



THE BRITISH
Bryological Society





Report for 1927

VOL. II. PART 1.



BLAENAU FESTINIOG & HARLECH :
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of the British Bryological Society
for 1927

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- Mr. W. C. Millar, 8 North Terrace, Berwick-on-Tweed.
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- Dr. A. I. Simey, M.D., St. John's, Horton Crescent, Rugby.
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- Mr. E. H. Stevens, B.A., Haw House, Rothbury, Northumberland.
- Mr. A. Sutton, A.R.S.M., 9 Brookfield Park, London, N.W. 5.
- Mr. W. G. Travis, 9 Barton Road, Liverpool.

- Mr. W. N. Tetley, M.A. (Cantab.), The Haven, Church Road, Hoylake, Cheshire. (Deceased 1928).
- Dr. L. B. C. Trotter, M.D. (Cantab.), Rossway, Ledbury, Herefordshire.
- Mrs. Trotter, Rossway, Ledbury, Herefordshire.
- Lieut. Col. A. Ugglä, F.L.S., Royal Swedish Legation, 27 Portland Place, London, W. 1.
- Mr. F. Verdoorn, Begijnkade, 10, Utrecht, Holland.
- Mr. E. C. Wallace, Springfield, 2 Strathearn Road, Sutton, Surrey.
- Herr Johannes Warnstorf, Hohenzollern Strasse 7/2, Wittenberge, Potsdam, Brandenburg, Germany.
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- Mr. C. H. Wilson, 55 Gladstone Street, Scarborough.
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- Miss A. Wyndham, Orchard Wyndham, Williton, Somerset.
- Mr. William Young, Fairview, Kirkcaldy.

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- Mr. J. M. Grant, Marysville, Washington, U.S.A.
- Mr. Iorwerth Jones, B.Sc., Department of Agriculture, University College of Wales, Aberystwyth.
- Mr. Percy Long, Glenlea, Carisbrooke Road, Newport, Isle-of-Wight.
- Dr. Hjalmar Möller, Naturhistoriska, Riksmuseum, Stockholm, Sweden.
- Herr Albert Schumacher, Waldbröl, Rheinland, Germany
- Mr. Arthur Turner, 140 Pine Street, Nelson, Lancashire.

**MOSSES AND HEPATICS SENT FOR DISTRIBUTION,
1927—1928.**

			<i>True Hep-</i>		
			<i>Sphagna</i>	<i>Mosses</i>	<i>atics Total</i>
Mr. G. H. Allison	...	...	26	9	35
Herr H. Andres (Germany)	...	...	45	32	77
Miss E. Armitage	...	19	155	...	174
Mr. E. B. Bartram (U.S.A)	...	...	97	...	97
Mr. E. T. Beals (U.S.A.)	...	60	820	...	880
Mr. W. Bellerby	...	17	76	...	93
Rev. C. H. Binstead	...	...	121	...	121
Mr. D. B. Bradshaw	...	...	41	...	41
Mr. W. H. Burrell	...	...	73	10	83
Mr. D. G. Catcheside	...	9	83	25	117
Mr. J. Charrier (France)	...	3	167	148	318
Miss C. A. Cooper	...	...	20	...	20
Mr. H. N. Dixon	...	...	143	...	143
Mr. J. B. Duncan	...	...	247	45	292
Miss E. Evitt	...	...	19	...	19
Mr. J. M. Grant (U.S.A)	...	10	175	...	185
Mr. J. Groves	...	...	20	...	20
Mr. H. A. Hyde (Nat. Mus. of Wales)	10	...	78	26	114
Rev. R. Jackett	...	...	35	...	35
Mr. D. A. Jones	...	...	54	30	84
Mr. H. H. Knight	...	...	43	41	84
Rev. D. Lillie	...	...	88	...	88
Herr L. Loeske (Germany)	...	...	58	...	58
Mrs. F. A. MacFadden (B.C. Canada)	...	...	710	...	710
Mr. C. V. B. Marquand	...	...	30	...	30
Rev. W. R. Megaw	...	...	12	...	12
Mr. W. C. Millar	...	...	89	...	89
Mr. F. E. Milsom	...	...	52	...	52
Mr. H. W. Monckton	...	...	4	...	4
Mr. J. Murray	...	...	68	...	68
Mr. W. E. Nicholson	...	...	115	100	215
Rev. P. G. M. Rhodes	...	...	185	74	259
Mr. P. W. M. Richards	...	...	63	26	89
Mr. F. Rilstone	...	...	23	...	23
Mr. D. R. Robertson	...	16	15	...	31
Miss I. M. Roper	...	...	24	...	24
Miss M. Saunders	...	...	20	...	20
Mr. G. B. Savery	...	5	20	...	25

			<i>True</i>	<i>Hep-</i>	<i>Total</i>
		<i>Sphagna</i>	<i>Mosses</i>	<i>atics</i>	<i>Total</i>
Mr. W. R. Sherrin	...	...	18	...	18
Mr. H. Stansfield	...	...	...	101	101
Capt. Carl Stenholm (Sweden)	...	...	...	112	112
Mr. E. H. Stevens	...	...	...	92	92
Mr. A. Sutton	...	...	...	19	19
Mr. W. G. Travis	...	...	14	65	101
Dr. L. B. C. Trotter	...	...	...	91	91
Mr. F. Verdoorn (Holland)	...	18	49	61	128
Herr J. Warnstorf (Germany)	...	7	20	...	27
Mr. E. C. Wallace	...	...	...	200	200
Dr. W. Watson	...	...	...	68	117
Mr. A. Wilson	...	...	...	53	82
Totals	...	...	206	4872	839
					5917

REFEREES.

MOSSES :—

Sphagnaceae and Harpidia	...	Mr. SHERRIN
Andreaeaceae to Grimmiaceae	...	Mr. SAVERY
Tortulaceae to Orthotrichaceae, and		
European	...	Mr. NICHOLSON
Schistostegaceae to Leskeaceae	...	Mr. JONES
Hypnaceae, except Harpidia	...	Mr. DUNCAN
Non-European, and Referee in Chief		Mr. DIXON
HEPATIC	...	Mr. KNIGHT
Referee in Chief	...	Dr. MACVICAR



REPORT OF SECRETARY.

THE Sixth Annual Report of the British Bryological Society, completing Vol I., is presented under favourable conditions. The number on roll is satisfactory and for the first time in the history of the Society the financial balance is on the right side. The generosity of several members is appreciated and Mr. Duncan, Hon. Treasurer, is to be congratulated on having the adverse balance cleared, thanks to his sound advice and guidance in the past.

We have lost two valued members by death—Mr. St. John Marriott, of Abbey Wood, London, and Mr. W. N. Tetley, of Hoylake have passed away and bryology has been deprived of the services of two ardent devotees.

Mr. Sutton has had an immense amount of work again this year as distributor of Mosses, and Mr. Milsom has done his share with the Hepatics. The former has been in office for four years and the latter for three. Dr. Trotter has again compiled a long list of Bryological Publications for the year 1927, which involved much time and energy. It ought to be mentioned that Mr. Dixon has been engaged in refereeing an unusually large number of critical exotic mosses this year, which has taken up a great amount of his time. The cordial thanks of all members are due to these gentlemen for their great services.

The Annual Meeting and Excursion was held at Brecon in August, and was well attended in spite of unfavourable weather. Several new county records were added. Miss Armitage's account will be found in the Report.

Members are requested to assist in disposing of a considerable number of unsold copies of the New Census Catalogue.

We beg to draw the attention of members to a valuable Handbook of Sphagnaceae with illustrations compiled by Mr. W. R. Sherrin, with preface by Mr. H. N. Dixon, and published recently.

The Collection of Mosses and Hepatics of the late Mr. Tetley has been very kindly presented by his sisters, Mrs. Hugill and Miss Tetley, to the British Bryological Society. It has been properly arranged and catalogued and will be a valuable addition to the B. B. S. Herbarium. On behalf of the Society we wish to tender our gratitude and appreciation of such a valuable gift.

The items of information specified in last year's report may be again repeated this year :—(1) Mr. W. R. Sherrin is Librarian and Curator, to whom gifts of bryological books and specimens will be very acceptable. (2) Dr. Trotter is proceeding with the compilation of the Bibliography of Bryological Literature and will welcome copies of new papers. (3) All new County Records should be sent direct, with specimens for verification, during the year to Mr. J. B. Duncan (Mosses), Mr. A. Wilson (Hepatics), and Mr. W. R. Sherrin (Sphagna and Harpidia).

Subscriptions are due on 1st of January and the Treasurer will be grateful if they are paid before the end of March in each year.

D. A. JONES.

Rock House,
Harlech, North Wales.
March 1928.

REPORT OF DISTRIBUTOR (Mosses).

THE outstanding feature of this distribution is the further large increase in the number of foreign plants contributed, which this year amount to more than half of the total. They come mainly from North America, though we have plants also from India, New Zealand, and the Falkland Islands, as well as from the continent of Europe. Most of the American plants however are British species, and we have to thank our members in the United States and Canada for the opportunity thus afforded of comparing the American and British forms of these species. Mr. Dixon has remarked on the value of these contributions in view of the close relationship between the North American flora and our own.

The total number of true mosses sent for distribution this year is slightly greater than last year, but the number of *Sphagna* has progressively decreased in recent years from nearly 1700 in 1924-5 to just over 200 this year. It is to be hoped that Mr. Sherrin's "Illustrated Handbook of the British *Sphagna*," recently published, will stimulate the study of this interesting group of plants.

The number of contributors of Mosses remains exactly the same as last year. We have unfortunately lost by death five active members whose names appeared in last year's list, a heavy toll for one year. While we mourn their loss, it is satisfactory to know that the ranks have been filled so promptly. Mr. Beals' contribution of American Mosses is the largest ever made in any one year. Mrs. MacFadden, in British Columbia, however, runs him very close, she having exceeded her very generous contribution of last year. We have again to admire, with gratitude, the ceaseless activity of our President, Mr. Binstead, in collecting for us. His gathering ground has extended from Sicily to the North of England, while Mr. Dixon has kindly sent specimens collected some years ago from places as far apart as Lapland and Portugal. Miss Armitage, when in Spain, and Dr. Trotter, when in Norway and Switzerland, have kindly remembered us during their quest of health and enjoyment in those countries, and we have been favoured with interesting collections of European plants from Monsieur Charrier, Herr Loeske, Herr Johan Warnstorf and Herr Andres. The fine specimens of *Buxbaumia aphylla* sent by the last named are especially welcome.

Our grateful thanks are due once again to the Referees for all the labour and care they have so generously bestowed, and especially to Mr. Dixon, on whom the burden of dealing with such a large increase of foreign mosses has mainly fallen.

Their reports on the plants submitted have generally been favourable, but in a few cases they have found it necessary to complain of lack of care in the preparation and packeting of specimens. Some packets have contained an inordinate quantity of the soil in which the plants grew, while in others the plants have been so mixed as to detract seriously from their value as specimens. The quantity of some of the specimens also was so inadequate that it was found necessary to place the contents of two, or even three, packets into one. It would be well too if the flaps at the ends of the packets in some cases were wider, as the contents are rather apt to fall out.

It is again necessary to remind members of the provisions of the Distribution Circular regarding *desiderata* and *oblata* lists, and the minimum number of packets of any one gathering which are generally acceptable for distribution. Although a few more *desiderata* lists have been furnished, there still appears to be considerable reluctance on the part of many members to state their requirements. It may be desirable to mention, for the benefit of new members, that the lists of plants sent in, as published in the annual reports, do not indicate that those plants are available for distribution, but that they have already been distributed. The contents of some *desiderata* lists received would seem to suggest an impression that they were available for the following distribution, which is rarely the case.

Some members have remarked on the fact that no marked catalogues have been circulated in recent years to indicate what plants were desired for distribution. With the large increase in membership, this plan became unworkable, but it is recognized that it would be well, if possible, to give some indication of the requirements in this respect. Suggestions for meeting the difficulty will be welcomed.

It is interesting to note that a considerable number of new vice-comital records have been made during the past year, notably by Dr. Rhodes for the county of Huntingdon. It is hoped that members will study the Census Catalogue and endeavour to fill some of the many gaps which still exist.

To conclude, we may I think congratulate ourselves as a Society on the fact that our work is recognized and assisted by so many Bryologists in other countries, whose example should stimulate our members in this country to further efforts for the advancement of Bryological Science.

9 Brookfield Park,
London, N.W. 5,
3 April 1928.

A. SUTTON.

REPORT OF DISTRIBUTOR (Hepatics)

THE distribution has followed the lines of previous ones. 839 packets have been contributed by 17 members. Our parcels have been sent to 30 members.

This distribution is remarkable for the large number of rare plants sent in, both from the British Isles and from the Continent.

Without wishing to draw invidious distinctions amongst such excellent material, reference must be made to the very fine parcel received from Capt. Stenholm. This includes *Lophozia guttulata* (Lindb. et Arn.) Evans, believed to be distributed for the first time.

There is also a number of Hepatics from Java, contributed by Mr. F. Verdoorn. These foreign contributions are particularly welcome, as more and more members are asking for foreign specimens

Mr. Knight contributes the rare *Lophozia heterocolpa* found by him during the annual excursion at Brecon last year, a new record south of the R. Tweed.

The full lists of *oblata* accompanying most of the contributions are a great help to the distribution. It would be an additional assistance, if all contributors, as so many already do, would add the Census Catalogue number to the descriptions of the plants.

The refereeing of the specimens has again been done by Mr. Knight with his usual despatch and good-nature. He reports that he has had little to correct, the specimens being usually correctly named, and the material of good quality.

F. E. MILSOM.

Shepley, Huddersfield,
May, 1923.

**NOTES ON THE CONTINENTAL FORMS OF MNIMUM
AFFINE, MN. RUGICUM AND MN. SELIGERI**

By LEOPOLD LOESKE.

(See Report for 1926-7, p. 289)

Mnium affine is with us a moss of shady forests on dry or somewhat moist but not marshy ground. The whole plant grows in *depressed* patches; the male and female shoots alone are erect, if they are present at all, which is very often not the case in our country. In somewhat moist localities, as on boulders in little brooks etc., the shoots become erect, but the leaves are slightly but never markedly decurrent and the plants are green; this is *affine* var. *elatum*.

Mn. rugicum grows in swamps, boggy meadows near lakes and so on. In the spring it develops many erect shoots, often male, seldom female. The leaves, as in *affine*, are not, or only slightly, decurrent, and they are markedly hollow, when living, hollow in such a manner that occasionally drops of rain or dew are to be found lying on the hollow surfaces of the leaves. The hollowness of the leaves is in spring a striking enough feature of this plant. It is of a light greenish or yellowish tint.

Mn. Seligeri grows in swamps and other moist places. Its aspect is totally different from that of *rugicum* and *affine*. It is yellowish green, and when dried plants are laid in a glass of water, some time after the water will get a yellowish tint (as S. O. Lindberg observed first of all). The leaves of the mostly erect shoots are *strikingly decurrent from leaf to leaf*. The moist leaves are *recurved* in such a manner that never a drop of dew or rain could get hold thereon.

In the two first named mosses, moreover, the apices of the leaves are *rounded off*, ending *abruptly* in an apiculum, whereas in *Mn. Seligeri* the apex of the leaves is not rounded, but distinctly cuspidate.

In all three mosses the teeth of the leaves, breadth of margin and many other features *vary very much*,—one could not rely on them; but the cells of *Mn. Seligeri* are smaller and the angular cells near the margin are more thickened than in the two other plants.

Of course all these mosses are closely allied, and I do not know whether they are different species at all. I fear that by experiments only the question could be solved. But in the field all the three mosses are to be separated at once in nearly all cases. In my opinion *Mn. rugicum* may be a marsh-form of *affine*; but our *Mn. Seligeri* differs widely from our *affine*. I have not seen transitional forms,—perhaps they occur in England.

STATEMENT OF ACCOUNT FOR 1927

RECEIPTS				EXPENDITURE						
	£	s	d	£	s	d	£	s	d	
Balance from last Account ...	...	...	28	9	5	Printing Report issued 1927 ...	...	20	3	0
Subscriptions—1927 ...	40	16	6	Distribution costs 1926-27 ...	...	...	4	8	2	
" Arrears ...	1	17	6	Secretary's Expenses ...	...	...	3	1	1	
" 1928 (paid before due)	2	0	0	Treasurer's " ...	...	...	1	0	6	
			44	14	0	Librarian's " ...	...	0	19	5
Publications sold ...	...	...	2	0	6	Annual Meeting (August 1927)—Expenses	...	0	17	8
Donations to Printing Fund ...	...	...	1	0	0	Balance in hand 31st December, 1927 ...	...	46	11	7
Donations—Visitors at Annual Excursion...	...	...	0	17	6					
			£77	1	5			£77	1	5

MOSS CENSUS CATALOGUE ACCOUNT

Sales—1927, per Mr. W R. Sherin ...	...	...	3	10	0	Balance due—31st. December, 1926 ...	...	19	3	8½
Balance due 31st. December, 1927 ...	...	...	16	0	5	Expenses—postages ...	...	0	6	8½
			£19	10	5			£19	10	5

BALANCE SHEET, 31st. DECEMBER, 1927

LIABILITIES				ASSETS						
Subscriptions 1928—paid before due	2	0	0	Cash in hand (Ordinary Account) 31st. Dec , 1927 ...	46	11	7	
Distribution costs 1927—28, (estimated)	4	10	0	Subscriptions in arrear (£2 5s)—estimated...	...	1	0	0
Printing Report 1927 (estimated)	21	0	0	839 unsold copies Moss Census Catalogue Edn, II....	...			
Deficit on Moss Census Catalogue Account	16	0	5					
Balance (excess of Assets over Liabilities)	4	1	2					
			£47	11	7			£47	11	7

Examined and found correct—T. A. BRUCE,
23/1/28 Barclay's Bank, Berwick on Tweed.

