



The British Bryological Society



REPORT FOR 1926

VOL 1. PART 4.



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1926



**The British
Bryological Society**



REPORT for 1926

VOL. I.

PART 4.

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for 1925**

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Mosses and Hepatics sent for Distribution

1925—1926

	<i>Sphagna</i>	<i>True Mosses</i>	<i>Hep- atics</i>	<i>Total</i>
Mr. G. H. Allison ...	...	18	...	18
Herr H. Andres (Germany)	...	5	...	5
Miss E. Armitage ...	36	390	350	776
Mr. E. B. Bartram (U.S.A.)	...	140	...	140
Mr. A. T. Beals (U.S.A.)...	...	304	...	304
Mr. H. Bellerby ...	42	47	...	89
Rev. C. H. Binstead ...	...	530	...	530
Mr. D. B. Bradshaw ...	...	28	15	43
Mr. W. H. Burrell ...	...	57	...	57
Mr. D. G. Catcheside ...	189	95	62	346
Capt. C. D. Chase ...	...	12	...	12
Mr. J. Charrier (France) ...	...	426	61	487
Miss C. A. Cooper ...	...	21	...	21
Mr. H. N. Dixon ...	...	311	...	311
Mr. J. B. Duncan ...	...	131	175	306
Miss E. Evitt ...	28	12	...	40
Mr. W. Groves ...	...	24	...	24
Mr. J. Hennen (Belgium)...	225	105	70	400
Mr. H. A. Hyde (National Museum of Wales)	5	45	40	90
Rev. R. Jackett ...	363	...	...	363
Mr. D. A. Jones ...	...	40	36	76
Dr. Mauno J. Kotilainen (Finland)	...	380	...	380
Mr. H. H. Knight ...	...	16	72	88
Herr L. Loeske (Germany)	...	10	...	10
Mrs. F. A. McFadden (B.C., Canada)...	...	61	...	61
Mr. St. J. Marriott ...	...	38	26	64
Rev. W. R. Megaw ...	...	27	...	27
Mr. H. W. Monckton ...	10	...	...	10
Mr. W. E. Nicholson ..	...	50	55	105
Mr. J. L. O'Loughlin ...	71	66	..	137
Dr. L. H. Pegler ...	...	83	...	83
Rev. Dr. P. G. M. Rhodes	...	241	58	299
Mr. E. A. Richards ...	...	44	...	44
Mr. P. W. M. Richards ...	4	59	14	77
Mr. F. Rilstone ...	37	80	10	127
Mr. D. R. Robertson ...	...	81	...	81
Mr. R. W. Smitham ...	102	...	...	102
Mr. H. Stansfield ...	...	28	...	28
Mr. Carl Stenholm (Sweden)	...	159	...	159

	<i>Sphagna</i>	<i>True Mosses</i>	<i>Hepatics</i>	<i>Total</i>
Mr. A. Sutton	...	13	...	13
Mr. W. G. Travis	34	68	42	144
Mr. H. Van den Broeck (Belgium)	...	126	...	126
Herr J. Warnstorf (Germany)	10	31	7	48
Mr. A. Wilson	...	44	16	60
	1156	4446	1109	6711



Referees

MOSESSES—

Sphagnaceæ and Harpidia - - -	MR. SHERRIN
Andreæaceæ to Grimmiaceæ - - -	MR. SAVERY
Tortulaceæ to Orthotrichaceæ, and European - - - - -	MR. NICHOLSON
Schistostegaceæ to Leskeaceæ - - -	MR. RILSTONE
Hypnaceæ, except Harpidia - - -	MR. DUNCAN
Non-European, and Referee-in-Chief - - -	MR. DIXON
HEPATICES - - - - -	MR. KNIGHT
Referee-in Chief - - - - -	DR. MACVICAR

Report of Acting Secretary

The Fourth Annual Report of the British Bryological Society shows a slightly increased membership, 105, and has to record the death of two valued members, Mr. J. C. Wilson and Mr. H. Van den Broeck, of whom obituary notices are included.

The contributions for the Distribution are again very large, and the grateful thanks of the members are due to the indefatigable work of the Distributors and Referees.

The Annual Meeting and Excursion was held at Ross, Herefordshire, and was enjoyed by the members who attended it; a short report is appended.

The printing of the new edition of the "Student's Handbook of British Hepatics" is well in hand and all members are looking forward eagerly to its appearance.

The new edition of the "Census Catalogue of British Mosses" may be expected to appear shortly. Circulating Catalogues cannot be issued until it is ready.

When members receive notice of the publication of the new "Moss Census Catalogue" they are begged to procure the copies they require as soon as possible, and also to bring the Catalogue to the notice of any persons or institutions known to them who are likely to be interested. Until a very large number of copies is sold the burden of the cost of the printing will lie heavily on the Society.

Some items of information may be repeated this year,—i.e., that Mr. Sherrin is Librarian and Curator in charge of Books and Specimens; that Dr. Trotter is proceeding with the compilation of the Bibliography of Bryological Literature and will welcome copies of new papers; and that 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 the 1st of January each year, and the Treasurer will be grateful if these are paid with as little delay as possible.

DADNOR, ROSS,
HEREFORDSHIRE.
April 1926.

