

President: J.H.G. Peterken, F.L.S.

BULLETIN 20. May 1967

Subscriptions raised to finance twice-yearly Lichenologist

The Annual General Meeting on 7 January 1967 decided that the ordinary subscription should be increased to £2, and the junior subscription to £1, from 1 January 1968, representing a rise of 10/- and 5/- respectively. The subscription for family members remains at 5/- per year. Bankers' Order forms will be sent to British members at a later date.

The main reason for the rise is to bring about a rapid expansion of The Lichenologist, which from next year will be published twice a year, if sufficient material and financial support is available, without reduction in the present size of each part. Twice yearly publication will enable the journal to be more viable, publishing more papers at a quicker turn over. Thus members can look forward to receiving more scientific results and interesting articles without the delays which inevitably occurred when only a single yearly issue was published. The subscription increase will also aid in the financing of more duplicated keys and improvements in other facilities for the benefit of members.

Changes in Rules

At the Annual General Meeting several deletions were made to the existing Rules. These deletions deprive the Council of the right to approve or disapprove of societies and institutions becoming members, and ensure that certain officers and members of the Council take over their new positions immediately on election, instead of waiting until the beginning of the following year. A copy of the Rules, incorporating these changes, is enclosed.

Council's motion of a proposed Rule change introduced to allow greater flexibility in the choosing of the President did not receive sufficient support and was therefore lost. Requiring approval of more than two-thirds of the thirty members present at the meeting, only twelve people supported the change.

Day Excursion

The annual wall tour with the Kent Field Club led by Mr. F.H. Brightman and Mr. J.R. Laundon will be held on Sunday 7 May 1967. Meet at Appledore Station, Kent (grid ref. TQ 976298) on road B 2080 at 11.15. Bring packed lunch. Train leaves Charing Cross, London, at 9.10, arriving at Appledore at 11.05 after changing at Ashford.

Autumn Meeting at Battle, 1967

The autumn weekend meeting will be held at Battle, Sussex, from Friday evening 20 October until Sunday afternoon 22 October 1967, under the leadership of Mr. P.W. James. The George Hotel, High Street, (Telephone 2844) will be the headquarters hotel, and members should meet outside this hotel at 10.15 on Saturday and Sunday mornings, to enable London commuters to arrive on the 10.05 train, which leaves Charing Cross, London, at 8.40. Members should make their own hotel bookings and return the enclosed form to Mr. James, who will answer any special enquiries regarding the arrangements.

Meetings, 1968

Provisional arrangements include the Annual General, Exhibition and Lecture Meeting on 6 January, the Spring Field Meeting at St. Mary's, Isles of Scilly, from 9 - 18 April and the Summer Meeting at Aviemore (Inverness-shire) and Braemar (Aberdeenshire) from 7 - 21 August 1968. Arrangements are in hand for a joint symposium with the British Mycological Society to mark the first decade in the history of the British Lichen Society. Full details of these activities will be circulated in later Bulletins.

## Lichen Courses, 1967

- DEVONSHIRE. Slapton Ley Field Centre, Slapton, Kingsbridge. 23 - 30 August.  
"Lichens and Fungi - and introduction". Directed by D.H.S. Richardson.
- PERTSHIRE. Kindrogan Field Centre, Enochdhu, Blairgowrie. 30 August - 6  
September  
"Lichen Course". Directed by F.H. Brightman.
- SHROPSHIRE. Preston Montford Field Centre, Shrewsbury. 20 - 27 September.  
"Lichen Course". Directed by P.W. James.
- SURREY. Juniper Hall Field Centre, Dorking. 30 August - 6 September.  
"Introduction to Lichens Course". Directed by P.W. James.

Please write to the Centres concerned for further details of these Courses, and for details of the bursaries and grants which are available for those who attend.

## Eleventh International Botanical Congress, 1969

The Eleventh International Botanical Congress will be held at Seattle, Washington, U.S.A., in 1969.

A number of travel grants are available to enable young (under 35 years of age) botanists from the United Kingdom to attend the Congress. It is hoped that another fund for U.K. botanists of Ph.D. status and above, excluding civil servants and employees of Research Councils, will also be available. Application forms for travel grants from both funds can be obtained from the Executive Secretary, The Royal Society, Burlington House, London, W.1.

## Report on Lecture and Exhibition Meeting, 7 January 1967

The Lecture and Exhibition Meeting, held on 7 January 1967 at the Polytechnic, Regent Street, London, was attended by 33 persons. The following exhibits were displayed:

- F.H. BRIGHTMAN: Original plates of lichens from "The Oxford Book of Flowerless Plants".
- F. ROSE: Distribution of Parmelia caperata (L.) Ach. in Kent - 1966.
- F. ROSE: The genus Usnea in Kent and East Sussex.
- M.R.D. SEAWARD: B.L.S. Mapping Scheme. "Completed" Record Cards.
- T.D.V. SWINSCOW: Dermatocarpon miniatum (L.) Mann and its var. complicatum (Lightf.) Hellb.

Dr. K.A. Kershaw gave an interesting lecture on the ecology of lichens in Nigeria, discussing the effects of rainfall, geology and the human element (especially fire damage) on the lichen vegetation. Dr. D.C. Smith followed with a stimulating account of the physiology of the lichen symbiosis, dealing especially with nutrition and seasonal variation. Afterwards colour transparencies taken by Mrs. E.M. Brightman, I.S.C. Campbell, Miss N. Wallace and D.A. Walkinshaw were shown, those of the latter accompanied by humorous captions.

## Lichenologist

Part 2 of volume 3 of The Lichenologist was published on 13 December 1966. Any member who did not receive a copy should inform the Secretary, J.R. Laundon, Department of Botany, British Museum (Natural History), Cromwell Road, London, S.W.7. Only fully paid-up members of the Society receive The Lichenologist, so that those who want this year's number on the day of publication (later if abroad) are advised to ensure that their subscription for 1967 has already been paid. It will be published in the autumn.

## Environmental Contamination

The wreck of the oil tanker Torrey Canyon, carrying 118,285 tons of crude oil, on the Seven Stones reef off Cornwall on 18 March 1967 with the subsequent oil and detergent pollution covering a wide area, constitutes the worst case of this kind of marine contamination. Surprisingly no observations of the effects of either oil or detergents on littoral lichen communities appear to have been published, and it is to be hoped that members will now take the opportunity

of rectifying our lack of knowledge. Information is particularly required as to whether it is the oil or the detergent which is the more harmful to lichens. Notes or papers on the subject should be sent to the Editor, Mr. P.W. James, Department of Botany, British Museum (Natural History), Cromwell Road, London, S.W.7, if intended for publication in The Lichenologist, or to the Secretary, Mr. J.R. Laundon, at the same address, if intended for the Bulletin. It is urged that agreement be reached to bring about shipping control by monitoring from the shore to prevent further disasters of this kind, and that a general campaign against oil pollution be waged.

News from the North Sea is more encouraging. It is now estimated that 8,000 million cubic feet of gas per day for Britain from beneath the North Sea is probable, that is over eight times the present total gas consumption. Inevitably this means that there will be less need for the large quantities of coal, oil and electricity that was forecast a few years ago, although of course the demand for more electricity will continue, but the output of coal should be sharply reduced. Already sales of gas central heating appliances have cornered over sixty per cent of the market, and this figure will go much higher when North Sea "high-speed" gas makes its full impact. The use of gas as the major fuel of this country in the future will lead to major changes in the amounts of air pollution over Britain, although the extent of these changes cannot be accurately assessed at present. Sulphur dioxide is the pollutant which is considered to be harmful to lichens, and its emission continues to rise, it having increased by nearly twenty-five per cent over the country between 1952 and 1962. Moreover, the policy of discharging sulphur dioxide from very tall chimneys in areas with comparatively clean air, as at the new Pembroke power station, is detrimental to the lichen vegetation of the country. Very small levels of sulphur can quickly extinguish surviving crustacean lichen communities on tree boles, their place being taken by Lecanora conizaeoides. Most of this sulphur dioxide comes from electricity works, industrial works using coal and oil, and domestic users burning coal. With the change over to natural gas as the principal fuel, it would appear that the rise in the emission of sulphur dioxide will ultimately be checked, to the lasting benefit of our lichen flora.

