

The Biology of Lichens

Third Edition

Mason E. Hale

Contemporary Biology Series

This third edition of *The Biology of Lichens* provides a very readable review of all aspects of lichenology, summarizing morphology, reproduction, physiology, symbiosis, ecology, chemistry and use in air pollution studies, and relating these topics to current research in mycology and microbiology. The text has been completely rewritten, taking account of the tremendous progress that has been made in the study of the physiology of symbiosis and lichen resynthesis, and placing greater emphasis on ultrastructure studies and pollution monitoring.

£8.95 paper 200 pages illustrated



Edward Arnold

41 Bedford Square, London WC1B 3DQ

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 duplicate to the Editor.

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 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 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 the Editor in the first instance.

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

Notice: While the Editor and Assistant 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 Inc. (London) Ltd, the Editor or the Assistant Editors.

Referees: The function of 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., South London Botanical Institute, 323 Norwood Road, London SE24 9AQ.

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

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., Royal Botanic Garden, Inverleith Row, Edinburgh, EH3 5LR. (*Bacidia* and *Micarea* spp. only.)

A. Fletcher, Ph.D., Address under 'Conservation Officer'. (Marine and maritime lichens.)

D. L. Hawksworth, D.Sc., F.L.S., F.I.Biol., Address under 'Vice-President and Editor'. (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., Address under 'President'. (Sterile crustose lichens.)

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

G. Salisbury, 35 Carrick Road, Curzon Park, Chester, CH4 8AN. (Sand dune lichens, microlichens esp. *Thelocarpaceae*, *Thelotrema* s. lat.)

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. 16. Part 1

1984

LANGE, O. L., KILIAN, Ellen, MEYER, Angelika & TENHUNEN, J. D.— Measurement of lichen photosynthesis in the field with a portable steady- state CO ₂ -porometer	1
HONEGGER, Rosmarie—Scanning electron microscopy of the contact site of conidia and trichogynes in <i>Cladonia furcata</i>	11
GILBERT, O. L.—Some effects of disturbance on the lichen flora of oceanic hazel woodland	21
GILBERT, O. L.—Lichens of the magnesian limestone	31
BRODO, I. M. & VANSKA, H.—Notes on the maritime lignicolous lichen <i>Lecanora orae-frigidae</i>	45
LAUNDON, J. R.—Studies in the nomenclature of British lichens I	53
POPE, C. R.—Field meeting on the Isle of Wight	59
GILBERT, O. L. & LAMBLEY, P. W.—Field meeting at Llangollen, Clwyd	63
GILBERT, O. L., COPPINS, B. J. & JAMES, P. W.—Field meeting on Coll and Tiree	67
HENDERSON, A.—Literature on air pollution and lichens XX	81

SHORT COMMUNICATIONS

HAWKSWORTH, D. L. & GALLOWAY, D. J.—The identity of <i>Plectocarpon</i> Fée and its implications for <i>Lichenomyces</i> , <i>Pseudocyphellaria</i> and the typifi- cation of <i>Sticta delisea</i>	85
ARVIDSSON, L.— <i>Coccocarpia fulva</i> , the correct name for <i>C. xanthorioides</i>	89
GALLOWAY, D. J. & JAMES, P. W.—Observations on <i>Parmelliella neozelandica</i>	90
ARVIDSSON, L.—Two new records of <i>Leptogium ferax</i>	91
HAWKSWORTH, D. L., LAWTON, R. M., MARTIN, P. G. & STANLEY-PRICE, K.—Nutritive value of <i>Ramalina duriaei</i> grazed by gazelles in Oman	94
FILSON, R. B.—Additional notes on <i>Cladia</i>	94
HAMADA, N.—The content of lichen substances in <i>Ramalina siliquosa</i> cultured at various temperatures in growth cabinets	96
BOOK REVIEWS	99

© 1984 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 U.S.A. This consent is given on the condition, within the U.S.A., that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc., Operations Staff, P.O. Box 765, Schenectady, New York 12301, for copying beyond that permitted by Sections 107 or 108 of the U.S. 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 U.S.A.

Published three times a year for the British Lichen Society by
Academic Press Inc. (London) Ltd, 24-28 Oval Road, London NW1 7DX,
England

Free to full members of the British Lichen Society