

BRITISH LICHEN SOCIETY

President: P. W. James, B.Sc., F.L.S.

BULLETIN 29

October 1971

Society to supply paraphenylenediamine

The Society is now able to supply paraphenylenediamine (Pd) at a cost of 50 p for a 25 g bottle. This is because of the difficulties many members have experienced in obtaining this chemical. It is obtainable 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). Quantities under 25 g cannot be supplied. It is regretted that the chemical cannot be sent through the post because of the risk of breakage. It must be collected from the Museum by hand. It is sold under the condition that liability for any personal injury or damage whatsoever to any property real or personal arising from its handling or use will in all cases remain with the handler or user. Bulletin 26: 5 (1970) gives details of the hazards of this chemical.

Xerox copies of early Lichenologists for sale

The Society is producing Xerox copies of volume one and volume two of The Lichenologist, which are otherwise out of print. The volumes are £4 each to members and £5 each to non-members, all post free. Copies should be ordered from Mr. A. R. Milne, Roche Products Ltd., 15 Manchester Square, London W1M 6AP. Money should accompany orders, payable to the "British Lichen Society". A form for members to obtain copies is included at the end of this Bulletin.

Banker's order form

Members resident in the British Isles are asked to help the Society by immediately completing the enclosed banker's order form and returning it to the Hon. Treasurer, Mr S. A. Manning, 28 Gilmerton Court, Long Road, Cambridge, CB2 2HQ, without delay. Please print your name in block capitals below your signature and add your address. No stamp is needed now.

Subscriptions for 1972 remain at:

Member	£2.00
Junior member (under 21, or under 25 if receiving full-time education)	£1.00
Family member	£0.25

It is particularly important that members who have previously used a banker's order form should complete the new one immediately because it allows for the rapid transfer of accounts from Bristol to Cambridge. Other members are urged to complete the form quickly too.

The next part of The Lichenologist is being dispatched to all members who, according to the Society's records, have paid a subscription for 1971. Members who do not receive a copy are asked to write to the Treasurer, Mr S. A. Manning, and (a) say when and how they paid their 1971 subscription OR (b) send their 1971 subscription.

1972 subscriptions

Members resident in the British Isles:

Please complete the enclosed banker's order form and return to the Treasurer straight away or pay your subscription on or before 1 January 1972 by sending a

crossed cheque or postal order made payable to the British Lichen Society. Please do not send cash or uncrossed cheques or postal orders.

Members resident in U.S.A. or Canada:

Please send your personal cheque (check) for the dollar equivalent of your subscription (U.S. members please add 25 cents handling charge) to the Hon. Regional Treasurer for North America, Dr D. H. S. Richardson, Department of Biology, Laurentian University, Sudbury, Ontario, Canada, on or before 1 January 1972.

Members who wish to send their subscription direct to the Treasurer in England should send their personal check for the dollar equivalent plus 25 cents to Mr. S. A. Manning, 28 Gilmerton Court, Long Road, Cambridge CB2 2HQ, England, making the check payable to the British Lichen Society.

Other members:

Please send your subscription in sterling by International Money Order or by cheque drawn on a bank in London (The Society's bankers are The National Westminster Bank Ltd., account number 54489938, and the Society's account is held at the 10 Bene't Street, Cambridge branch (sorting code 60-04-23). If in difficulty please consult your bankers and show them this note. Please do not send postal orders.

Important notice

In order to save considerable expense, the Society is not sending out invoices for 1972 subscriptions, but members are asked to pay without delay. Members resident abroad who need documents for currency purposes are asked to write to the Hon. Treasurer.

Programme for autumn meeting at Portsmouth, 1971

The autumn weekend meeting will be held at Portsmouth on Saturday 30 October 1971 and on Sunday 31 October. There will be no meeting on Friday evening. Because of the shortage of lectures the indoor meeting will be held on Saturday morning (not all day on Sunday as stated previously) and the remainder of the meeting devoted to field work. The programme is as follows:

Saturday 30 October 1971. Morning. 10.30 - 12.30. Lectures at Department of Biological Sciences, Park Road, Portsmouth. (Department opens at 9.30.)

J. F. FARRAR, B.A. The physiological approach to lichen ecology.

F. ROSE, Ph.D. New Forest lichens. (Introduction to the field excursions.)

D. I. MORGAN-HUWS, B.Sc. The effects of pollution from Fawley on lichens.

Saturday 30 October 1971. Afternoon. Field excursion.