#### The Society's Herbarium

The Herbarium is a reference collection for the use of members. It is not especially intended to include rarities, but aims to contain series of the commoner British species from a variety of localities, including foreign countries, contributed by members. Recent accessions include an interesting collection of Parmelia species from southern England and western Europe, donated by Mr. J.P. Showell. Gifts of authentically named specimens of any species would be gratefully received; genera in which there are at present conspicuous gaps in the herbarium include Peltigera and Usnea. Specimens for inclusion in the herbarium, and requests for the loan of specimens, should be sent to the Curator, Mr. F.H. Brightman, 2 Red Oak Close, Orpington, Kent.

#### Catalogue of New Lichen Names

Dr. W.L. Culberson, Department of Botany, Duke University, Durham, North Carolina 27706, U.S.A., is continuing with the catalogueing of nomenclatural modifications in lichen literatures, having taken over from Dr. I.M. Lamb from 1960. A catalogue covering the years 1961 - 65 is expected to be completed this year.

#### Duplicated Keys

Keys to British lichens published in The Lichenologist are continuing to be duplicated as parts of the journal become out of print. All the keys in volume one have now been duplicated, those to Cladonia and Collema having been added to the list in Bulletin 18. The full list of duplicated keys for sale is given below, and the complete set of nine may be obtained from the Treasurer, Dr. D.H. Brown, Department of Botany, The University, Bristol 8, for 12/- (12/6 including postage).

<u>Alectoria</u>	By A.E. Wade (1959)	1/- each
<u>Anaptychia</u>	By A.E. Wade (1960)	1/- each
<u>Cladonia</u>	By J.H. Tallis (1958)	3/- each

<u>Collema</u>	By A.E. Wade (1958)	1/6 each
<u>Physcia</u>	By A.E. Wade (1960)	2/- each
<u>Ramalina</u>	By A.E. Wade (1961)	1/- each
<u>Stereocaulon</u>	By K.A. Kershaw (1960)	1/- each
<u>Umbilicaria</u>	By K.A. Kershaw (1961)	1/- each
<u>Usnea</u>	By J.H. Tallis (1959)	3/- each

### Individual Maps Scheme

From 1 August 1967 the address of the Mapping Recorder, Mr. M.R.D. Seaward, will be Department of Biology, Trinity & All Saints' Colleges, Horsforth, Leeds. Mr. D.H.S. Richardson's address is now Hatherly Biological Laboratories, Prince of Wales Road, Exeter, Devonshire.

The following additions to the list of individual mappers given in Bulletin 19 should be noted:

<u>Anaptychia</u>	F. Rose, Department of Geography, King's College, Strand, London, W.C.2.
<u>Cladonia alpestris</u>	I.S.C. Campbell, Hill Top, East Downs Road, Bowdon, Cheshire.
<u>C. coccifera</u>	R.M. Garrett, 48 Clarence Square, Cheltenham, Glos.
<u>C. impexa</u>	R.M. Garrett.
<u>C. papillaria</u>	R.M. Garrett.
<u>C. squamosa</u>	R.M. Garrett.
<u>Dimerella lutea</u>	I.S.C. Campbell.
<u>Enterographa crassa</u>	I.S.C. Campbell.
<u>Lepraria incana</u>	R.H. Bailey, College of Art, Pittville, Cheltenham, Gloucestershire.
<u>Lichina</u>	D.H. Brown, Department of Botany, The University,
<u>Lobaria</u> (excl. <u>L. pulmonaria</u> )	I.S.C. Campbell.
<u>Normandina</u>	I.S.C. Campbell.
<u>Parmelia acetabulum</u>	F.H. Brightman, 2 Red Oak Close, Orpington, Kent.
<u>P. caperata</u>	D.H. Brown.
<u>P. elegantula</u>	F. Rose.
<u>P. laciniatula</u>	F. Rose.
<u>P. physodes</u>	D.H. Brown. (Please send specimens for chemical investigation.)
<u>P. reticulata</u>	F. Rose.
<u>P. revoluta</u>	F. Rose.
<u>P. tubulosa</u>	D.H. Brown. (Please send specimens for chemical investigation.)
<u>Pseudocyphellaria</u>	I.S.C. Campbell.
<u>Sphaerophorus melanocarpus</u>	I.S.C. Campbell.
<u>Thelotrema lepadinum</u>	R.H. Bailey.

### Acta Horti Gotoburgensis

The journal Acta Horti Gotoburgensis has ceased publication from volume 28 (1966), except for a proposed index to be published this year, because of financial difficulties. It had been in existence since 1924. It is sad to see a journal of such high quality and renown, amongst the best of Swedish botanical periodicals, forced to close in this way. Many papers of great lichenological importance and interest by G. Degelius and A.H. Magnusson have appeared in its pages. Complete sets (volumes 1 - 28) may still be obtained from the Librarian, Botanical Garden, Göteborg SV, Sweden, price Sw. kr. 700.-, U.S. \$ 120.00.

### Book Review

The Oxford Book of Flowerless Plants. Illustrations by B.E. Nicholson. Text by F.H. Brightman. Oxford University Press, London. 1966. Pp. viii + 208. Price £2. 5. 0.

This book covers almost 690 species of marine algae, bryophytes, pteridophytes, fungi and lichens (plus a couple of myxomycetes) by means of short descriptions and by full colour illustrations. A few more are mentioned en passant in the text. It is written for those who "take pleasure in observing the living and growing things of the countryside", but who are perhaps unaware of much of the extreme beauty of cryptogamic plants. Some of the plates (and the book is virtually half composed of full page plates) are extraordinarily

attractive - the seaweeds on p.19, the corticolous lichens on p.171 and the muricolous species on pp.77 and 79 - others with more garish tastes may prefer the jelly fungi on p.149, or the Russula-rainbow on p.137. The choice is almost endless.

Since the illustrations will clearly be the bait to attract the browser and potential buyer, they need careful consideration. Superb though they are at first sight, they frequently reveal two recurrent weaknesses. Firstly, they do not always reproduce the plant's form successfully. This is particularly obvious with say, Camptothecium sericeum or Lecidea lucida, where the essential details contributing to the plant's general appearance are too small to show at the magnification adopted. (Incidentally, what is this? We hardly ever know. Even the pleasing enlarged details of lichens lack a scale.) In others, such as the leafy liverworts of pp.49 and 83, and the Dryopteris prothalli (which look to me more like robust Coriscium than Pellia - or even Dryopteris), the artist has failed to communicate the essential translucency of the living plant.

This brings us to the second weakness, that of poor colour rendering. The illustrations may have suffered in reproduction, but what has happened to the white thallus of Baeomyces roseus and the startling orange of Solorina crocea? I do not think that Rocella fuciformis is normally so mauve, and why has the delicate blue-green of Schistostega vanished? (Perhaps it is as well that no attempt was made to illustrate the "golden-green lustre" of the protonema.) A very few illustrations fail for several reasons, an example being that of Hypnum cupressiforme var. resupinatum. But in spite of these criticisms the general level is very high, and we must bear with the periodic liberties taken with the colours. Liberties have also been necessarily taken with the placing of the plants on the plates, so that the robust foliose lichens on p.167 and the ascendent seaweeds on p.17 remind us of mediaeval woodcuts.