J. B. DUNCAN, Treasurer.

N.B.—Subscription 10/- per annum, Foreign and Colonial Members 5/-, should be paid not later than 31st. March each year.

REPORT ON PLANTS SENT IN BY MEMBERS.

An Asterisk (*) denotes a new Vice-Comital Record.

SPHAGNA.

Sphagnum fimbriatum Wils., Barrage de la Gileppe, Belgium, Aug. 1927, F.V. "This is mixed in some packets with *S. amblyphyllum* var. *parvifolium*, which can be distinguished from *S. fimbriatum* in the dry state by the square-rose spreading leaves of the capitulum. In *S. fimbriatum* these leaves are imbricate." W.R.S.; var. *validius* Card., f. *spectabile* Warnst., Rainford Junç. (59), Aug. 1924, leg. J. A. Wheldon, com. W.G.T.; var. *tenuë* Grav., f. *squarrosulum* Warnst., Aintree (59), Nov. 1918, leg. J. A. Wheldon, com. H.A.H. "This is the var. *laxifolium* Warnst." W.R.S.

S. Girgensohnii Russ., Krummhübel, Riesengebirge, Germany, July 1908, J.W.

S. fuscum (Schp.) v. Klinggr., Konneksee, Mohrunge, Ostpreussen, Germany, Sept. 1913, leg. Dietzow., com. J.W.; Cascade Mt., Washington, U.S.A., Aug. 1925, J.M.G. "This is *S. Russowii* Warnst." W.R.S.

S. quinquefarium (Lindb.) Warnst., Cragside Woods, Rothbury (68*), Sept. 1927, leg. and com. E.H.S., det. W.R.S.

S. plumulosum Roell., var. *versicolor* Warnst., Ballymore (75), Nov. 1927, leg. and com. E.A., det. W.R.S.

S. Dusenii Jens., Wittemberge, Potsdam, Germany, Sept. 1907, J.W.

S. amblyphyllum Russ., Hohes Venn, Ardennes, Belgium, Aug. 1927, F.V. "Near the var. *macrophyllum* Warnst." W.R.S.; var. *mesophyllum* Warnst., f. *silvaticum* Russ., Friday Street, Wotton (17), Apr. 1926, leg. and com. D.G.C., det. W.R.S.; var. *parvifolium* (Sendt.) Warnst., f. *tenuë* v. Klinggr., Gruenhagen, Kompturwald, Ostpreussen, Germany, Aug. 1908, leg. Dietzow, com. J.W.

S. recurvum P. de Beauv., var. *robustum* Breidl., near Hepste Cwm (42*), July 1927, leg. and com. E.A., det. W.R.S.

S. cuspidatum Ehrh., Skipwith Comm.(61), Sept. and Oct., 1926, W.B.; var. *falcatum* Russ., Skipwith Comm. (61), Oct. 1926, W.B.; var. *submersum* Schp., Skipwith Comm. (61), Oct. 1926, W.B.; var. *plumosum* Bry. germ., f. *densum*, Warnst., Robin Hood's Bay (62), Sept. 1926, W.B.

S. molluscum Bruch, var. *vulgatum* Warnst., f. *gracile* Warnst., Whitmore Comm. (17), Apr. 1926, leg. and com. D.G.C., det. W.R.S.

S. Pylaiei Brid., Mt. McIntyre, New York, U.S.A., Sept. 1926, A.T.B.

S. obesum Warnst., var. *plumosum* Warnst., Wimbledon Comm. (17), Sept. 1927, leg. R. W. Hayman, det. and com. W.R.S.

S. subsecundum Nees, Freiwalde, Mohrunge, Ostpreussen, Germany, Sept. 1909, leg. Dietzow, com. J.W.

S. inundatum Russ., var. *densum* (Warnst.) Sherrin, Ballymore (75), Nov. 1927, leg. and com. E.A., det. W.R.S.

S. auriculatum Schp., near Opinan, Gairloch (105), July 1924, leg. D.R.R., comm. W.G.T. "This is *S. inundatum* Russ." W.R.S.

S. rufescens Bry. germ., var. *magnifolium* Warnst., Insel Fohr., bei Nieblum, Schleswig, Germany, June 1926, J.W.

S. papillosum Lindb., var. *sublaeve* Limpr., Skipwith Comm. (61), Oct. 1926, W.B.

S. cymbifolium Ehrh., Hohes Venn, Ardennes, Belgium, Aug. 1927, F.V. "This is *S. papillosum* Lindb." W.R.S.; La Ferrière, Vendée, France, Oct. 1909, J.C.; var. *virescens* Russ., (var. *glaucescens* Warnst.), f. *squarrosula* (Bry. germ.) Warnst., Gruenhagen, Komturwald, Ostpreussen, leg. Dietzow, (no date), com. J.W.

TRUE MOSSES.

European (British and Continental).

Andreaea petrophila Ehrh., Ben Lawers (88), Sept. 1927, C.A. Cooper ; near Killin (88), Aug. 1927, D.B.B.

A. nivalis Hook., Cairngorm (96), Sept. 1927, H.H.K.

Tetraphis pellucida Hedw. (*Georgia pellucida* Rabenh.), St. Andreasberg, Harz Mts, Germany, July 1922, c.fr., J.W.

Catharinea crispa James, Hodden Valley (64), May 1925, leg. C. A. Cheetham, com. W.H.B. ; Dunford Bridge (63), May 1925, F.E.M.

Oligotrichum hercynicum Lam., Hautes Fagnes, Ardennes, Belgium, Aug. 1927, F.V. ; var. *laxum* Braithw., Llanberis (49), Aug. 1919, W.W.

Polytrichum nanum Neck., var. *longisetum* Hampe, Kingwood Comm., Peppard (23*), Nov. 1927, C.H.B.

P. aloides Hedw., forma, Knockdolian (75), Nov. 1927, E.A. "These plants were growing on a grassy bank ; they are much larger than any specimens of *P. aloides* I have seen and are quite distinct from the type, which was growing in the same locality not far off. The length of the plant is from 4 to 4.5 c.m. to top of capsule, ($1\frac{5}{8}$ to $1\frac{3}{4}$ inches) ; $\frac{1}{2}$ to $\frac{3}{4}$ inch is usual, see "Handbook." The stem is elongated and leafy, bearing about 20 leaves ; the seta is long, about 3 to 4 c.m., and the capsule also is longer than usual, about 3 m.m. It might be distinguished as forma *elata*." E.A. "A very marked form, at least. But as continental works frequently give the length of the seta as up to 3.5 c.m., and the capsule up to 3 m.m., it is perhaps scarcely extreme enough to deserve varietal rank, especially as the dimensions are so variable within the gathering. Forma *elata* would be quite a suitable designation." H.N.D.

P. urnigerum L. (*Pogonatum urnigerum* P.B.), St. Hilaire le Vauhis, Vendée, France, July 1914, J.C.

P. piliferum Schreb., Warley, near Brentwood (18), June 1927, c.fr. A.S.

P. gracile Dicks, Shoulthwaite Moss, near Keswick (70*), June 1927, C.H.B.

Buxbaumia aphylla L., Venusberg bei Bonn, Germany, Dec. 1927, H.A.

Ditrichum tenuifolium Lindb., Biddleston (68*), Sept. 1927, E.H.S.

D. homomallum Hampe, Hepste Cwm (42), Aug. 1927, leg. C. Armitage, com. E.A.

Seligeria paucifolia Carruth., Reigate Hill (17), June 1926, M.S. ; Cuxwold (54), June 1927, G.H.A.

Brachyodus trichodes Fuernr., Lyham Burn, Chatton (68), Feb. 1927, J.B.D.

Ceratodon purpureus Brid., forma., Zinal, Valais, Switzerland, July 1926, P.G.M.R.; "A form with soft and often obtuse leaves growing on shingle roofs of chalets, under extreme conditions, being covered with snow for most of the year, and exposed to great dessication at other times. Many peculiar forms result from these conditions." P.G.M.R.

C. chloropus Brid., Taormina, Sicily, Feb and March 1927, leg. and com. C.H.B., det. W.E.N.

Dichodontium pellucidum Schp., Altenhof bei Trier, Germany, Apr. 1925, H.A. ; Bizzle, Cheviot Fell (68), Sept. 1925, leg. J.B.D. and W.C.M., com. W.C.M. ; Bolton Abbey (64), March 1927, W.H.B. ; Brecknock Beacons (42), Apr. 1927, P.W.M.R. ; var. *compactum* Schp., Meal Ghaordie (88), July 1927, leg. J.B.D., and W.Y., com. J.B.D.

D. flavescens Lindb., Waren Burn (68), Feb. 1927, J.B.D. and W.C.M. ; Rothbury (68), Apr. 1927, E.H.S.

Dicranella cerviculata Schp., Forsli, Hårdangervidda, Norway, July 1926, L.B.C.T.

D. rufescens Schp., Broadmoor, Wotton (17), Dec. 1927, E.C.W.

D. Schreberi Schp., var. *elata* Schp., Kyloe Hills (68), Jan. 1927, J.B.D.

D. squarrosa Schp., Dowlaw Moor (81), Oct. 1927, leg. J.B.D. and W.C.M., com. W.C.M.

Blindia caespiticia Lindb., Ben Lawers (88), July 1927, J.B.D.

Dicranoweisia cirrata Lindb., Castle Howard (62), Feb. 1922, H.S.

D. crispula Lindb., Ben Lawers (88), July 1927, J.B.D.

Campylopus flexuosus Brid., Wisley Lake, Ockham (17), Aug. 1926, male infl., E.C.W. ; var. *zonatus* Schp., Tyn-y-Groes (48), July 1925, leg. D.A.J. and F.E.M., com. F.E.M.

C. fragilis B.E., Chantonay, Vendée, France, May, 1914, J.C.

C. Shawii Wils., Adrigole (I. 3), July 1925, leg. J.B.D., H.H.K. and W.E.N., com. W.E.N.

C. setifolius Wils., Tyn-y-Groes (48), July 1925, leg. D.A.J. and F.E.M., com. F.E.M. ; var. *intermedius* Jones, Cwm Mawr, Harlech (48), Apr. 1924, leg. D. A. J. and P.G.M.R., com. P.G.M.R.

C. atrovirens De Not. "large growth," near Dolwyddelen (49), Sept. 1924, A.W. ; var. *muticus* Milde. Skipwith Comm.

(61), Sept. 1916, W.W. "This plant looks very much like *C. brevipilus*. The leaves are not very elongate; also the upper cells are rather short, and there is a band of diaphanous cells running up the margin above the leaf base." G.B.S. "This is certainly a very puzzling plant, but I think it is undoubtedly referable to *C. brevipilus*. The nerve section is peculiar and unsatisfactory, but when a fairly well developed leaf is sectioned it shows an undoubtedly central series of guide-cells, and a ventral and dorsal layer of stereid or sub-stereid cells, though these are often reduced, on the ventral surface especially to a single row which may even not be continuous across the nerve. The areolation of the lamina also is usually far from typical." H.N.D.

C. introflexus Brid., Exireuil, Deux Sèvres, Feb. 1922, and Chantonay, Vendée, France, Aug. 1926, J.C.

Dicranodontium longirostre B. and S. (*D. denudatum* Hag.), Khanster, pres Sourbrodt, Ardennes, Belgium, Aug. 1927, F.V.; var. *alpinum* Milde, Carnedd Llewelyn (49), May 1927, A.W.

Dicranum falcatum Hedw., Berakofen, Hardangervidda, Norway, July 1926, L.B.C.T.; Pila, Bernina Pass, Switz., July 1927, L.B.C.T. "I should name this plant *D. longifolium*. The nerve of the leaf is very wide, as in that species, and forms a long rough subula." G.B.S.

D. molle Wils., Ben Lawers (88), July 1927, J.B.D.

D. undulatum Ehrh., Skipwith Comm. (61), July 1927, W.H.B.

D. spurium Hedw., Boat of Garten (96), Sept. 1927, H.H.K.

D. Bergeri Bland., Graden (80), Oct. 1927, J.B.D.

D. Bonjeani De Not., Lyham Moor (68), Oct. 1927, leg. J.B.D. and W.C.M., com. W.C.M.; var. *rugifolium* Bosw., Bunkle Wood (81), Nov. 1926, leg. J.B.D. and W.C.M., com. W.C.M.

D. scoparium Hedw., var. *paludosum* Schp.?, Knockdolian (75), Nov. 1927, E.A. "Plant tall, bright green, on swampy hillside, superficially resembling *D. Bonjeani*, (see "Handbook Ed. 3, p. 113)" E.A. "Certainly *D. scoparium*; but it has not the long, flexuose, undulate points of var. *paludosum*. I should refer it to var. *orthophyllum* Brid. The var. *ericetorum* Corbière (Clougha, Lancs, coll. Wheldon and Beesley), distributed by the M.E.C. in 1904, appears to me practically the same thing." H.N.D.; var. *orthophyllum* Brid., Piz de Campascio, Bernina Pass, Switz., July 1927, L.B.C.T.; Box Hill (17), Apr. 1927, D.G.C. "I doubt whether this ought to go under the var. *orthophyllum*, for the

leaf points are not particularly slender and are often only faintly toothed." G.B.S. ; Pagham Beach (13), May 1927, E.C.W. " This is not very good var. *orthophyllum*, as the leaves are distinctly secund." G.B.S.

D. majus Turn., Hovington Wood (62), May 1918, H.S. ; Abinger Comm. (17), Sept. 1927, E.C.W.

D. fuscescens Turn., Aviemore (96), Sept. 1927, C. A. Cooper.

D. viride Lindb, Posieux, Fribourg, Switz., Jan. 1920 (1245), P.G.M.R.

D. Scottianum Turn., Artro Wood, near Harlech (48), Aug. 1915, c.fr., W.W. ; Chatton (68), March and July 1927, J.B.D. and W.C.M. ; Crunwre (45), March 1927, R.J.

D. elongatum Schleich., Hardangervidda, Norway, July 1926, L.B.C.T.

D. strictum Schleich., Knaresborough (64), Aug. 1924, W.H.B. ; Berlin, Germany, L.L., March 1922 ; Ayer, Valais, Switz., Aug. 1926, P.G.M.R.

D. flagellare Hedw., Ruislip (21), May 1927, P.W.M.R.

D. montanum Hedw., Forêt de Vouvant, Vendée, France, July 1926, J.C. ; Valley of the Gileppe, Ardennes, Belgium, Aug. 1927, F.V.

D. longifolium Ehrh., Gudvangen, Sognefjord, Norway, July 1926, L.B.C.T. ; (*Paraleucobryum longifolium* Loeske), Valley of the Warche, Ardennes, Belgium, F.V.

Leucobryum glaucum Schp., New Forest (11), Nov. 1927, c.fr., G.H.B. ; Llandecwyn (48), Apr. 1919, c.fr., leg. D.A.J. and P.G.M.R., com. P.G.M.R.

Fissidens exilis Hedw., Bradley (54), Dec. 1927, G.H.A.

F. Warnstorffii Fleisch., Taormina, Sicily, March 1927, leg. and com. C.H.B., det. W.E.N.

F. crassipes Wils., Taormina, Sicily, March 1927, c.fr., leg. and com. C.H.B., det. W.E.N.

F. osmundoides Hedw., Irfon Valley, above Abergwesyn (42), June 1923, H.H.K.

F. adiantoides Hedw., Naburn (62), June 1921, H.S. ; Silverdale (60), June 1900, leg. J. A. Wheldon, com. W.G.T. " I should call this plant *F. decipiens*, the leaves being sharply toothed and the pale border of incrassate cells being well marked. Another feature is the small obscure cells." G.B.S.

F. decipiens De Not., Fleam Dyke (29), March 1927, " A small form, formerly taken for *F. collinus* Mitt." P.G.M.R.

F. grandifrons Brid., Fihenheim-am-Rhein, Germany, Jan. 1898, leg. W. Baur, com. L.L. ; Lac d'Oo and Juzet de Luchon, Haute Garonne, France, July 1927, H.V.B.M.

