

JOURNAL OF
Micropalaeontology

The International Journal of the
British Micropalaeontological Society

Biostratigraphy

Evolution

Palaeobiology

Palaeoenvironments

Reviews

Taxonomic studies



ISSN 0262-821X

Volume 13, Part 1, September 1994

Published for the British Micropalaeontological Society by the Geological Society Publishing House

The British Micropalaeontological Society, London

Founded 1970

Patrons: Biostrat Stratigraphic Consultants, BP Exploration Ltd, Chevron UK Ltd, Shell UK Exploration and Production, Simon Petroleum Technology Ltd

The British Micropalaeontological Society was founded to further the study of micropalaeontology. Meetings and demonstrations are held throughout the year and the Society publishes a number of serial and occasional publications. Membership is open to individuals and to libraries on payment of the appropriate annual subscription (1994 rates: Libraries £60/US\$100; Ordinary £25, Student £15). Application forms for membership can be obtained from the Treasurer.

Officers (1993–4)

Alan R. Lord (Chair)
Dept Geological Sciences
University College London
Gower Street, London WC1E 6BT
Tel 071 380 7131
Fax 071 388 7614

Ian P. Wilkinson (Treasurer)
British Geological Survey
Keyworth, Nottingham, NG12 5GG
Tel 0602 363447
Fax 0602 363200

A. James Powell (Newsletter Editor)
Millennia Ltd
Unit 3, Weyside Park
Newman Lane, Alton
Hants GU34 2PJ
Tel 0420 89992
Fax 0420 89036

James B. Riding (Secretary)
British Geological Survey
Keyworth, Nottingham, NG12 5GG
Tel 0602 363447
Fax 0602 363200

John W. Murray (Journal Editor)
Dept Geology
University of Southampton
Highfield, Southampton
Hants SO17 1BJ
Tel 0703 592617
Fax 0703 593052

Ian C. Harding (Publicity Officer)
Dept Geology
University of Southampton
Highfield, Southampton
Hants SO17 1BJ
Tel 0703 592617
Fax 0703 593052

Group representatives (1993–4)

Conodont Group

S. J. Tull (Chair)
Cambridge Arctic Shelf Programme
West Building, Huntingdon Rd
Cambridge CB3 0DJ
Tel 0223 337069
Fax 0223 276604

I. J. Sansom (Sec)
School of Earth Sciences
University of Birmingham
Edgbaston, Birmingham B15 2TT
Tel 021 414 6147
Fax 021 414 3971

Foraminifera Group

M. D. Simmons (Chair)
BP Exploration, 4/5 Long Walk
Stockley Park
Middlesex UB11 1BP
Tel 081 750 0934
Fax 081 750 0276

S. R. Packer (Sec)
Millennia Ltd
Unit 3, Weyside Park
Newman Lane, Alton
Hants GU34 2PJ
Tel 0420 89992
Fax 0420 89036

Nannofossil Group

J. A. Burnett (Chair)
Postgraduate Unit of
Micropalaeontology
Dept Geological Sciences
University College London
Gower St, London WC1E 6BT
Tel 071 387 7050 ext 2424
Fax 071 388 7614

D. Windley (Sec)
Postgraduate Unit of
Micropalaeontology
Dept Geological Sciences
University College London
Gower St, London WC1E 6BT
Tel 071 387 7050 ext 2424
Fax 071 388 7614

Ostracod Group

N. R. Ainsworth (Chair)
Paleo Services, Unit 15
Paramount Industrial Est
Sandown Rd, Watford
Herts WD2 4XA
Tel 0923 37347
Fax 0923 225678

I. D. Boomer (Sec)
Institute of Earth Studies
University of Wales
Llandinam Building
Aberystwyth, Dyfed SY23 3DB
Tel 0970 622635
Fax 0970 622659

Palynology Group

D. J. Batten (Chair)
Institute of Earth Studies
University of Wales
Llandinam Building
Aberystwyth, Dyfed SY23 3DB
Tel 0970 622635
Fax 0970 622659

D. McLean (Sec)
Industrial Palynology Unit
University of Sheffield
Mappin Street, Sheffield, S1 3JD
Tel 0742 768403
Fax 0742 799088

Editorial Board

Editor: **J. W. Murray** (University of Southampton)

M. P. Smith (University of Birmingham); **R. J. Davey** (Simon Petroleum Technology); **J. E. Whittaker** (The Natural History Museum); **J. R. Young** (The Natural History Museum)

©1994 British Micropalaeontological Society. Except as otherwise permitted under the Copyright, Designs and Patents Acts, 1988, this publication may only be reproduced, stored or transmitted, in any form or by any means, with the prior permission in writing of the British Micropalaeontological Society or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency, 90 Tottenham Court Rd, London W1P 9HE, UK. For users registered with the Copyright Clearance Center, 27 Congress St, Salem, MA 01970, USA, the item-fee code for this publication is 0262-821X/94 \$07.00. Special requests should be addressed to the Editor.

Journal of Micropalaeontology (ISSN 0262-821X) is published twice a year (April and October) by the Geological Society Publishing House. Members of the British Micropalaeontological Society receive the two parts free. Single-issue price for non-members for Volume 13 (1994) is £35/US\$59. Back issues are available from the Secretary, J. B. Riding. Trade subscription enquiries should be addressed to the Journal Subscription Dept, Geological Society Publishing House, Unit 7, Brassmill Enterprise Centre, Brassmill Lane, Bath BA1 3JN, UK.

Typeset and printed on acid-free paper at the Universities Press (Belfast) Ltd, Alanbrooke Rd, Belfast BT6 9HF, Northern Ireland, UK.