ELEONORA ARMITAGE

Report of Distributor (Mosses)

The number of plants sent for distribution this year fell considerably short of last year's total. It was nevertheless greatly in excess of any previous year and quite adequate to the requirements. A noticeable feature is the increase of foreign plants. The Society is fortunate in having gained the adhesion of several new foreign members, notably Mr. A. T. Beals of New York, and Dr. Kotilainen of Helsingfors, who have furnished valuable contributions. Our old and tried members have continued, and even surpassed, their previous efforts for our benefit. Miss Armitage has sent a great quantity of interesting material collected by her in the Canary Islands in the spring of last year, and Mr. Binstead has again made splendid collections for us in Southern France and Switzerland, as well as in Herefordshire and the Lake District. Mr. Binstead is again spending the spring on the Riviera and has written recording the discovery at Costabelle of a few fruiting specimens of *Eurhynchium circinatum* which abounds there, though the fruit seems to be very rare. A note by him on *Helicodontium pulvinatum* in Herefordshire appears on another page. Mr. D. A. Jones, who has also spent the winter in the South of France, has sent very acceptable specimens of some of the rarer mosses. Mr. Dixon has again very kindly placed at my disposal a large number of duplicates from his herbarium, including many of his own earlier gatherings and specimens collected by some of the old masters, Mitten for example. Mr. Hyde also has sent duplicates from the collection in the National Museum of Wales, Cardiff, many of which were distributed in past years by the Moss Exchange Club and are therefore not specifically mentioned in the report. Dr. Rhodes has sent an interesting series of plants illustrating Dr. Malta's new varieties of *Zygodon viridissimus*. A note on these varieties appears on another page. A novel feature of this distribution is the contribution by Mr. E. A. Richards of a few microscope slides of a rare *Fissidens* from France. This is a welcome innovation which might well be made a permanent feature. Among other noteworthy contributions are those of Messrs. Duncan, Charrier and Hennen; Messrs. Jakkett and Smitham have been active among the Sphagna

and of the younger members, Messrs. Catcheside, O'Loughlin and P. W. M. Richards have made useful gatherings for distribution.

Most of the specimens were well selected and satisfactorily packeted, but a few were hardly worth sending. My remarks in the last report as regards single specimens appear to have been to some extent disregarded, for there were more single packets than usual sent in this year, and the Referees have objected to so much of their time having been taken up unprofitably in dealing with them. My request for *desiderata* lists was responded to by about thirty members, who have had precedence over those who furnished no statements of their requirements.

Our best thanks are due again to the Referees for their great kindness in giving us the benefit of their special knowledge. Both Mr. Dixon and Mr. Nicholson had heavier tasks than usual, owing to the increase in the number of foreign plants sent in. In Mr. D. A. Jones' temporary absence abroad, Mr. Rilstone very kindly dealt with the genera formerly referred to him. Mr. Sherrin, in addition to his heavy task as Referee of *Sphagna* and *Harpidia*, has given me very material relief in distributing the *Sphagna*, for which I am glad to record my hearty thanks to him.

The results of this year's distribution will, I trust, be such as to justify the conclusion that the Society is enlarging its sphere of usefulness.

A. SUTTON

9, BROOKFIELD PARK,
LONDON, N. W. 5.

April, 1926

Report of Distributor (Hepatics)

Packets sent in by members this year total 1109. The distribution followed the same general plan as previous years.

Among British plants sent in, *Adelanthus dugortiensis*, sent in by several members, was very interesting, as was also *Lophocolea fragrans* from an unusual situation, a moist hedge-bank, sent by Mr. Nicholson.

A substantial amount of foreign material was sent, in connection with which reference should be made to the large parcel from the Canary Islands, sent by Miss Armitage.

The Referee expresses himself as well satisfied with the material passing through his hands, the specimens being for the most part correctly named.

The packets were almost universally well prepared, and banded together. This has made the work of distribution easy.

The best thanks are due to Mr. Knight for his work as Referee.

KIRKBURTON,
April 11th, 1926.

F. E. MILSOM.

Statement of Account for 1925

RECEIPTS				EXPENDITURE			
	£	s	d		£	s	d
Balance from last account ...	0	7	6	Printing Report, issued Oct. 1925 ...	23	8	8
Subscriptions—1925 ...	35	6	2	Distribution costs, 1924—25 ...	5	11	5
" (arrears) ...	3	15	0	Secretary's Expenses, 1924 ...	6	5	7
" —1926 (paid before due) ...	4	2	6	" " 1925 ...	7	7	11
Donations to Printing Fund (see list) ...	16	16	0	Buncle & Co.—Printing Rules, &c., 1922 ...	3	4	3
Publications sold ...	3	5	1	Treasurer's expenses (including Census Catalogue &c) ...	2	15	3
				Annual Meeting :—			
				1924, Sec. expenses & room for Meetings (£2/2/-)	2	18	10
				1925, ,, expenses ...	0	13	3
				Literature purchased—Reprint for Members, &c	1	0	0
				Balance in hand ...	10	6	4
	£63	12	3		£63	12	3

Balance Sheet 31st December, 1925

LIABILITIES				ASSETS			
Subscriptions, 1926. paid before due ...	4		6	Cash in hand ...	10	6	4
Distribution costs, 1925—26 (estimated) ...	5	10	0	Subscriptions in arrear ...	1	0	0
Printing Report, 1925 (estimated) ...	23	0	0	Deficit ...	21	6	2
	£32	12	6		£32	12	6

Examined and found correct,—T. A. BRUCE,
 Barclays Bank Ltd.,
 Berwick-on-Tweed

J. B. DUNCAN,
 Treasurer

List of Donations to Printing Fund 1925

			£	s	d
Macvicar, S. M....	...	...	5	0	0
Binstead, C. H....	...	...	2	15	6
Cooper, Miss C. A.	...	...	1	0	0
Nicholson, W. E.	...	...	1	0	0
Richards, E. A....	...	...	0	12	6
Rilstone, F. ...	...	...	0	11	6
Armitage, Miss E.	...	...	0	10	0
Bellerby, W. ...	...	...	0	10	0
Duncan, J. B. ...	...	...	0	10	0
Marriott, St. J....	...	...	0	10	0
Saunders, Miss R.	...	...	0	10	0
Jackett, R. ...	...	...	0	7	6
Tetley, W. N. ...	...	...	0	7	6
Wilson, A. ...	...	...	0	7	6
Jones, D. A. ...	...	...	0	5	0
Smith, Miss K. E.	...	...	0	5	0
Sutton, Miss B. M.	...	...	0	5	0
Scott, Miss L. I.	...	...	0	3	0
Beesley, H. ...	...	...	0	2	6
Chick, Miss E. J.	...	...	0	2	6
Dixon, Mrs. ...	...	...	0	2	6
Glover, J. ...	...	...	0	2	6
Hilary, Miss D....	...	...	0	2	6
Jefferies, D. ...	...	...	0	2	6
Sherrin, Mrs. ...	...	...	0	2	6
Smitham, R. W.	...	...	0	2	6
Sutton, A. ...	...	...	0	2	6
Wyndham, Miss A.	...	...	0	2	0
Allison, G. H. ...	...	...	0	1	6
			<hr/>		
			£16	16	0