Grimmia apocarpa Hedw., var. *alpicola* H. and T., Bolton Woods(64), Sept. 1927, D.G.C., "I do not think that this plant belongs to var. *alpicola*. There is a distinct hyaline point to some of the leaves and the general outline of the leaves is not particularly broad. I should call this gathering fairly typical *G. apocarpa*." G.B.S. ; Hepste (42), Sept. 1927, leg. P.G.M.R. and D.A.J., com. D.A.J. ; var. *rivularis* W. and M. (*G. rivularis* Brid.), St. Laurent sur Sèvre, Vendée, France, Sept. 1921, J.C. ; Whelpe (70), June 1927, J.M.

G. maritima Turn., Oxfjord, Lappland, Aug. 1897, leg. W. Baur, com. L.L. ; Tre-arddu Bay (52), July 1927, P.G.M.R. ; Traprain Law (82), Sept. 1926, E.H.S.

G. anodon B. and S., La Gironde, Sierre, Valais, Switz., July 1926 (2658), P.G.M.R.

G. incurva Schwaeg., Clee Hills (40), Aug. 1927, J.B.D.

G. funalis Schp., Carnedd Llewelyn (49), Sept. 1927, A.W. ; var. *epilosa* Zett. (*G. calvescens* Kindb.), Grand St. Bernard, Switz, July 1922, leg. and com. P.G.M.R., det. L.L.

G. torquata Hornsch., Ingleton (64), Apr. 1927, W.B. ; Craig Cerig Gleisiad (42), Apr. 1927, P.W.M.R.

G. orbicularis Bruch, Great Orme's Head (50), Feb. 1926, A.W. ; Rocca, near Palermo, Sicily, Apr. 1927, c.fr., leg. and com. C.H.B., det. W.E.N.

G. trichophylla Grev., Broxmouth, near Dunbar (82), Sept. 1926, E.H.S. "In this plant the leaves are oblong, the apex being rounded and broad, not tapering as in *G. trichophylla*. These features point to *G. orbicularis*. I should so name the specimens." G.B.S. ; Broadmoor, Wotton (17), Sept. 1927, E.C.W.

G. subsquarrosa Wils., St. Ishmael's (45), Oct. 1921, R.J. "In this specimen the leaves are somewhat squarrose and the basal cells are mostly short. These features agree with *G. subsquarrosa* Wils., but as this has now been reduced to a form of *G. trichophylla*, the plant must go under that name." G.B.S.

G. decipiens Lindb., Moel-y-Gêst, Portmadoc (49), July 1927, c.fr., D.A.J. ; Traprain Law (82), Sept. 1926, leg. J.B.D. and W.C.M., com. W.C.M. ; Mourne Mts. (I. 38), Oct. 1927, W.R.M. ; Sassal Masone, Bernina Pass, Switz., July 1927, L.B.C.T. "I think this is *G. elatior* B. and S. The leaves are long and attenuated and the hair points are not very rough and are generally rather short." G.B.S.

G. elatior B. and S., Pila, near Alp Gruem, Bernina Pass, Switz., July 1927, two gatherings (a) and (b), L.B.C.T. "Gathering (a) is correctly named, but gathering (b) is *G. Hartmani* Schp. The leaves have shorter hair points than

in *G. elatior* and the cells are short almost to the base." G.B.S.

G. Hartmani Schp., Gudvangen, Sognefjord, Norway, July 1926, L.B.C.T.; Ingleton (64), March 1924, W.H.B.; Ingleton (64), May 1926, W.B.

G. patens B. and S., Gudvangen, Sognefjord, Norway, July 1926, L.B.C.T.

G. Doniana Sm., near Kington (36*) Sept. 1927, leg. C.H.B., com. E.A.

G. ovata Schwaeg., Kyloe Crags (68), Sept. 1927, W.C.M.

G. commutata Huebn., St. Laurent sur Sèvres, Vendée, France, Sept. 1921, J.C.

G. leucophaea Grev., Taormina, Sicily, March 1927, leg. and com. C.H.B., det. W.E.N.

G. subsulcata Limpr., near Alp Gruem, and Piz de Campascio, Bernina Pass, Switz., July 1927, c.fr., L.B.C.T. "The plants from Piz de Campascio might, I thought, either be gemmiparous or be infested with some form of parasite, resembling little brown, sessile gemmae. Mr. Nicholson thinks it is perhaps an alga." L.B.C.T.

G. unicolor Hook., near Alp Gruem, Sassa Masone, and Palu Gl., Bernina Pass, Switz., July 1927, L.B.C.T. "The gathering from Palu Gl. is, I think, not a *Grimmia*, but a *Weisia*, probably a minute form of *W. rupestris*. Note that the cells are papillose." G.B.S.

Rhacomitrium aciculare Brid., Valley of the Warche, Ardennes, Belgium, Aug. 1927, F.V.

R. fasciculare Brid., Ben Lawers (88) Sept. 1927, C. A. Cooper. "One packet contains *R. heterostichum*, var. *gracil-escens*. Note the absence of lateral branches and the leaves with short upper cells." G.B.S.

R. heterostichum Brid., var. *alopecurum* Huebn., Traprain Law (82*), Sept. 1926, E.H.S.

R. ramulosum Lindb., Ben Lawers (88), July 1927, J.B.D.

R. canescens Brid., var. *strictum* Schlieph. (form with plicate leaves), Cambrena Glacier moraine, Bernina Pass, Switz., July 1927, L.B.C.T.

Braunia alopecura (Brid.) Limpr., Bellinzona, Switz., 1916, leg. M. Jaeggli, com. L.L.

Coscinodon cribrosus Spruce, Barmouth (48), Oct. 1911, P.G.M.R.; Tesserete, near Lugano, Switz., Apr. and May 1924, c.fr., A.S.

Ptychomitrium polyphyllum Fuernr., Ingleton (64), April 1927, W.B.

Campylostelium saxicola B. and S., Lyham Burn, Chatton (68*), Feb. 1927, J.B.D.

Hedwigia ciliata Ehrh. (*H. albicans* (Web.) Lindb.), near Malmédy, Ardennes, Belgium, Aug. 1927, F.V.

H. imberbis Spruce, Hir Inys, Llanfrothen (48), Apr. 1919, leg. D.A.J. and P.G.M.R., com. P.G.M.R.

Phascum curvicolle Ehrh., Banstead Downs (17), Nov. 1927, E.C.W. "This is rather immature and mixed, and in some envelopes it is difficult to find the plant. There is however some *P. curvicolle* in each envelope." W.E.N.

P. cuspidatum Schreb., Hail Weston (31*), March 1927 (2861), P.G.M.R.

Pottia minutula Fuern., Guijarro, near Malaga, Spain, Jan. 1927, leg. and com. E.A., det. H.H.K. "This plant has a short but well-developed peristome, and the spores, which are mostly immature, are of the *P. Starkeana* type. I should refer the plant to the var. *brachyodus* Wils. of that species." W.E.N.

P. commutata Limpr., Almogia, near Malaga, Spain, Feb. 1927, leg. and com. E.A., det. H.H.K.; Freshwater Bay (10*) Nov. 1927, J.G.

P. lanceolata C.M., Great Orme's Head (50), May 1926, A.W.

Desmatodon Guepini B.E., Kapandjilar, Macedonia, Greece, March 1918, J.C. "I reported on a gathering of this species from Macedonia in 1924. This plant appears to be that recognized under the above name on the Continent, but the characters which separate it from *Pottia lanceolata* C.M., appear to me to be somewhat illusory and intangible." W.E.N.

Crossidium squamigerum (Viv.) Jur., (*Tortula membrani-
folia* Hook.), Ventas de Zaffaraya, near Malaga, Spain, Feb. 1927, c.fr., leg. & com., E.A.; det. H. H. K.; Mola, Taormina, Sicily, March 1927, c.fr., leg. & com. C.H.B., det. W.E.N.

Tortula pusilla Mitt., Scremerston (68), Jan. 1927, leg. J.B.D. & W.C.M., com. W.C.M.

T. cernua Lindb., Aberford (64), Sept. 1915, W.H.B.

T. atrovirens Lindb., near Berwick (68), Jan. 1927, W.C.M.; also, near Menton, S. France, Jan. 1928, C.H.B.

T. cuneifolia Roth, Pianu, Corsica, Apr. 1927, c.fr. leg. & com. C.H.B., det. W.E.N.

T. marginata Spruce, Shanklin (10), July 1927, C.H.B.

T. muralis Hedw., var. *aestiva* Brid., Kinver (39), Nov. 1927, P.G.M.R.

T. mutica Lindb., Drumbridge (I. 39), May 1922, W.R.M.; Rothbury (68), June 1927, E.H.S.

T. alpina Bruch, Kitzbuehler Alpen, Mittersill, Salzburg, Austria, Aug. 1927. L.L.

T. laevipila Schwaeg., Arundel Park (13), May 1927, E.C.W.

T. ruralis Ehrh., Colmenar, near Malaga, Spain, Feb. 1927, leg. & com. E.A., det. H.H.K.

T. ruraliformis Dixon, Littlehampton, (13), May, 1927, E.C.W.; Prestatyn (51), Aug. 1927, W.G.T.

T. princeps De Not., Hume Castle, Berwick (81*), Dec. 1926, & Sept. 1927, J.B.D. & W.C.M.

Didymodon giganteus (Funck) Jur., (*Geheebia cataractarum* Schp.), Kandersteg, Switz., Aug. 1926, (2742), P.G.M.R.

Barbula lurida Lindb., Rissington (33), Oct. 1927, leg. H. H. K. and D. A. J., com. D. A. J.; (*Didymodon luridus* Hornch.), La Châtaigneraie, Vendée, France, Feb. 1923, J.C.

B. rubella Mitt., Stamford Bridge & Naburn (62), June 1920, and Cramb Beck (62), Feb. 1923, H.S.

B. tophacea Mitt., forma, Sellack (36), Dec. 1927, E.A. "This plant grows in the mortar of an old wall in dense compact tufts closely resembling *Weisia calcarea*, except for the olive green colour; stems very short (about 5 m.m.) The basal rectangular cells are longer and narrower than in the type. An exactly similar form was gathered on a cottage roof at Symond's Yat (34) in 1906. Both specimens without fruit. It might perhaps be named 'forma compacta.'" E.A. "A somewhat remarkable form which Miss Armitage compares, not inaptly, with *Weisia calcarea* C.M. I have found similar forms in Sussex growing in habitats which do not admit of the full development of the plant. When the form is so clearly induced by the nature of its environment I am inclined to question the wisdom of giving it a name, and I hardly think that Miss Armitage's note would form a valid description." W.E.N. "I agree with Mr. Nicholson's remarks and withdraw my suggestion for a name. As however the form is so untypical I think it is worth distributing." E.A.

B. fallax Hedw., Linton Lock (62), Oct. 1918, H.S. "A rather unsatisfactory plant, and not in good condition. I make it a form of *B. cylindrica* Schp., rather than *B. fallax*. The subquadrate obscure cells are in favour of *B. cylindrica*." W.E.N.; Arundel (13), May 1927, E.C.W.; var. *brevifolia* Schultz, Holmbury St. Mary (17), Oct. 1927, E.C.W. "This is rather a small form of *B. fallax*, but I should not refer it to the var. *brevifolia*, which has more distant, shorter leaves. The leaves in the present plant are relatively long for the size of the plant." W.E.N.

B. recurvifolia Schp., Southerscales, Chapel-le-Dale (64), Nov. 1926, W.H.B.

B. spadicea Mitt., Bolton Woods (64), Sept. 1927, c.fr., D.G.C.

B. Nicholsoni Culm., Norham (68), Dec. 1926, J.B.D.

B. cylindrica Tayl., Holmbury Hill (17), Oct. 1927, E.C.W.; Caldbeck (70), June 1927, c.fr., C.H.B.; Puy de Serre, Vendée, France, Oct. 1923, J.C.

B. vinealis Brid., Clymping (13), May 1927, E.C.W.; Rothbury (68), Aug. 1927, E.H.S.

B. glauca (Ryan) Dixon, Mortar of wall, Baveno, L. Maggiore, Italy, Apr. 1912. "This was described as *Eucladium verbanum* Nichols. and Dixon, but its true affinity has been much debated. It appears however to be a small form of *Didymodon glaucus* Ryan, the exact position of which, again, is very doubtful." H.N.D.

B. sinuosa Braithw., Bishop's Cleeve (33), Nov. 1927, leg. H.H.K. & D.A.J., com. D.A.J.

B. Hornschuchiana Schultz, Ventas de Zaffaraya, near Malaga, Spain, Feb. 1927, leg. & com., E.A., det. H.H.K.

B. convoluta Hedw., La Châtaigneraie, Vendée, France, Apr. 1911, J.C.; Hail Weston (31*), March 1927, (2861), P.G.M.R.; var. *Sardoia* B. & S., Kew (17), May 1925, leg. & det. W.R.S., com. E.E.

B. unguiculata Hedw., Cramb Beck (62), Nov. 1917, H.S.

Leptodontium flexifolium Hampe, Shaftoe Crags (67), July 1927, E.H.S.; Lehe, Hanover, Germany, Apr. 1922, leg. Dieckhoff, and Gesstemunde, Hanover, Germany, July 1927, leg. Dr. Timm, both com. L.L.

Weisia microstoma C.M., Ruan Minor (1), May 1927, W.G.T.

W. tortilis C.M., Taormina, Sicily, March 1927, leg. & com. C.H.B., det. W.E.N.; (*Hymenostomum tortile* B.E.) Le Gué de Velluire, Vendée, France, Nov. 1926, J.C.

W. viridula Hedw., Large form on mud (lead ore washings), near Llyn Geirionydd (49), June 1926, A.W.

W. calcarea C.M., Malaga, Spain, Jan. 1927, leg. & com. E.A., det. H.H.K.; var. *viridula* C.M., Angle (45), March 1927, R.J.

W. rupestris C.M., near site of "Storey Arms," Brecon (42), Aug. 1927, F.R.

W. curvirostris C.M., var. *commutata* Dixon, Black Force, Howgill Fells (65), Apr. 1925, W.H.B.; Coldingham Shore (81), Jan. 1927, leg. J.B.D. & W.C.M., com. W.C.M.; var. *insignis* Dixon, Cam Chreag (88), July 1927, J.B.D.

W. verticillata Brid., Malaga, Spain, Jan. 1927, leg. & com. E.A., det. H.H.K.

Timmiella anomala Limpr., near Stresa, L. Maggiore, Italy, Apr. 1924, A.S.

T. Barbula (Schwaegr.) Limpr., Ronda, Spain, March 1927, leg. Miss Crosse, det. H.H.K., com. E.A.; Rocca, near Palermo, Sicily, Apr. 1927, leg. & com. C.H.B., det. W.E.N.

Trichostomum crispulum Bruch, Crunwere (45), March 1927, R.J.; var. *elatum* Schp., Torc Mt., Killarney (I.1), Aug. 1924 (2240), P.G.M.R.; var. *nigro-viride* Braithw., Ingleton (64), May 1926, W.B.

T. mutabile Bruch, Traprain Law (82), Sept. 1926, E.H.S.; var. *littorale* Dixon, Lyham Burn, Chatton (68), Feb. 1927, J.B.D.; small form, Mola, Taormina, Sicily, March 1927, leg. & com. C.H.B., det. W.E.N.; var. *cophocarpum* Schp., Bwlchgwyn, Wrexham (50), Jan. 1925, leg. D.A.J. & P.G.M.R., com. P.G.M.R.

T. hibernicum (Mitt.) Dixon, Leenane Hills (I. 16), July 1925, leg. J.B.D., H.H.K., & W.E.N., com. W.E.N.

T. nitidum Schp., Crunwere (45), March 1927, R.J.

T. inflexum Bruch, Taormina, Sicily, March 1927, leg. & com. C.H.B., det. W.E.N.

T. Ehrenbergii Lor., Sifone Valley, Taormina, Sicily, Feb. 1927, leg. & com. C.H.B., det. W.E.N.

T. tortuosum Dixon, var. *fragilifolium* Dixon, Moughton (64), May 1926, leg. J.B.D., com. W.C.M.; *idem* March 1925, F.E.M.

Tortella caespitosa (Schwaegr.) Limpr., Taormina, Sicily, March 1927, leg. & com. C.H.B., det. W.E.N., H.N.D. concurring.

Pleurochaete squarrosa Lindb., Almogia, near Malaga, Spain, Feb. 1927, leg. & com. E.A., det. H.H.K.

Cinclidotus fontinaloides P.B., var. *pseudo-aquaticus* Ingh., Bolton Woods (64), Sept. 1927, D.G.C. "This plant bears some general resemblance to the late Mr. Ingham's variety, but I find that the leaves are generally shorter and broader, especially at the apices, than they are in the specimen which I had direct from Mr. Ingham. It is questionable whether the right to named varieties should be conceded to so variable a plant as *C. fontinaloides*." W.E.N.

C. riparius Arn., Mervent, Vendée, France, Sept. 1924, c.fr., J.C.

C. aquaticus, B. & S., Fontaine de Vaucluse, S. France, May 1927, c.fr., leg. & com. C.H.B., det. W.E.N.; St. Enirine, Lozère, France, Aug. 1927, P.W.M.R.

Encalypta vulgaris Hedw., near Malaga, Spain, Feb. 1927, leg. & com. E.A., det. H.H.K.