Turning to the text, its general accuracy is considerable, as one would naturally expect from the author. Factual and typographical errors (though present) are few and mostly relatively unimportant. I saw one curious major error however: Sphagnum cuspidatum is illustrated on p.87 without any corresponding text reference, whilst the name and description of this species (p.88) are referred to an illustration which is not of this species, on p.89.

Textual weaknesses result from efforts at simplification, and yield uneasy constructions such as "In the Bryophyta the plant corresponds to the prothallus of ferns ..." and "... special cell-like structures called basidia". Can one say (p.184) of a flowerless plant that it has "extrafloral nectaries"? Some of these infelicities result from uncertainty as how much technical jargon the reader is assumed to know. Repeatedly the author seems to have been told "That's too difficult". We are referred about 85 times to "spore producing apothecia" - what else do they produce (except perplexity if the spores are still immature)? There is a fair amount of repetition between the accounts of lichens on pp.66 and 197, part of which could have been well devoted to explaining what apothecia, soredia etc., are or do. It is curious too, that in a book on cryptogamic botany, the 10-letter word "sporangium" is apparently never used (replaced by the euphemism "spore-case"), yet we are treated to "indusium", "cryptostomata", "pseudocyphellae" and "aethalia".

Though we need not dwell on the niceties of nomenclature, we could ask why if reference is made on p.201 to James's 1965 check-list of lichens, could not the author also refer to the latest bryophyte lists (the census-catalogues of Warburg (1963) and Paton (1965))? This would have avoided the incorrect Thuidium philiberti and Pellia fabbroniana. It is wholly incorrect, and indefensible, to quote all the specific epithets beneath the colour plates with capital initials, and I am puzzled by the use of italic in the index.

With regard to the selection of species, each would have his own choice, but in a book of "common plants" (c.f. dust jacket) should one include Siphula ceratites? and is it judicious to include four species of Enteromorpha to be named with no more than a handfulens? (Perhaps there aren't enough other flowerless plants on saltmarshes. Salicornia would almost qualify to fill the rest of pp.26 and 27 ...) A comment is relevant heretoo on how far a book which covers only a portion of our cryptogamic species will really help much.

in identification. I think it will be largely successful, since in the main the commonest species are illustrated. Still, very many require precise microscopic examination to ensure correct identification, and this is far beyond the scope of the present work. The expert may largely work by the general facies of a species, but the beginner must frequently check his material with a microscope.

I enjoyed the miscellaneous information included at intervals (such as the comments on Cis bilamellatus) and would have liked even more. Subsequently I have wondered just how many collectors out on a mushroom foray remember, in addition to their sandwiches, their bottle of  $H_2SO_4$ , lest they meet with an Amanita phalloides in the woods? Unless they pack it well, they may suffer from more than mere mycotoxicosis ... My imagination was further stimulated to envisage the cryptogamic botanists' ideal garden, surrounded by high brick walls splendidly clothed in crustaceous lichens, preventing the ingress of voracious flocks of Calvatia gigantea intent on devouring the imposing decorative borders of Phallus impudicus cultivated therein.

All in all, this book is great pleasure to read, and should deservedly sell well to those who are inquisitive about non-flowering plants and wish to learn more. The author, artist and publishers have made a bold attempt at popularising our cryptogams, and The Oxford Book of Flowerless Plants should certainly find a place in the libraries of schools, field centres and similar institutions, as well as in private hands.

D.H. Dalby.

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#### Literature on lichens

- AHTI, T. 1966. Correlation of the chemical and morphological characters in Cladonia chlorophaea and allied lichens. Annales Bot. Fennici 3: 380 - 390. (Account of the chemistry and morphology of Cladonia chlorophaea, C. conista, C. cryptochlorophaea, C. cyathomorpha, C. fimbriata, C. grayi, C. magvarica, C. merochlorophaea, C. pocillum, and C. pyxidata.)
- BRODO, I.M. 1966. Lichen growth and cities: A study on Long Island, New York. Bryologist 69: 427 - 449. (Survey of the lichen flora in relation to air pollution etc., of New York City, including transplants, transects, distribution maps, habitat types, growth forms etc., together with a lengthy discussion on poisoning vis-à-vis drought.)
- DALBY, D.H. 1966. The growth of plants under reduced light. Studies in Speleology 1: 193 - 203. (A section on lichens is included.)
- DENNIS, N. 1966. Records of non-vascular cryptogams in Skye. Trans. Proc. Bot. Soc. Edinb. 40: 204 - 231. (53 lichen species, plus historical data.)
- DUNCAN, U.K. 1966. Additions and corrections to the bryophyte and lichen flora of 'The Burn', Kincardine. Trans. Proc. Bot. Soc. Edinb. 40: 232 - 234. (Addition of 5 lichens, and deletion of 2.)
- GAMS, H. (Editor) 1967. Flechten. Kleine Kryptogamenflora 3. Stuttgart. (Book of keys in German written by H. Gams; unfortunately recent revisions are frequently ignored.)
- HAWKSWORTH, D.L. 1967. A note on Suffolk lichens. Trans. Suffolk Nat. Soc. 13: 323. (Several records.)
- HAWKSWORTH, D.L. & WALPOLE, P.R. 1966. The lichens of Bradgate Park, Leicestershire. Trans. Leicester Lit. Phil. Soc. 60: 48 - 56. (Interesting account of the 91 lichens recorded.)
- LANJOUW, J. et al. (Editors) 1966. International Code of Botanical Nomenclature Utrecht, Netherlands. (Incorporates adoptions by the Tenth International Botanical Congress, Edinburgh, 1964. Essential reading for gaining a knowledge of taxonomy and nomenclature, methods of citation, etc. In English French and German. Lepraria and Stereocaulon are added to the list of nomina generica conservanda. D. fl. 40 (£4) from International Bureau for Plant Taxonomy and Nomenclature, Lange Nieuwstraat 106, Utrecht, Netherlands.)

- RUDOLPH, E.D. & GIESY, R.M. 1966. Electron microscope studies of lichen reproductive structures in *Physcia aiopolia*. Mycologia 58: 786 - 796. (Study of the development of asci and ascospores, illustrated with 17 fine photographs.)
- SANKEY, J. 1966. Chalkland Ecology. London. (Includes two pages on lichens by P.W. James.)
- SCHADE, A. 1966. Über die Artberechtigung der *Cladonia subrangiformis* Sandst. sowie das Auftreten von Calciumoxalat-Ekreten bei ihr und einigen anderen Flechten. Nova Hedwigia 11: 285 - 308. (*Cladonia subrangiformis* is shown to be an ecological form of *C. furcata* growing on calcareous soils; calcium oxalate excretion in this and other lichens is discussed.)
- SEAWARD, M.R.D. 1966. A check-list of Lincolnshire lichens. Trans. Lincs. Nat. Un. 16: 153 - 159 (List with synonyms, first records and divisional distribution.)
- SEAWARD, M.R.D. 1966. Lichenology. Trans. Lincs. Nat. Un. 16: 164 - 166. (Records from V.C. 53, South Lincoln, for 1965.)
- THOMPSON, T.E., SMITH, S.T., JENKINS, M., BENSON-EVANS, K., FISK, D., MORGAN, G., DELHANTY, J.E. & WADE, A.E. 1966. Contributions to the biology of the Inner Farne. Trans. Nat. Hist. Soc. Northumb., new ser., 15: 197 - 225. (Includes records of 10 lichens.)

#### Secretary's Report for 1966

The year was one of good progress. The membership at the end of 1966 was 452, compared with 376 at the end of 1965. In 1958 when the Society was formed 101 persons joined, but in each successive year the numbers declined, reaching an all-time low of 27 in 1962. In every year since then the numbers of new members have increased, to 34 in 1963, 63 in 1964, 74 in 1965 and now 86 in 1966. Council's ruling that Societies and Institutions become Subscribers from 1 January 1967, means that the membership on that date is 367, plus 89 subscribers. The death of one member Mr. F.R. Jones of the Polytechnic is reported with regret.