Sunday 31 October 1971. Field excursion to the New Forest under the leadership of Dr F. Rose. Meet at Sir John Barleycorn public house, Cadnam (SU 291136) at 11.00. Members can also be picked up at the Department of Biological Sciences, Park Road, at 9.30 and Southampton Central Station at 10.30. Bring packed lunch.

The Department of Biological Sciences is at the end of Park Road. The latter runs down the side of the Guildhall, which is opposite Portsmouth and Southsea Station. There are two fast trains an hour between this station and Waterloo (London) and the journey time is ninety minutes. Details of accommodation can be obtained from the Information Bureau, Castle Building, Southsea (Telephone: Portsmouth 26722). The Pendragon Hotel, Clarence Road, Southsea (Portsmouth 23201) is near the Department and provides bed and breakfast. There is a Youth Hostel at Wymering, Cosham, Portsmouth, with frequent buses to the Department.

## Nominations for Officers and Council

Nominations for Officers for 1972 and Council Members for 1972 - 73 should be sent to the Secretary before 25 December 1971 on the enclosed form. No person shall be nominated without their consent. Miss J. Embrey, Dr F. Rose and Dr Pauline B. Topham, retire from the Council and are not eligible for re-election.

## Annual General, Lecture and Exhibition Meeting, 8 January 1972

The Annual General Meeting will be held at 10.00 on Saturday 8 January 1972 in the Department of Botany, Imperial College, Beit Hall, Prince Consort Road (north side), South Kensington, London S.W.7, 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.
3. Matters arising.
4. Reports of the officers.
5. Motion by Council: that the ordinary subscription shall be increased to £3 from 1 January 1973.
6. Motion by Council: that the junior subscription shall be increased to £2 from 1 January 1973.
7. Place and dates of autumn meeting, 1972.
8. Place and dates of annual general, spring and summer meetings, 1973.
9. Election of auditor.
10. Election of three members of Council.
11. Election of officers, including President and Vice-president.
12. Any other business.

J. R. LAUNDON  
Honorary Secretary.

Following the Annual General Meeting there will be the exhibition meeting from 11.00 until 12.00. Some exhibits from the First International Mycological Congress will be displayed. Members are asked to make a special effort to contribute exhibits of lichenological interest. All exhibits should display a title and name of the person responsible for the demonstration.

The Lecture meeting will continue in the afternoon in the same building. The full day's programme is as follows:

- 10.00 Annual General Meeting.
- 11.00 Exhibition Meeting.
- 12.00 Lunch; members to make their own arrangements.
- 14.00 Lecture; A. FLETCHER, B.Sc., M.Sc. Physiological aspects of maritime lichen ecology.
- 15.00 Tea interval.
- 15.30 Lecture; M. SUSAN BADDELEY, Ph.D. The effect of sulphur dioxide on respiration in lichens.

## Spring field meeting at Newquay, 1972

The spring field meeting will be centred on Newquay, Cornwall, from Wednesday evening 29 March 1972 to Wednesday morning 5 April, under the leadership of Mr J. D. Guiterman. The annexe of Yonder Towan Field Centre, Beachfield Avenue, will be the headquarters accommodation and members should meet outside the Centre itself at 9.30 on Thursday 30 March. Beachfield Avenue is situated between the main street and the old harbour. Members must book their own accommodation and

return the enclosed form to Mr Guiterman. Packed lunches will be required each day.

There are numerous hotels and guest houses in Newquay, a list of which, together with terms, may be obtained from The Newquay Publicity Committee, Municipal Offices, Newquay, Cornwall. Accommodation includes:

Cresta Hotel, Beachfield Avenue (Telephone: Newquay 2561). 8 rooms.

Full board £14 per week.

Terraskane Hotel, Mount Wise (Telephone: 2066). Licensed. Full board £15 per week.

Yonder Towan Field Centre, Beachfield Avenue (Telephone: 2756). 9 rooms + 10 rooms in annexe. Full board £14 per week. Headquarters for the Meeting.

#### Other meetings, 1972

Provisional arrangements for other meetings in 1972 include a day excursion on 7 May to Sevenoaks, Kent, to study saxicolous lichens, and a summer field meeting from 2 - 9 August in the Wexford area of Ireland. Full details of these meetings will appear in later numbers of the Bulletin.

#### Hereford field meeting cancelled

The Council regret that the Hereford summer field meeting, due to take place from 4 - 11 August 1971, advertised in Bulletin 28, had to be cancelled because of the complete lack of participants. This is the first time that a meeting of the Society has been abandoned. The pre-Congress meeting at Ilfracombe in the following month evidently proved more attractive to the membership. The cancellation draws attention to the necessity for filling in and sending off the form provided for participants of field meetings at the end of each Bulletin.

