

VOLUME 14

1982

PART 3

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

*Twenty-fifth Year of
Publication*



ACADEMIC PRESS

LONDON NEW YORK TORONTO
SYDNEY SAN FRANCISCO

ISSN 0024-2829

BRITISH LICHEN SOCIETY

OFFICERS, 1982

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.

Vice-President and Secretary

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

Treasurer

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

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., F.I.Biol., Commonwealth Agricultural Bureaux, Farnham House,
Farnham Royal, Slough SL2 3BN.

Assistant Editors

A. Fletcher

D. J. Hill

P. W. James

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 LE1 6TD.

Curator

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

Elected Members of Council

B. W. Fox

D. J. Galloway

D. H. S. Richardson

F. Rose

F. S. Dobson

P. W. James

T. H. Moxham

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*.

1982, Volume 14, 3 issues (February, June, October): Inland £33.00 including postage; abroad \$87.00 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.