Use capital letters for formal terms only, in both text and headings. The metric system should be used throughout. Abbreviations should omit the full-stop, e.g. 2 mm, 3 km and 6 kb. Compass points are to be abbreviated to N, NW, NW-SE etc. Map references should be in square brackets, e.g. [NM 4437 0293]. Do not use footnotes except in tables. Examples of references in the text are: Jennings and Smith (1967) record .... Bracketed references should be as follows: (James 1931), (Jennings & Smith 1967, p. 132), (Jenkins 1947, 1950; Brock 1975). Indicate in the margins approximate positions for insertion of illustrations and tables. For particular treatment of palaeontological specialities consult PALAEONTOLOGY 15, 676–81.

#### 2.2. Headings

Primary headings, including Acknowledgements and References, are to be numbered 1, 2, 3 etc. (as in these Instruc-

tions) and secondary headings 1.1, 1.2, 1.3 etc.; these are to begin at the left-hand margin and should not be underlined. Show tertiary headings by wavy underlining. These should be indented and followed by a full-stop, four spaces and then the text of the sub-section. The introductory section requires no heading. Cross-references in the text should be to a section or sub-section, e.g. (see 2.3), not to a page.

#### 3. Illustrations and tables

#### 3.1. Illustrations

Illustrations, labelled figures (Fig. 1, 2, 3 etc.) are printed within the body of the text at column (85 mm) or page (177 mm) width, or page length (253 mm), but allowance must be made for figure captions. Where appropriate, group material into one figure and label a, b, c etc. In the case of groups of photographs, labels and annotation should be on the appropriate photograph, not in the space between photographs. No lettering should be less than 1 mm high at reproduction size (the use of capital letters throughout improves clarity after reduction). Transfer lettering is preferred. Large figures can be subdivided for reproduction on facing pages. Photographs should be high quality glossy prints with good contrast at final size and with a scale, or magnification in the caption. In the case of fossil illustrations illumination should be top left. Usually originals of line drawings are not required; high quality prints on matt paper at publication size are generally acceptable.

#### 3.2. Tables

Tables (1, 2, 3 etc.) will generally be set up in type and reproduced at column or page width, although certain tables are better presented using transfer lettering; these should be submitted in the same way as line illustrations. Each table should have a heading and be on a separate sheet. For layout of analytical data see tables published in previous issues.

#### 4. References

Set out as indicated below. Abbreviate journal and series titles according to Part 2 (1975) of BS 4148 (*The abbreviation of titles of periodicals*. Word-abbreviation list. London: British Standards Institution). This system uses capitals throughout and no full-stops. Authors who are unable to obtain this list should give journal titles in full (in capitals). Indicate volume numbers of journals and series by wavy underlining and book titles by single underlining.

- Amstutz, G. C. 1968. Spilites and Spilitic Rocks. *In* Hess, H. H. & Poldervaart, A. (eds) *Basalts*, 737-53. New York: Interscience.
- Dick, J. R. F. 1978. On the Carboniferous shark Tristychius arcuatus Agassiz from Scotland. TRANS R SOC EDINBURGH 70, 63-109.
- Duff, K. L. 1978. Bivalvia from the English Lower Oxford Clay (Middle Jurassic). PALAEONTOGR SOC MONOGR.
- Ferguson, J. & Currie, K. L. 1971. Evidence of liquid immiscibility in ultrabasic dikes, Ontario. J PETROL 12, 501-85.
- Hatch, F. H., Wells, A. K. & Wells, M. K. 1972. Petrology of the Igneous Rocks, 13th edn. London: George Allen & Unwin.

#### 5. Proofs and offprints

One set of proofs will be sent to the author (or senior author of a joint paper). Fifty free offprints are provided and additional copies can be ordered when proofs are returned.

# TRANSACTIONS OF THE ROYAL SOCIETY OF EDINBURGH: EARTH SCIENCES

Volume 73 (for 1982)	1983	Part 4
SMITH, B. F. L., MITCHELL, B. D. and Susceptibility to weathering of some Scottis		191
SEARLE, M. P. Stratigraphy, structure and evolution of the zone in the Ladakh Himalaya	Tibetan–Tethys zone in Zanskar and the Indus suture	205
RAITH, M., RAASE, P., ACKERMAND, Regional geothermobarometry in the granu		221
GRAHAM, JOHN R., RICHARDSON, JOHN Age and significance of the Old Red Sands		245
HICKMAN, ARTHUR H. and WRIGHT, Geochemistry and chemostratigraphical corr Appin Group, Argyll, Scotland	ALAN E. elation of slates, marbles and quartzites of the	251

ISSN 0263-5933

TREASO 73 191-279 (1983)

Published by the Royal Society of Edinburgh 22 George Street, Edinburgh EH2 2PQ

Printed in Northern Ireland by The Universities Press (Belfast) Ltd.