#### University Extension Courses on lichens

The University of London has arranged a University Extension Course on lichens to be given by Mr P. W. Janes at Norwood Technical College, Tower Bridge Branch, Tooley Street, London S.E.1. There will be thirteen meetings, including two visits, commencing on Tuesday 11 January 1972 at 19.30. The enrolment fee is £1.10 and application forms should be obtained from Dr J. F. Potter at the above Branch.

There is also a Weekend Course on Cryptomagic Epiphytes to be given by Mr R. H. Bailey and Dr F. Rose at Haslemere Educational Museum, Haslemere, Surrey, from 7 - 9 April 1972. The fee is £0.50 and accommodation is available in hotels and guest-houses in the town. Application forms should be obtained from the Deputy Director (Extension), Room 8, 7 Ridgmount Street, London WC1E 7AD (Telephone: 01-636 8000 ext. 274).

#### Death of Dr R. E. Beschel

Dr Roland E. Beschel died suddenly in Kingston, Ontario, in January 1971. He was born in Austria in 1928 but went to live in Canada in 1956. At the time of his death he was a Professor of Biology at Queen's University. His early work on lichens chiefly concerned urban studies, and he published a detailed account of the lichen flora of Innsbruck in 1958. This work supported Dr Rydzak's views, now usually discredited, that dryness was the main cause of lichen poverty in towns. During the fifties he developed lichenometry, a means of dating rock surfaces using the growth rate of lichens. He claimed that some Rhizocarpon thalli in continental Greenland were possibly 4,500 years old, thus placing lichens amongst the oldest living things on Earth. His original ideas enhanced the development of lichenology, and he will be greatly missed.

## Southern Hemisphere lichens transplanted in Bristol

On 19 July 1970 the SS Great Britain returned to the original dry dock in Bristol from which she had been launched, to the day, 127 years before. This fitting return of the first iron hulled, propeller driven ocean-going ship, designed by Brunel and built in Bristol, was of great maritime interest. In addition it offered British lichenologists the chance of seeing Falkland Islands lichens without any tedious journey. The reason for the presence of such lichens was that on its final voyage in 1886 (as a sailing ship), failing to round Cape Horn, the SS Great Britain was sold as a storage hulk to the Falkland Island Co., who finally beached her in 1936 as a wreck near Port Stanley in the Falkland Islands. In 1882 part of the iron hull had been covered in wood and this and the deck timbers had decayed during the final years in the Falkland Islands, serving as a substratum for lichen colonisation. A few lichens were also found on the rusting metal fittings.

On arrival in Bristol lichens were found growing abundantly over the decks. On the sides of the hull they were mainly to the stern and starboard side, probably reflecting the fact that, when beached, these were the parts nearest to the coast. Nothing is known of the lichen cover of the timber masts, as these were removed before the Great Britain reached Bristol, but photographs indicate that they had a similar rich flora.

Visits to the Great Britain in 1970 and 1971 have shown that many of the more conspicuous lichens have disintegrated and been lost, whilst others only remain as "ghosts" which are now unidentifiable. It therefore appears that the world's longest transplant experiment has been a failure from the point of view of lichenology! Specimens, however, have been collected and when they are fully identified a more detailed report will be prepared. At present it appears that some species are cosmopolitan and occur in the British Isles, while others are confined to the Southern Hemisphere. Crustose species predominate but specimens of Cladonia, Parmelia and Usnea have been collected. None of the identified species can be considered to be strictly maritime in spite of the strongly maritime conditions of the site. Bryophytes, pteridophytes and angiosperms have also been collected but many of these have obviously colonised since the arrival of the Great Britain in Bristol.

Acknowledgment is gratefully made to the officers of the SS Great Britain project for permission to collect material.

D. H. BROWN.

### Individual maps scheme

Miss N. Wallace, 3 Inwood Close, Croydon, Surrey, CR0 8BP, has kindly taken over the mapping of Xanthoria spp. from Dr Richardson, who is at present working in Canada.

The following additions should be noted:

Locanora epanora P.M. Earland-Bennett, Bankfield Museum, Halifax, Yorkshire.

Parmelia incurva M. R. D. Seaward, Trinity & All Saints' Colleges, Horsforth, Leeds, LS18 5HD.

Stereocaulon nanodes Miss N. Wallace.

S. pileatum Miss N. Wallace.

A booklet giving details of 'completed' squares, addresses of individual mappers and their taxa, and details regarding the completion of general mapping cards, is available from the Mapping Recorder, Mr M. R. D. Seaward, on receipt of a 3 p postage stamp. A detailed report on the progress of the scheme will appear in a later Bulletin.