E. ciliata Hoffm., Pen-ÿ-Ghent (64), May 1927, W.H.B.

Zygodon Mougeotii B. & S., Ingleton (64), May 1926, W.B. ; (*Amphidium Mougeotii* Schp.), Valley of the Warche, Ardennes, Belgium, Aug. 1927, F.V.

Z. viridissimus R. Brown, var. *rupestris* Hartm., Pagham Beach (13), on oyster shells, May 1927, E.C.W.

Z. gracilis Wils., Clapham (64), March 1927, leg. C.A. Cheetham & W.B., com. W.B.

Ulota Drummondii Brid., Waren Burn (68), Feb. 1927, leg. J.B.D. & W.C.M., com. W.C.M.

U. crispa Brid., var. *intermedia* Braithw., Knockdolian (75), Nov. 1927, E.A. "The species of *Ulota* are often difficult of discrimination, but from the dark capsules, always more or less constricted at the mouth, I make this plant *U. Bruchii* Hornsch." W.E.N.

Orthotrichum cupulatum Hoffm., Caldbeck (70), June 1927, leg. C.H.B. & J.M., com. J.M.; var. *nudum* Braithw., Caldbeck (70), June 1927, leg. C.H.B. & J.M., com. J.M.; Wootton Rivers (7 & 8), July 1927, D.G.C. "The setae are rather shorter than is usual, but the long cylindrical capsules, always distinctly exerted and with 8 striae only, prove that this plant belongs to *O. anomalum* Hedw., var. *saxatile* Mildé." W.E.N.

O. Sardagnae Vent., Colmenar, near Malaga, Spain, circ. 1800 ft., on limestone rocks, Feb. 1927, leg. & com. E.A., det. H.H.K. "I find that Venturi originally described this species as *O. Sardagnanum* in the Rev. Bry., but subsequently when he came to do the genus in Husnot's Musc. Gall., he emended the name to *Sardagnae*. On the whole I prefer *Sardagnanum*, and it was certainly the first." W.E.N.

O. Lyellii H. & T., White Downs (17), July 1927, E.C.W. ; between Snitter and High Trewitt (68), Jan. 1927, E.H.S. ; Killin (88), Aug. 1925, D.B.B.

O. diaphanum Schrad., Kimbolton (31*), March 1927, (2859B), P.G.M.R. ; var. *aquaticum* Davies, Studley (38), May 1927, P.G.M.R. —

Splachnum vasculosum L., Croban, Killin (88), July 1927, leg. W.Y. & J.B.D., com. J.B.D.

Tetraplodon mnioides B. & S., Aviemore (96), Sept. 1927, C. A. Cooper ; Cairngorm (96), Sept. 1927, H.H.K. ; Achill Island (I. 27), July 1927, leg. C.D.C. & W.R.M., com. W.R.M.

T. Wormskjoldii Lindb., Widdy Bank Fell (66), May 1918, leg. C. A. Cheetham & W.H.B., com. W.H.B.

Discelium nudum Brid., Crowborough (14), March 1921, W.E.N.

Physcomitrium pyriforme Brid., Beddington (17), Apr. 1927, D.G.C.

- Funaria curviseta* Lindb. (*Entosthodon curvisetus* C.M.), Taormina, Sicily, March 1927, leg. & com. C.H.B., det. W.E.N.
- F. pallescens* Broth., (*Entosthodon pallescens* Jur.), Palermo, Sicily, Apr. 1927, leg. & com. C.H.B., det. W.E.N.
- F. calcarea* Wahl., (*F. dentata* Crome), Taormina, Sicily, March 1927, leg. & com. C.H.B., det. W.E.N.
- F. hygrometrica* Sibth., Guijarro, near Malaga, Spain, Jan. 1927, leg. & com. E.A., det. H.H.K.
- Paludella squarrosa* Brid., Hardangervidda, Norway, July 1926, L.B.C.T.; Dovrefjeld, Norway, ——— 1887, leg. Sir B. Stone, com. P.G.M.R.
- Aulacomnium turgidum* Schwaegr., Knudsho, Norway, July 1890, leg. Sir B. Stone. com. P.G.M.R.
- A. palustre* Schwaegr., Din Moss, Roxburgh (80), Oct. 1927, J.B.D.; var. *imbricatum* B. & S., Foel Grach (49), May 1927, A.W.
- Timmia norwegica* Zett., Meal Ghaordie (88), July 1927, leg. W.Y. & J.B.D., com. J.B.D.
- T. bavarica* Hessel., Pont de Nant, Vaud, Switz., May 1920, (1334), P.G.M.R.
- Conostomum boreale* Swartz., Hardangervidda, Norway, July 1926, c.fr., L.B.C.T.; Ben More (88), Aug. 1925, D.B.B.
- Bartramia Oederi* Swartz (*Plagiopus Oederi* Limpr.), Valley of the Warche, Ardennes, Belgium, Aug. 1927, F.V.
- B. stricta* Brid., near Malaga, Spain, Feb. 1927, leg. & com. E.A., det. H.H.K.; Hyères, S. France, March 1926, C.H.B.
- B. ithyphyll* Brid., Ben Lawers (88), Sept. 1927, C.A. Cooper; Besse-en-Chandolle, Puy de Dôme. France, July 1926, P.W.M.R.
- B. pomiformis* Hedw., var. *crispa* B. & S., Doone Valley (4), Sept. 1925, D.G.C. "This is the type. The variety is a taller form, the innovations of the year overtopping the ripe fruit." D.A.J.
- B. Halleriana* Hedw., Launchy Ghyll, Thirlmere (70), June 1927, leg. C.H.B., com. J.M.
- Philonotis fontana* Brid., var. *ampliretis* Dixon, Aberglaslyn Pass (49), June 1927, D.A.J.
- P. caespitosa* Wils., The Lizard (1), June 1927, male plants, W.E.N.; Tillingbourne Valley (17), May 1926, E.C.W.
- P. calcarea* Schp., Roddam Dean (68), June 1927, leg. J.B.D. & W.C.M., com. W.C.M.
- Breutelia arcuata* Schp., Tobermory, Isle of Mull (103), May 1927, leg. Mrs. E. Lawson, com. E.H.S.
- Leptobryum pyriforme* Wils., Cartington Castle (68), Apr. 1927, E.H.S.

Mielichhoferia nitida Hornsch., (*Oreas Mielichhoferi* Brid.), Hohe Tauern, Mittersill, Salzburg, Austria, Sept. 1927, L.L.

Pohlia marchica Ostw., Bucher-Austich, Berlin, Germany, (*loc. class.*), June 1915, leg. Osterwald, com. L.L. "*Pohlia* (*Webera*) *marchica* Osterw., Flora der Mark Brandenburg, Warnst., Bd. II., 441 (1906). Roth (in Hedwigia, L. 164) describes and figures this, remarking that it has the appearance of *P. nutans*, but differs in the dioicous inflorescence and smaller spores, .01—.015 m.m." H.N.D.

Webera nutans Hedw., var. *longisetata* B. & S., Strensall Comm. (62), July 1927, H.S.; Chobham Comm. (17), May 1927, leg. W.R.S., com. E.E.

W. annotina Schaegr., Felday, Wotton (17), Dec. 1927, E.C.W.; Walton Heath (17), Feb. 1927, E.C.W. "The bulbils differ in form and size from those of typical *W. annotina*. They are rare and occur singly in the axils of the leaves at the middle and upper parts of the stem, as in the var. *erecta* Correns; but they are rather more leafy, and not unlike those of the var. *bulbifera* Correns, to which the plant may belong. The material is immature." D.A.J.

W. prolifera Bryhn, Alderley (58), Aug. 1912, W.W.; near Kidderminster (37), Apr. 1914, P.G.M.R.

W. Ludwigi Schp., Cwm Glas Mawr, Snowdon (49), Aug. 1919, leg. J.A. Wheldon, D.A.J., W.N.T. & P.G.M.R., com. P.G.M.R.

W. commutata Schp., Cader Idris (48), Aug. 1922, D.B.B.

W. albicans (Wahl.) Schp., Balcombe (14), Apr. 1927, c.fr. W.E.N.; Bookham Comm. (17), June, 1927, E.C.W.; var. *glacialis* Schp., Croban, Killin (88), July 1927, leg. W.Y. & J.B.D., com. J.B.D.

W. calcarea Warnst., Shanklin (10*), July 1927, leg. & com. C.H.B., det. W.E.N.

Bryum Warneum Bland., near Köpenick, Berlin, Germany, June 1907, leg. Fleischer, Osterwald & L.L., com. L.L.

B. splachnoides (Harv.) C.M., Taormina, Sicily, Feb. & March 1927, leg. & com. C.H.B., det. W.E.N.

B. lacustre Brid., Cleethorpes (54), Aug. 1927, c. fr., G.H.A.

B. inclinatum Bland., Paghham Beach (13), May 1927, c. fr. E.C.W.

B. turbinatum Schwaegr., var. *latifolium* B. & S., Gavarnie, Pyrenees, Apr. 1925, C.A. Cooper.

B. neodamense Itzigs, Ainsdale (59), June 1927, W.G.T.

B. provinciale Philib., Taormina, Sicily, March 1927, C.H.B.

B. capillare L., var. *torquescens* Husn. (*B. torquescens* B. & S.) Bazoges en Pareds, Vendée, France, Apr. 1925, J.C.; Barton on Humber (54), Aug. 1927, c. fr. G.H.A.

B. erythrocarpum Schwaegr., Tiptree Comm. (19), June 1926, leg. W.R.S., com. E.E.

B. atropurpureum W. & M., Almogia, near Malaga, Spain, Feb. 1927, leg. & com. E.A., det. H.H.K.; Clymping, near Littlehampton (13), May 1927, E.C.W.; var. *gracilentum* Tayl., Polperro (2), March & Apr. 1927, F.R.

B. alpinum Huds., Ben Lawers (88), Sept. 1927, C.A. Cooper; Killin (88), July 1927, c.fr., leg. W.Y. & J.B.D., com. J.B.D.

B. gemmiparum De Not., near Malaga, Spain, Feb. 1927, leg. & com. E.A., det. H.N.D.

B. argenteum L., var. *lanatum* B. & S., Pagham (13), May 1927, E.C.W.

Mnium cuspidatum Hedw., Bonn and Westerwald, Rhineland, Germany, Apr. & May 1925, H.A.

M. hornum L., Siegburg, Rhineland, Germany, 1920, H.A.

M. orthorrhynchum B. & S., f. *densiretis* Amann, Bois de Chatillon, Posieux, Switz., Jan. 1920, P.G.M.R.

M. riparium Mitt., Cuckfield (13), May 1922, W.E.N.; Forêt de Vouvant, Vendée, France, May 1914, J.C.

M. stellare Reich., near Rothbury (68), Apr. 1927, E.H.S.

M. cinclidioides (Blytt.) Huebn., Valley of the Amblève, Ardennes, Belgium, Aug. 1927, F.V.; Croban, Killin (88), July 1927, leg. W.Y. & J.B.D., com. J.B.D.

M. subglobosum B. & S., Sutton Park (38), July 1913, P.G.M.R.

Fontinalis antipyretica L., var. *gracilis* Schp., Stocks in Bowland (64), May 1925, leg. C.A. Cheetham, com. W.H.B.; var. *laxa* Milde, Gordale, Malham (64), Sept. 1927, D.G.C., "This is not the var. *laxa*, which has small, distant, widely spreading leaves, and typically rigid, divergent branches (though this is not constant). I should call the present plant only a form of *F. antipyretica*." H.N.D.

F. squamosa L., near Langley Ford (68), July 1927, E.H.S.; var. *julacea* Card., River Amblève, Ardennes, Belgium, Aug. 1927, F.V.; var. *tumida* Loeske (var. nov.), R. Ambèlve, Belgium, Aug. 1927, F.V.

Dichelyma falcatum Myr., R. Laerdal, Meristuen, Norway, Aug. 1900, leg. W.E.N. & H.N.D., com. H.N.D.

Cryphaea heteromalla Mohr., Arundel Park (13), May, 1927, E.C.W.

Neckera crispa Hedw., var. *falcata* Brid., Gt. Ormes Head (49), July 1927, P.G.M.R.

N. pumila Hedw., Forêt de Chantemerle, Deux Sèvres, France, Oct, 1920, J.C., "Yes," D.A.J.; Monchamps,

Vendée, France, Apr. 1923, J.C., "This is the var. *Philippeana* Milde, D.A.J."

N. complanata Huebn., Brockley Combe (6), March 1927, c. fr., I.N.R.

Homalia trichomanoides B. & S., Linton Lock (64), Oct. 1917, H.S.

Hookeria laete-virens H & T., Mousehole, near Penzance (1), Nov. 1919, leg. H.H.K. & W.E.N., com. W.E.N.

Leucodon sciuroides Schwaegr., Lyndhurst (11), Apr. 1927, c.fr., M.S. "This is *Pterogonium gracile* Swartz." D.A.J.

Pterogonium gracile Swartz, near Colmenar, Malaga, Spain, Feb. 1927, leg. & com E.A., det. H.H.K.

Habrodon Notarisii Schp., Killin (88), Aug. 1927, D.B.B.; Taormina, Sicily, March 1927, leg. & com. C.H.B., det. W.E.N.

Helicodontium pulvinatum Lindb., Winforton (36), Aug. 1927, C.H.B.

Antitrichia curtipendula Brid., Gutvangen, Sognefjord, Norway, July 1926, c.fr., L.B.C.T.; St. Laurent sur Sèvre, Vendée, France, Sept. 1921, J.C.

A. californica Sull., Colmenar (circ. 1800 ft.), near Malaga, Spain, Feb. 1927, leg. & com. E.A., det. H.H.K.

Myurella apiculata B. & S., Palu Glacier Moraine, Bernina Pass Switz., July 1927, L.B.C.T. "The smooth leaves have a larger, more distinct nerve, and the areolation is altogether different from *M. apiculata*. This is *Eurhynchium strigosum* var. *diversifolium* Lindb." H.H.K. & D.A.J.

Fabronia octoblepharis Schwaegr., Meran, S. Tirol, no date, leg. Milde, com. H.A.

Leskea polycarpa Ehrh., Amberley (13), May 1927, E.C.W.

Anomodon viticulosus H. & T., Valley of the Warche, Ardennes, Belgium, Aug. 1927, F.V.

Leptodon Smithii Mohr., Arundel Park (13), May 1927, E.C.W.; near St. Erivine, Lozère, France, Aug. 1927, P.W.M.R.

Pterygynandrum filiforme Hedw., Ben Lawers (88), July 1927, J.B.D.

Heterocladium heterostichum, B. & S., Forêt de Vouvant, Vendée, France, Feb. 1923, J.C.

H. dimorphum B. & S., Gudvangen, Sognefjord, Norway, July 1926, L.B.C.T.

Pseudoleskea atrovirens B. & S., Val de Fain, Pontresina, & Sassal Masone, Bernina Pass, Switz., July 1927, L.B.C.T.

P. striata Dixon, var. *saxicola* B. & S., Grand St. Bernard, Switz., July 1922, leg. P.G.M.R., det. D.A.J., com. E.E.

Ptychodium Pfundtneri Limpr., Seljestad, Odda, Norway, July, 1900, leg. W.E.N. & H.N.D., com. H.N.D.

Thuidium tamariscinum B. & S., Wotton (17), Apr. 1927, c.fr., E.C.W.

T. delicatulum Mitt., Lauchy Ghyll, Thirlmere (70), June 1927, C.H.B., "Barren plants mixed with *Th. tamariscinum*." D.A.J.

T. Philiberti Limpr., Peppard Comm. (23), Nov. 1927, C.H.B.; La Jandonnière, Vendée, France, Apr. 1923, J.C., Le Villars, Alpes Maritimes, France, July 1920, leg. G. Durand, com. J.C.; Forêt de Vouvant, Vendée, France, Feb. 1913, J.C. "Three sets labelled *Th. Philiberti* have been sent by M. Charrier. Two of them are correctly named, but the one from Vendée, Feb. 1913, belongs to *Th. recognitum* Lindb. Perichaetial bracts are present. These are denticulate and not fringed. Moreover, the uppermost stem leaves are distinctly recurved when moist and dry." D.A.J.; Limber (54), March 1920, G.H.A., "I named this plant (which was distributed in 1926, see Report p. 225) *Th. delicatulum*, but Mr. Jones considers it to be *Th. Philiberti*, and I accept his correction." F.R.

Cylindrothecium concinnum B. & S., Cezais, Vendée, France, Feb. 1923, J.C.; Moughton Scar (64), Dec. 1923, W.H.B.; Portrush (I. 39), Aug. 1927, W.R.M.; Arundel Park (13), May 1927, E.C.W.

Pylaisia polyantha B. & S., Heskett Newmarket (70), June 1927, leg. C.H.B. & J.M., com. J.M.

Orthothecium intricatum B. & S. Capel-y-Ffin (42), Apr. 1927, P.W.M.R.