Note on
***Helicodontium pulvinatum* Lindb.**

REV. C. H. BINSTED, M.A., F.L.S.

I have found this rare moss in widely separated places in Herefordshire, and it may interest readers to know that it occurs on trees caked with mud in meadows liable to occasional flooding.

The common *Leskea* often grows with it and is also at home by running water. This, however, is not the case with the rarer plant. The *Leskea*, too, is usually of a brownish colour and is somewhat branched and untidy in its mode of growth. *Helicodontium*, on the contrary, may be known by its rich green colour and by the neat and compact arrangement of its simple stems, by which it calls to mind *Habrodon Notarisii*. Both *Helicodontium* and the *Leskea* have a prolonged fruiting season, but the capsules of the former, which are freely produced, are shorter and somewhat turgid. One should look for this rare species on trees (thorns and alders in particular) by ditches in meadows which border on rivers and streams. I may add that while *Leskea polycarpa* is at home in quite moist situations *Helicodontium* prefers rather drier places, such, at any rate, has been my experience of it.

European Varieties of *Zygodon Viridissimus*

[Abstract from the article by N. Malta, D.Sc.,
in the "Acta Universitatis Latviensis,"
October 1925 ; kindly revised by the Author]

Communicated by REV. DR. P. G. M. RHODES, M.A., D.D., F.L.S.

(1) Dentation of apex of leaves nearly always verifiable in the younger leaves. Gemmæ numerous, yellowish-brown or brownish red, averaging .086 m.m. in length and .034 m.m. in breadth, rather suddenly narrowed at both ends, with both transverse and longitudinal septa, which tend to be distinctly curved.

On bark in the Alps and Transylvania. Not verified for Britain. Subsp. *Z. dentatus* (Breidl), Malta

(2) Leaf apex not dentate. Subsp. *Z. eu-viridissimus*, Malta.

(i), Gemmæ with transverse septa alone, clavate, above suddenly pointed or rounded, averaging .089 m.m. by .033 m.m., septa 3 or 4 in number, rarely 2 or 5. Generally of a yellowish tinge. *Z. viridissimus* Malta, var. *vulgaris* Malta. (British).

Gemmæ longer, averaging .113 mm. by .029 m.m., more gradually acuminate, 4 to 6 septa. *f. mediterranea* Malta. (Not British).

Strong yellowish-red percurrent, or rarely excurrent, nerve. *f. crassinervis* Malta. (Not verified for Britain).

Saxicolous, darker in colour, leaves less reflexed when moist. *f. rupestris* (Lindb.) Malta. (British).

Short-stemmed plant; leaves short and relatively broad, more or less ovate-lanceolate, reddish at base. Mountain form. *f. Baumgartneri* (Malta) Malta. (Not verified for Britain).

Leaves with long, fine, brittle point of one series of cells. *f. cuspidata* Baumgartner (Not verified for Britain).

(ii) Gemmæ with both transverse and longitudinal septa, usually yellowish, averaging .103 m.m. x .040 m.m., 4 or 5 septa, less often 3. Longitudinal septa rarely distinctly curved. Leaves broader than in var. *vulgaris*. *Z. eu-viridissimus* Malta, var. *occidentalis* (Correns) Malta. (The common form in Britain).

Nerve excurrent in a strong point. *f. Stirtoni* (Schimp.) Malta (British).

In Britain, var. *vulgaris* seems to be confined to moist and mountainous regions, though this does not correspond to its ecological position on the Continent, where it is the dominant form.

Fresh determinations of British plants by Dr. Malta are as follows:—

Z. eu-viridissimus, var. *vulgaris* Malta, Tree, Nant Artro, Harlech (48), D.A.J. & P.G.M.R. 2089, Apr. 1924; Mainland, near Moidart (97), W. Ingham, Aug. 1910; Oaks, Dinish Island, Killarney, Aug. 1924, P.G.M.R.

Z. eu-viridissimus, var. *vulgaris*, f. *rupestris* Malta, Rocks by road, Cromaglaun, Killarney, Aug. 1924, P.G.M.R. 2283.

Z. eu-viridissimus, var. *occidentalis* Malta, Tree, Whittingham (22), P.G.M.R. 2597, Oct. 1925; Wall, Barham (25), leg. Mayfield, ex herb Ingham, June 1920; Tree, Wilmingham (10), Jan. 1919, J. Groves; passing into f. *Stirtoni*, on oak, Tremadoc (49), July 1925, P.G.M.R. 2499; "young gemmæ, longitudinal septa not always clear," N. Malta.

REPORTS ON PLANTS SENT IN BY MEMBERS

An asterisk (*) denotes a new Vice-Comital Record

Sphagna

Sphagnum fimbriatum Wils., var. *validius* Card., f. *spectabile* W., Cappellen, Anvers, Belgium, Aug. 1925, J.H. "I should place this under no variety or forma," W.R.S.; var. *intermedium* Russ., Neukloster, Mecklenberg-Schwerin, Germany, July 1907, leg. Hahn, com. J.W.; var. *tenue* Grav., Cappellen, Anvers, Belgium, Aug. 1925, J.H., "no var.," W.R.S.