## "Millbrook battle of the botanists"

This headline in The Western Morning News of Tuesday 6 July 1971 indicated that Mr P. W. James and Dr D. E. Hawksworth had presented evidence as to the expected effects on the lichen vegetation of Dartmoor from the 420 tons of sulphur dioxide which the Central Electricity Generating Board are seeking permission to emit each day from a 675 ft stack from a proposed £120 million power station at Insworth Point, Millbrook, near Plymouth. Their evidence was presented to the Public Inquiry at Plymouth which opened on 9 February 1971. Mr James and Dr Hawksworth were present on behalf of the Devon County Council and the Dartmoor National Park Committee; the British Lichen Society did not give separate evidence because the Society based its concern on that already presented.

Mr James and Dr Hawksworth's Proof of Evidence, running to some forty foolscap pages and including distribution maps of rare species, 140 references, copies of reprints, species lists from sites which would be affected, colour photographs, and a display of specimens of Lobaria pulmonaria and Usnea articulata, was presented on Monday 5 July. A penetrating cross-examination by Hon. D. Eve, Q.C., on behalf of the C.E.G.B., continued through Tuesday until Wednesday morning when it was the turn of the Assessor of Pollution and two Inspectors (one appointed by the Department of the Environment and the other by the Department of Trade and Industry), who preside over the Inquiry, to continue the examination. Mr James and Dr Hawksworth were pleased that the bulk of their evidence was uncontested, and feel that the concern of lichenologists was well presented and substantiated. Later Mr I. D. Mercer also gave evidence on the significance of lichens in the environment.

A washing plant to remove 90 - 98 per cent of the sulphur dioxide from the flue gases would cost about £11 million to install and £500,000 per annum to operate. The Inspectors must now decide whether the conservation of the lichens in this part of Devonshire is worth this amount of public money. It is possible that they may feel that the evidence of the many other objectors justifies rejecting the proposed power station altogether.

Lichens have now been brought to the attention of the C.E.G.B. They will be obliged to consider carefully the effects of pollution on lichens from any power stations planned for the future.

D. L. HAWKSWORTH

## Curator's new address

The curator of the Society's herbarium, Mr J. D. Guiterman, has changed his address from Wembley to The Nook, Rosehill, Lostwithiel, Cornwall.

## Referees

The following name is added to the list of specialist referees:

B. J. Coppins, B.Sc., King's College Field Centre, The Red House, Rogate, Petersfield, Hampshire. (Corticolous spp. & Bacidia spp.)

In order to facilitate a more even distribution of material to referees, specimens should be sent for identification to referees other than those working at the British Museum (Natural History), London.

## Report on First International Mycological Congress, 1971

The First International Mycological Congress, sponsored by the British Lichen Society, the British Mycological Society and the British Society for Mycopathology, was held at Exeter, Devonshire, from 8 - 15 September 1971. More than 900 people attended. The Congress was important in that it emphasised that lichenology was part of mycology, and could no longer be regarded as a separate discipline as it had been in the past. In the seven sections of the symposia, lichens were represented in those dealing with taxonomy (lectures by Professor A. Henissen and Dr M. A. Letrouit-Galinou on the ascus in taxonomy; Dr C. F. Culberson and Dr D. L. Hawksworth on chemotaxonomy), ecology (lectures by Dr B. W. Ferry, Dr O. L. Gilbert, Dr D. Jackson Hill, Mr J. R. Laundon, Mr J. Margot, Dr T. H. Nash, Dr D. H. S. Richardson and Dr F. Rose on lichens as indicators of air pollution; Professor J. Poelt, Dr F. Rose and Mr M. R. D. Seaward on distribution and mapping), and symbiosis (lectures by Dr B. Feige, Dr M. Galun, Dr J. W. Millbank, Dr E. Peveling, and Dr D. C. Smith). Lichens were also represented in the demonstrations, slide shows, as well as in the exhibition of historical books. An International Mycological Association was formed, particularly to promote future Congresses. The new venture was an outstanding success.

The pre-Congress excursion centred on Ilfracombe, in north Devonshire, from 1 - 5 September, was attended by 28 persons from Australia, Canada, Denmark, Germany, Netherlands, Norway and Sweden, as well as England, Scotland and Wales. The Society was most pleased to welcome so many lichenologists from overseas and it is hoped that more members from abroad will attend the meetings of the Society in the future.