O. chryseum B. & S. Koppajokk, Tornean Lapland, Aug. 1907, H.N.D.

Camptothecium lutescens B. & S., var. *fallax* (Philib.) Breidl., Villefranche, S. France, June 1901, H.N.D.; Taormina, Sicily, March 1927, leg. & com. C.H.B., det. W.E.N.

C. aureum (Lagasca) B. & S., Colmenar (circ. 1800 ft.), near Malaga, Spain, Feb. 1927, leg. & com., E.A., det. H.H.K.

C. nitens Schp., near Cartington (68), Dec. 1926, E.H.S.

Brachythecium plicatum B. & S., near Palu Glacier, Bernina Pass, Switz., July 1927. "This must be correct, but the paraphyllia, usually so numerous, are wanting." J.B.D.; Ben Lawers (88), July 1927, J.B.D.

B. albicans B. & S., Redwharf Bay (52), July 1927, P.G.M.R.

B. salebrosum B. & S., var. *palustre* Schp., Angle (45), Apr. 1927, R.J.

B. rivulare B. & S., Ardennes, Belgium, Aug. 1927, F.V.

B. reflexum, B. & S., Ben Lawers (88), July 1927, J.B.D.

B. plumosum B. & S., Valley of the Warche, Ardennes,

Belgium, Aug. 1927, F.V. "Contains also *Hypnum eugyrium* Schp." J.B.D.; Rothbury (68), Sept. 1926, E.H.S.

B. illecebrum De Not., High Habberley, Kidderminster (37), June 1925, P.G.M.R., *detexit* J.B.D.; Lizard (1), June 1927, W.G.T.

B. purum Dixon, Whittlebury Wood (32), Apr. 1886, c.fr., H.N.D.; Easton Wood (32), Sept. 1893, c.fr., leg. R. Reeves com. H.N.D.

Hyocomium flagellare B. & S., a very robust form, Glyder Fach (49), Sept. 1924, leg. & com. A.W., det. J.B.D.

Eurhynchium cirrosum Jur., Ben Lawers (88), July 1927, J.B.D.

E. piliferum B. & S., Trow Ghyll, Clapham (64), Apr. 1927, W.B.

E. crassinervium (Tayl.) B.&S., Graffham (13), March 1927, c.fr., leg. H.H.K. & W.E.N., com. W.E.N.

E. Swartzii Hobk., Linton Lock (62), Oct. 1918, & Castle Howard (62), Feb. 1921, H.S.; var. *rigidum* Boul., near Twizel Castle (68), Nov. 1926, leg. J.B.D. & W.C.M., com. W.C.M.; Caldbeck (70), June 1927, leg. C.H.B. & J.M., com. J.M.

E. abbreviatum Schp., East Horsley (17), Apr. 1924, E.C.W.

E. curvisetum Husn., Taormina, Sicily, Feb. 1927, leg. & com. C.H.B., det. W.E.N.

E. Teesdalei Schp., Caldbeck (70), May & June 1927, leg. C.H.B. & J.M., com. J.M.

E. tenellum B. & S., Bazoges en Pareds, Vendée, France, Apr. 1923, J.C.

E. myosuroides Schp., Yearsley (62), May 1921, H.S. "This is *E. striatum* B. & S.," J.B.D.; var. *rivulare* Holt, Gudvangen, Sognefjord, Norway, c.fr., July 1926, L.B.C.T. "Perichaetial bracts and capsules are erect. This is *E. myurum* Dixon." J.B.D.; Thirlmere (70), June 1927, leg. C.H.B., com. J.M.

E. myurum Dixon, Biddlestone Woods (68), Sept. 1927, E.H.S.

E. circinatum B. & S., Looe (2), Nov. 1927, F.R.

E. megapolitanum Milde, Paghham Beach (13), May 1927, E.C.W.

Sematophyllum demissum Mitt., Tyn-y-Groes (48), c.fr., July 1927, D.A.J.

Rhaphidostegium substrumulosum (Hampe) Card., Bussaco, Portugal, on stumps of *Cupressus* in wood, May 19, leg. W.E.N. & H.N.D., com. H.N.D.

Plagiothecium elegans Sull., Wotton (17), Apr. 1927, E.C.W.

P. pulchellum B. & S., Launchy Ghyll, Thirlmere (70), June 1927, C.H.B.

Amblystegium confervoides B. & S., Gudvangen, Sognefjord Norway, July 1926, L.B.C.T. "This cannot be *Amblystegium*. I should call it *Hypnum incurvatum* Schrad." J.B.D.; Caldbeck, (70), June 1927, C.H.B.

A. compactum Aust., near Berwick (81), Dec. 1926, J.B.D.; near Cawderstones (81), Feb. 1927, leg. J.B.D. & W.C.M., com. W.C.M.

A. Juratzkanum Schp., Cove (81), Oct. 1927, J.B.D.; Lyham Moor (68), Oct. 1927, leg. J.B.D. & W.C.M., com. W.C.M.

A. varium Lindb., Rissington (33), Oct. 1927, leg. H.H.K. & D.A.J., com. D.A.J.; Ivinghoe (24), Sept. 1926, P.M.W.R. "This is *A. filicinum* De Not." J.B.D.; near Great Bedwyn (8), July 1927, D.G.C.; var. *trichodes* Brid., Lambertton (81), Dec. 1926, J.B.D.

Hypnum riparium L., Sutton (17), Oct. 1927, E.C.W.; var. *longifolium* Schp., Askham Bog (64), July, 1915, H.S.; Wotton (17*), Dec. 1927, E.C.W.

H. elodes Spruce, Ainsdale (59), Sept. 1905, leg. J. A. Wheldon, com. H.A.H.

H. stellatum Schreb., Mosedale (70), June 1927, c.fr., C. H.B. & J.M., com. J.M.; Crunwre (45), Jan. 1927, R.J.; var. *protensum* Roehl., Cove Harbour (81), Oct. 1927, leg. J.B.D. & W.C.M., com. W.C.M.

H. hispidulum Brid., var. *Sommerfeltii* Myr., Birdlip (33), May 1927, H.H.K.

H. Halleri L. fil., Adelboden, Switz., July 1906, H.N.D.

H. aduncum Hedw., var. *gracilescens* Schp., L'Ile d'Elle, Vendée, France, July 1925, J.C.; var. *intermedium* Schp., Bollingham (36), Sept. 1927, leg. C.H.B., det. W.R.S., com. E.A.; Crunwre (45), March 1927, R.J.; var. *paternum* Sanio (*Drepanocladus pseudofluitans* Warnst.), Berrow (6), Oct. 1912, W.W.; var. *Wheldoni* Ren., Berrow (6), Dec. 1916, W.W.; Burnham (6), March 1917, leg. C.P.H., com. H.A.H. "This looks like a plant referred to by J. A. Wheldon in Journal of Botany, 1918. p. 273. I should not care to pass it for var. *Wheldoni*." W.R.S.; var. *falcatius* (Ren.) Dixon, Ainsdale (59), May 1923, leg. J. A. Wheldon, com. H.A.H.; *f. littoralis* Ren., Ainsdale (59), May 1923, leg. J. A. Wheldon, com. H.A.H.; var. *pseudosendtneri* Ren. & Lang., Dune Pool, Braunton (4), June 1914, W.W.

H. Sendtneri Schp., forma, near Axle (27), Oct. 1927, leg. H.H.K. & W.E.N., com. W.E.N.; (*Drepanocladus Sendtneri* Warnst.), Freshfield (59), Feb. 1927, W.G.T.

H. Wilsoni Schp., (*Drepanocladus Wilsoni* Roth), Formby (59), June 1911, W.G.T.

H. lycopodioides Schp., Ruan Pool (1), June 1927, leg. H.H.K. & W.E.N., com. W.E.N.; Formby (59), Sept. 1903, leg. J. A. Wheldon, com. H.A.H.

H. fluitans L. var. *gracile* Boul., Boldermere, Ockham (17), Aug. 1927, D.G.C.; f. *longifolia* Ren., Skipwith Comm. (61), July 1913, leg. W. Ingham, com. P.G.M.R.; Gr. *amphibium* Ren., a falcate form, Hengistbury Head (11), July 1927, H.W.M.; var. *falcatum* Schp. (*Warnstorfia fluitans* (Dill.) Loeske, var. *falcata* Schp., f. *submersa* Moenkem.), Auchter House Hill (90), Apr. 1924, leg. D.R.R., com. H.A.H.; (*Warnstorfia fluitans* Loeske, var. *scoticus* Wheld.), near Killin (88), leg. J. A. Wheldon, com. H.A.H.

H. exannulatum Guemb., Low Ghyll, near Sedbergh (65), Apr. 1925, W.H.B.; var. *falcifolium* Ren., Lumsden (81), Oct. 1927, leg. J.B.D. & W.C.M., com. W.C.M.; var. *stenophylloides* Ren., Whitemoor Comm., Worplesdon (17), May 1919, leg. J. A. Wheldon, C.P.H. & P.G.M.R., com. P.G.M.R., ex herb. W. Ingham.; var. *pinnatum* Boul., Crunwere (45), March 1927, R.J. "This is *H. aduncum*, var. *intermedius* Schp." W.R.S.; (*Drepanocladus exannulatus* Warnst., var. *robustus* Roth & v. Bock, = *Warnstorfia exannulata* var. *lapponica* (Roth MS., as *Drep. exannulatus* var. *lapponicus*), Wheldon, in "Naturalist," 1922, p. 106), Abisko, Tornean Lapland, Aug. 1907, leg. W.E.N. & H.N.D., com. H.N.D.

H. uncinatum Hedw. (*Drepanocladus uncinatus* Warnst.), St. Andreasberg, Harz Mts, Germany, Aug. 1922, J.W.; var. *plumulosum* Schp., Forsli, Hardangervidda, Norway, July 1926, L.B.C.T.

H. revolvens Swartz, Dowlaw Moor (81), Oct. 1927, leg. J.B.D. & W.C.M., com. W.C.M.; Berakofen, Hardangervidda, Norway, July 1926, c.fr. leg. & com. L.B.C.T., det. J.B.D.; f. *flavescens* Wheld., Formby (59), Aug. 1903, leg. J. A. Wheldon, com. H.A.H.

H. intermedium Lindb. (*Limprichtia intermedia* Loeske), Ainsdale (59), June 1927, W.G.T.

H. commutatum Hedw., Place Fell, Patterdale (69), July 1891, c.fr., H.N.D.; (*Cratoneuron commutatum* Roth, f. *tenella*), St. Andreasberg, Harz Mts, Germany, July 1922, J.W.

H. falcatum Brid., Widdybank Fell (66), Aug. 1896, c.fr., H.N.D.; Gavarnie, Hautes Pyrénées, France, July 1920, J.C. "With *H. commutatum* Hedw." W.R.S.; var. *virescens* Schp., Austwick Beck (64), March 1925, F.E.M.

H. sulcatum Schp., Ben Lawers (88), July 1927, J.B.D.

H. cupressiforme L., var. *resupinatum* Schp., Belford and Moor Warenford (68), March & Apr. 1926, and Ayton (81), Jan. 1926, all leg. J.B.D. & W.C.M., com. W.C.M.; var. *filiforme* Brid., Savernake Forest (7), July 1927, and Wotton (17), Apr. 1927, D.G.C.; var. *mamillatum* B. & S., Hepste Falls (42*), Aug. 1927, leg. & com. A.S., teste H.N.D. & D.A.J.; var. *ericetorum* B. & S., Leith Hill (17), Apr. 1926, c.fr., E.C.W.; var. *elatum* B. & S., Pagham Beach (13), May 1927, E.C.W.

H. imponens Hedw., Caldbeck (70), June 1927, leg. C.H.B. & J.M., com. J.M.

H. pratense Koch, Abisko, Tornean Lapland, Aug. 1907, leg. W.E.N. & H.N.D., com. H.N.D.; Teufelsee, near Berlin, Germany, June 1927, L.L.

H. hamulosum B. & S., Craig Chailleach, Cam Creag, & Ben Lawers (88), July 1927, J.B.D.

H. Bambergerei Schp., Ben Lawers (88), July 1927, J.B.D.

H. Vaucheri Lesq., Abiskojokk, Tornean Lapland, Aug. 1907, male plant, leg. W.E.N. & H.N.D., com. H.N.D. "This is the first and I believe the only male plant that has been gathered. The species was a British one—probably common—in glacial times." H.N.D.

H. molluscum Hedw., var. *condensatum* Schp., Nantcol (48), Apr. 1919, leg. D.A.J. & P.G.M.R., com. P.G.M.R.; var. *robustum* Boul., Launchy Ghyll, Thirlmere (70), June 1927, leg. C.H.B. & J.M., com. J.M. "The var. *robustum* is a arger form of erect growth and irregular branching. This plant would be more correctly placed under var. *condensatum*" J.B.D.

H. palustre Huds., Caldbeck (70), June 1927, c.fr., leg. C.H.B. & J.M., com. J.M.

H. molle Dicks., Combe des Morts, Grand St. Bernard, Switz., July 1922, P.G.M.R.

H. arcticum Somm., Ben Lawers (88), July 1927, J.B.D.

H. eugyrium Schp., (*Hygrohypnum eugyrium* Loeske), var. *Mackayi* Schp., Valley of the Warche, Ardennes, Belgium, Aug. 1927, F.V.

H. ochraceum Turn., var. *flaccidum* Milde, Greenfield (63), on rocks in waterfall, Jan. 1915, W.W.

H. scorpioides L., Lumsden (81), March 1927, tall green form, J.B.D.; Ballymore (75), Nov. 1927, E.A.; Widdybank Fell (66), Aug. 1896, H.N.D.; f. *tenuis* (Rabenh. Bryothec. Eur., 771), Craig Lough (67), July 1905, H.N.D.; var. *angustifolium* Sanio, Naburn (62), Aug. 1900, leg. W. Ingham, com. H.N.D. (see M.E.C. Report 1907, p. 256).

H. stramineum Dicks, Lyham Moor (68), Oct. 1927, leg. J.B.D. & W.C.M., com. W.C.M.; near Leith Hill (17), Oct. 1927, E.C.W.; Rumbold's Moor, Ilkley (64), July 1896, H.N.D.

H. trifarium W. & M., Ben Cruickben (88), July 1905, leg. J. A. Wheldon, com. H.A.H.

H. cordifolium Hedw., Strensall Comm. (62), May 1919, c.fr., H.S.; La Pomeraiie sur Sèvre, Vendée, France, June 1921, J.C.; Naseby (32), Apr. 1894, H.N.D.

H. giganteum Schp., Strensall Comm. (62), July 1926, W.B.; Wittering Marsh (32), May 1893, H.N.D.

H. sarmentosum Wahl., Ben Ledi (88), July 1897, H.N.D.; var. *subflavum* Ferg., Ben Lawers (88), July 1893, H.N.D.

H. cuspidatum L., Naburn (62), May 1927, c.fr., H.S.; Lochay Bridge, Killin (88), July 1897, c.fr., H.N.D.; near var. *caespitosum* Whiteh., Heyford (32), Jan. 1898, H.N.D.

Hylocomium splendens B. & S. forma, Allt-na-Uamh, Breabeg, Sutherland, July 1899, leg. W.E.N., E.S. Salmon, & H.N.D., com. H.N.D.; var. *gracilius* Boul., Harlech (48), Sept. 1911. W.G.T.

H. umbratum B. & S., Tyn-y-Groes (48), July 1927, and Capel Curig (49), Sept. 1927, D.A.J.; Lodore Falls (70), Aug. 1895, leg. C.H.B. & H.N.D., com. H.N.D.

H. pyrenaicum Lindb., Ben Lawers (88), July 1927, J.B.D.; Craig Chailleach (88), July 1897, H.N.D.

H. brevirostre B. & S., Beddgelert (49), July 1888, Lodore (70), Aug. 1895, and Lochay Bridge, Killin (88), July 1897, H.N.D.

H. loreum B. & S., Biddlestone Woods (68), Sept. 1927, E.H.S.; Sca Fell Pike (70), Aug. 1895, c.fr., H.N.D.

H. squarrosum B. & S., Pistyll-y-llyn (47), July 1901, H.N.D.; Grwyne Fechan (42), Apr. 1927, c.fr., P.W.M.R.; var. *calvescens* Hobk., Brilley (36), Feb. 1897, leg. C.H.B., and Llanbedr (48), Aug. 1903, leg. D.A.J., Owen, & W.R.S., com H.N.D.

H. triquetrum B. & S., Great Stoughton (31*), Aug. 1927, P.G.M.R.; Barnwell Wold, and Duston (32), Feb. & June 1888, c.fr., H.N.D.

H. rugosum De Not., Gudvangen, Sognefjord, Norway, July 1926, and Porchiavo, Bernina Pass, Switz., July, 1927, L.B.C.T.

N.B.—*Campylopus Schwarzii* Schp., Glen Dubh., Inchnadamph, Sutherland, July 1899, Nicholson Salmon & Dixon and distributed same time as *Camp. Schwarzii* proves to be *Camp. atrovirens* var. *muticus* Milde. Will members who received a specimen. kindly make the correction? " H.N.D.

Non-European (Including specimens of European species from Countries outside Europe).

