

BRITISH LICHEN SOCIETY

BULLETIN

25p per copy and £1.00 per year. December 1974. No. 35
Editorial staff: Alan D. Brown and the rest now syndicated to British Lichen Society Ltd., c/o President: D. H. Brown, F.B.Sc., Ph.D. and M.R.S.L. 22, St. John's Road, London NW10 4JL, and of copies of new publications sent to the same address.
Industrial news—12 monthly issues. Still no compensation paid because of the cost of printing.

A. Teesside Mist eliminated

Teesside is one of the worst polluted areas of Europe and, as a consequence, one of the poorest areas in Britain for lichens. Although there are many sources of pollution in the area, it is the giant chemical complex at Imperial Chemical Industries at Billingham, which covers an area exceeding one square mile, which has been the subject of the most adverse publicity. The estate of Haverton Hill, which lies immediately to the east (downwind) of the ICI complex has been described as the "most heavily polluted settlement in the country". (see Gregory, P. (1965). Polluted Homes. Bell, London.) Here pollution is so severe that, it is alleged, old buildings are officially not being renovated, and are being allowed to fall into ruin in the hope that the population will gradually abandon the estate; no new residential building is permitted. South of Haverton Hill is one of the most impressive industrial monuments in the country: the Transporter Bridge, linking the estate with Middlesbrough. The bridge was built by the Cleveland Bridge and Engineering Company in 1911, and is 850 ft long and 225 ft tall with a footpath high on the gantry; it appears to hang in the sky across the Tees like a gigantic sentinel.

The pollution which has caused some of the greatest concern in the region for the past twenty years has been the notorious Teesside Mist. The mist, white in colour, used to fill the valley of the Tees often on bright sunny days in summer, much to the concern of residents. It was often accompanied by the appalling "fish-smell", one of the most unpleasant of all industrial odours, which affected large areas of Teesside, caused by leakages from the ICI methylamines plant. The occurrence of the mist was eventually found to correspond with accidental leaks of ammonia from the Billingham works and the mist itself was found to contain abnormally large amounts of ammonium salts. The mist was investigated by the Atomic Energy Research Establishment at Harwell, who found in 1970 that it was formed by a shallow layer of air polluted with sulphur dioxide and ammonia drifting out to sea with the land breeze at night, and then drifting back again as mist containing ammonium sulphate in the morning. Improvements at the Billingham complex have meant that there have been no serious mists since 1970, and, according to the 109th Annual Report on Alkali, &c Works 1972 (1973), it can now be regarded as having been eliminated. The end of excessive emissions of ammonia and sulphur dioxide, coupled with the change from coal to natural gas as the major energy source at Billingham, are the reasons given for the abatement of this nuisance.

B. Oil ashore this year

The first North Sea oil is due to reach Britain later this year from the Argyll field, the most southerly of the oil-fields beneath the North Sea. It will come by ship to Teesside. The oil has a low sulphur content.

Oil in quantity was discovered beneath the North Sea in 1970 by British Petroleum in the Forties field. Britain is expected to be self-sufficient in oil by 1980, and also to have enough to export. Dr J. Birks, deputy chairman of BP Trading,

has recently stated that the United Kingdom has 13,000 million barrels of reserves in its sector of the North Sea and a further 13,000 million barrels might be expected to be discovered. This should be sufficient to keep British industry going for the next 60 years, he implied.

Britain's Labour Government intends to control the rate of production, and to introduce state participation policies in North Sea oil.

New Treasurer required

Mr S. A. Manning, Treasurer of the Society since 2 January 1971, has announced his intention of resigning from this office from the end of 1974. The Society is greatly indebted to Mr Manning for all the hard work he has put into the job and for the meticulous way in which he has dealt with all financial matters. As Mr Manning is unable to stand for re-election for 1975 a new Treasurer is urgently ~~needed~~ needed. Members interested in helping the Society by taking on this honorary position are kindly requested to inform the Secretary, Mr J. R. Laundon, Department of Botany, British Museum (Natural History), Cromwell Road, London SW7 5BD, before 31 December 1974. If any member knows of a suitable candidate they should also inform Mr Laundon.