The Society's meetings were much better attended than in 1965, perhaps due to their exotic locations. At the Lecture and Exhibition Meeting, attended by 30 persons, interesting lectures were delivered by Dr. Dobbs and Mr. Brightman, whilst the nine exhibits were a record number. The Easter Meeting in Jersey was attended by 20 members and friends, the Chilham "wall tour" in Kent by 17 and the weeks at Clifden and Bantry in Ireland by 13 and 15 respectively. The Autumn weekend meeting at Cheltenham was also successful. The Society is grateful to Mr. Bailey, Mr. and Mrs. Brightman, Mr. James and Dr. Mitchell for arranging and leading these field excursions. Three Council Meetings were held.

The Lichenologist was published on 13 December, and is of the usual high standard that we have come to expect. The articles are more varied than in previous numbers, and we thank the editor Mr. James, assistant editor Dr. Morgan-Jones, and all the authors for their hard work. A brochure has been produced to advertise our journal and we hope that this will help to raise the total number of Subscribers to a more respectable figure of about 200. The keys from out-of-print parts of The Lichenologist are now available on duplicated sheets. Three Bulletins were issued during the year, and the piece on churchyard conservation attracted mention in the Press, leading to several churchyard surveys and reports, and one hopes, active conservation. The Society assumed responsibility for distributing Dahl's Keys, and a new edition is expected shortly.

The Distribution Maps Scheme is making rapid progress, particularly as regards individual mappers. The Mapping Recorder, Mr. Seaward, is thanked for all his painstaking work. In conclusion I wish to thank all concerned who have helped in the running of the Society; without their help and co-operation we would not be in the healthy position we find ourselves today.

J.R. Laundon  
Honorary Secretary

(This report was presented at the Annual General Meeting, 7 January 1967.)

British Lichen Society

Income and Expenditure Account for the year ended 31 December 1966

<u>Income</u>	£.	s.	d.	<u>Expenditure</u>	£.	s.	d.
Subscriptions	547.	0.	2.	Printing 'The Lichenologist' vol. 3 part 2, including net cost of reprints	423.	2.	5.
Sales of 'The Lichenologist'	190.	0.	9.	Duplication of Keys	22.	7.	0.
Sales of Check-list	44.	9.	6.	Typing, Duplicating Bulletin etc.			
Sales of Keys	20.	10.	6.	Printing Prospectus	47.	5.	7.
Sales of Dahl's Keys	2.	2.	6.	Stationary, Subscription List, Addressograph Plates, etc.	51.	10.	5.
Reading Circle Subscriptions	2.	16.	6.	Postage	60.	18.	10.
Donations	2.	11.	6.	Subscription to Council for Nature	1.	0.	0.
Interest on Deposit Account	27.	0.	0.	Bank Charges		7.	10.
Mapping Scheme, incl. N.E.R.C. grant	19.	4.	1.	Mapping Scheme Expenses	14.	14.	1.
					<u>621.</u>	<u>6.</u>	<u>2.</u>
				Excess of Income over Expenditure for year	234.	9.	4.
					<u><u>£855.</u></u>	<u><u>15.</u></u>	<u><u>6.</u></u>

Balance Sheet 31 December 1966

Subscriptions received in advance	45.	0.	0.	Cash at Bank	603.	15.	9.
Sundry Creditors	533.	8.	7.	Cash on Deposit with The Central Investment Co.Ltd.	350.	0.	0.
General Fund				Sundry Debtors	113.	5.	4.
Balance 1 Jan. 1966	254.	3.	2.				
Less Excess of Income over Expenditure for year	<u>234.</u>	<u>9.</u>	<u>4.</u>				
	488.	12.	6.		<u><u>£1067.</u></u>	<u><u>1.</u></u>	<u><u>1.</u></u>
	<u><u>£1067.</u></u>	<u><u>1.</u></u>	<u><u>1.</u></u>				

Department of Botany,  
The University,  
Bristol 8.

Signed: D.H. Brown  
Hon. Treasurer  
22/3/66

AUDITED and found correct

Signed: E.C. Wallace  
Hon. Auditor  
1 April 1967



List of Members

F.M. = Family Member.

H.M. = Honorary Member.

- Abbayes, Professor H. Des, Faculte de Sciences, Universite de Rennes,  
RENNES, Ile at Vilaine, France. (H.M.)
- Ahti, Dr. T., Botanical Museum, University of Helsinki, Unioninkatu 44,  
HELSINKI, Finland.
- Alker, E., B.Sc., M.I.Biol., 9, Greystones Avenue, Ward Green, BARNSELY,  
Yorkshire.
- Allorge, Mme. V., 7, rue des Wallons, PARIS 13e, France. (H.M.)
- Alborn, Dr. O., Botanical Museum, LUND, Sweden.
- Alvin, Dr. K.L., Department of Botany, Imperial College, Prince Consort Road,  
LONDON, S.W.7.
- Alvin, Mrs. K.L., 38, Eversleigh Gardens, UPMINSTER, Essex. (F.M.)
- Anderson, Dr. R.A., Department of Botany, University of Denver, University  
Park, DENVER, Colorado 80210, U.S.A.
- Armstrong, Mrs. P.K., 535, South Washington Street, MAPERVILLE, Ill. 60540, U.S.A.
- Awasthi, Dr. D.D., The University, LUCKNOW, India.
- Ayton, W.J., B.Sc., William's Cottage, Woolavington, BRIDGWATER, Somerset.
- Bachmann, Dr. O., Seebacherstrasse 19, 6702 Bad Durkheim/Pfalz, GERMANY.
- Bailey, R.H., B.Sc., The College of Art, Pittville, CHELTENHAM, Gloucestershire.
- Bailey, Mrs. S., 58, Finchcroft Lane, Prestbury, CHELTENHAM, Gloucestershire. (F.M.)
- Ballantine, Dr. W.J., C/o. Zoology Department, University of Auckland,  
P.O. Box 2175, AUCKLAND, C., New Zealand.
- Barkman, Dr. J.J., Kampsweg 29, WIJSTER, Drenthe, Netherlands.
- Bartholomew, A., 17, Ersham Road, HALSHAM, Sussex.
- Batista, Professor A.C., Instituto de Micologia da UFP, Avenida Rosa e Silva 347,  
RECIFE, Pernambuco, Brazil.
- Beulah, Miss L., 208, Redland Road, BRISTOL, 6.
- Belcher, Dr. J.H., The Ferry House, Far Sawrey, AMBLESIDE, Westmorland.
- Bellamy, Dr. D.J., 6, Witton Grove, DURHAM CITY.
- Bellamy, Mrs. R., 6, Witton Grove, DURHAM CITY. (F.M.)
- Bennett, F., 10, Mount Lane, Bearsted, MIDDSTONE, Kent.
- Beschel, Dr. R.E., Queen's University, KINGSTON, Ontario, Canada.
- Bexon, Miss D., M.Sc., F.L.S., 29, Toston Drive, Wollaton Park, NOTTINGHAM.
- Bevis, Dr. F.B., Grand Valley State College, College Landing, ALLENDALE,  
Michigan 49401, U.S.A.
- Bianchetti, A., Rosenbergweg 48, CH 4123 Ailschwil/BL, SWITZERLAND.
- Bingley, F.J., M.A., Flatford Mill, East Bergholt, COLCHESTER, Essex.
- Bird, Dr. C.D., University of Alberta, CALGARY, Alberta, Canada.
- Blackwood, Dr. M., Botany School, University of Melbourne, PARKVILLE N.2,  
Victoria, Australia.
- Blackwood, Sir R., 8, Huntingfield Road, Middle Brighton, MELBOURNE, S.5,  
Victoria, Australia.
- Blake, Miss M.E., Wall Hall College of Education, Aldenham, WATFORD,  
Hertfordshire.
- Bolton, Miss E.M. Pont Eidda, Padog, BETTWYS-Y-COED, Caerns.
- Borel, Professor A., Faculte Libre de Medecine et Pharmacie de Lille,  
56, rue du Port, LILLE, France.
- Bourne, J., Elms Farm, Bromham, CHIPPENHAM, Wiltshire.
- Bratt, Dr. G.C., 67, Sinclair Avenue, WEST MOONAH, Glenorcy, Tasmania, Australia.
- Brightman, Mrs. E.M., 2, Red Oak Close, ORPINGTON, Kent. (F.M.)
- Brightman, F.H., B.Sc., F.L.S., 2, Red Oak Close, ORPINGTON, Kent.
- Brodo, Dr. I.M., National Museum of Canada, OTTAWA, Ontario, Canada.
- Bromley, R.J., The Well, Edgmond, NEWPORT, Shropshire.
- Brown, D.H., B.Sc., Ph.D., Department of Botany, The University, BRISTOL, 8.
- Brown, Mrs. R.M., C/o. Department of Botany, The University, BRISTOL, 8. (F.M.)
- Browning, D.J., 35, Malvern Buildings, Fairfield Park, BATH.
- Bruce, J.M., A.M.C.T., Belvedere End, Underdown, Haldon, EXETER, Devon.
- Buckley, Miss D., 3, Everton Road, OLDHAM, Lancs.
- Bullock, Mrs. G.R.T., B.Sc., A.R.C.S., 43, Acacia Road, LONDON, N.W.8.
- Burnet, Miss A.M. Appledore, Ford, SALISBURY, Wiltshire.
- Burnett, Professor J.H., Department of Botany, The University, NEWCASTLE UPON TYNE.
- Burns, Miss A., 24, Basset Street, CAMBORNE, Cornwall.
- Cain, Professor, R.F., Department of Botany, University of Toronto, TORONTO, 5,  
Canada.
- Campbell, I.S.C., Hill Top, East Downs Road, Bowdon, ALTRINCHAM, Cheshire.
- Carleton, T.J. 30, Nightingale Road, SOUTHSEA, Hampshire.
- Catcheside, Professor D.G., 22, Balmain Crescent, Acton, CANBERRA, A.C.T.,  
Australia.
- Cernohorsky, Professor Z., Department of Botany, Charles University, Benatska 2,  
PRAHA 2, Czechoslovakia.