Oligotrichum aligerum Mitt., Revelstoke and Zincton, B.C., Canada, July & Sept. 1927, F.A.McF.

Ditrichum tenuifolium Schp. (*Trichodon cylindricus* Schp.), Revelstoke, B.C., Canada, Aug. 1927, F.A.McF.

D. tortile Lindb., var. *pusillum* B. & S. (*D. pusillum* Timm.), Sandon, B.C., Canada, Oct. 1927, F.A.McF.

Cynodontium virens Schp., Yoho Nat. Park, B.C., Canada, July 1927, F.A.McF.

Dichodontium flavescens Lindb., Silverton, B.C., Canada, May 1927, F.A.McF.

Trematodon ambiguus (Hedw.) Hornsch., Adirondack Mts, New York, U.S.A., Sept. 1926, leg. M. V. Beals & A.T.B., com. A.T.B.

Dicranella Grevilleana Schp., Zincton, B.C., Canada, Sept. 1927, F.A.McF.

Blindia torrentium Card. & Broth., Weddell & Qualler Islands, Falkland Islands, 1925, leg. J. Hamilton, det. H.N.D. com. D.L.

Dicranoweisia contermina Ren. & Card., Marysville, Washington, U.S.A., March 1927, J.M.G. "This is *D. cirrata* Lindb. *D. contermina* is closely allied to *D. crispula*, and is now generally considered inseparable from that species." H.N.D.

Dicranum Drummondii C. Muell., Catskill Mts, New York, U.S.A., Nov. 1927, A.T.B.

D. undulatum Ehrh., Catskill Mts, New York, U.S.A., Nov. 1927, A.T.B.

D. Bonjeani De Not., Halcyon Hot Springs, B.C., Canada, Apr. 1927, leg. & com. F.A.McF., det. R. S. Williams, "I am not quite satisfied with this plant. There seems to be no sign of undulation in the leaves. These certainly answer to *D. Bonjeani* in shape, but in undeveloped *D. scoparium* they are sometimes very similar." G.B.S. "A very good example of the intergrading of *D. Bonjeani* and *D. scoparium*, and scarcely nearer one than the other." H.N.D.

D. strictum Schleich., Slocan Lake, B.C., Canada, July 1927 F.A.McF.

D. flagellare Hedw. (*Orthodicranum flagellare* Loeske), Catskill Mts., New York, U.S.A., Sept. 1927, leg. M. V. Beals & A.T.B., com. A.T.B.

Dicranoloma setosum (Hook. fil. & Wils.) Par., West Falklands, Jan. 1927. leg. J. Hamilton, det. H.N.D., com. D.L.

Leucobryum candidum (Brid.) Hampe, Raetehi, near

Wanfanni, New Zealand, Feb. 1927, *misit* Mrs. J. Meiklejohn, det. H.N.D., com. D.L.

Fissidens Zippelianus D. & M., Kumili Mts, Indes Anglaises, Oct. 1924, leg. Rev. Père Foreau, com. J.C.

Bryoxiphium norwegicum (Brid.) Mitt., Dells of Wisconsin, U.S.A., June 1927, leg. C. E. O'Neill, com. A.T.B.

Grimmia apocarpa Hedw., var. *gracilis* W. & M. (*G. gracilis* Schleich.), Slocan Lake, B. C., Canada, July 1927, F.A.McF.

G. californica Sull., Ainsworth, B.C., Canada, Oct. 1927, F.A.McF.

G. torquata Grev., Halcyon, & Slocan Lake, B.C., Canada, Apr. & June 1927, F.A.McF.

G. ovata W. & M. (*G. Neilgheriensis* C.M.), Kodaikanal, Indes Anglaises, June 1912, leg. Rev. Père Foreau, com. J.C.

G. tenerrima Ren. & Card., Sandon, B.C., Canada, J. June 1926, leg. & com. F.A.McF., det. J. M. Holzinger. "The nomenclature of this moss is perplexing. Brotherus gives *G. tenerrima* Card. & Thér., Paris has *G. tenerrima* Ren. & Card. 1900. The actual publication is *G. tenerrima* Ren. & Card. in Bot. Gaz. xv. 40 (1890). It is a rare and interesting plant," H.N.D.

Rhacomitrium sudeticum B. & S., Marysville, Washington, U.S.A., June 1927, J.M.G. "I think that this is merely the var. *alopcurum* of *Rh. heterostichum*. A fair number of branchlets are present; also the margin is not bistratose and the capsule is oblong-cylindric." G.B.S. "Certainly indistinguishable from *Rh. heterostichum*, var. *alopcurum* Huebn." H.N.D.

R. varium (Mitt.) Lesq. & James, Stilaguamish, Washington, U.S.A., June 1926, J.M.G.

R. canescens Brid., var. *epilosa* 'Brit.', Cascade Mts., Washington, U.S.A., Aug. 1925, J.M.G. "This should be cited as var. *epilosum* H. Muell." H.N.D.

Phascum cuspidatum Schreb., var. *piliferum* H. & T. (*P. piliferum* Schreb.), Tauque Verde Mts., Arizona, U.S.A., Feb. 1927, E.B.B.

Pottia mutica Vent., var. *gymnostoma* Corb., Baboquivari Mts., Arizona, U.S.A., March 1927, (*Weisia sp. ex parte*), E.B.B.

Desmatodon Guepini B.E., Baboquivari Mts., Arizona, U.S.A., March 1927, E.B.B. "See Report on M. Charrier's plant from Macedonia under European mosses. The same remarks apply also to Mr. Bartram's specimen from N. America." W.E.N.

D. latifolius (Hedw.) Brid., Baboquivari Mts., Arizona, U.S.A., March 1927, E.B.B. "I suggested that this plant was rather *Tortula obtusifolia* Schleich. and Mr. Dixon agrees with

this view." W.E.N. " I should certainly refer this to *Tortula obtusifolia* Schleich. (*Desmatodon flavicans* Bry. Eur.). The statement in American works that the leaves in this species are hyaline up to three-fourths of their length appears to be a considerable exaggeration. It is not so with European forms of this species." H.N.D.

D. cernuus B. & S. (*Tortula cernua* Lindb.), Banff, Alberta, and Chase, B.C., Canada, July & Aug, 1927, F.A.McF.

Crossidium erosum Holz. & Bartr., near Picture Rocks, Pinea Co., Arizona, U.S.A., March 1927, E.B.B.

Tortula aciphylla B. & S. (*T. norwegica* Wahl.), Yoho Nat. Park, B.C., Canada, July 1927, F.A.McF.

T. caroliniana Andrews (*sp. nov.*, "Bryologist," Jan. 1920), Swanannanoa, N. Carolina, U.S.A. (type station), Oct. 1924, leg. M. V. Beals & A.T.B., com. A.T.B.

Barbula rigidula (Hedw.) Mitt., Kodaikanal, Indes Anglaises, Apr. 1925, leg. Rev. Père Foreau. com. J.C.

Astomum Drummondii Kindb., Baboquivari Mts, Arizona, U.S.A., March 1927 (1669), E.B.B. "A very pretty little plant, but is it *A. Drummondii*? Roth describes and figures that (Aussereurop Laubm. Lief. 3, p. 196, t. xxi, fig. 10), as having an oval or ovoid capsule with a shortly and thickly beaked conico-rostellate lid. Cardot in Bull. Herb. Boiss., vii., 317, sub *Gymnostomum phascoides* Drum. considers it scarcely separable, except as a variety, from *Hymenostomum rostellatum*, and therefore quite agreeing with Roth's description and figures. Now No. 1669 has a perfectly globose capsule, with a remarkable lid, the base being very minute and the beak subulate, curved, scarcely broadened even at the base, and about equal in length to half the diameter of the capsule. I have not examined the plant in detail, but the above characters alone appear to justify its being considered a distinct new species. It should perhaps be mentioned that Hooker's description of the capsule of Drummond's moss reads globosis operculo conico-rostrato, which applies fairly well to the present plant, but not at all to the plant examined by Cardot and Roth. This I am unable to explain." H.N.D.

Hymenostylium curvirostre (Ehrh) Lindb. (*Weisia curvirostris* C. M.), Ladakh, India, Aug. 1927, leg. A.M. Kerr & W. Lillie, det. H.N.D., com. D.L.

Hyophila involuta Jaeg., Kumili Mts, Indes Anglaises, May 1924, leg. Rev. Père Foreau, com. J.C.

Dactylhymenium Pringlei Card., Baboquivari Mts, Arizona, U.S.A. March 1927, E.B.B.

Encalypta procera Bruch, Halcyon Hot Springs, B.C. Canada, Apr. 1927, F.A.McF.

Orthotrichum Jamesianum Sull., Huachuca Mts, Arizona, U.S.A., March 1927, E.B.B.

Schlotheimia Sullivantii C.M., Tallulah Falls, Georgia, U.S.A., Oct. 1924, leg. M. V. Beals & A.T.B., com. A.T.B.

Rhacopilum Schmidtii (C.M.) Jaeg., Kodaikanal, Indes Anglaises, May 1925, leg. Rev. Père Foreau, com. J.C.

R. strumiferum (C.M.) Jaeg., Kaiapoi, and Redcliffe, Canterbury, New Zealand, Jan. 1927, *misit* Mrs. J. Meiklejohn, com. D.L.

Splachnobryum delicatulum Broth., (*vide* Journ. of Botany, March 1907), on brickwork in warm forcing house. Baldersby Park, Thirsk, Yorkshire, leg. G. Webster, June 1908, com. H.N.D. ; *idem* com. W.B.

Tetraplodon mnioides B. & S. (*T. bryoides* (Zoeg.) Lindb.), Catskill Mts, New York, U.S.A., May 1927, A.T.B. "One packet contains also *T. angustatus*." D.A.J.

T. angustatus B. & S., Catskill Mts, New York, U.S.A., May 1927, A.T.B.

Funaria Bolanderi (Lesq.) Holz., near St. Xavier Mission, Arizona, U.S.A., Feb. 1927, E.B.B. "I do not know this species, but the description and figures do not fit very well. The leaves in *F. Bolanderi* are acuminate, and almost entire, while the nerve only reaches half way. Here the leaves are scarcely acute, usually strongly, though bluntly, denticulate, and the nerve is much longer. The peristome also seems quite different. I should have suspected a new species." H.N.D.

Aulacomnium heterostichum (Hedw.) Bry. Eur., Black River, New Jersey, U.S.A., May 1927, leg. M. V. Beals, & A.T.B., com. A.T.B.

Conostomum tetragonum (Dicks.) Lindb. (*C. boreale* Swartz.), Mt. Mercy, New York, U.S.A., Sept. 1926, A.T.B.

Philonotis fontana L., an aberrant form, Catskill Mts, New York, U.S.A., leg. A.T.B., det. L.L.

P. subrigida Card & La Varde, var. *adpressa* La Varde, Kumili Mts, Indes Anglaises, leg. Rev. Père Foreau, com. J.C. "*P. subrigida* is autoicous, and an abundant fruiter. This is dioicous, female flowers only found. I should say probably *P. imbricatula* Mitt., but quite unsatisfactory in its present condition." H.N.D.

Breutelina sclerodictya Card. & La Varde., Shembaganur, Indes Anglaises, June 1912, leg. Rev. Père Foreau, com. J.C.

Timmia austriaca Hedw., Revelstoke, B.C., Canada, Aug.

1927, F.A.Mc.F.; var. *brevifolia* Ren. & Card., Revelstoke, B.C., Aug. 1927, F.A.Mc.F.

Leptobryum pyriforme (L.) Schp. (*L. pyriforme* Wils.), var. *flagellifera* Holz., in sched. ined., Sandon, B.C., Canada, Oct. 1927, leg. & com. F.A.Mc.F., det. J. M. Holzinger.

Pohlia cruda "Hoppe" (*Webera cruda* Schwaeg.), White River Valley, Washington, U.S.A., Aug. 1926, J.M.G. "This is a *Dicranum*. The leaves are falcate, but not strongly and regularly so, and the auricles are fairly distinct and coloured in the older leaves. The male inflorescence is close below the perichaetium. It belongs to *Dicranum Starkei* W. & M." D.A.J.

Webera pulchella Schp. Silverton, B.C., Canada, April 1926, F.A.Mc.F., det. J. M. Holzinger. This plant, which was distributed last year (See Report, p. 302), has been again submitted to Prof Holzinger, who has finally determined it to be *Mniobryum atropurpureum* (Wahl.) Hagen.

Bryum turbinateum Schwaegr., Sandon, B.C., Canada, June 1926, leg. & com. F. A.Mc.F., det. A. LeR. Andrews. "I consider this an intermediate and lax form between the type and the var. *latifolium* B. & S. It is not so robust as the type, and the leaves vary in width and acuteness of apex." D.A.J.

B. rosulatum C. M., Huachuca Mts, Arizona, U.S.A., March 1927, E.B.B.

B. sterile Kindb., Marysville, Washington, U.S.A., May 1922, J.M.G. "I do not know this; it is a species which has been quite properly dropped by authors. 'Sterile Bryum' would be a better and quite appropriate rendering." H.N.D.

Leptostomum macrocarpum (Hedw.) Rev. Bry., near New Plymouth, New Zealand, 1923, misit Mrs. J. Meiklejohn, det. H.N.D., com. L.L.

Mnium spinulosum B. & S., Slocan Lake, B.C., Canada, July 1927, F.A.Mc.F.

M. spinosum Schwaegr., Halcyon Hot Springs, and Slocan Lake, B.C., Canada, Apr. and May 1927, F.A.Mc.F. "In the gathering from Slocan Lake, *M. spinosum* is present in small quantities, but the greater part consists of *M. serratum* Schrad., in fruit." D.A.J.

M. venustum Mitt., Marysville, Washington, U.S.A., Apr. 1927, J.M.G.

M. glabrescens Kindb., Marysville, Washington, March 1926, J.M.G. "Differs from *M. punctatum* L. in the smaller almost isodiametric cells, large spores, and other fruiting characters." H.N.D.

Hydropogon fontinaloides (Hook.) Brid., Cascade Mts., Washington, U.S.A., Aug. 1925, J.M.G. "*Hydropogon* is a S. American moss of quite different character. This is a Leskeoid or Thuidioid species which I am unable to determine; near perhaps to *Lindbergia Austini*, but scarcely that. I should like to have it submitted to an American authority." H.N.D. This plant has since been submitted to Dr. Davis of Seattle, who has determined it to be *Pseudoleskea atrovirens*. Mr. Dixon remarks:—"I accept Dr. Davis' determination, with the proviso that it is *P. atrovirens* (Dicks.), not *P. atrovirens* B. & S. That is to say, it is *P. patens* (Lindb.) Limpr., having the equally spreading leaves, rounded-hexagonal cells, and the papillae on the face of the cell." H.N.D.

Fontinalis Howellii Ren. & Card., New Denver, B.C., Canada, Nov. 1926, leg. & com. F.A.Mc.F., det. R. S. Williams.

"*F. mollis* Meisn.", Marysville, Washington, U.S.A., March. 1926, J.M.G. "This has the leaves keeled, and cannot be *F. mollis*. It is an *antipyretica* form." H.N.D.

Alsia californica (Hook. & Arn.) Sull., Henry Island, San Juan Co, Washington, U.S.A. leg. A. S. Poster, com. D. L.

Forsstroemia trichomitria (Hedw.) Lindb., Branchville, New Jersey, U.S.A., May 1927, leg. M. V. Beals & A.T.B., com. A.T.B.

Antitrichia curtipendula Brid., var. *gigantea* Sull. and Lesq., Halcyon Hot Springs, B.C., Canada, Apr. 1927, F.A.Mc.F. "This has not the habit of the var. as I have it in my herbarium, nor is it particularly robust. I should scarcely have placed it there; but I do not pretend to know the limits of the var." H.N.D.

Weymouthia mollis (Hedw.) Broth., near Dunedin, New Zealand, March 1927, misit Mrs. J. Meiklejohn, det. H.N.D., com. D.L.

Meteorium Buchanani (Brid.) Hook., Pulney Hills, Indes Anglaises, May 1912, leg. Rev. Père Foreau, com. J.C. "I do not know by whom this was determined. I should have preferred to call it *M. Miquelianum* (C.M.) Fleisch. *M. Buchanani* I believe to be a Himalayan but not S. Indian plant, which has more concave leaves with very terete, curved branches. On the other hand, it is quite possible that this northern plant is not specifically distinct from the wide-spread *M. Miquelianum*; and in that case the name *M. Buchanani* has the priority and should be used for the whole species. This may have been the view of the determiner of the present plant." H.N.D.

Neckera intermedia Brid., Canary Islands, June 1916, "sent over with bananas," com. H.S., det. H.N.D.

Homalia Jamesii Schp., Burton City, B.C., Canada, May 1927, leg. & com. F.A.Mc.F., det. A. J. Grout.

Porotrichum Leibergii (E. G. Brit.), Slocan Lake, B.C., Canada, July 1927, leg. and com. F.A.Mc.F., det. A. J. Grout. "I do not know the author of the combination "*Porotrichum Leibergii*," which I have not seen before." H.N.D.