Mapping meeting 3 January 1975

A short meeting of members interested in mapping to discuss problems and policy will be held on Friday 3 January 1975 from 14.15 until 15.15 in Mr Brightman's room, British Museum (Natural History), Cromwell Road, London SW7 5BD. Any person wishing a particular item to be discussed should kindly inform the Mapping Recorder, Dr M. R. D. Seaward, Postgraduate School of Studies in Environmental Science, The University, Bradford, BD7 1DP, before 14 December 1974 so that the matter might be placed on the agenda. Non-members interested in mapping are welcome.

Nominations for Officers and Council Members

Nominations for Officers for 1975 and Council Members for 1975 - 76 should be sent to the Secretary before 21 December 1974 on the enclosed form. No person may be nominated without their consent. Mr F. H. Brightman, Mr P. M. Earland-Bennett and Dr A. Fletcher retire from the Council and are not eligible for re-election.

Annual General, Lecture and Exhibition Meeting 4 January 1975

The Annual General Meeting will be held at 10.00 on Saturday 4 January 1975 in the Department of Botany, Imperial College, Beit Hall, Prince Consort Road (north side), South Kensington, London SW7, by kind invitation of Professor A.J. Rutter, head of the Department. The nearest Underground station is South Kensington, and Exhibition Road connects this station with Prince Consort Road. The Department is immediately to the south of the Albert Hall. It is hoped that all members will endeavour to attend.

Agenda

1. Apologies for absence.
2. Minutes of the last Annual General Meeting and Special General Meeting.
3. Matters arising.
4. Reports of the officers.
5. Place and dates of autumn meeting 1975.
6. Place and dates of annual general, spring and summer meetings 1976.
7. Election of auditor.
8. Election of three members of Council.
9. Election of officers.
10. Any other business.

J. R. LAUNDON
Honorary Secretary

Following the Annual General Meeting there will be an exhibition meeting from 11.00 until 12.00. Members are kindly requested to make a special effort to contribute exhibits of lichenological interest. Exhibits of the theme "lichens on man-made habitats" would be particularly appreciated. Demonstrations should include a title and name of exhibiter.

The lecture meeting will continue in the afternoon in the same building. In order to denote European Architectural Heritage Year 1975 the lectures will deal with lichens on man-made habitats, and will include the showing of colour transparencies. The theme should be of wide appeal, and non-members are also invited to the afternoon session. The full programme is as follows:

10.00 Annual General Meeting.

11.00 Exhibition Meeting.

12.00 Lunch. Members are kindly requested to make their own arrangements.

13.00 The restaurants Dauphine (Thurloe Street), Barino (Harrington Road) and The Hayloft (Harrington Road), all near South Kensington Station, are recommended.

14.00 Lecture; J. R. LAUNDON: Lichens on buildings and constructions.

14.45 Lecture; M. R. D. SEAWARD: Aspects of the eco-physiology of Lecanora muralis on asbestos cement.

15.30 Tea interval.

16.00 Lecture; P. M. EARLAND-BENNETT: Acidiphilous lichens on calcareous substrates.

Treasurer's report to the Annual General Meeting will be submitted by the Treasurer.

In order to comply with Rule 9 of the Society, the Council has decided that the report of the Treasurer, under item 4 of the agenda of the Annual General Meeting, shall be the report and audited accounts of the previous year but one. It is hoped that the Treasurer might be able to give a brief verbal statement on some matters concerning the previous year's finances.

Day excursion in the New Forest March 1975

A day excursion in the New Forest will be held on Saturday 22 March 1975 under the leadership of Dr F. Rose, in conjunction with the Southampton Natural History Society. Meet at Lyndhurst Road Station at 11.00 hrs. Train leaves Waterloo, London, at 9.30 for Southampton; change at Southampton for Lyndhurst Road. Wear gum boots because the terrain is very boggy in places, and bring packed lunch. Rushpole Wood, Wood Crates, etc., will be visited by car, and a good selection of lichen habitats will be observed. Please note that collecting will be restricted to the common lichen species only, as the New Forest rarities must not be taken. There are return trains from Lyndhurst Road at 49 minutes past each hour.

Spring field meeting in Alderney April 1975

The 1975 spring field meeting will be held from Wednesday evening 2 April to Wednesday morning 9 April 1975 on Alderney (Channel Islands) under the leadership of Mr P.W. James. Travel is by air. The only direct daily flights from England are by Aurigny Air Services from Southampton (Eastleigh) airport, where there is a special railway station on the main line from London (Waterloo) to Bournemouth. Many members may find it more convenient to fly from London (Gatwick) airport to Guernsey or Jersey and hence on to Alderney, insisting on the direct Gatwick/Alderney fare (no extra charge). There is also a daily flight between Alderney and Cherbourg (France) with fast rail connections to Paris.