Cevasco, Dr. F., Corso Torino, 33-14 Scala B, GENOA, Italy.  
 Christiansen, M.S., M.Sc., Botanical Museum, The University, Gothersgade 130,  
 COPENHAGEN, K, Denmark.  
 Codoreanu, Dr. V., Gradina Botanica Cluj, University of Cluj, Str. Republicii  
 No.2, CLUJ, Roumania.  
 Coffey, J.M.M., B.Sc., A.R.C.S., Training College, The Avenue, SOUTHAMPTON.  
 Coker, P.D., B.Sc., F.L.S., 54, Beaumont Avenue, ST. ALBANS, Herts.  
 Coppings, B.J., Carlwood, Plaxtol, SEVENOAKS, Kent.  
 Cowan, J.W., 102, Winnington Road, ENFIELD, Middlesex.  
 Cowdrey, Miss S., 30, Oxford Road, Old Marston, OXFORD.  
 Cowie, R.A., 5, Browcliff, SILSDEN, Keighley, Yorks.  
 Crundwell, A.C., B.A., Department of Botany, The University, GLASGOW, W.2.  
 Culberson, Dr. W.L., Department of Botany, Duke University, DURHAM, North  
 Carolina, U.S.A.  
 Dalby, Dr. D.H., Department of Botany, Imperial College, Prince Consort Road,  
 LONDON, S.W.7.  
 Degelius, Dr. G., Jattegrystsvagen 3, ASKIM, Sweden.  
 Delhanty, J.E., 7, Princess Avenue, Roath, CARDIFF.  
 Denison, Miss B., Box 525, LENNOXVILLE, Quebec, Canada.  
 Dickinson, Dr. C.H., School of Botany, Trinity College, DUBLIN, 2, Irish Republic.  
 Dickson, J., Botany School, Downing Street, CAMBRIDGE.  
 Dobbs, Dr. C.G., Bodifyr, BANGOR, Caerns.  
 Dobbs, Mrs. E., Bodifyr, BANGOR, Caerns. (F.M.)  
 Dobinson, J.B., B.Sc., Green Howe, Dadford, BUCKINGHAM.  
 Dodd, D., 52, Pinehurst Avenue, FARNBOROUGH, Hampshire.  
 Doppelbaur, Dr. H., Markgrafenweg 14, 887 Günzburg/Donau, GERMANY.  
 D'Oyly, M.J., Bwythyn Bronturnor, Tan-y-bwlch, MAENTWROG, Merionethshire.  
 Dransfield, J., 423, Aigburth Road, LIVERPOOL, 17.  
 Drew, E.A., 26, Hatherleigh Gardens, POTTERS BAR, Middlesex.  
 Dudley-Smith, Cdr. R., The Follies, WINCHCOMBE, Glos.  
 Duncan, Miss U.K., M.A., F.L.S., Parkhill, ARBROATH, Angus.  
 Du Rietz, Mrs. G., Thunbergsvagen 14, UPPSALA, Sweden.  
 Du Rietz, Professor G.E., Vaxtbiologiska Institutionen, Uppsala Universitet,  
 UPPSALA 8, Sweden.  
 Eagles, T.R., 32, Abbey Road, ENFIELD, Middlesex.  
 Earl, C.B., Durham Community Association, Shakespeare Hall, North Road,  
 DURHAM CITY, Co. Durham.  
 Eaton, Miss L.H., B.Sc., F.L.S., F.Z.S., 19, Barfield Road, Bickley, BROMLEY,  
 Kent.  
 Edwards, S.R., Punch Bowl Farm, THURSLEY, Surrey.  
 Embrey, Miss J., 19, Edith Road, Baron's Court, LONDON, W.14.  
 Emmett, H.E.G., Brook Cottage, Roach Road, Samlesbury, PRESTON, Lancs.  
 Erbisch, Dr. F.H., Department of Biological Sciences, Michigan Technological  
 University, HOUGHTON, Michigan, U.S.A.  
 Ericson, Dr. L., Vaxtbiologiska Institutionen, Uppsala Universitet, UPPSALA,  
 Sweden.  
 Evans, Miss E.H., B.Sc., Department of Botany, University College of North Wales,  
 Memorial Buildings, BANGOR, Caerns.  
 Farrar, J.F., 12, Furness Park Road, BARROW-IN-FURNESS, Lancs.  
 Fenton, Dr. A.F.G., Coolamber, Ardcumber, COOKSTOWN, Co. Tyrone, N. Ireland.  
 Ferry, B.W., B.Sc., A.R.C.S., Botany Department, Bedford College, Regent's Park,  
 LONDON, N.W.1.  
 Field, J.H., B.Sc., 34, Wells Green Road, Sheldon, SOLIHULL, Warwickshire.  
 Finch, R., B.A., 175, Harold Road, HASTINGS, Sussex.  
 Finney, I.D., C/o. Clydesdale Bank Ltd., 102, High Street, FORRES, Morayshire.  
 Folan, Miss A.C.M., Sancta Clara, Threadneedle Road, Salthill, GALWAY, Irish  
 Republic.  
 Follmann, Professor Dr. G., Botanisches Museum, Konigin-Luise-Str.6-8,  
 1 BERLIN 33, Germany.  
 Foote, Dr. K.G., Department of Biology, Wisconsin State University, EAU CLAIRE,  
 Wisconsin 54701, U.S.A.  
 Foster, Miss D.M., The College, RIPON, Yorkshire.  
 Freeman, Miss V., Whitecroft, The Clears, REIGATE, Surrey.  
 Fox, C.H., Department of Biology, Clark University, WORCESTER 10, Mass., U.S.A.  
 Fullerton, Miss H.J., M.Sc., 247, Bath Street, GLASGOW, C.2.  
 Gaare, E., cand.real., Det Kgl., Norske Videnskabers Selskab Museet, TRONDHEIM,  
 Norway.  
 Gale, A.G., 20, Mitchells Road, Three Bridges, CRAWLEY, Sussex.  
 Galle, Dr. L., Petofi Sandor Sugarut, 6.1.em.7 Szeged, HUNGARY.  
 Galun, Dr. M., Department of Botany, Tel-Aviv University, TEL-AVIV, Herzlstr.155,  
 Israel.  
 Gannutz, T.P., Department of Biology, Clark University, WORCESTER 10, Mass., U.S.A.