S. Girgensohnii Russ., Lautenthal, Harz Mts., Germany, July 1921, J.W.

☐ *S. Russowii* W., var. *purpurascens* Russ., Ben Lawers (88*), Aug. 1925, J.L.O'L., "new to Britain," W.R.S.

S. Warnstorffii Russ., var. *versicolor* Russ., Neukloster, Mecklenberg-Schwerin, Germany, Aug. 1910, leg. Hahn, com. J.W.

S. rubellum Wils., var. *purpurascens* Russ., Leith Hill (17), April 1910, leg. W.R.S. & E. C. Horrell, com. H.A.H.; Luxulyan (2), — 1920, R.W.S.; Bolventor, Bodmin Moor (2), Aug. 1922, R.W.S., "intermediate between v. *rubescens* and v. *purpurascens*," W.R.S.

S. acutifolium Ehrh., Dunkery Beacon (5), Aug. 1925, and Doone Valley (4), Sept. 1925, D.G.C.; Leith Hill (17), June 1925, and Ben Lawers (88), Sept. 1925, J.L.O'L.; var. *viride* W., Dunkery Beacon (5), Aug. 1925, D.G.C., "no var.," W.R.S.; Doone Valley (4), Sept. 1925, D.G.C.; var. *pallescens* W., Fowey Well, Bodmin Moor (2), Aug. 1922, R.W.S.; var. *versicolor* W., f. *venustum* Wheld., Medrose Moor (2), March 1924, R.W.S.

S. quinquefarium (Lindb.) W., var. *viride* W., St. Andreasberg, Harz Mts., Germany, July 1922, J.W.; var. *versicolor* Russ., pale form, Ben Lawers (88), Aug. 1925, J.L.O'L.

S. plumulosum Röhl., Leith Hill (17), June 1925; D.G.C.; Oxshott Heath (17), Dec. 1924, D.G.C., "this is *S. rubellum*," W.R.S.; Sarnau (44), April 1925, R.J.; Wellington College Moor (22), Aug. 1925, H.W.M., "this is v. *lilacinum*," W.R.S.; Redgate (2), Aug. 1924, R.W.S.; var. *viride* W. f. *squarrosulum* W., Sarnau (44), April 1925, R.J., "no var. or form," W.R.S.; var. *pallens* W., f. *substrictum* W., Legroland (45), April 1925, R.J., "no form," W.R.S.; var. *lilacinum* Spruce, Sarnau (44),

April 1925, R.J., "this is v. *ochraceum*," W.R.S. ; var. *versicolor* W., Lautenthal, Harz Mts., Germany, July 1921, J.W. ; f. *tenellum* W., Selworthy (5), Sept. 1925, D.G.C., "the lower and older parts of these plants are certainly large enough to come under the f. *validum* W.," W.R.S. ; Redgate (2), Aug. 1924, R.W.S., "abnormal in having the stem leaves fibrillose," W.R.S. ; St. Cleer (2), — 1924, R.W.S. ; var. *ochraceum* W., Selworthy (5), Sept. 1925, D.G.C. ; Sarnau (44), March & April, 1925, R.J., "some packets of the April gathering contain plants which show an approach to var. *lilacinum* Spr.," W.R.S. ; Titterstone Clee Hill (40*), Sept. 1925, E.A. ; f. *Schillerianum* W., Selworthy (5*), Sept. 1925, D.G.C. ; f. *amentiforma* Wheld. & Ingh., Dunkery Beacon (5), Aug. 1925, D.G.C.

S. tenerum Sull., Dunkery Beacon (5), Aug. 1925, D.G.C., "this is *S. acutifolium* Ehrh. The stem leaves are 1.2 m.m. in length. In *S. tenerum* they are larger, up to 1.6 m.m. or more, and often with the margin undulate," W.R.S. ; Doone Valley (4), Sept. 1925, D.G.C., "Yes, I think this comes under *S. tenerum*. Stem leaves 1.6—1.7 m.m., but rather narrower than usual, strongly fibrillose, and with pores the width of the hyaline cells; the margins are also slightly undulate," W.R.S.

S. compactum D.C., var. *squarrosum* Russ., East Norfolk (27), Nov. 1913, leg. W.H.B., com. H.A.H. ; var. *imbricatum* W., Wittenberge, Brandenburg, Germany, Aug. 1909, J.W. ; f. *purpurascens* W., Bodmin Moors (2), Aug. 1922, R.W.S., "no var. or form," W.R.S. ; f. *obscurum* W., Calmpthout, Belgium, July 1925, J.H., "no var. or form," W.R.S.

S. squarrosum Pers., Ben Lawers (88), Sept. 1925, J.L.O'L., "This is var. *subsquarrosum* Russ.," W.R.S. ; var. *spectabile* Russ., f. *elegans* W., Braschaet, Belgium, Nov. 1925, J.H. "A very interesting plant, much nearer to var. *imbricatum* Schp., but differing in the tall, lax habit," W.R.S.

S. teres Angstr., var. *subteres* Lindb., Ben Lawers (88), Aug. 1925, J.L.O'L. ; var. *squarrosulum* W., Wimbleton Comm. (17), Dec. 1925, D.G.C.

S. Dusenii C. Jens. var. *plumosum* W., Cappellen, Anvers, Belgium, Sept. 1924, and May and Aug. 1925, J.H.

S. amblyphyllum Russ., Lautenthal, Harz Mts., Germany, July 1921, J.W. ; var. *macrophyllum* W., Redgate (2), Aug. 1924, R.W.S. "This is *S. recurvum* v. *majus*," W.R.S. ; var. *mesophyllum*, f. *silvaticum* Russ., Cheesewring (2), July 1921, leg. W.R.S., com. E.E. "These plants come nearer f. *molle* Russ.," W.R.S.