Members must book their own accommodation. Packed lunches will be required each day. Early booking is essential. The Royal Connaught Hotel, Connaught Square, St Annes, is the headquarters hotel and members should meet outside here at 9.30 on Thursday 3 April 1975. There is no VAT in the Channel Islands and prices are for 1975 unless otherwise stated. Accommodation is as follows:

Royal Connaught Hotel, Connaught Square, St Annes (headquarters) (telephone: Alderney 2756). 3 family, 12 double, 2 single. £6.55 double, £7.56 single full board per day; £5.95 double, £6.96 single dinner, bed & breakfast; £4.68 double, £5.83 single bed & breakfast. All plus 10 per cent. service.

Chez Andre Hotel, Victoria Street, St Annes (telephone: 2777). 1 family, 17 double, 2 single. £9.50 full board per day; £8.00 dinner, bed & breakfast; £6.00 bed & breakfast. All plus 10 per cent. service.

Town House, High Street, St Annes (telephone: 2330). 2 family, 7 double, 3 single. £3.30 dinner, bed & breakfast; £2.30 bed & breakfast. Prices include service. (1974 prices.)

Victoria Hotel, 1, Victoria Street, St Annes (telephone: 2754). 3 family, 3 double, 1 single. £3.75 dinner, bed & breakfast, plus 10 per cent. service.

Further information on accommodation and travel may be obtained from the Tourist Office, St Annes, Alderney, Channel Islands. Members attending should complete the form at the end of this Bulletin. This is the first time that a meeting has been held on Alderney, and lichenologists have not studied the flora since the 19th century. The island is known to be very rich in species many of which are common along the Bretagne (Brittany) coast, and reach their northerly limits in the Scilly Isles and south-west England.

Day excursion to Kent May 1975

The twelfth annual day excursion with the Kent Field Club led by Mr F. H. Brightman and Mr J. R. Laundon will be held on Sunday 4 May 1975. All groups of plants will be studied on walls in Folkestone, Kent. Meet at Folkestone Central Station at 11.00. Bring packed lunch. Train leaves Charing Cross, London, at 9.10 arriving at Folkestone Central at 10.41.

Summer field meeting in Ayrshire 1975

The summer field meeting will be held in Ayrshire under the leadership of Mr B.J. Coppins, from Wednesday evening 30 July until Thursday morning 7 August 1975. Girvan will be the centre and the Ailsa Arms Hotel will be the headquarters; members should meet outside here at 9.30 on Thursday 31 July. Early booking is essential. Members must book their own accommodation and return the attached form to Mr Coppins; packed lunches will be required each day. The meeting has been arranged so that members travelling by train should be able to take advantage of economy return tickets which are for mid-week travel (Tuesday, Wednesday, Thursday) but must be booked at least three weeks in advance. The present economy return fare to Girvan is £9.79 from London, compared with the second class ordinary return of £17.64. Mr B. J. Coppins, Royal Botanic Garden, Edinburgh, EH3 5LR, will be able to supply members with a full list of accommodation. The main hotels in Girvan are as follows; prices are for 1975 except where indicated:

Ailsa Arms Hotel, Old Street (headquarters) (telephone: Girvan 3172). 6 double, 6 single. £3.35 bed & breakfast, £4.75 full board, £33.25 full board per week. Prices include VAT and service. (1974 prices.)

Auchendolly Hotel, 30 Louisa Drive (telephone: 2189). 6 double. £3.50 bed & breakfast, £4.70 dinner, bed & breakfast, £28 dinner, bed & breakfast per week. All plus VAT.

Barbara Guest House, 16 Louisa Drive (telephone: 2398). 6 double, 2 single. About £23 bed & breakfast per week. No evening dinner.

Carrick Arms Hotel, Dalrymple Street (telephone: 2261). 6 double, 3 single. £3.60 bed & breakfast, £37 full board per week. Prices include VAT. (1974 prices.)

Westcliffe Hotel, 15 Louisa Drive (telephone: 2128). 5 family, 5 double. Prices on application.

Lichenologist published

Part 1 of volume 6 of The Lichenologist was published on 19 August 1974. Any paid-up ordinary member who did not receive a copy should inform the Treasurer, Mr S. A. Manning, 10 Alliance Court, Hills Road, Cambridge, CB2 4XE.