Garrett, R.M., St. Paul's College, Swindon Road, CHELTENHAM, Glos.  
 Gauntlett, Colonel H.G., 18, Vine Road, EAST MOLESEY, Surrey.  
 Gilbert, J.L., The Herbarium, Royal Botanic Gardens, Kew, RICHMOND, Surrey.  
 Gilbert, O.L., B.Sc., D.I.C., West Cheynes, CORBRIDGE, Northumberland.  
 Gilenstam, G., Fil.Mag., Institute of Systematic Botany, Box 123, UPPSALA, Sweden.  
 Gimmingham, Dr. C.H., Department of Botany, The University, St. Machar Drive,  
 OLD ABERDEEN.  
 Godley, Dr. E.J., Botany Division, D.S.I.R. Private Bag, Lincoln, CHRISTCHURCH,  
 New Zealand.  
 Goodey, Dr. J., 84, Strand-on-the-Green, LONDON, W.4.  
 Goodman, Dr. V.H., Division of Life Sciences, University of California,  
 RIVERSIDE, California, U.S.A.  
 Gordon, Miss V., 23, Alder Grove, Waterloo, LIVERPOOL.  
 Goree, Dr. H.K., Department of Plant Pathology, Washington State University,  
 PULLMAN, Washington 99163, U.S.A.  
 Graham, Rev. G.G., The Vicarage, Wheatley Hill, DURHAM CITY.  
 Gray, D., The Stones, Ogbourne St. George, MARLBOROUGH, Wilts.  
 Green, T.G.A., 40, Parc Letta, Heamoor, PENZANCE, Cornwall.  
 Gregory, Dr. P.H., F.R.S., Rothamsted Experimental Station, HARPENDEN,  
 Hertfordshire.  
 Griffith, J.L., B.Sc., 47, Skelmersdale Road, CLACTON-ON-SEA, Essex.  
 Grubb, Dr. P.J., Magdalene College, CAMBRIDGE.  
 Guiterman, J.D., 72, Harrowdene Road, WEMBLEY, Middlesex.  
 Gulden, G., Cand.real., Botanical Museum, Trondheimsun, 23 B, Oslo, 5, NORWAY.  
 Hagen, A., Lovenskioldsgate 4, OSLO, 2, Norway.  
 Hale, Dr. M.E., Division of Cryptogams, Smithsonian Institution, United States  
 National Museum, WASHINGTON 25, D.C., U.S.A.  
 Hall, D., B.Sc., 14, Fairburn Avenue, HOUGHTON-LE-SPRING, Co. Durham.  
 Hall, I.G., Southmead College, Burley Lodge, Burley, RINGWOOD, Hants.  
 Hall, J.B., Botany Department, Wantage Hutted Site, Reading University,  
 READING, Berkshire.  
 Hall, Mrs. J.F., 6, John's Close, Gorsewood Road, Hartley, LONGFIELD, Kent. (F.M.)  
 Hall, P.C., 6, John's Close, Gorsewood Road, Hartley, LONGFIELD, Kent.  
 Halliday, G., B.A., Department of Botany, The University, LEICESTER.  
 Hanson, D.E., B.Sc., Aberlour House, Gordonstoun Preparatory School, ABERLOUR,  
 Banffshire.  
 Harper, R.S., 11, High Green, Easton, WELLS, Somerset.  
 Harris, G.P., Department of Botany, Imperial College, Prince Consort Road,  
 LONDON, S.W.7.  
 Harvey, R., B.Sc., F.L.S., Department of Botany, University College, Cathays Park,  
 CARDIFF.  
 Hawksworth, D., 3, Hawkins Drive, Ridgeway, AMBERGATE, Derbyshire.  
 Haynes, Mrs. B.D., B.Sc., 102, Stokes Road, Purbrook, PORTSMOUTH, Hampshire. (F.M.)  
 Haynes, F.N., B.Sc., Department of Chemistry and Biology, Portsmouth College of  
 Technology, Park Road, PORTSMOUTH, Hampshire.  
 Heath, Miss D., 2, Ashby Road, Packington, ASHBY-DE-LA-ZOUCH, Leicestershire.  
 Henderson, D.M., B.Sc., Royal Botanic Garden, EDINBURGH, 3.  
 Henssen, Dr. A., Botanisches Institut der Universität Marburg, 355, Marburg/Lahn,  
 Pilgrimstein 4, GERMANY.  
 Hepton, Dr. C.E.L., Orchard Cottage, Cusgarne, TRURO, Cornwall.  
 Hepton, Mrs. M.J., B.Sc., M.Sc., Orchard Cottage, Cusgarne, TRURO, Cornwall.  
 Hertel, Dr. H., Institut für Systematische Botanik der Freien Univ.,  
 Grunewaldstrasse 35, 1000, BERLIN 41, Germany.  
 Hill, D., B.Sc., Vatches Farm, Barton, CAMBRIDGE.  
 Hill, Mrs. M.J., 25, Greenhouse Road, Wheatley Hills, DONCASTER, Yorkshire. (F.M.)  
 Hill, R.W., 25, Greenhouse Road, Wheatley Hills, DONCASTER, Yorkshire.  
 Hitch, C.J.B., Thackeray House, Hadley Green, BARNET, Herts.  
 Hitch, Miss P.A., B.Sc., Thackeray House, Hadley Green, BARNET, Herts.  
 Holligan, P.M., 155, Victoria Road, LEEDS, 6.  
 Hopkins, Dr. B., Department of Botany, University College, IBADAN, Nigeria.  
 Horwood, Mrs. J.M., 48, Stoughton Road, LEICESTER.  
 Howard, P., 19, Denham Court, Kirkdale, Sydenham, LONDON, S.E.26.  
 Howard, P.J.A., The Nature Conservancy, Merlewood Research Station, GRANGE-  
 OVER-SANDS, Lancs.  
 Hudson, J.A., 30, Syke Cluan, IVER, Buckinghamshire.  
 Huneck, Dr. S., Institut für Pflanzenchemie der T.U. Dresden, Tharandt, DRESDEN,  
 Germany.  
 Hutchison, Miss P.M., A.L.S., 35, Belsize Square, Hampstead, LONDON, N.W.3.  
 Ikoma, Y., RC-233, Omoricho, TOTTORI CITY, Japan.  
 Imshaug, Dr. H.A., Department of Botany & Plant Pathology, Michigan State  
 University, EAST LANSING, Michigan, U.S.A.  
 Ing, B., M.A., F.L.S., F.R.E.S., Kindrogan Field Centre, Enochdhu, BLAIRGOWRIE,  
 Perthshire.