Camptochaete pulvinata (Hook. fil. & Wils.) Jaeg., Otaio River, S. Canterbury, New Zealand, 1926, misit Mrs. J. Meiklejohn, det. H. N.D. com D.L.

Lembophyllum divulgum (Hook. fil. & Wils.) Lindb., Port Hills, Lyttleton, New Zealand, Apr. 1927, misit Mrs. J. Meiklejohn, det. H.N.D. com. D. L.

Isothecium Brewerianum Lesq. & James, (*Tripterocladium Brewerianum* (Lesq.) Fleisch. Marysville, Washington, U.S.A., July 1924, J.M.G.

Thelia hirtella (Hedw.) Sull., Babylon, Long Island, New York, U.S.A., Nov. 1926, leg. M. V. Beals & A.T.B., com. A.T.B.

T. asprella Sull., Babylon, Long Island, New York, U.S.A., Nov. 1926, A.T.B.

T. Lescurii Sull., near Palmyra, Wisconsin, U.S.A., Oct. 1925, leg. L. S. Chaney, com. A.T.B.

Myurium Warburgii (C.M.), Fleisch., var. *stenophyllum* Card., Shembaganur, Indes Anglaises, Feb. 1921, leg. Rev. Père Foreau, com. J.C.

Fabronia Wrightii Sull., Baboquivari Mts, Arizona, U.S.A. March 1927, E.B.B.

Pseudoleskea denudata (Kindb.), (*Ptychodium oligocladum* Limpr.), Yoho Nat. Park, B.C., Canada, July 1927, F.A.Mc.F. "This plant appears to have been originally described as *Pseudoleskea sciuroides*, var. *denudata* Kindb, in 1892. Limpricht's *Ptychodium denudatum* dates from 1895. The species of *Ptychodium* proposed by Limpricht are, as shown by Loeske, rather unsatisfactory. The present plant differs little from *Pseudoleskea atrovirens* B. & S, var. *brachyclados* Schp." W.E.N.

Cladopodium Whippleanum "Mitt," Marysville, Washington U.S.A., Feb. 1927, J.M.G. "For the occurrence of this plant in Europe, see note by W.E.N. in *The Bryologist*, 1912, pp. 41—44. I know of no authority for citing Mitten's name in connection with this plant. The proper citation should be *Cladopodium Whippleanum* (Sull.) Ren. & Card." W.E.N.

C. crispifolium (Hook.) Ren. & Card., Marysville, Washington, U.S.A., March 1926, J.M.G.

Thuidium delicatulum Mitt., Bristol, Maine, U.S.A., Aug. 1921, c.fr., leg. E. B. Chamberlain, com. J.M.

T. recognitum Lindb., Union, Maine, U.S.A., Aug. 1921, c.fr., leg. E. B. Chamberlain, com. J.M.

Homomallium mexicanum Card., Baboquivari Mts, Arizona, U.S.A., March 1927, E.B.B.

Orthothecium chryseum B. & S., Yoho Nat. Park, B.C., Canada, July 1927, F.A.Mc.F.

Entodon chloropus Ren. & Card., Perumal, Indes Anglaises, 1923, leg. Rev. Père Foreau. "This may be correct, but I do not see why it should not be *E. plicatus* C.M., a much more common moss in S. India. The two are scarcely separable I think when sterile; indeed very few species of *Entodon* are worth distributing unless in fruit." H.N.D.

Camptothecium Nuttallii B. & S., Cascade Mts, Washington, U.S.A., Aug. 1925, J.M.G.

C. nitens Schp., (*Tomenthypnum nitens* (Schreb.) Loeske), near Green Pond, Warren Co., New Jersey, U.S.A., June 1927, leg. M. V. Beals & A.T.B., com. A.T.B.

Brachythecium albicans B. & S., Edgewood, B.C., Canada, June 1927, F.A.Mc.F.

B. salebrosum B. & S., Sandon & New Denver, B.C., Canada, Sept. & Oct 1927, F.A.Mc.F.

B. rutabulum B. & S., var *flavescens* (Brid.) B. & S., Sandon., B.C., Canada, May 1927. "*Hypnum flavescens* was originally described by Bridel about 1812, but the authors of Bry. Eur. relegated it to the rank of a variety of *B. rutabulum* in the new genus established by them, but without any reference to, or citation of, Bridel's name. It should be cited as above. It is not a very important or striking variety." W.E.N.

B. asperrimum Mitt., Biglow Bay, B.C., Canada, Apr. 1927, F.A.Mc.F. "This is no doubt correct. It differs in the slender habit, narrower leaves, and dioicous inflorescence, from *B. rutabulum*." H.N.D.; near Greenwood, B.C., Canada, in small water course, Sept. 1927. F.A.Mc.F. "I should say certainly not *B. asperrimum*, but *B. rivulare* B. & S. *B. asperrimum* is not I think an aquatic plant." H.N.D.

B. lamprochryseum C. Muell. & Kindb., Revelstoke, B.C., Canada, Aug. 1927, F.A.Mc.F. "I should have thought this simply *B. rivulare*. It has the dendroid habit of that species, and is not at all like the specimen I have of *B. lamprochryseum* H.N.D.

B. rivulare B. E., Catskill Mts., New York, U.S.A., Nov. 1927, c.fr., A.T.B.

B. Starkei (Brid.) B. & S., Catskill Mts, New York, U.S.A., Sept. 1927, leg. M. V. Beals & A.T.B., com. A.T.B.

B. reflexum (Stark) B. & S., Catskill Mts, New York, U.S.A., Nov. 1927, leg. M. V. Beals & A.T.B., com. A.T.B.

B. pacificum (Ren. and Card.) Grout, New Denver, B.C., Canada, Sept. 1927, F.A.Mc.F. "I do not know this species, which is rare and has usually been considered a variety of *B. reflexum*. Mrs. MacFadden's plant seems to agree with the description. One would like to know if Dr. Grout had confirmed the determination." H.N.D.

B. utahense James, Huachuca Mts, Arizona, U.S.A., March 1927. E.B.B.

B. collinum B. & S., Yoho Nat. Park, B.C., Canada, July 1927, F.A.Mc.F.

B. oxycladon "Brid.", New Denver, B.C., Canada, Sept. 1927, leg. & com. F.A.Mc.F., det. J. W. Bailey. "This should read *B. oxycladon* (Brid.) Jaeg." H.N.D.

Scleropodium obtusifolium (Hook.) Kindb., Grand Forks, B.C., Canada, Aug. 1927, leg. & com. F.A.Mc.F., det. J. A. Grout.

Eurhynchium praelongum Hobk. (*E. Stokesii* (Turn.) Bry. Eur.), Revelstoke & Halcyon, B.C., Canada, Aug. 1927, leg. & com. F.A.Mc.F., det. A. J. Grout.

E. oreganum (Sull.) Jaeg., Marysville, Washington, U.S.A., July 1927, J.M.G. "This is *E. strigosum* (Hoffm.) Bry. Eur. *E. oreganum* is a very robust plant." H.N.D.

Brotherella delicatula (James) Fleisch., Catskill Mts, New York, U.S.A., May 1927, A.T.B. "As this is a very recent combination, it may be found difficult to trace the species. It was named *Rhyncostegium delicatulum* by James, but only as a MS name, and its publication dates from Sull. Icones, Suppl. p. 93 (1874). In Lesquereux & James' Manual, p. 358 it appears as *Hypnum laxepatulum*; in Brotherus' Musci, p. 1073, as *Stereodon delicatulus*; in Paris Index as *Rhaphidostegium delicatulum*. It is very close to *Rhaphidostegium recurvum* (Schwaegr.), with which indeed, according to Grout, it sometimes intergrades." H.N.D.

Plagithecium piliferum B. & S., Silverton, B.C., Canada, June 1927, F.A.Mc.F.

Amblystegium Americanum, appr. *A. compactum* Aust., Vernon, B.C., Canada, Aug. 1927, leg. & com. F.A.Mc.F., det. A. J. Grout. "*A. Americanum* is quite a new name to me, and I do not know the author." H. N.D.

A. filicinum De Not. (*Cratoneuron filicinum* (L.) Roth), Banff, Alberta, Canada, July 1927, F.A.Mc.F.

Hypnum aduncum Hedw (*Drepanocladus aduncus* Warnst.), var. *gracilescens* Schp., Rosebery, B.C., Canada, Sept. 1927, F.A.M.c.F.

H. uncinatum Hedw. (*Drepanocladus uncinatus* Warnst.), forma, Slocan Lake, B.C., Canada, July 1927, leg. & com. F.A.Mc.F., det. A. J. Grout; var. *plumosum* Schp., Halcyon, B.C., Canada, Apr. 1927, F.A.Mc.F.; var. *symmetricus* (Ren. & Card.), Slocan Lake, B.C., Canada, Sept. 1927, F.A.Mc.F.

H. falcatum Brid. (*Cratoneuron falcatum* Roth), Banff, Alberta, Canada, July 1927, F.A.Mc.F.

H. circinale Hook. (*Stereodon circinalis* Brit.), Marysville, Washington, U.S.A., May 1927, J.M.G.

H. reptile Michx., Catskill Mts, New York, U.S.A., Nov. 1927, A.T.B.

H. imponeus Hedw., Catskill Mts, New York, U.S.A., Nov. 1927, A.T.B.

H. revolutum Lindb., Halcyon Hot Springs, B.C., Canada, Apr. 1927, F.A.Mc.F. "This is not *H. revolutum*, and it does not appear to agree with any British species of the *Drepanium* group." J.B.D. "Certainly not *H. revolutum*, having wider leaf-base, and less recurved margins, and being without the group of numerous alar cells. In the leaf structure it appears to agree quite well with *H. subimponens* Lesq. It differs from the descriptions and from the specimens I possess in the less pinnate branching and in the leaf-arrangement, which is rather *Harpidioid* than *Drepanioid*. But I notice that in "Bryologist" VI, 44, Dr. Bailey writes of this moss that it is sometimes difficult to differentiate from an *Harpidium*; and I have little doubt that Mrs. MacFadaens' moss belongs there." H.N.D. (*Stereodon revolutus* Mitt.), Marysville, Washington, U.S.A., J.M.G. "Certainly not this species. Mr. Dixon agrees that it is *H. callichroum* Brid." J.B.D.

H. cristacastrensis L. (*Ptilium cristacastrensis* De Not.), Montgomery, Vermont, U.S.A., July 1922, leg. E. B. Chamberlain, com. J.M.

H. palustre Huds. (*Hygrohypnum palustre* Loeske), Slocan Lake & Rosebery, B.C., Canada, July & Sept. 1927, F.A.Mc.F.

Hygrohypnum Bestii (Ren. & Bryhn) Broth., Yoho Nat. Park, B.C., Canada, July 1927, leg. & com. F.A.Mc.F., det. A.J. Grout.

Hypnum Schreberi Willd. (*Pleurozium Schreberi* Mitt.), Shawangunk Mt., New York, U.S.A., Oct. 1927, c.fr., leg. M. V. Beals & A.T.B., com. A.T.B.

Rhytidiopsis robusta "Sull.", Cascade Mt. Washington, U.S.A., Aug. 1927, J.M.G.

HEPATICS.

European (British and Continental).

- Riccia sorrocarpa* Bisch., Malaga, Spain, Feb. 1927, E.A.
R. Bischoffii Hubn., Vendée, France, Aug. 1928, J.C.
R. lamellosa Raddi, Malaga, Spain, Feb. 1927, E.A.
R. crystallina L., Margin of sand dune pool, Berrow (6), Oct. 1926, W.W.; *f. augustior* Nees, sand dunes, Berrow (6), Oct. 1926, W.W.
Targionia hypophylla L., Malaga, Spain, Jan. 1927, E.A.; also Vendée, France, Feb. 1923, J.C.
Reboulia hemisphaerica L., Blakewell (57), Sept. 1914, A. R. Horwood, com. H.A.H.
Conocephalum conicum Dum., wet rocks, streamside, Bolton Woods (64), Sept. 1927, D.G.C.
Lunularia cruciata L., Torquay (3), Sept. 1900, E.M.H., com. H.A.H.
Plagiochasma rupestre Steph., Malaga, Spain, Jan. 1927, E.A.
Corsinia marchantioides Raddi, L. Lugano, Switzerland, Feb. 1923, P.G.M.R.
Grimaldia dichotoma Raddi, Vendée, France, Feb. 1923, J.C.
Metzgeria furcata (L) Dum., var. *fruticulosa* (Dicks.) Lindb., Etal (68), March 1927, J.B.D.; var. *ulvula* Nees, Forêt des Bouleyres, Cant. Fribourg, Switzerland, July 1926, P.G.M.R.
M. conjugata Lindb., Bohustan, Jörlanda, Källesby, Sweden, Oct. 1926, C.S.; also, Vendée, France, Apr. 1926, J.C.
Moerckia Flotowiana Schiffn., Sandhills, Freshfield (59), Oct. 1913 and Oct. 1927, W.G.T.
Petalophyllum Ralfsii (Wils.) Gottsche, Ross Links (68*), Dec. 1927, J.B.D.
Fossombronia caespitiformis De Not., Malaga, Spain, Jan. 1927, E.A.
Marsupella condensata (Angst.) Kaal., Ben Lawers, July 1915, W.E.N.
M. ustulata Spruce, Craig Cerig Gleisiad (42), Aug. 1927, E.A.
M. emarginata Ehrh., damp volcanic rocks, Puy de Dôme, France, July 1927, P.W.M.R.
M. sphacelata (Gies), Lindb., in stream, Cairngorm (96), Sept. 1927, H.H.K.
M. Sullivantii De Not., stream, 5,000 ft, Puy de Dôme, France, July 1926, P.W.M.R.

Alicularia compressa (Hook.), Nees, Belgian Ardennes, Aug. 1927, F.V.; var. *gigantea* Macv., Bow Fell (69), leg. Wheldon and Wilson, 1908, com. W.G.T.

Alicularia scalaris Schrad., Buddon Wood (55), June 1906, A. R. Horwood, com. H.A.H.

Aplozia crenulata (Sm.) Dum., approaching var. *inundata*, Llanberis (49), Aug. 1925, W.H.B. "I agree with Mr. Burrell. The plant is not strongly marked enough for the variety." H.H.K.

A. crenulata (Sm.) Sum., var. *inundata* (Schiffn.), Macv., pool, Melton Road, York (62), June 1909, W. Ingham, com. P.G.M.R.; var. *gracillima* Sm., Saintfield (I. 38), Jan. 1910, Rev. C. H. Waddell, com. H.A.H.

A. pumila Tayl., wet shale cliff near waterfall, Ystrad-fellte (42), Apr. 1927, P.W.M.R.

Gongylanthus ericetorum (Raddi) Nees, Lizard Down (1), Nov. 1924, H.H.K. & W.E.N.

Anastrophyllum Donianum (Hook.) Steph., Ben Thurian (107), July 1921, H.H.K. & W.E.N.

Lophozia turbinata Steph., Humberstone (54), Apr. 1927, G.H.A.

L. badensis (Gottsche) Schiffn., Sandhills, Freshfield (59), June 1912, W.G.T.

L. bantriensis (Nees) Dum., Dowlow Moor (81), March 1927, J.B.D.

L. longiflora (Nees) Schiffn., Belgian Ardennes, Aug. 1926, 1927, F.V. "May be correct, but in the absence of perianths, hardly a satisfactory specimen." H.H.K.

L. heterocolpa (Thed.) Howe, growing with *Anaectangium compactum*, Craig Cerig Gleisiad (42*), Aug. 1927, H.H.K.

L. Schultzi (Nees) Schiffn., var. *lorea* Nees, Florden (27), Oct. 1927, H.H.K. & W.E.N.

L. longidens Lindb., Göteborg, Fässberg, Bratteklef, Sweden, Sept. 1926, C.S.

L. guttulata Lindb, et Arn., Pitea Lappmark, Arvidsjaur, Araviken, Sweden, Aug. 1926, C.S.

L. confertifolia Schiffn., moist soil, north end of Balcombe Tunnel (14), Apr. 1927, W.E.N.

L. Wenzelii (Nees) Steph., Pitea Lappmark, Arjeppluog, Allejaure, Sweden, Aug. 1926, C.S.

L. bicrenata (Schmid.) Dum., Vendée, France, Nov. 1926, J.C.

L. incisa (Schrad.) Dum., Belgian Ardennes., Aug. 1927, F.V.

L. quinquedentata (Huds.) Cogn., Knockdolian (75), Nov. 1927, E.A.

L. lycopodioides (Wallr.) Cogn., Pitea Lappmark, Arjeplog, Allejaure, Sweden, Aug. 1926, C.S.; also, Stillwasserwald, Cant. Fribourg, Switzerland, June 1923, P.G.M.R.

L. Hatcheri (Evans) Steph., Val d'Anniviers, Valais, Switzerland, July 1926, P.G.M.R. also, Aviemore, East Inverness (96), Sept. 1927, H.H.K.