Progress in the study of the Devonshire lichen flora

Since the announcement of this project in Bulletin 30:7 (1972) a great deal of fieldwork has been carried out in Devonshire. Some 710 species are recorded for the county of which 606 have been seen since 1960. A summary of the progress so far, expressed in terms of the number of species seen since 1960 in each of the 10 km grid squares in the county, is indicated in the figure below. It will be seen that while some data (apart from one fragment) are available for all squares, many still have totals of less than 150 species. I would be very pleased to receive further records from such squares and would be grateful if members driving through Devonshire on holiday could stop briefly in some of these. Record sheets for Devonshire may be obtained from me at the Commonwealth Mycological Institute, Ferry Lane, Kew, Richmond, Surrey, TW9 3AF. The records submitted will also be forwarded to the Society's Distribution Maps Scheme.

I am anxious that this, one of the richest English counties for lichens today, should be as fully documented as possible in order to provide a sound basis for the assessment of any changes in the lichen flora and vegetation which may occur in the future.

D. L. HAWKSWORTH

POST-1960 RECORDS									
DEVONSHIRE 10 KM SQUARES									
POST-1960 RECORDS									
4	130	4	5	6	142	5			
4	123	160	156	219	8				
2	115	77	192	86	37	9	3	0	
2	209	170	76	125	121	133	67	64	31
1	119	102	113	93	93	73	74	18	74
0	66	88	91	61	49	89	103	73	76
1	31	281	29	51	133	88	40	98	87
2	8	123	76	138	169	153	143	139	99
7	94	106	201	176	178	95	94	0	7
3	6	133	136	154	138	99	205	6	0
5	61	112	78	130	142	96			5
4	18	60	137	168	299	22	4		
4	45	5	3	3	99	190	116	3	9
6	6	7	8						

Date of analysis: 22 Oct. 1974

Lichen courses 1975

DEVONSHIRE. Slapton Ley Field Centre, Slapton, Kingsbridge, TQ7 2QP. 13 - 20 August 1975. Lichens. D. L. Hawksworth.

PEMBROKESHIRE. Orielton Field Centre, Pembroke. 30 July - 6 August 1975. Lichens. P. W. James.

SHROPSHIRE. Preston Montford Field Centre, Montford Bridge, Shrewsbury. 28 May - 4 June 1975. Monitoring pollution. P. W. James.

The wardens at the field centres will supply further details, and information regarding bursaries and grants available for those who attend.

Regional representatives

The Society wishes to appoint regional representatives to send in details of local lectures and field meetings concerning lichens, so that these could be included in the Bulletin. Any member who would be kind enough to act as a regional representative should send their name and proposed region to the Secretary, Mr J. R. Laundon, Department of Botany, British Museum (Natural History), Cromwell Road, London SW7 5BD.

Increase in Reading Circle subscriptions

The Council of the Society has decided that the Reading Circle subscription must bear some relation to the cost to the Society of the journals being circulated, and the subscription will therefore be increased to £1 from 1 January 1975. Previously the Reading Circle subscription was £0.25, there having been no increase over the past ten years. Two journals, The Bryologist and Revue Bryologique et Lichénologique, are circulated. Members interested in taking advantage of this facility should write to the Reading Circle Secretary, Dr D. H. Brown, Department of Botany, The University, Woodland Road, Bristol, BS8 1UG.

Increase in price of Pd

The price of a 25 g bottle of p-phenylenediamine (Pd) has been increased from 50 p to 80 p. This is because of a corresponding increase in the cost of the Society's supplies. The chemical is available from the Secretary, Mr J. R. Laundon, Department of Botany, British Museum (Natural History), Cromwell Road, London SW7 5BD (telephone: 01 - 589 6323 ext. 552) for collection by hand. It is regretted that it cannot be supplied by post. See Bulletin 26: 5 (1970) for the hazards of this chemical.

Binding the Bulletin

A title-page and index for No. 26 - 35 of the Bulletin are issued with this number for those who wish to keep their copies in bindings. These comprise two sheets of card and a plastic slidebinding spine three-quarters of an inch wide, which can be obtained from stationers. Permanent binding of the Bulletin is not recommended because of the narrow margins.

Individual maps scheme

The following addition to the list of individual mappers should be noted:

Placopsis gelida P. D. Crittenden, Department of Botany, The University, Sheffield S10 2TN.

