

**Instructions for Authors:** Papers and short notes from contributors anywhere in the world are welcome for consideration for publication in *The Lichenologist* and may be on any aspect of lichenology. However, priority in publication will be given to those who are members of the British Lichen Society.

Manuscripts must be typewritten on foolscap or A4 size paper in double or treble spacing with 1 inch margins all round and submitted in **triplicate** to the Senior Editor (Dr D. H. Brown) or (for North America) Professor V. Ahmadjian, Department of Biology, Clark University, Worcester, Mass 01610, USA.

Line illustrations must be in black ink on stiff white card, preferably Bristol board.

As a guide to the layout of synonymy, keys, references, etc., recent issues should be consulted. The spellings of locality names in Britain and abroad must follow those of the most recent editions of maps published by the Ordnance Survey and *The Times Atlas of the World*, respectively. Titles of periodicals should be given in full (except in taxonomic treatments in text where they should be abbreviated as in the fourth edition of the *World List of Scientific Periodicals* and its supplements). In lists of references the publisher and place of publication of books should be given; editions other than the first should be indicated.

**Copyright/Offprints.** Authors submitting a manuscript do so on the understanding that if it is accepted for publication, copyright in the paper for the United States of America shall be assigned to the Society. In consideration for the assignment of copyright, the Society will supply 50 offprints of each paper, but not of Short Communications or Book Reviews. Further offprints may be ordered at extra cost at the proof stage. The Society will not put any limitation on the personal freedom of the author to use material contained in the paper in other works which may be published in North America or elsewhere. Reprints must be ordered directly from Academic Press Inc. when the author returns the proofs of his article.

Page charges are not levied, but if funds to cover printing costs are available quicker publication, or that of unusually long papers, can be facilitated.

Books dealing with any aspect of lichenology will be reviewed. Publishers wishing to have works reviewed in *The Lichenologist* should send them to Professor Hawksworth (address under 'Referees') in the first instance.

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

**Notice:** While the Senior Editor and Editors endeavour to check the accuracy of statements in contributions in as far as they are able, it should be emphasized that views expressed in papers in *The Lichenologist* are those of their authors and do not necessarily represent those of the British Lichen Society, Academic Press Ltd, the Senior Editor, or the Editors.

**Referees:** The function of taxonomic referees is to assist members of the British Lichen Society in the identification of lichens. Specimens submitted should be adequate in size and well documented, including details of country, county or vice-county, borough or parish, precise locality and grid reference, altitude, date, habitat and ecology, notes, name of collector and collecting number. Identification should be attempted before sending material to a referee and details of spores and chemical reactions included where appropriate. Members wishing to send large numbers of specimens to a referee should first of all check that he is willing to name their collections for them. Return postage should always be included.

#### *Referees (Beginners)*

F. H. Brightman, B.Sc., F.L.S., Address under 'Conservation Chairman'.

F. S. Dobson, F.L.S., Address under 'Treasurer'.

O. L. Gilbert, Ph.D., Address under 'Bulletin Editor'.

D. Jackson Hill, D.Phil., Department of Extra-Mural Studies, The University, Bristol BS8 1HR.

#### *Referees (Advanced)*

B. J. Coppins, Ph.D., Address under 'President'. (*Bacidia* and *Micarea* spp. only.)

A. Fletcher, Ph.D., Center of Marine Biotechnology, 600 East Lombard Street, University of Maryland, MD 21202, USA (Marine and maritime lichens.)

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

P. W. James, B.Sc., F.L.S., Department of Botany, British Museum (Natural History), Cromwell Road, London SW7 5BD. (All groups.)

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

F. Rose, Ph.D., Rotherhurst, 36 St Mary's Road, Liss, nr Petersfield, Hants GU33 7AH. (Corticolous lichens.)

G. Salisbury, 38 Lostwithiel Street, Fowey, Cornwall. (Thelocarpaceae.)

J. W. Sheard, Ph.D., Address under 'Regional Treasurer'. (*Buellia*, *Rhizocarpon*, *Rinodina*.)

L. Tibell, Ph.D., Institute of Systematic Botany, University of Uppsala, P.O. Box 541, S-751 21 Uppsala 1, Sweden. (Caliciales *s. lat.*)

# THE LICHENOLOGIST

Vol. 21. Part 2	1989
HENSSEN, Aino— <i>Metamelanea</i> and <i>Stromatella</i> , new genera of Lichinaceae	101
HOLOPAINEN, T. & KAUPPI, M.—A comparison of light, fluorescence and electron microscopic observations in assessing the SO <sub>2</sub> injury of lichens under different moisture conditions	119
FAHSELT, Dianne & KROL, Marianna—Biochemical comparison of two ecologically distinctive forms of <i>Xanthoria elegans</i> in the Canadian High Arctic	135
YAGÜE, E. & ESTÉVEZ, M. P.—β-1,4-Glucanase (cellulase) location in the symbionts of <i>Evernia prunastri</i>	147
HENDERSON, A.—Literature on air pollution and lichens XXIX	153
ALEXANDER, R. W., RICHARDSON, D. H. S., COTTON, D. & SEAWARD, M. R. D.—Field meeting to Sligo and Connemara National Park	159
SHORT COMMUNICATIONS	
COPPINS, B. J.— <i>Rinodina griseosoralifera</i> , a new corticolous sorediate lichen from Western Europe	169
JACOBSEN, P. & KAPPEN, L.—Notes on <i>Rinodina olivaceobrunnea</i> in the Antarctic	173
GJERLAUG, H. C.— <i>Cladonia imbricarica</i> , new to Continental Europe	178
HANSEN, E. S. & TØNSBERG, T.— <i>Cladonia alaskana</i> , new to Greenland	180
ARCHER, A. W.—Chemistry and distribution of <i>Cladonia staufferi</i>	181
BRODO, I. M.— <i>Hypogymnia pulverata</i> , new to North America	184
BOOK REVIEWS	187

© 1989 British Lichen Society. The appearance of the code at the bottom of the first page of a paper in this journal indicates the copyright owner's consent that copies of the paper may be made for personal or internal use, or for the personal or internal use of specific clients in the USA. This consent is given on the condition, within the USA, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc., 27 Congress Street, Salem, MA 01970, for copying beyond that permitted by Sections 107 or 108 of the US Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, for resale or for copying or distributing copies outside the USA.

Published four times a year for the British Lichen Society by  
Academic Press Limited, 24–28 Oval Road, London NW1 7DX,  
England