## The Lichenologist

AN INTERNATIONAL JOURNAL EDITED FOR THE BRITISH LICHEN SOCIETY

BY

D. L. HAWKSWORTH

A. FLETCHER, D. J. HILL, P. W. JAMES AND
P. B. TOPHAM



## ACADEMIC PRESS

LONDON SYDNEY

NEW YORK

TORONTO

SAN FRANCISCO

ISSN 0024-2829

## BRITISH LICHEN SOCIETY

## OFFICERS, 1981

President

F. Rose, Ph.D., 'Rotherhurst', 36 St Mary's Road, Liss, Hampshire, GU33 7AH.

Wice-President and Mapping Recorder
M. R. D. Seaward, Ph.D., F.L.S., School of Studies in Environmental Science, The University, Bradford, West Yorkshire, BD7 1DP.

Secretary

J. R. Laundon, F.M.A., Department of Botany, British Museum (Natural History), Cromwell Road, London, SW7 5BD.

Treasurer S. N. K. Tallowin, The Moat, Llandyry, Kidwelly, Dyfed, SA17 4EL.

Assistant Treasurer

P. W. Lambley, B.Sc., Castle Museum, Norwich, NR1 3JU.

Regional Treasurer (N. America)

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

Editor

D. L. Hawksworth, D.Sc., F.L.S., Commonwealth Agricultural Bureaux, Farnham House, Farnham Royal, Slough SL2 3BN.

A. Fletcher

Assistant Editors P. W. James D. I. Hill

P. B. Topham

Bulletin Editor

O. L. Gilbert, Ph.D., Department of Landscape Architecture, University of Sheffield, Sheffield, S10 2TN.

Librarian and Reading Circle Secretary

D. H. Brown, Ph.D., Department of Botany, The University, Woodland Road, Bristol, BS8 1UG.

Conservation Officer

A. Fletcher, Ph.D., Museum and Art Gallery, New Walk, Leicester LEI 6TD.

Curator

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

Elected Members of Council

B. W. Fox F. J. Walker D. H. S. Richardson V. J. Giavarini P. B. Topham P. W. James

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, £10; junior associate members, £1; family members £0.25. 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.

1981, Volume 13, 3 issues (February, June, October): Inland £28.20 including postage; abroad \$83.00 including postage. Subscription orders should be sent to Academic Press Inc. (London) Ltd, 24-28 Oval Road, London NW1 7DX, England, except those from Canada, Central and South America and the U.S.A., which should be sent to Academic Press Inc., 111 Fifth Avenue, N.Y. 10003, U.S.A.

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.

Postmaster, send changes of address to The Lichenologist, 111 Fifth Avenue, New York, N.Y. 10003.

Air freight and mailing in the U.S.A. by Publications Expediting Services Inc., 200 Measham Avenue, Elmont, N.Y. 11003, U.S.A.