Study of Parmelia tiliacea

Mr F. Dobson and Dr D. L. Hawksworth (Commonwealth Mycological Institute, Ferry Lane, Kew, Richmond, Surrey, TW9 3AF) are carrying out a study of the taxonomy of Parmelia tiliacea (Hoffm.) Ach. (incl. infraspecific taxa; syn. P. scortea (Ach.) Ach.) in the British Isles. They would be very pleased to examine any British material in members' herbaria which should be sent to Dr Hawksworth. The loan of specimens in provincial herbaria which have not already been examined would also be much appreciated.

A second updated edition of M. F. Hale's excellent introduction to lichenology called The Biology of Lichens was published in the autumn of 1974 by Edward Arnold, London. It costs £2.75. The book is one of a series of student texts in Contemporary Biology.

The Richmond Publishing Co. Ltd., Orchard Road, Richmond, Surrey, TW9 4PD, are setting up a book sales department and will be stocking a wide range of currently available lichenological works. A list of titles stocked will be sent to members on request. The company regret that they have had to raise the price of Dahl & Krog's Macrolichens of Denmark, Finland, Norway and Sweden (1973) to £17.50 or £3.95 post free because of the recent fall in the value of the pound against the Norwegian krone.

The Commonwealth Mycological Institute have this year published a book called the Mycologists Handbook by D. L. Hawksworth. The book is a most useful comprehensive guide for anyone concerned with the naming of lichens and fungi. A whole host of other aspects of lichenology and mycology are reviewed and described: collection, examination, preservation, naming, describing, mapping, preparation of monographs, keys, floras, etc., and many other matters, together with the citation of numerous examples. Parts of the International Code of Botanical Nomenclature pertinent to mycologists and lichenologists are reproduced. £2.75 paperback, £5.50 hard covered or £3.50

Report on exhibits at Bristol symposium, 1974

The international symposium on "Progress and Problems in Lichenology" held in April this year at Bristol was an outstanding success. It was arranged by the British Lichen Society and the Systematics Association and was the first international meeting held in Britain to be devoted entirely to lichens. Over seventy lichenologists of some fifteen nationalities, from Europe, Israel, North America and New Zealand attended. Many of the papers presented are to be published in a single volume. The following exhibits were displayed at the symposium:

ANON. Hepatic/Cyanophyte symbioses.

BOUSFIELD, J. & PEAT, A. The ultrastructure of Colema tenax. COMMONWEALTH MYCOLOGICAL INSTITUTE. Some publications.

DONALDSON, A., PEAT, A., SKINNER, J. F., WHITTON, B. A. An interesting blue-green algal lichen from Aldabra Atoll.

GALLOWAY, D. J. Lichens from New Zealand.

GEORGE'S BOOKSHOP. Book display.

GILBERT, O. L. Rev. William Johnson 1844-1919.

MARGOT, J. The soredia of Hypogymnia physodes (L.) Nybl. cultures. A biological test

of joint action of pollution and relative humidity.

RICHARDSON, D. H. S. The Vanishing Lichens (proof of book).

SKINNER, J. F. Algae, lichens and weathering on sandstone walls in Durham.

SKINNER, J. F. Lichen growth and spheroidal weathering on dolerite in north-eastern England.

New members

The following new members joined the Society between June and October 1974:

Chalk, Miss M. J., 55 School Road, West Wellow, ROMSEY, Hampshire, SO5 0AR.

Coles, B. F., Oakwood Farmhouse, Streat, HASOCKS, Sussex.

Garcia, J., The Old Lodge, Ockford Ridge, GODALMING, Surrey, GU7 2NN.

Green, Mrs M., Wedow Bank Farm, EGREMONT, Cumbria, CA22 2UE.

Libbey, R. P., B.Sc., 143 Gaywood Road, KING'S LYNN, Norfolk, PE30 2QA.

Neville-Smith, Mrs M. E. V., Dunedin, New-Lane, Sheriff Hutton, YORK.

Ross, K. W., Ardoyne, Alexandra Terrace, FORRES, Morayshire, IV36 0DL.

Rundel, Dr P. W., Department of Population & Environmental Biology, University of California, IRVINE, California 92664, U.S.A.

Vezda, Dr A., Institutum Botanicum, Academiae Scientiarum Cechoslovacae, Tabor 28a, CZ-60200 BRNO, Czechoslovakia.