L. atlantica (Kaal.) Schiffn., on rocks Cwm-y-Glo (49), Aug. 1919, W.W.

L. barbata (Schmid.) Dum., near Silverdale (60), Apr. 1901, A.W.; f. *minor* Meylan, dry rocks, Valere, Valais, Switzerland, Nov. 1921, P.G.M.R.

L. Kunzeana (Hüb.) Evans, Pitea Lappmark, Arvidsjaur, Araviken, Sweden, Aug. 1926, C.S.

Sphenolobus saxicolus (Schrad.), Glenmore Forest (1200ft) (96) July 1920, H.H.K. & W.E.N.; also, Pitea Lappmark, Arvidsjaur, Prästberget, Sweden, Aug. 1926, C.S.

S. Hellerianus (Nees) Steph., Pitea Lappmark, Arvidsjaur, Prästberget, Sweden, Aug. 1926, C.S.

S. politus (Nees) Steph., Pitea Lappmark, Arvidsjaur, Prästberget, Sweden, Aug. 1926, C.S.; var. *medelpadicus* Arnell, Cam Chreag (88), July 1927, J.B.D.; also, Pitea Lappmark, Arvidsjaur, Araviken, Sweden, Aug. 1926, C.S.

S. exsectiformis (Breidl.) Steph., Chatton (68), March 1927, J.B.D.

Anastrepta orcadensis (Hook.) Schiffn., rocks, Snowdon (49), Aug. 1919, P.G.M.R.

Plagiochila asplenioides (L.) Dum., var. *major* Nees, f. *subintegerrima* Schiffn., shady woodland, Knockdolian (75*) Nov. 1927, E.A.; var. *minor* (Lind), Merridge, nr. Bridgewater (5), Nov. 1914, W.W.

P. spinulosa (Dicks.) Dum., Gorge of the Scru (50) June 1927, A.W.

P. punctata Tayl., Tyn-y-Groes, Dolgelley (48), Sept., 1927, D.A.J.

Lophocolea heterophylla Dum., Vendée, France, Apr. 1924, J.C.

Chiloscyphus polyanthus (L.) Corda, var. *rivularis* (Schrad.) Nees, Cocker Combe, Quantocks (5), Dec. 1912, W.W.

C. pallescens Dum., Rainford Junction (59), June 1913, W.G.I.

Harpanthus Flotowianus Nees, Ben Lawers (88), Aug. 1907, J.B.D.

Cephalozia Lammersiana Spruce., var. *serratiflora* Schiffn., (passing into *C. bicuspidata* var. *grandiflora*), wet cliffs, Arncliffe Woods (62), Aug. 1916, P.G.M.R.

C. ambigua Massal., Combe des Morts, Grand St. Bernard, Switzerland, July 1922, P.G.M.R., det., Pearson, (in or near original loc.).

C. hibernica (Spr. M. S.) Pears., O'Sullivan's Cascade (I. 2), July 1925, J.B.D., H.H.K., W.E.N.

C. fluitans (Nees), Spr., Oakmere, Delamere Forest (58), Sept. 1926, W.W.

Nowellia curvifolia (Dicks.) Mitt., Halland, Växtorp, Ekebränna, June 1926, C.S.; also, Ceunant Llenyrch, Maentwrog Valley (48), May 1927, D.A.J.; and Killin (88), Aug. 1927, D.B.B.

Cephaloziella Hampeana Schiffn., Sandhills, Harlech (48), Jan. 1927, D.A.J. & P.G.M.R.

C. striatula (Jens.) Douin, growing on *Leucobryum glaucum* in sphagnum bog near Mitcheldean (34), Aug. & Sept. 1927, H.H.K.

Prionolobus Massalongi Spruce, Carbis Bay (1), Apr. 1907, W.E.N.

P. Turneri Schiffn., Vendée, France, Nov. 1926, J.C.

Cephaloziella dentata (Raddi) K. M., Lizard Down (1), June 1927, W.E.N.

Odontoschisma Sphagni (Dicks.) Dum., Västergötland, Leran, Hulan, Sweden, May 1925, C.S.

O. denudatum (Nees) Dum., Halland, Okome, Ulfsbo, Sweden, June 1925, C.S.

Adelanthus decipiens Hook., West Inverness (97), May 1899, W.H.P. & S.M. Macv, com. H.A.H.

Bazzania trilobata (Linn.) Gray, on sandstone scree, Black Mts. (42) Apr. 1927, P.W.M.R.; also, near Conway Falls (50*) July 1925, A.W.; and Cwm Bychan, Harlech, (48), Sept. 1911, D.A.J. & P.G.M.R.

B. tricrenata (Wahl.) Pears, Cwm Bychan (48); Aug. 1922, D.B.B.

Lepidozia pinnata (Hook.), Dum., shaded rocks, Hafod y Llyn, Harlech (48), Sept. 1911, D.A.J. & P.G.M.R.

Chandonanthus setiformis (Ehrh.) Lindb., var. *alpinus* Hook., Braemar (92), July 1903, E.M.H., com. H.A.H.

Anthelia julacea Dum., wet rocks, Moelwyn Bach (48), Sept. 1927, P.G.M.R.

A. Juratzkana (Limpr.) Trev., bare earth at 2,500m, Grand St. Bernard, Switzerland, July 1922, P.G.M.R.

Herberta adunca (Dicks.) Gray, Cwm Clyd (49), 1,700 ft., July 1927, A.W.

Ptilidium pulcherrimum (Web.) Hampe, Warenford (68), Feb. 1926, and Mordrington (81), Feb. 1927, J.B.D.

Diplophyllum albicans (L.) Dum., Göteborg, Rada, Brata, Sweden, June 1924, C.S.

D. taxifolium (Wahlenb.) Dum., Pitea Lappmark, Arjepluog Allejaure, Sweden, Aug. 1926, C.S.

Scapania compacta (Roth) Dum., Knockdolian (75), Nov. 1927, E.A.

Scapania nemorosa Dum., Vendée, France, Jan. 1922, J.C. "This is *S. intermedia*; the leaves are serrate-dentate rather than ciliate-dentate, and the gemmae are greenish, rotundate and 2-celled when mature." H.H.K.

S. paludosa K. Müll., Pitea Lappmark, Arvidsjaur, Nedre Svardet, Sweden, July 1925, C.S.; var. *vogesiaca* K. Müll., wet holes, 2,230m., Grand St. Bernard, Switzerland, July 1922, P.G.M.R.

S. paludicola K. Müll., Pitea Lappmark, Arvidsjaur, Araviken, Sweden, Aug. 1926, C.S.

S. umbrosa (Schrad.) Dum., Waren Burn (68), Feb. 1927, J.B.D.

Radula Carringtoni Jack, Eagles Nest, Killarney (I. 2), July 1925, J.B.D., H.H.K., W.E.N.

Madotheca laevigata Schrad., Belgian Ardennes, Aug. 1927, F.V.; also, Vouvant, France, Jan. 1921, J.C.; var. *obscura* Nees, The Nursery, Portmadoc (49), June 1927, D.A.J.; var. *Thuja* Nees, Box Hill (17), Apr. 1927, D.G.C. "This is the type. It is not well-marked enough for the variety." H.H.K.

M. Porella Nees, Vendée, France, Sept. 1926, J.C.

Colura calyptrifolia (Hook.) Schiffn., Tyn-y-Groes (48), June 1927, D.A.J.

Microlejeunea ulicina (Tayl.) Evans, beeches, Deerleap Wood, Dorking (17), Apr. 1927, D.G.C., also, Vendée, France, Nov. 1926, J.C.

Harpalejeunea ovata (Hook.) Schiffn., Tyn-y-Groes (48), June 1927, D.A.J.

Marchesinia Mackaii (Hook.) Gray, The Nursery, Portmadoc (49), Aug. 1927, D.A.J.

Frullania tamarisci Dum., Vendée, France, Nov. 1927, J.C.

F. microphylla Pears., Pentire Head (1), May 1927, W.G.T.

F. fragilifolia Tayl., rocks, Holyhead (52*), July 1927, P.G.M.R.

F. Jackii Gott., Steimark, Schladming., 1880, J. Breidler, com. F.V.

Non-European.

Metzgeria hamata Lindb., Tjibadas, Java, Feb. 1913, Max Fleischer, com. F.V.; var. *angustior*, Tjibadas, Java, Apr. 1913, Max Fleischer, com. F.V.

Pallavicinia radiculosa Gedch, Tjipannas, Java, ad fontes calidos, 2,000m., May 1913, Max Fleischer, com. F.V.

P. Levieri Schiffn., Aria, Tjibadas, Java, Feb. 1913, Max Fleischer, com. F.V.

Chiloscyphus cralitus, Aria, Tjibadas, Java, 1,600m., Max Fleischer, com. F.V.

Frullania Kunzii Lebm., Sandford, Florida, Jan. 1928, S. Rapp, com. F.V.

REPORT OF THE ANNUAL MEETING, 1928.

ELEONORA ARMITAGE.

(Extracted from the *Journal of Botany* November 1927,
p. 327)

The British Bryological Society held its Annual Meeting and Excursion at Brecon, August 12 to 19, 1927, under the Presidency of the Rev. C. H. Binstead, M.A., F.L.S. About thirty members and friends were present. The weather conditions were somewhat adverse; owing to the heavy rainfall the Usk and the mountain streams were so swollen that the riparian bryophytes were submerged and the waterfalls so overbrimming that the rocks were unapproachable in places. In spite of this, some good work was done, and several records were added to the County Flora.

The Brecon Beacons were visited twice; there was some excellent ground on the fine cliffs and crags of Craig Cerig Gleisiad, where ravens and buzzards circled round the cliff-tops. Heavy rain unfortunately curtailed the visit to Sennybridge and the Usk valley. A fine drive across high moorland led the way into the delightful wooded cwm of the Hepste, but the excess of water in the streams and falls made the visit somewhat tantalizing.

The results of interest are noted below; new records for v.c. 42 are starred. Mosses:—*Sphagnum recurvum* var. *robustum**, *S. cuspidatum* vars. *falcatum** and *plumulosum**, *S. inundatum* var. *diversifolium**, *S. auriculatum* vars. *canovirescens** and *ovatum* f. *intortum**, *S. aquatile* vars. *remotum**, *sanguinale**, and *pauperatum**, *Oligotrichum hercynicum* c.fr., *Polytrichum alpinum*, *Dicranella secunda**, *Fissidens Curnowii**, *Grimmia torquata*, *Pottia intermedia**, *Barbula rubella* var. *dentata**, *B. ferruginascens*, *B. recurvifolia** *Weisia calcarea**, *Webera cruda*, *W. proligerica**, *Bryum atropurpureum* var. *gracilentum**, *B. Mildeanum*., *Plagiothecium pulchellum*, *Orthothecium intricatum*, *Hypnum cupressiforme* var. *mamillatum**, *H. stramineum*, *H. sarmentosum*. Hepatics:—*Riccia sorocarpa**, *R. Beyrichiana**, *R. Crozalsii**, *Aneura multifida**, *Pellia Fabbronia* var. *lorea*, *Blasia pusilla**, *Marsupella ustulata*, *Alicularia scalaris* var. *procerior**, *Eucalyx obovatus*, *Aplozia sphaerocarpa**, *Lophozia Muelleri**, *L. heterocolpa** (new to Wales), *L. bicrenata**

L. excisa, *L. attenuata**, *Bazzania triangularis**, *Scapania aspera**, (Crickhowell).

At the Annual Meeting the Officers were elected, and the work on the revision of the 'Hepatic Census Catalogue' was discussed; many counties require to be examined in detail before a new edition can be issued. North-Eastern Ireland was chosen for next year's Excursion: date, August 25—31, 1928.

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(This list also contains some works published in 1926. An asterisk* denotes that a copy of the work has been presented to the Library.)

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- ANDREWS, A. Le R.—Review. Th. Herzog. *Geographie der Moose*, Jena, 1926. *Bryologist*, XXX, 1927, pp. 91—94.
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- BARTRAM, E. B.—Some Arizona mosses not previously reported from the United States. *Bryologist*, XXX, 1927, pp. 45—50.
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- BAUER, E.—*Musci Europaei Exsiccati*, 38 serie, Nr. 1851—1899, 1926. (Includes *Funaria hungarica* sp. nov.).
- BINSTEAD, C.H.—Mosses of the French Riviera. *Bryologist*, XXX, 1927, p. 26-27.
- BOROS, A.—Neue Standorte der *Funaria hungarica*. Bot. Közlem. 24, 1927, 72 (15). (In Magyar, with German summary.). Reviewed by Reimers, H. (vide infra.)
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- DUPRET, H.—Notes and comparative sketches of the leaves in the group *Brachythecium digastrum*, *oxycladon* and *oxycladon dentatum*. Bryologist XXX, 1927, pp. 58—61, Pl. V.
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The object aimed at in the compilation of these lists has been the inclusion of all recent contributions to bryology. Some works have unfortunately been omitted, partly owing to the lateness of their publication, and partly to the fact that they have not come to the notice of the more important botanical journals. On the other hand a few papers contributed to bryological journals have been purposely omitted as being of not sufficient scientific value, though interesting in other ways. A further difficulty has arisen recently regarding the inclusion of works that have an indirect bearing only on bryology. I refer to recent research on pollen grains in peat. Though some of these papers have been included in the index, they have been omitted entirely from the lists.

I would again thank all those who have kindly sent reprints and helped me in other ways. The more help of this nature is forthcoming, and the wider the circle of collaborators, the more useful will the index become.

May I again ask all bryologists to notify me of their works early, or better still to forward reprints for my perusal in order that the subject matter may be indexed accurately?

LESLIE B. C. TROTTER,

Ledbury,
March 29/28.

OBITUARIES.

ST. JOHN MARRIOTT.

With the death of St. John Marriott, on 7th. October, 1927, an honoured and long familiar figure passed from the ranks of London Naturalists.

Marriott was a very active worker, and, although especially attracted to botany, took an interest in a wide range of subjects, as is instanced by his general survey of Flora & Fauna of the Lessness Woods. The results of this were published in 1925 in an illustrated book entitled "British Woodlands." He also wrote a brochure on our summer migrants.

Marriott joined the Moss Exchange Club (now known as the British Bryological Society) in 1907, and proved a keen and enthusiastic worker at the mosses and liverworts. At that time he resided in Glasgow, but in 1913 he came South to Abbey Wood, Kent, and since then he paid special attention to that county, and added many new records of bryophytes. His last work was to compile a list of the hepatics of Essex, which appeared after his death in Vol. XXII. of the "Essex Naturalist."

He excavated the Blackheath shell-beds in the Lessness Woods, and discovered hitherto unrecorded remains of mammals, fishes, and mollusca now under investigation at the British Museum (Natural History).

Not the least among his many activities was the untiring assistance which he so gladly rendered to local Natural History Societies. He founded the Plumstead Natural History Society and arranged lectures and conducted rambles for Nature Study on its behalf.

His amiable disposition and willingness to help beginners made him many friends, by whom his memory will be long cherished.

W. R. S.

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WILLIAM N. TETLEY, M.A. (Cantab).

British Bryology has lost an ardent and accurate disciple by the death of Mr. Tetley, which took place at Hoyle, Cheshire, on March 13th, 1928.

Born in 1861, the son of Rev. James D. Tetley, he was educated at King Edward's Grammar School, Birmingham, Kingswood School, Bath, and St. Catherine College, Cambridge, where he won his oar and took his degree as a Wrangler

After teaching for a few years in a Private School in Lytham, he crossed to Ireland, and took up work in Portora Royal School, Enniskillen, where he remained for nearly 35 years.

Mr. Tetley's best bryological work was done in Ireland where he rambled far and wide. He made several important "finds" both in mosses and hepatics, as he searched localities which formerly had not been explored. Among these may be mentioned *Rhabdoweisia crenulata* Jameson, and *Eurhynchium myosuroides* var. *brachythecioides* Dixon, not previously recorded for Ireland.

In July and August 1919, a few members of the Moss Exchange Club met at Llanberis, North Wales, where they accidentally met Mr. Tetley, who often visited the district. He joined them in their rambles and became an enthusiastic member of the Club. One day the party ascended the Glyders in search of *Scapania nimbosa* and *ornithopodioides*, which grew in one of the cwms. The weather changed and in mist and rain the party lost their way, descending finally into Llanberis Pass, miles away from the right path. No one showed more delight in the scramble over rocks and scree than the late member. Until his health failed he was present at several of the Annual Meetings of the British Bryological Society, accompanied by his sisters, Mrs. Hugill and Miss Tetley, who have the sincere sympathy of all the members who knew him, in their sorrow.

Mr. Tetley's hobbies included birds of which he was a keen observer.

On his departure from Portora in 1925 the Head Master (Mr. Seale) wrote:—"It is probably no exaggeration to say that no master ever gave more excellent service to the School than Mr. Tetley. He has given to all who came in contact with him here a fine example of fidelity to high ideals and of unswerving devotion to duty. A fine scholar and in earlier years an excellent cricketer and oarsman, his tastes and interests covered a wide field."

He was a real lover of Nature and has earned indeed in the bypath of Natural History a considerable name. His quiet, genial manner won him many friends who will cherish his memory for years to come.

W. R. M.

D. A. J.

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