Ing, E.G., N.D.H., 19, Laity Road, Troon, CAMBORNE, Cornwall.  
 Ingle, M.R., College of St. Mark & St. John, King's Road, Chelsea, LONDON, S.W.10.  
 Ingram, H.A.P., B.A., Department of Botany, The University, DUNDEE, Angus.  
 Inumaru, Dr. S., Kanae-cho, Matsunaga City, HIROSHIMA-KEN, Japan.  
 Isoviita, Dr. P., Botanical Museum, University of Helsinki, Unioninkatu 44,  
 HELSINKI, Finland.  
 Ivimey-Cook, Dr. R.B., The Hatherly Biological Laboratories, Prince of Wales  
 Road, EXETER, Devon.  
 Jahns, Mr. M., Botanisches Institut, Pilgrimstein 4, 355 MARBURG/LAHN, Germany.  
 James, P.W., B.Sc., F.L.S., Department of Botany, British Museum (Natural History),  
 Cromwell Road, LONDON, S.W.7.  
 Jeffrey, C., B.A., The Herbarium, Royal Botanic Gardens, Kew, RICHMOND, Surrey.  
 Jellicoe, Miss H.C.M., Avonhurst, Hurn Road, RINGWOOD, Hampshire.  
 Jellis, G.J., 51, Arnison Avenue, HIGH WYCOMBE, Bucks.  
 Jermy, A.C., B.Sc., A.L.S., Department of Botany, British Museum (Natural  
 History), Cromwell Road, LONDON, S.W.7.  
 Jones, C.T., 34, Broomhill Road, Cove, FARNBOROUGH, Hants.  
 Jones, I., Minafon, WAUNFAWR, Caernarvon.  
 Jones, M. Pugh, 16, Abbots Gardens, LONDON, N.2.  
 Kalb, Dr. K., Kreuzerstrasse 80, 8500 NURNBERG, Germany.  
 Kalguthar, R.M., Biology Department, University of Calgary, CALGARY, Alberta,  
 Canada.  
 Karenlampi, Dr. L., Kasvitieteen Laitos, Turun Yliopisto, TURKU, Finland.  
 Kay, Q.O.N., Department of Botany, University College of Swansea, Singleton  
 Park, SWANSEA, Glamorgan.  
 Kennedy, Dr. L.L., Department of Botany, University of Alberta, EDMONTON,  
 Alberta, Canada.  
 Kerr, A.J., B.Sc., The Nature Conservancy, 12, Hope Terrace, EDINBURGH, 9.  
 Kershaw, Dr. K.A., Department of Botany, Imperial College, Prince Consort Road,  
 LONDON, S.W.7.  
 Kertland, Miss M.P.M., M.Sc., 50, Belvedere Park, BELFAST, 9, N. Ireland.  
 Kleinig, Dr. H., Botanisches Institut der Universität, Hofmeisterweg 4,  
 6900 HEIDELBERG, Germany.  
 Klement, Dr. O., 7971, Kreuzthal-Eisenbach 130, Leutkirch, GERMANY.  
 Kok, Mrs. A., Little Meadow House, TOTNES, Devon.  
 Krog, Dr. H., Botanical Museum, TOYEN, Oslo, Norway.  
 Krug, Dr. J.C., 68, Teddington Park, TORONTO 12, Ontario, Canada.  
 Lack, Miss A., Rockside Hall, MATLOCK, Derbyshire.  
 Laflin, T., Manor Farm, Luddington, STRATFORD-ON-AVON, Warwicks.  
 Lange, Prof. O.L., Institut f. Forstbotanik u. Forstgenetik der Universität  
 Cöttingen, 351, Hann.Munden, Werraweg 1, Ruf 374-375, GERMANY.  
 Larsson, Dr. B.M.P., Vaxtbiologiska Institutionen, Villavägen 14, UPPSALA,  
 Sweden.  
 Laundon, J.R., A.M.A., Department of Botany, British Museum (National History),  
 Cromwell Road, LONDON, S.W.7.  
 Laundon, Mrs. R.J., 14, Victory Avenue, MORDEN, Surrey. (F.M.)  
 Laycock, J., 1, Ravensville, Cross Hills, KEIGHLEY, Yorks.  
 Le Blanc, Dr. Brother Fabius, Department of Biology, University of Ottawa,  
 OTTAWA, Ontario, Canada.  
 Lehmann, P., 22, Newton Road, CAMBRIDGE.  
 Leslie, Mrs. E., 7, Wood Lane, Appleton, WARRINGTON, Lancashire.  
 Lewis, D.H., Department of Agriculture, The University, Parks Road, OXFORD.  
 Lewis, R., 139, Ffordd Derwen, RHYL, Flintshire.  
 Lindahl, Dr. P.O., Liggargatan 5K, UPPSALA, Sweden.  
 Lindsay, D.C., B.Sc., 234, Kenmore Avenue, KENTON, Middlesex.  
 Llano, Dr. G.A., Office of Antarctic Programs, Natural Science Foundation,  
 WASHINGTON, D.C. 20550, U.S.A.  
 Looman, Dr. J., Experimental Farm, SWIFT CURRENT, Sask, Canada.  
 Lutjeharms, Dr. W.J., Department of Botany, University of Cape Town, Rondebosch,  
 CAPE, S. Africa.  
 Lye, K.A., Brynehaugen, Bryne pr. Stavanger, NORWAY.  
 Macnab, Miss W., B.Sc., Ed.B., Middlesborough College of Education, 154, Borough  
 Road, MIDDLESBROUGH, Yorkshire.  
 Manning, S.A., F.L.S., F.R.E.S., Stoke House, Stoke-by-Clare, SUDBURY, Suffolk.  
 Marks, I., 35, Macdonald Road, Wyken, COVENTRY, Warwickshire.  
 Martin, A., 13, Mill Street, BISHOP'S STORTFORD, Herts.  
 Martin, Mrs. A., 13, Mill Street, BISHOP'S STORTFORD, Hertfordshire. (F.M.)  
 Massé, Dr. L.J.-C., Laboratoire de Botanique Appliquée, 12 bis rue de Robien,  
 35-Rennes, FRANCE.  
 McCullough, Dr. H.A., Department of Biology, Samford University, BIRMINGHAM,  
 Alabama, 35209, U.S.A.