Extracts

E - Social no 6/1

"The Council at Badgeworth, Gloucestershire, has refused permission for a vehicle washing centre because of fears that dirty water would pollute a tiny nature reserve containing... a lichen so rare that botanists have yet to identify it." The Guardian (21 February 1973).

"The Parmelia 'Weekender' ... A great way to tell your wife 'I love you'." The West Australian (14 January 1974). (advertisement).

"As in previous years Professor J. V. Dacie has had some worthwhile captures at his home on the borders of Wimbledon Common." Lond. Nat. 53: 97 (1974).

"We would thank our wives for their tolerance and support and also our respective relations in Wirral" Naturalist, Hull 1926: 105 (1973).

"Bromley-by-Bow Gasworks for aliens" Lond. Nat. Hist. Soc. Programme February-July 1972: 20.

"Jack Laundon went to the local churchyard before he decided to get a home and put down roots in a new area. For the moss on the gravestones told him everything he wanted to know about local pollution... And he believes that lichen(s) today hold the key to healthy living... For saving lichen could also save lives." Daily Mirror (1 March 1974).

"William Rigden who was for many years a respectable inhabitant of this Parish" Inscription on memorial to William Rigden (died 1776) in St Mildred with St Mary de Castro's churchyard, Canterbury, Kent. (Seen on Lichen Society excursion.)

"Lichens are beautiful and interesting but do not obtain many votes." Professor Kenneth Mellanby, as reported in Clean Air 4(13): 15 (1974).

"Pakistan Journal of Botany ... A. Ghaffar, Chief Editor" Pakistan J. Bot. 6: inside cover (1974).

Literature on lichens - 23

ANDERSON, R. A. & CARMER, M.-B. 1974. Additions to the lichen flora of Colorado.

Bryologist 77: 216 - 223. (*Leccidea tornoensis* Nyl. is transferred to *Mycoblastus tornoensis* (Nyl.) R. Anderson.)

COPPINS, B. J. & LAMBLEY, P. W. 1974. Changes in the lichen flora of the parish of Mendlesham, Suffolk, during the last fifty years. Suffolk Nat. Hist. 16: 319 - 335. (160 taxa: 62 extinct.)

EARLAND-BENNETT, P. M. 1974. *Umbilicaria spadochroa* (Hoffm.) DC. from Ireland. Lichenologist 6: 128 - 129. (New British record.)

EARLAND-BENNETT, P. M. & SEWARD, M. R. D. 1974. Field meeting in the Hebden Valley, Yorkshire. Lichenologist 6: 115 - 121. (Many lichen records. First report of *Lepraria zonata* from Europe.)

GARRETT, R. M. 1974. A species of Chrysopa of special interest to lichenologists. Revue bryol. lichen. II, 40: 283 - 286. (Dispersal of lichens by Chrysopa larvae.)

GILBERT, O. L. 1974. An air pollution survey by school children. Envir. Poll. 6: 175-180. (Includes pollution zonation map of Great Britain based on the biological scale deployed.)

GREEN, T. G. A. & SMITH, D. C. 1974. Lichen physiology. XIV. Differences between lichen algae in symbiosis and in isolation. New Phytol. 73: 753 - 766.

GRUMMANN, V. 1974. Biographisch-bibliographisches Handbuch der Lichenologie. Cramer, Lehre. (935 pages. Includes numerous photographs and signatures of lichenologists. Price: DM 200 (about £34.))

HALE, M. E. 1974. The Biology of Lichens. Ed. 2. Arnold, London. (£2.75. An excellent introduction to lichenology. Updated.)

HAWKSWORTH, D. L. 1973. Some advances in the study of lichens since the times of E. M. Holmes. J. Linn. Soc. Bot. 67: 3 - 31. (Historical summary.)

HAWKSWORTH, D. L. 1974. Man's impact on the British flora and fauna. Outlook on Agriculture 8(1): 23 - 28. (Several references to lichens.)

HAWKSWORTH, D. L. 1974. Literature on air pollution and lichens I. Lichenologist 6: 122 - 125. (List of publications with abstracts.)

HAWKSWORTH, D. L. 1974. Mycologist's Handbook. Commonwealth Mycological Institute, Kew. (Equally valuable for lichenologists. £5.50 hard cover; £2.75 paperback.)