S. pulchrum W., Leith Hill (17), June 1925, J.L.O'L. ; var. *fuscoflavescens* W. "This name is wrongly spelt in Wheldon's Synopsis," W.R.S. ; Sarnau (44), April 1925, R.J., "These are poor representatives of *S. pulchrum* ; the var. *fuscoflavescens* is a

beautiful plant of a rich yellow-brown colour," W.R.S. ; East Burnham Comm. (24), April 1925, P.W.M.R.

S. recurvum P.B., var. *robustum* Breidl., f. *longifolium* W., Medrose Moor (2), March 1924, R.W.S. ; f. *nigrescens* W., Goathland (62), Oct. 1925, W.B., "Yes, but mixed with var. *majus*, f. *silvaticum*," W.R.S. ; f. *fuscescens* W., Cheesewring (2), Sept. 1924, R.W.S. ; Leith Hill (17), June 1925, D.G.C. "This is v. *majus* f. *sphaerocephalum*," W.R.S. ; var. *majus* Angstr., f. *silvaticum* Russ., Cappellen, Anvers, Belgium, Oct. 1925, J.H. "This is var. *robustum*, f. *longifolium* W.," W.R.S. ; Titterstone Clee Hill (40*), Sept. 1925, E.A., "no form," W.R.S. ; sf. *fibrosa* Schliep., Cappellen, Belgium, Aug. 1925, J.H. "This is *S. fallax* v. Klgr., but it does not seem to fit the description of any of the varieties given by Warnstorf. There are two forms in the ten packets. One has the stem leaves 1.15 x 0.6 m.m., and in the other the stem leaves measure 2.—2.1 x .08 m.m. These stem leaves are strongly fibrillose to the base and vary greatly in shape. They remind one of *S. acutifolium* v. *Schultzii*, which plant I take to be a mere sport," W.R.S. ; sf. *deflexum* W., Medrose Moor (2), March 1924, R.W.S. ; f. *pulchellum* W., Wimbledon Comm. (17), Oct. 1925, D.G.C., "This is *S. amblyphyllum*" W.R.S. ; f. *sphaerocephalum* W., Trelleck Bog (35*), Aug. 1925, E.A., also leg. W.R.S., com. J.L.O'L. ; var. *immersum* W., Cheesewring (2), Oct. 1924, F.R. "Yes, after much hesitation I agree with Mr. Rilstone's determination. In the habit and the stem leaves this plant is very similar to *S. obtusum*. After examining several stems I found both obtuse and acute leaves. The chief difference between them is the pore formation of the lower surface of the branch leaves ; these in *S. obtusum* are numerous, ill-defined, very small, and require deep staining to be seen, while in *S. recurvum* they are large and few," W.R.S. ; Cappellen, Belgium, Aug. 1925, J.H. "This is *S. fallax* v. Klgr., var. *plumosum* W.," W.R.S.

S. serratum Aust., Dunkery Beacon (5), Aug. 1925, D.G.C.

S. fallax v. Klinggr., Esher Comm. (17), Dec. 1924, leg. E. Wallace & D.G.C., com. D.G.C., "Yes," W.R.S. ; Esher Comm. (17),—1925, J.L.O'L., "This is *S. amblyphyllum* v. *mesophyllum*," W.R.S. ; var. *plumosum* W., Cappellen, Belgium, May 1925, J.H.

S. cuspidatum Ehrh., var. *falcatum* Russ., Winterton (45), May 1925, R.J. ; f. *molle* W., sf. *polyphyllum* W., Cheesewring (2), Sept. 1924, R.W.S., "no sub-form," W.R.S. ; sf. *tenellum*, Conochon, Isle-of-Man (71), Sept. 1913, leg. J. A. Wheldon, com. W.G.T. ; sf. *capitatum* Wheld., Marsh, Cheesewring (2), Sept. 1924, R.W.S. "It is unusual for *S. cuspidatum* to have colour," W.R.S. ; Bolventor, Bodmin Moors (2), Aug. 1922, R.W.S. ; f. *rigidum* W., Fowey Valley (2), Aug. 1922, R.W.S.,

“*f. rigidum* is incorrectly treated as a var. in Wheldon’s synopsis,” W.R.S. ; *sf. pungens* Grav., Sarnau (44), April 1925, R.J., “no form or sub-form,” W.R.S. ; Bodmin Moors (2), R.W.S., “a rather stunted form,” W.R.S. ; var. *plumosum* Schp., Cappellen, Belgium, Dec. 1924, J.H. ; *f. remotum* W., Ockham Comm. (17), April 1925, leg. E. C. Wallace, com. D.G.C. ; *f. plumulosum* Schp., Westmalle, Belgium, Oct. 1923, J.H. “This form has been raised to the rank of a variety, but this plant is not var. *plumulosum*, but v. *plumosum* simply ; the var. *plumulosum* Schp. is a much smaller plant with the leaves not more than 2.5 m.m. long,” W.R.S. ; var. *plumulosum* Schp., Dunkery Beacon (5), Aug. 1925, D.G.C. ; Sarnau (44), March & April 1925, R.J. ; *f. densissimum* W., Dunkery Beacon (5), Aug. 1925, D.G.C.

S. molluscum Bruch., var. *vulgatum* W., *f. gracile* W., Marros Mt. (44), Dec. 1925, R.J.

S. obesum W., var. *luxurians* W., Craddick Moor, St. Cleer (2), Aug. 1924, R.W.S., “near v. *sanguineum*,” W.R.S. ; var. *insolitum* Card., Schilde, Anvers, Belgium, Oct. 1925, leg. M. de Decker and J.H., com. J.H.

S. subsecundum Nees, var. *tenellum* W., Redgate (2), Aug. 1924, R.W.S. ; var. *intermedium* W., Grünhagen, E. Prussia, Sept. 1912, leg. Dietzow, com. J.W.