### Dictionary of the Fungi now includes lichens

The sixth edition of Ainsworth & Bisby's Dictionary of the Fungi, published in September 1971, differs from the earlier editions in including lichens. The lichen references are by Mr P. W. James and Dr D. L. Hawksworth. The dictionary has long been a standard handbook for all mycologists, and is now likely to be widely used by lichenologists. It is basically a list of all generic names with systematic position, number of species, distribution, and important references. There are also short accounts of the higher taxa, explanations of terms and short life histories of leading authors. The book is published by the Commonwealth Mycological Institute at Kew, and costs £5.00 (\$ 13.00).

### Anglesey records wanted

A lichen flora of Anglesey, in preparation by Mr A. Fletcher, Marine Science Laboratories, Menai Bridge, Anglesey, is now nearing completion. Mr Fletcher would be most grateful to hear from any workers who have collected in the county with a view to including their records in the flora.

### Rabenhorst reprinted

Dr L. Rabenhorst's Kryptogamen-Flora von Deutschland, Osterreich und der Schweiz, which includes a number of important monographs of lichen families mostly published between 1931 and 1938, has now been reprinted by Otto Koeltz Antiquariat, Herrnwaldstr. 6, Postfach 129, 624 Koenigstein/Taunus, Germany. Single parts on lichens range in price from DM 38 (£4.60) to DM 174 (£20.40) approximately. A detailed listing of this reprint, together with prices, may be obtained from Otto Koeltz Antiquariat.

## Lichenology in Canada

"The woods were flush with flowers, and the little man grew into such an ecstasy, that at every fresh specimen he uttered a yell of joy cut a caper in the air and flung himself down upon them as if he was drunk with delight. 'Oh, what treasures' he cried 'I shall make my fortune'.

'It is seldom I laugh' quoth Brian, 'but I could not help laughing at this odd little man, for it was not the beautiful blossoms such as you delight to paint that drew forth these exclamations, but the queer little plants which he had rummaged for at the roots of old trees, among the moss and long grass. He sat upon a decayed trunk, which lay in our path, I do believe for a long hour, making an oration over some greyish things spotted with red, that grew upon it, which looked more like mold than plants, declaring himself repaid for all the trouble and expense he had been at, if it were only to obtain a sight of them. I gathered him a beautiful blossom of the lady's slipper but he pushed it back when I presented it to him saying 'Yes, Yes 'tis very fine. I have seen that often before; but these lichens are splendid'.

'The man had so little taste that I thought him a fool, and so I left him to talk to his dear plants, while I shot partridges for our supper. We spent six days in the woods, and the little man filled his thin case with all sorts of rubbish, as if he wilfully shut his eyes to the beautiful flowers and chose only to admire ugly, insignificant plants that everybody passes without noticing, and which, often as I had been in the woods I had never observed. I never pursued a deer with such earnestness as he continued his hunt for what he called 'specimens'.

MOODIE, SUSANNAH (née STRICKLAND). 1852. Roughing it in the Bush; or Life in Canada. London.  
(From D.H.S. Richardson, Sudbury, Ontario).

## Literature on lichens

- BAILEY, R. H. 1971. Some lichens from the Olchon valley, Herefordshire. Trans. Woolhope Nat. Fld Club 39: 463 - 466. (Twenty-four species)
- BIBINGER, H. 1970. Soziologische Gliederung der Bartflechtenreichen Epiphytenvereine des Südschwarzwaldes. Herzogia 2: 1 - 24. (Descriptions of five Usneetum unions; key to Usnea spp.)
- BIGELOW, H. E. 1970. Omphalina in North America. Mycologia 62: 1 - 32. (Monograph. Omphalina luteovitellina and O. ericetorum are reported as being "associated with the lichen Botrydina vulgaris." O. hudsoniana (a new combination) is "associated with ... Coriscium viride".)
- CULBERSON, W. L. 1970. Chemosystematics and ecology of lichen-forming fungi. Ann. Review Ecology Systematics 1: 153 - 170. (Review, with emphasis on chemical variation and evaluation.)
- CULBERSON, W. L. 1971. Against the proposal (311) to retain the name Usneaceae Esch. (1824) if these lichen fungi are united with the Ramalinaceae Ag. (1821). Taxon 20: 383 - 384. (Attack on the proposal to conserve Usneaceae Esch. because "it seeks to conserve a familial name in an historical sense that has been abandoned as biologically meaningless".)
- CULLINANE, J. P. 1971. The lichen herbarium at University College, Cork. Ir. Nat. J. 17: 45 - 49. (Includes specimens from Carroll and Larbalestier.)
- DAHL, E. & KROG, H. 1970. On the distribution of Cladonia luteoalba Wils. & Wheld. Nytt Mag. Bot. 17: 143 - 144. (Distribution of Cladonia luteoalba, with comments on taxonomy and ecology.)



