
The Lichenologist

AN INTERNATIONAL JOURNAL

EDITED

BY

D. H. BROWN

V. AHMADJIAN, T. AHTI, R. M. BROWN, B. J. COPPINS,
D. J. GALLOWAY, P. L. NIMIS and D. H. S. RICHARDSON



ACADEMIC PRESS

LONDON SAN DIEGO NEW YORK
BOSTON SYDNEY
TOKYO TORONTO

ISSN 0024-2829

BRITISH LICHEN SOCIETY

OFFICERS 1994

President

Professor B. W. Fox, Ph.D., F.L.S., Tryfan, Longlands Road, New Mills, Stockport, Cheshire SK12 3BL

Vice President

D. L. Galloway, D.Sc., F.L.S., Department of Botany, The Natural History Museum, Cromwell Road, London SW7 5BD

Secretary

O. W. Purvis, Ph.D., Department of Botany, The Natural History Museum, Cromwell Road, London SW7 5BD

Treasurer

F. S. Dobson, F.L.S., 57 Acacia Grove, New Malden, Surrey KT3 3BU

Assistant Treasurer

J. M. Gray, Myrtle House, Church Lane, Kingston St Mary, Taunton, Somerset TA2 8HR

Regional Treasurer (N. America)

J. W. Sheard, Ph.D., Department of Biology, University of Saskatchewan, Saskatoon, Saskatchewan, S7N 0W0 Canada

Senior Editor, Librarian and Archivist

D. H. Brown, D.Sc., F.I.Biol., Department of Botany, The University, Woodland Road, Bristol BS8 1UG

Bulletin Editor

P. D. Crittenden, Ph.D., Department of Botany, The University, Nottingham NG7 2RD

Conservation Officer

A. Fletcher, Ph.D., F.L.S., Leicestershire Museums, Arts and Records Service, 96 New Walk, Leicester, Leicestershire LE1 6TD

Publicity Officer

T. H. Moxham, Mayfair House, 21 Ashgrove, Peasedown St. John, Bath, Avon BA2 8EB

Mapping Recorder

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

Curator

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

Field Meetings Secretary

T. G. C. Duke, B.Sc., Sandrock, The Compa, Kinver, Staffordshire DY7 6HS

Members of Council

T. W. Chester B. J. Coppins O. L. Gilbert E. John J. H. H. Looney
A. M. O'Dare K. Palmer K. A. Sandell

Membership of the British Lichen Society is open to all individuals (not institutions) anywhere in the world interested in any part of lichenology. Subscriptions, due on joining and afterwards on 1 January each year, are: ordinary members, £20; associate members, £15; senior and junior associate members, £5. 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. Associate members do not receive *The Lichenologist*. Details of the membership, facilities and activities of the Society and application forms may be obtained from the Secretary (address above).

The Lichenologist: ISSN 0024-2829. Volume 26, 1994, published quarterly for the British Lichen Society, by Academic Press Limited at 24-28 Oval Road, London NW1 7DX, UK. Annual subscription price including postage: £125 UK and US \$225 elsewhere. Buyers in Canada should add GST at the current rate of 7%. Subscription orders should be sent to: Foots Cray, Sidcup, Kent DA14 5HP, UK (Tel: 081-300 3322). Send notices of changes of address to the Assistant Treasurer and the publisher (Institutions) at least 6-8 weeks in advance, including both old and new addresses.

Second class postage rate paid at Jamaica, NY 11431, USA.

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

USA POSTMASTERS: Send change of addresses to *The Lichenologist*, c/o Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003, USA.

This journal is covered by *Current Contents* and *Biological Abstracts*.

Printed in UK.