S. inundatum Russ. & W., Nakensdorf, Mecklenberg-Schwerin, Germany, July 1907, leg. Hahn, com. J.W. ; Titterstone, Clee Hill (40*), Sept. 1925, E.A. ; Wyre Forest (40), Nov. 1925, E.A. ; Westburton (45), April 1925, R.J. ; var. *ovalifolium* W., *f. robustum* W., Carnkief Moor (1), April 1925, F.R. ; var. *diversifolium* W., *f. eurycladum* W., Cappellen, Belgium, Aug. 1925, J.H.

S. auriculatum Schp., Crunwre (45), April 1925, R.J. ; Titterstone Clee Hill (40),* Sept. 1925, E.A. ; var. *tenellum* W., Craddick Moor, St. Cleer (2), Aug. 1924, R.W.S. ; near v. *tenellum* Redgate (2), Aug. 1924, R.W.S. ; var. *ovatum* W., *f. pallidoflavum* W., Fowey Valley, Aug. 1924, R.W.S. ; Redgate (2), Aug. 1924, R.W.S., “no form,” W.R.S. ; *idem* “an erect branched form,” W.R.S. ; *f. pungens* W., Westmalle, Belgium, Oct. 1923, J.H. ; var. *laxifolium* W., Marros (44), April & Dec. 1925, R.J., det. W.R.S. “On reconsideration I think this is *S. crassicladium* v. *diversifolium*.” W.R.S.

S. aquatile W., Cheeswring (2), Sept. 1924, R.W.S. ; var. *sanguinale* W., New Forest (11), June 1922, leg. W.R.S., com. E.E.

S. contortum Schulz, St. Cleer (2), Aug. 1924, R.W.S. “This is *S. auriculatum* v. *ovatum*,” W.R.S. ; var. *gracile* W., *f. falcatum*, *sf. virescens* W., Neukloster, Mecklenberg-Schwerin, Germany, leg. Hahn, com. J.W. ; *sf. viride-fuscescens* W., *idem*, J.W.

S. platyphyllum W., St. Cleer (2), Aug. 1924, R.W.S., det. W.R.S. "On reconsideration I think this is *S. crassicladium* v. *intermedium*, near f. *ovalifolium*," W.R.S.

S. crassicladium W., var. *magnifolium* W., Schilde, Belgium, Oct. 1925, J.H.; near f. *fluctuans* W., Cheesewring Marshes & Craddick Moor (2), Aug. 1924, R.W.S.; f. *ionchocladium* W., Goathland (62), Oct. 1925, W.B.; var. *intermedium* W., Cheesewring Marshes (2), Aug. 1924, R.W.S.; f. *leptocladium* W., Craddick Moor (2), Aug. 1924, R.W.S.; Schooten, Anvers, Belgium, Sept. 1923, J.H. "One packet is correct, the rest contain var. *diversifolium* W.," W.R.S.

S. Camusii W., var. *plumosum* W., Cheesewring Marshes (2), Aug. 1924, R.W.S.; var. *pyrenaicum* W., Cheesewring Marshes (2), Sept. 1924, R.W.S.

S. rufescens N. & H., var. *magnifolium* W. f. *virescens* W., Schooten, Belgium, Oct. 1925, J.H. "A very interesting plant with male flowers in abundance. Both stem and branch leaves are a little larger than as described by Warnstorff, but otherwise it agrees very well with Warnstorff's description. I have compared it with a specimen in Warnstorff's Exsiccata at the British Museum, and, making allowance for the difference which the copious male flowers would make, it may well pass for f. *virescens*. I find *S. rufescens* a much rarer plant in Great Britain than is generally supposed," W.R.S.; f. *uliginosum* W., Brasschaet, Belgium, Nov. 1925, and f. *fuitans* W., Cappellen, Belgium, Oct. 1925, J.H. "Both these are *S. obesum* W.," W.R.S.

S. papillosum Lindb., var. *normale* W., Cheesewring (2), July 1921, leg. W.R.S., com. E.E.; f. *majus* Grav., sf. *elegans* Wheld., Calmpthout, Belgium, July 1925, J.H.; f. *brachycladium* W., Cappellen, Belgium, June 1925, J.H.; sf. *pallescens*, Fairwood Comm. (41), July 1925, R.J., det. W.R.S. "This plant was named on a single specimen, but on seeing a series one is compelled to revise the naming. The plants are evidently one gathering and pass well for the v. *normale*, but seem intermediate between forms *squarrosulum* & *brachycladium*. The distinct brown colour in the capitulum quite rules out sf. *pallescens*," W.R.S.; f. *confertum* W. sf. *pallidum* Wheld., Cheesewring (2), July 1921, leg. W.R.S., com. E.E.; var. *sublaeve* Limpr., Esher Comm. (17), Dec. 1924, D.G.C.; f. *validum* W., Cappellen, Belgium, June 1925, J.H.; sf. *submersum* W., Sarnau (44), April 1925, R.J.; f. *breviramosum* W., Cappellen, Belgium, Oct. 1919, J.H.; sf. *heterocladium* W., Cheesewring (2), July 1921, leg. W.R.S., com. E.E.

S. cymbifolium Ehrh., Doone Valley (4), Sept. 1925, c.fr., D.G.C. "This is v. *pallescens* W.," W.R.S.; Pulverbatch (40), Oct. 1892, leg. R. de G. Benson, com. H.A.H.; "an intermediate

form," Treskieve, St. Cleer (2), Sept, 1924, R.W.S.; var. *pallescens* W., Doone Valley (4), Sept. 1925, c.fr., D.G.C. "A beautiful plant well prepared. Some of the packets contain plants showing a blue-green tint; I think Warnstorf would have placed this under *S. cymbifolium* only," W.R.S.; f. *laxum* W., Knighton Heath (3), July 1918, leg. W.R.S., com. E.E.; var. *fuscescens* W., Cwm-y-glo (49), Aug. 1924, D.G.C., "This is *S. papillosum*, v. *leve*. f. *subfuscum*." W.R.S.; Trekiese, St. Cleer (2), Sept. 1924, R.W.S.; var. *rubescens* W., f. *versicolor* Wheld., Common Moor & Trekiese, St. Cleer (2), Aug. & Sept. 1924, "no var. or form," W.R.S.