- FOLLMANN, G. & HUNECK, S. 1970. Mitteilungen über Flechteninhaltsstoffe. LXXXIII. Zur Phytochemie und Chemotaxonomie einiger Usnea-Arten. Philippia 1: 28 - 37.
- FOLLMANN, G. & HUNECK, S. 1970. Mitteilungen über Flechteninhaltsstoffe. LXXVII. Ergänzende Flechtenanalysen. Willdenowia 6: 3 - 12.
- HANSEN, K. 1971. Lichens in south Greenland. Distribution and ecology. Meddr Grønland 178 (6). (List of macrolichens with habitat details).
- HAWKSWORTH, D. L. 1971. An Introduction to the Lichens of Devonshire. Commonwealth Mycological Institute, Kew. (Booklet produced for pre-International Mycological Congress excursion.)
- HAWKSWORTH, D. L. 1971. Lichens as litmus for air pollution: a historical review. Intern. J. Environm. Stud. 1: 281 - 296. (Invaluable summary of 110 papers, with conclusions.)
- HERTEL, H. 1970. Beiträge zur Kenntnis der Flechtenfamilie. Lecideaceae III. Herzogia 2: 37 - 62. (Discussion of many spp.)
- HERTEL, H. 1970. Trapeliaceae - eine neue Flechtenfamilie. Deutsch. bot. Ges. II, 4: 171 - 185. (Trapelia, Placopsis, Orceolina nom. nov. and "Trapeliopsis" (nom. prov.) are placed in the new family Trapeliaceae.)
- JACOBS, J. B. & AHMADJIAN, V. 1971. The ultrastructure of lichens. II. Cladonia cristatella: the lichen and its isolated symbionts. J. Phycology 7: 71 - 82.
- JAHNS, H. M. & SMITTENBERG, J. C. 1970. Baeomyces roseus Pers. - Ontogenie und Regeneration der Fruchtkörper. Herzogia 2: 79 - 88.
- JANEX-FAVRE, M. C. 1971. Recherches sur l'ontogénie, l'organisation et les asques de quelques Pyrénolichens. Revue bryol. lichén. II, 37: 421 - 649. (Detailed study.)
- JORDAN, W. P. 1970. The internal cephalodia in the genus Lobaria. Bryologist 73: 669 - 681.
- KAPPEN, L. & LANGE, O. L. 1970. Kälteresistenz von Flechten aus verschiedenen Klimagebieten. Deutsch. bot. Ges. II, 4: 61 - 65. (The "distribution of lichens is mostly not determined by their cold resistance.")
- KOFLER, L. 1970. A method to use lichen spores in quantitative studies on germination. Bryologist 73: 602 - 606. (Describes experiments using parafilm sheet.)
- KOPACZEWSKAJA, E. G., MAKAREVICZ, M. F., OXNER, A. N., RASSADINA, K. A. 1971. Handbook of the Lichens of the U.S.S.R. 1. Petusariaceae, Lecanoraceae and Parmeliaceae. (Keys, descriptions, photographs, etc. In Russian.)
- KRISTINSSON, H. 1971. Morphological and chemical correlations in the Cladonia chlorophaea complex. Bryologist 74: 13 - 17. (Correlation between the granule size from within the podetial cups with chemical characters.)
- LANGE, O. L., SCHULZE, E.-D. & KOCH, W. 1970. Experimentell-ökologische Untersuchungen an Flechten der Negev-Wüste. II. Flora, Jena 159: 38 - 62. ("The capability of the lichens to use dew moisture and water vapour to activate their photosynthesis explains their existence and distribution in the central Negev" Desert.)
- LEUCHERT, C., POELT, J. & SCHULTZ, G. 1970. Chemotaxonomische Probleme in der Flechtengattung Pertusaria. Deutsch. bot. Ges. II, 4: 45 - 60. (Chemistry and natural groupings.)