- Mahu, Professor M., Universidad de Chile, Escuela de Agronomia, Catedra de Botanica, Casilla 1004, SANTIAGO DE CHILE, Chile.
- Margot, J., 6, Chaussée de Namur, HAMME-MILLE (BT.), Belgium.
- Martin, Dr. M.H., Department of Botany, The University, BRISTOL, 8.
- Michael, Mrs. C.M., Ingraham Institute, CHAZIABAD, U.P., India.
- Middleton, H.S., 12, Rugby Mansions, Bishop King's Road, LONDON, W.14.
- Millest, A.C., 62, Kingslea Road, SOLIHULL, Warwickshire.
- Milne, A.R., 29, The Plantation, Blackheath, LONDON, S.E.3.
- Minor, R., The College, Easton Road, BRIGHTON 7, Sussex.
- Mitchell, Dr. M.E., Department of Botany, University College, GALWAY, Eire.
- Moberg, Dr. R., Institute of Systematic Botany, The University, Botanical Garden, UPPSALA 1, Sweden.
- Montavont, Monsieur, 19, rue des Pres, 68-RIXHEIM, France.
- Moreton, B.D., B.Sc., St. John's, Burleigh Road, Charing, ASHFORD, Kent.
- Morgan, Miss L.A., B.Sc., 11, Livingston Drive, LIVERPOOL, 17.
- Morgan-Huws, D.I., Botany Laboratories, Department of Biological Sciences, College of Technology, Hay Street, PORTSMOUTH, Hants.
- Morgan-Jones, Dr. G., Commonwealth Mycological Institute, Ferry Lane, Kew, RICHMOND, Surrey.
- Moynahan, Dr. E.J., Wayside, Jordans, BEACONSFIELD, Bucks.
- Murphy, P., 17, Wantage Street, SOUTH SHIELDS, Co. Durham.
- Nearing, Dr. G.G., RFD Box 402, RAMSEY, New Jersey, U.S.A.
- Nelson, J.P., 414, Handsworth Road, SHEFFIELD 13, Yorks.
- Nethercott, P.J.M., 6, Hazelwood, Hazelwood Road, BRISTOL, 9.
- Noon, R.A., 318, Walstead Road, WALSALL, Staffordshire.
- Nordin, Dr. I., Institute of Systematic Botany, University of Uppsala, P.O. Box 123, UPPSALA, 1, Sweden.
- Nye, Miss S.M., 230, South Street, ROMFORD, Essex.
- Osborn, J.C., 8, Crescent Road, BISHOP'S STORTFORD, Hertfordshire.
- O'Shea, R., Belize Teachers' College, P.O. Box 579, BELIZE CITY, British Honduras.
- Osorio, Dr. H.S., Casilla de Correo 399, MONTEVIDEO, Uruguay.
- Ostafichuk, Dr. M., Department of Botany, University of Alberta, EDMONTON, Alberta, Canada.
- Otto, Dr. G.F., 3022 West 6th Avenue, VANCOUVER 8, B.C., Canada.
- Palmer, T.J., The Old Hall, BRACKLEY, Northamptonshire.
- Parr, Mrs. P.A., 11, Belgrave Road, CHESTER.
- Pentecost, A., 33, Bedford Road, Southborough, TUNBRIDGE WELLS, Kent.
- Perry, A.R., Botany School, South Parks Road, OXFORD.
- Peterken, Mrs. E.A., Byeways, Cokes Lane, CHALFONT ST. GILES, Buckinghamshire. (F.M.)
- Peterken, J.H.G., F.L.S., Byeways, Cokes Lane, CHALFONT ST. GILES, Buckinghamshire.
- Pisut, Dr. I., Slovenske Museum, BRATISLAVA, Vajanskeho 2, Czechoslovakia.
- Poelt, Professor Dr. J., Institut für Systematische Botanik und Pflanzengeographie der Freien Universität Berlin, Königinluise-Str. 6-8, 1 BERLIN 33, Germany.
- Polwart, A., Botany Department, Glasgow University, GLASGOW, W.2.
- Pricé, J.H., B.Sc., F.L.S., Department of Botany, British Museum (Natural History), Cromwell Road, LONDON, S.W.7.
- Proctor, Dr. M.C.F., Hatherly Biological Laboratories, The University, Prince of Wales Road, EXETER, Devon.
- Pueyo, Dr. G., 38 Rue du Louvre, PARIS (1e), France.
- Pyatt, F.B., B.Sc., Department of Botany, University College of Wales & Mon., Cathays Park, CARDIFF.
- Puymaly, Dr. A. de., 41, Rue de la Franchise, BORDEAUX, France.
- Rackham, Dr. O., Corpus Christi College, CAMBRIDGE.
- Ranwell, Dr. D.S., The Nature Conservancy, Furzebrook Research Station, WAREHAM, Dorset.
- Rao, Dr. D.N., Department of Botany, Banras Hindu University, Varanasi-5, INDIA.
- Rassadina, Dr. K.A., Botanicheski Institut im. Komarova Akad. Nauk SSSR, U. Popova 2, LENINGRAD 22, U.S.S.R.
- Ratcliffe, Dr. Denis, Scottish Plant Breeding Station, Pentlandsfield, ROSLIN, Midlothian.
- Ratcliffe, Dr. Derek A. The Nature Conservancy, 12, Hope Terrace, EDINBURGH, 9.
- Rawson, D.M., 230, Bebington Road, Bebington, WIRRAL, Cheshire.
- Read, M.W., B.Sc., The Nature Conservancy, Moor House Field Station, Garrigill, ALSTON, Cumberland.
- Richards, Professor P.W., Department of Botany, University College of North Wales, Memorial Buildings, BANGOR, Caerns.
- Richardson, D.H.S., Hatherly Biological Laboratories, Prince of Wales Road, EXETER, Devonshire.

Ridsdale, C.E., B.Sc., Division of Botany, Department of Forests, LAE, New Guinea.  
 Riedl, Dr. H., Grillparzerstrasse 14, PERCHTOLDSORF, Near Vienna, Austria.  
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Tibell, Dr. L., Institute of Systematic Botany, University of Uppsala, P.O.Box 123, UPPSALA, Sweden.

Tittley, I., Department of Botany, British Museum (Natural History), Cromwell Road, LONDON, S.W.7.

Todd, E.C.D., 24, Buchanan Drive, Bearsden, GLASGOW.

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Photograph required

Miss U. K. Duncan, Parkhill, Arbroath, Angus, would like a good black and white photograph for a frontispiece to her latest book on British lichens. Payment will be made for the photograph selected, and prints should be sent to Miss Duncan before 31 August 1967.

Spring Field Meeting on the Isles of Scilly, 1968

The Spring Field Meeting will be held at St Mary's, Isles of Scilly, from Tuesday evening 9 April to Thursday morning 18 April 1968. The aim is to record the lichen flora of as many of the main islands as possible and (if time permits) to make some records of the vertical zonation of species on coastal rocks. Dr D. S. Ranwell is leader and members attending are asked to return the enclosed form to him and to book their own accommodation stating that they will require packed lunches each day. Tregarthens Hotel, St Mary's, will be headquarters accommodation and members should meet outside it at 9.30 hrs. on Wednesday 10 April. It is often necessary to book rooms a year in advance.

Transport

Cars can be left in the open at Penzance Harbour Car Park or at Penzance Heliport during the visit to the islands. Details of garage facilities at Penzance can be obtained from the Information Bureau, Alverton Street, Penzance (Telephone: Penzance 2341, ext. 30).

Transport by sea is by R.M.M.V. Scillonian or R.M.M.V. Queen of the Isles. The passage takes between 2.5 and 3 hrs. according to weather and tide. Further details from Secretary, Isles of Scilly Steamship Co. Ltd., High Street, St Mary's, Isles of Scilly (Telephone: Scillonia 14) or 16 Quay Street, Penzance, Cornwall (Telephone: Penzance 2009). Current fares are day return £2, period return (3 months) £2.12.6.

Transport by air is by British European Airways Helicopter from Penzance Heliport (Penzance 3871) to St Mary's, Isles of Scilly Airport (Scillonia 46), bus services operating between the Heliport and Penzance Station, and St Mary's Airport and Hugh Town. Bookings and enquiries should be made well in advance to B.E.A. Sales Office, Wharf Road, Penzance (Penzance 4296) or to the Heliport, Penzance. Current fares are single £2.14.0. and return £5.8.0.

Boat travel between islands on the Field Meeting can be expensive and one should budget for between 10/- and £1 per day for visits to the remoter islands.

Accommodation at St Mary's (B.B.: Bed & breakfast; L.: Lunch; D.: Evening Meal)

HOTELS: Star Castle, Garrison (Scillonia 117). B.B., L., D., 55/- to 65/- per day. Tregarthens (Scillonia 40). 8 single, 22 double rooms. B.B., L., D. 60/- to 67/6d. B.B., D. 55/- to 60/-.

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To Dr D. S. Ranwell, Nature Conservancy, Furzebrook Research Station, Wareham, Dorset.  
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I/We hope to attend the St Mary's, Isles of Scilly, Spring Meeting 1968, staying at:  
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