S. (sp.)? — Glen between S. Barrule & Grenaby, Isle of Man (71), leg. J. A. Wheldon, no date, com. W.G.T., "This is *S. inundatum* var. *ovalifolium*," W.R.S.

True Mosses

European (British and Continental)

Andreaea petrophila Ehrh., Titterstone Clee Hill (40), Sept. 1925, E.A. ; Brückenberg, Riesengebirge, Germany, Aug. 1908, J.W. ; Albula Pass, Switz., June 1925, P.W.M.R.

A. alpina Sm., Beinn Glas & Ben Lui, Perthshire, July 1894 & 1896, leg. J. Fulton, com. D.R.R. ; Langdale Head (69), Oct. 1925, C.H.B.

A. Rothii W. & M., Bowfell (69), Oct. 1925, C.H.B. ; Yes Tor (4), April 1925, C. A. Cooper.

A. Blyttii Schp., Lysksele Lappmark, Sweden, July 1924, C.S.

Oligotrichum hercynicum Lam. (*O. incurvum* Lindb.), Sidlaw Hills (90), June 1894, leg. J. Fulton, com. D.R.R. ; Glas Thulachan, Perthshire, July 1925, D.R.R. ; var. *laxum* Braithw., Clogwyn, Snowdon (49), Aug. 1919, leg. J. A. Wheldon, com. W.G.T.

Polytrichum nanum Neck., Dartford Heath (16), Dec. 1925, St.J.M. ; Wyre Forest (40), Nov. 1925, E.A.

P. aloides Hedw., Lambourne (1), Nov. 1925, F.R.

P. alpinum L., Ben Lawers (88), July 1889, leg. J. Fulton, com. D.R.R. ; Carn-nan-Sionnach, Perthshire, July 1925, D.R.R. ; St. Andreasberg, Harz Mts., Germany, July 1922, J.W.

P. hyperboreum R. Brown., Lycksele Lappmark, Sweden, July 1924, C.S.

P. capillare Michx., Lycksele Lappmark, Sweden, July 1924, C.S.

P. strictum Banks, Ben Lawers (88), July 1890, leg. J. Fulton, and Craig Chailleach (88), July 1891, leg. R.M., com. D.R.R. ; Bowfell (69), Sept. 1925, C.H.B. ; Katzensee, Zurich, Switz., — 1925, "Some of these specimens seem to me to have their leaves markedly less imbricate than usual. I suppose they are transitions towards *P. juniperinum*," P.W.M.R.

P. gracile Hpe., Everingham (61), May 1925, W.H.B.

Buxbaumia aphylla Brid., Kellergerg near Bengel, & Westerswald, Rhineland, Dec. 1924 & May 1925, H.A.

Diphyscium foliosum W. & M., La Flocellière, Vendée, France, Nov. 1924, J.C.

Archidium alternifolium Schp. (*A. phascoides* Brid.), Pouzanges, Vendée, France, Nov. 1924, J.C.

Pleuroidium axillare Lindb., Castleton Clifford (36), Aug. 1925, C.H.B.

Ditrichum tortile Lindb. (*Leptotrichum tortile* Hampe), Schooten, Anvers, Belgium, April 1909, H.V.d.B. ; Neuruppin, Brandenburg, Germany, — 1886, J.W. "This looks to me more like a *Dicranella*. I should name it, from the shape of the capsule, the

habit and the peristome, *Dicranella varia*," G.B.S. "This plant is certainly *D. varia* as suggested," W.E.N.

D. homomallum Hampe (*Leptotrichum homomallum* Schp.), Schooten, Anvers, Belgium, Aug. 1915, H.V.d.B.

D. zonatum var. *scabrifolium* Dixon, Clogwyn, Snowdon (49), Sept. 1924, D.G.C.

D. subulatum Hpe., La Châtaigneraie, Vendée, France, April 1924, J.C.

D. pallidum Hpe., Faymoreau, Vendée, France, March 1924, J.C.

D. flexicaule Hpe., Clova Mts. (90), July 1924, D.R.R. ; Ben Gulaben, Perthshire, July 1925, D.R.R. ; Craig More (87), July 1925, male plants, D.R.R. "Leaves less elongate than usual," G.B.S. ; Pontarlier & Les Hôpitaux-Neufs, Doubs, France, June 1924, leg. V. Madiot, com. J.C. ; Saye, Haute-Saône, France, March 1924, leg. V. Madiot, com. J.C. ; Maloja, Switz., Aug. 1924, c.fr., leg. J.B.D. & H.N.D., com. H.N.D. ; var. *densum* B. & S., Silverdale (69), Sept. 1925, C.H.B.

Swartzia montana Lindb., Glendole (90), July 1924, D.R.R. ; Ingleton (64), April 1925, A.S. ; Ben Lawers (88), Sept. 1925, J.L.O'L. ; (*Distichium capillaceum* B.E.), St. Andreasberg, Harz Mts., Germany, July 1922, J.W. ; Grisons & Pontresina, Switz., Aug. 1885, leg. G. Dens & H.V.d.B., com. H.V.d.B.

Seligeria pusilla B.E., Pouillé, Vendée, France, May 1924, J.C.

Selania cesia Lindb., Lycksele Lappmark, Sweden, July 1924, C.S.

Rhabdoweisia crenulata Jameson, Langdale (69), Oct. 1925, C.H.B. ; Val du Lys, Pyrenees, May 1925, H.N.D.