- NOESKE, O., LAUCHLI, A., LANGE, O. L., VIEWIG, G. H., ZIEGLER, H. 1970. Konzentration und Lokalisierung von Schwermetallen in Flechten der Erzschlackenhalde des Harzes. Deutsch. bot. Ges. II, 4: 67 - 79.
- OVERWINKLER, F. 1970. Die Gattungen der Basidiolichenen. Deutsch. bot. Ges. II, 4: 139 - 169 (Sixteen genera.)
- PISÚT, I. & JELÍNKOVÁ, E. 1971. Über die Artberechtigung der Flechte *Lecanora conizaeoides* Nyl. ex Cromb. Preslia 43: 254 - 257. (*Lecanora conizaeoides* is stated to be an ecological modification of *L. varia*, the latter changing morphology and chemistry when transplanted into towns.)
- POELT, J. 1970. Das Konzept der Artenpaare bei den Flechten. Deutsch. bot. Ges. II, 4: 187 - 198. (The evolution of species-pairs of sorediate and non-sorediate, isidiate and non-isidiate, lichens are discussed, with examples.)
- POUZAR, Z. & VEZDA, A. 1971. *Cladonia stellaris* (Opiz) Pouz. & Vezda, the correct name for *Cladonia alpestris* (L.) Rabenh. Preslia 43: 193 - 197. (*Cenomyce stellaris* Opiz (1823) predates *Cladonia alpestris* (L.) Rabenh. (1860).)
- SALISBURY, G. 1971. *Thelotrema wightii* (T. Tayl.) Nyl. Port. Acta biol. B, 11: 35 - 37. (The European *Thelotrema leiospodium* is placed as a synonym of the pan-tropical *T. wightii*. Some remarks on other species are included.)
- SCHMIDT, A. 1970. Anatomisch-taxonomische Untersuchungen an europäischen Arten der Flechtenfamilie Caliciaceae. Mitt. StInst. allg. Bot. 13: 111 - 166. (Taxonomic account of central European representatives, including *Chaenothecosis pusilla* (Flörke) A. Schmidt (*Calicium pusillum*), *Phaeocalicium populneum* (Brond. ex Duby) A. Schmidt (*Calicium populneum*), *Stenocybe maior* and *S. pullatula*.)
- SEAWARD, M. R. D. 1970. The lichen *Parmelia incurva* (Pers.) Fr. in Yorkshire. Naturalist, Hull 915: 130. (Includes account of British distribution.)
- SEAWARD, M. R. D. 1970. F. A. Lees' botanical collections: part 3. Naturalist, Hull 915: 125 - 129. (List of Yorkshire specimens collected by Lees, W. West, etc.)
- SEAWARD, M. R. D. 1970. Bryology and lichenology. Trans. Lincs. Nat. Un. 17: 151 - 153. (Includes additional divisional records for Lincolnshire lichens for 1969.)
- SHEARD, J. 1971. Information and automation in herbaria. International Lichenological Newsletter 5: 1 - 5. (Editorial plea to scientists to conduct their research in a productive and efficient manner. In herbaria "there comes a point when additional specimens are redundant and add nothing to our information bank." Automated production of herbarium labels is recommended.)
- SLOOVER, J. DE, & LEBLANC, F. 1970. Pollutions atmosphériques et fertilité chez les mousses et chez les lichens épiphytiques. Bull. Acad. Soc. Lorr. Sc. 9: 82 - 90. (Correlations between lichen and bryophyte fertility and air pollution.)
- SOMMER, W.-H. 1970. Das "Cladonietosum-problem" in Silikattrockenrasen. Herzogia 2: 117 - 122. (Sociology.)
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YOSHIMURA, I. 1971. The genus Lobaria of eastern Asia. J. Hattori bot. Lab. 34: 231 - 364. (Monograph of thirty-two species.)

#### Treasurer's report for 1969 and 1970

The former Treasurer, Dr. D. H. Brown, greatly regrets the delay in the production of the accounts for 1969 and 1970. It is hoped that the following notes will provide some explanation.

During 1969 no issue of The Lichenologist was produced which was intended for members paying for 1969. The accounts were therefore delayed until the approximate issue(s) had been produced. On opening our publishing arrangement with Blackwell Scientific Publications Ltd. it was stated that one or more parts of The Lichenologist should be produced per year. The 1969 accounts were therefore further delayed until after the publication of a second issue in 1970. This immediately preceded a Council Meeting (on 1 January 1971) at which it was decided that volume 4 part 3 of the journal should be supplied to 1969 members and volume 4 part 4 to those paying for 1970. The accounts have been presented to show this situation.

Our publishers were unprepared to take such an arrangement to their non-member subscribers (institutions, etc.) and it has been arranged that the two latter parts of volume 4 should be sent to institutions etc. who subscribed for 1969. No institutional subscriptions were accepted for 1970, it being declared a blank year.

Under the heading of income the subscriptions for 1969 represent all members who paid for that year and a number of institutions who also paid during the year. The same entry in the 1970 account represents a similar membership income but in addition a certain number of institutional subscriptions paid in 1970 for 1969 accounts are included. Therefore 1969 subscription income is an under estimate of the actual amount which could have been paid while the 1970 one is an over estimate. A sum of about £200 is involved here.

