## The Lichenologist

## AN INTERNATIONAL JOURNAL EDITED FOR THE BRITISH LICHEN SOCIETY

BY

D. L. HAWKSWORTH

B. J. COPPINS, D. J. GALLOWAY, P. M. McMANUS,
A. PENTECOST and D. H. S. RICHARDSON



ACADEMIC PRESS

LONDON SAN DIEGO NEW YORK

BOSTON SYDNEY

TOKYO TORONTO

ISSN 0024-2829

## BRITISH LICHEN SOCIETY

## **OFFICERS 1987**

President and Senior Editor

Professor D. L. Hawksworth, D.Sc., F.L.S., F.I.Biol., CAB International Mycological Institute, Ferry Lane, Kew, Surrey TW9 3AF.

Vice-President

B. J. Coppins, Ph.D., Royal Botanic Garden, Inverleith Row, Edinburgh EH3 5LR.

T. H. Moxham, Department of Plant Sciences, University of Bath, Claverton Down, Bath, Avon BA2 7AY.

Treasurer
S. N. K. Tallowin, Lakeham Farm, Higher Ashton, Exeter EX6 7RB.

Assistant Treasurer
F. S. Dobson, F.L.S., Richmond Publishing Co. Ltd., Orchard Road, Richmond,
Surrey TW9 4PD.

J. W. Sheard, Ph.D., Department of Biology, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.

Mapping Recorder

M. R. D. Seaward, D.Sc., F.L.S., F.I.Biol., School of Studies in Environmental Science,
The University, Bradford, West Yorkshire BD7 1DP.

B. J. Coppins D. J. Galloway P. M. McManus A. Pentecost D. H. S. Richardson

F. H. Brightman, B.Sc., F.L.S., South London Botanical Institute, 323 Norwood Road, London SE24 9AQ.

Librarian and Archivist
D. H. Brown, D.Sc., Department of Botany, The University, Woodland Road, Bristol BS8 1UG.

R. K. Brinklow, B.Sc., Dundee Museums and Art Galleries, Albert Square,
Dundee DD1 1DA.

Field Meetings Secretary
C. J. B. Hitch, Ph.D., The Whin, Wadd Lane, Snape,
Saxmundham, Suffolk IP17 1OY.

B. Benfield P. W. James J. H. Looney A. M. O'Dare D. H. S. Richardson F. J. White

Membership of the British Lichen Society is open to all persons anywhere in the world interested in any part of lichenology. Subscriptions, due on joining and afterwards on 1 January each year, are: ordinary members, £15; junior associate members, £6. Details of membership, activities of the Society and application forms may be obtained from the Secretary (address above). Members receive the Bulletin of the British Lichen Society and issues of The Lichenologist published in the year they join, and afterwards while they remain members of the Society, free of charge. Junior associate members do not receive The Lichenologist.

The Lichenologist (ISSN 0024-2829), 1988, Volume 20, 4 issues (January, April, July, October): Inland £75.00 including postage; abroad \$146.00 including postage. Subscription orders should be sent to Academic Press Limited, High Street, Foots Cray, Sidcup, Kent DA145HP, England (tel. 01-300 3322).

Send notices of change of address to the Assistant Treasurer and office of the Publishers at least 6-8 weeks in advance. Please include both old and new addresses.

Second class postage paid at Jamaica, NY 11431, U.S.A.

U.S. Postmaster: Send address changes to *The Lichenologist*, c/o Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003, U.S.A.

Air freight and mailing in the U.S.A. by Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003, U.S.A.