HAWKSWORTH, D. L. 1974. Lichenology a science for our times. The Times Educational Supplement 3085 (12 July 1974): 14 - 15. (Review; literature.)

- HAWKSWORTH, D. L. (Editor) 1974. The Changing Flora and Fauna of Britain. (Systematics Assoc. Special Vol. 6) Academic Press, London & New York. (£9.20. Includes chapter on "Changes in the British lichen flora" by Hawksworth, Coppins & Rose; several maps.)
- HENSSSEN, A. 1974. New or interesting cyanophilic lichens II. Lichenologist 6: 106 - 111. (Includes an account of the British species Porocyphus kenmorensis (Holl ex Nyl.) Henss.)
- JOHNSEN, I. & SØCHTING, U. 1973. Influence of air pollution on the epiphytic lichen vegetation and bark properties of deciduous trees in the Copenhagen area. Oikos 24: 344 - 351. (Limits of species distribution compared with sulphur dioxide levels.)
- LAUNDON, J. R. 1974. Leproplaca in the British Isles. Lichenologist 6: 102 - 105. (Taxonomic account. Two species: Leproplaca xantholyte (Nyl.) Hückel & L. chrysodeta (Vain. ex Räs.) Laundón, comb. nov.)
- NOURISH, R. & OLIVER, R. W.A. 1974. Chemotaxonomic studies on British lichens I. Cladonia subgenus Cladina. Lichenologist 6: 73 - 95. (Includes application of the most modern physicochemical techniques.)
- PENTECOST, A. & FLETCHER, A. 1974. Tufa: an interesting lichen substrate. Lichenologist 6: 100 - 101. (Thelidium microcarpum on tufa from Malham, Yorkshire.)
- PEVELING, E. & HILL, D. J. 1974. The localization of an insoluble intermediate in glucose production in the lichen Peltigera polydactyla. New Phytol. 73: 767 - 769.
- ROSE, F. & JAMES, P. W. 1974. Regional studies on the British lichen flora I. The corticolous and lignicolous species of the New Forest, Hampshire. Lichenologist 6: 1 - 72. (Detailed descriptive account, including communities. Catinaria intermixta (Nyl.) P. James is considered to be the correct name for C. laureri.)
- SEAWARD, M. R. D. 1974. A note on Phauloppia lucorum C.L.Koch (Acari: Oribatidae) and lichens. Lichenologist 6: 126 - 127.
- SMILEY, D. & GEORGE, C. J. 1974. Photographic documentation of lichen decline in the Shawangunk Mountains of New York. Bryologist 77: 179 - 187. (Photographic comparisons (in pairs) of rock surfaces from 1870 to 1973.)
- SØCHTING, U. 1973. Anatomical and cytological characteristics of unpigmented Caloplaca verruculifera from Denmark. Bot. Tidsskr. 68: 152 - 156. ("The unpigmented thallus ... seems to be the result of a mutation causing a block in the biosynthesis of the anthraquinones.")
- SØCHTING, U. & JOHNSEN, I. 1974. Changes in the distribution of epiphytic lichens in the Copenhagen area from 1936 to 1972. Bot. Tidsskr. 69: 60 - 63. (Hypogymnia physodes has increased towards the city centre due to bark acidification caused by increased sulphur dioxide emission.)

Societies hit by paper shortage

The shortage of paper is already having an effect on the running of biological societies. White A4 size duplicating paper has not been readily available in the central areas of London since the autumn of 1973, bulk orders of envelopes are taking over six months to be delivered, and current orders for quality printing paper cannot be met until 1976. The lack of pulp and chemicals are the chief reasons for the shortage, but the facts that Canadian paper is now exported chiefly to the United States (instead of to Europe), and much of Britain's paper is now exported as it is now the cheapest in Europe because of the fall in the value of the pound, are important additional factors in a situation which is showing no improvement. Societies already hit by the shortage include the British Phycological Society, whose Newsletter 6.2 (1973) was curtailed by lack of duplicating paper, and the London Natural History Society, whose principal journal had to be run off on inferior paper this year. The British Lichen Society has experienced difficulty in getting envelopes in bulk.

BULLETIN 35. Issued by the British Lichen Society, c/o Department of Botany, British Museum (Natural History), Cromwell Road, London SW7 5BD. Edited by J. R. Laundon. Duplicated by Brown's Typewriting Service Ltd., Helena Street Works, Burnley, Lancashire. December 1974.

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