Further delay in presenting the accounts has been caused by the postal dispute at a vital stage of our negotiations with the publishers over costs and also by the presentation of the publishers accounts which required details from the printers and careful breakdown of payments during 1970.

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BULLETIN 29. 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., Fulledge Works, Helena Street, Burnley, Lancashire. October 1971.

British Lichen Society

Income and expenditure account for the year ended 31 December 1969

<u>Income</u>	<u>£. s. d.</u>	<u>Expenditure</u>	<u>£. s. d.</u>
Subscriptions	909.11. 9.	Printing "The Lichenologist" vol. 4 part 3, including net cost of reprints	500.17. 6.
Reading Circle subscriptions	2. 5. 0.	Duplicating & printing	99.15. 5.
Sales of "The Lichenologist"	266.14. 5.	Stationery, addressograph plates, etc.	72.14. 8.
Sales of checklists	15.17. 8.	Postage	44. 1. 5.
Sales of keys	11. 2. 6.	Bank charges	16. 0.
Sales of Dahl's keys	107.19. 8.	Blackwell Scientific Publications Ltd., general costs	19. 9. 3.
Sales of mapping cards	3. 7. 6.	Subscriptions: Biological Council	1. 0. 0.
Interest on Deposit Account	94. 5. 0.	Bryologist	5. 4. 6.
Advertising revenue	44. 0. 0.	Loss on A.G.M. refreshments	1.12. 0.
Donations	2. 8. 0.		<u>745.10. 9.</u>
		Excess Income over Expenditure for the year	<u>712. 0. 9.</u>
	<u>£1457.11. 6.</u>		<u>£1457.11. 6.</u>

Balance sheet 31 December 1969

Subscriptions received in advance	45.10. 2.	Cash at bank and petty cash	696.16. 8.
Sundry creditors	1437.11. 7.	Cash on deposit with Central Investment Co.	1700. 0. 0.
General fund:		Sundry debtors	34.13. 0.
Balance 1 Jan. 1969	236. 7. 2.		
Plus excess income over expenditure	712. 0. 9.		
	<u>948. 7.11.</u>		
	<u>£2431. 9. 8.</u>		<u>£2431. 9. 8.</u>

Department of Botany,  
The University,  
Bristol BS8 1UG.

Signed: D. H. Brown,  
Hon. Treasurer  
17 May 1971.

Audited and passed  
Signed: J. H. G. Peterken  
Chartered accountant  
21 June 1971.

British Lichen Society

Income and expenditure account for the year ended 31 December 1970

<u>Income</u>	£. s. d.	<u>Expenditure</u>	£. s. d.
Subscriptions	849.13. 7.	Printing "The Lichenologist" vol. 4 part 4, incl. net cost of reprints	1115. 9. 2.
Reading Circle subscriptions	7. 5. 4.	Duplicating & printing	68.15.10.
Sales of "The Lichenologist"	190.14. 8.	Stationery, addressograph plates, etc.	37. 5. 3.
Sales of checklists	13. 7. 0.	Postage	23.18.10.
Sales of keys	13. 6. 0.	Bank charges	1. 1. 4.
Sales of Dahl's keys	44.14. 5.	Blackwell Scientific Publications Ltd. general costs	14. 0. 1.
Interest on Deposit Account	191.12. 1.	Subscriptions: Biological Council	3. 0. 0.
		Council for Nature	10. 0. 0.
		Bryologist	1.11. 4.
		Loss on A.G.M. refreshments	1.18. 4.
			<u>1277. 0. 2.</u>
		Excess Income over Expenditure for the year	33.12. 9.
	<u>£1310.12.11.</u>		<u>£1310.12.11.</u>

Balance sheet 31 December 1970

Subscriptions received in advance	88. 8. 7.	Cash at Bank (incl. Canadian) & petty cash	638.10. 7.
Sundry creditors	2328. 8. 4.	Cash on deposit with Central Investment Co. Ltd.,	2700. 0. 0.
General fund:		Sundry debtors	60. 7. 0.
Balance 1 Jan. 1970	948. 7.11.		
Plus excess income over expenditure	33.12. 9.		
	<u>982. 0. 8.</u>		
	<u>£3398.17. 7.</u>		<u>£3398.17. 7.</u>

Department of Botany,  
The University,  
Bristol BS8 1UG.

Signed: D. H. Brown,  
Hon. Treasurer,  
17 May 1971.

Audited and passed  
Signed: J. H. G. Peterken  
Chartered accountant  
5 July 1971.

List of members

F.M. = Family member.

H.M. = Honorary member.

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