Cynodontium polycarpum Schp., Chamonix, France, June 1925, C.H.B.

C. gracilescens Schp., Maloja, Switz., July 1924, leg. H.N.D., H.H.K. & J.B.D., com. J.B.D.

C. virens Schp., Ben Lawers (88), July 1889, leg. J. Fulton, com. D.R.R. ; (*Oncophorus virens* (Sw.) Brid.), Tornea Lappmark, Sweden, Aug. 1923, C.S.

C. Wahlenbergii Ren. & Card., Loch-na-nean, Perthshire, July, 1925, D.R.R. "I think this plant goes better under *C. virens*. The leaf base is hardly to be called obovate, and the leaf gradually tapers from the base without forming anything in the way of a shoulder," G.B.S.

Dichodontium pellucidum Schp., Pike o'Blisco (69), Oct. 1925, c.fr. C.H.B. ; Glenariff (I. 39), July 1924, E.A.R. ; var. *fagimontatum* Brid., Tinto Muir (85), June 1924, leg. D.R.R., com. W.G.T. ; var. *compactum* Schp., Berwig (50), Aug. 1914, leg. D.A.J. & E.A.R., com. E.A.R.

Dicranella varia Schp., Lautenthal, Harz Mts., Germany, July

1921, J.W. "A very unusual form," G.B.S.

Blindia acuta B. & S., Glendole (90), July 1924, D.R.R.; Loch na-Nean, Perthshire, July 1925, D.R.R.; Bodo, Norway, July 1925, M.J.K.; Ballon de Servance, Haute Saône, France, June 1924, leg. V. Madiot, com. J.C.

Dicranoweisia crispula Lindb., Craig More (87), July 1925, D.R.R.; St. Luc, Valais, Switz., July 1912, P.G.M.R.

Campylopus subulatus Schp., Erwood Bridge (43), Aug. 1925, C.H.B.; Blea Tarn (69), Oct. 1925, C.H.B.; near Builth (42), July 1903, leg. H.N.D., com. A.W.

C. Schimperii Milde, Ben Lawers (88), July 1889, leg. W. Smith, com. D.R.R.

C. flexuosus Brid., Clova Mts. (90), July 1892, leg. J. Fulton, com. D.R.R. "This is not a *Campylopus*, but *Dicranum elongatum*. Note the elongated porose basal cells and the auricles of large inflated cells," G.B.S.; var. *paradoxus* Husn., Esher Comm. (17), Dec. 1924, D.G.C.; Cappellen, Sept. 1912, and Esschen, Anvers, Belgium, June 1912, H.V.d.B.; var. *zonatus* Limpr., Rydal and Blea Tarn (69*), Oct. 1925, C.H.B.

C. pyriformis Brid. (*C. turfaceous* B.E.), Faymoreau, La Fougère and Sérigué, Vendée, France, April 1924 & March 1925, J.C. "I think all these packets contain a stunted form of *C. fragilis* and not *C. pyriformis*. The leaves are not very deciduous, and have elongated bases which are narrowed at the insertion," G.B.S.

C. fragilis B. & S., Mervent, Vendée, France, April 1924, J.C.

C. Shawii Wils., Adrigole (I. 3), July 1925, W.E.N., H.H.K. & J.B.D.; Staffin, Skye (104), July 1893, leg. H.N.D., com. A.W.; var. *hamatus* Schp., North Uist, Hebrides (110), Aug. 1902, leg. W. West & J. Stirton, com. H.N.D. per A.W.

C. setifolius Wils., Tore Mt. & Mangerton (I. 2.), July 1925, J.B.D.

C. atrovirens De Not., Langdale (69), Oct. 1925, C.H.B.; var. *maticus* Milde, Skipwith Comm. (61), Oct. 1915, H.S. "From the colour and the not much elongated leaves, I should call this *C. brevipilus*. The narrow nerve supports this view," G.B.S. "This plant is certainly *C. brevipilus*. The general appearance suggests this, and the nerve section leaves no doubt upon the subject," W.E.N.

C. introflexus Brid., Eagle's Nest & The Long Range (I.1), July 1925, leg. W.E.N., J.B.D. & H.H.K., com. J.B.D. & H.H.K.; Penterth (1), July 1886, leg. H.N.D., com. A.W.; Napoule, near Cannes, S. France, Jan. 1926, D.A.J.

C. brevipilus B. & S., Sidlaw Hills (90), Aug. 1894, leg. J. Fulton, com. D.R.R.; Ben More (88), July 1897, leg. H.N.D., com. A.W.; Calmpthout and Westmalle, Anvers, Belgium, Oct.

1922 & Aug. 1906, leg. R. Naveau, J.H. & H.V.d.B., com. H.V.d.B.; var. *auriculatus* Ferg., Adrigole (I.3), July 1925, J.B.D.

Dicranodontium longirostre B. & S., Langdale (69), Oct. 1925, C.H.B.

Dicranum fulvellum Smith, Scafell Pike (70), and Bowfell (69), Oct. 1925, C.H.B.

D. falcatum Hedw., Lycksele Lappmark, Sweden, July 1924, C.S.

D. schisti Lindb., Cheviot (68*), Sept. 1925, J.B.D.

D. Starkei Web. & Mohr, Beinn Gulaben, Perthshire, July 1925, D.R.R.

D. angustum Lindb., Tervola, Ostrobothnia, Finland, July 1925, M.J.K.

D. Mühlenbeckii B. & S., Les Bois, Chamonix, France, June 1925, C.H.B.; St. Luc, Valais, Switz., June 1914, P.G.M.R. 227.

D. scoparium var. *paludosum* Schp., Crinkle Crags (69), Oct. 1925, C.H.B. "More like v. *scoparium*," G.B.S. "Nerve not serrate and scarcely winged at the back. I should have said *D. Bonjeani*," H.N.D.; var. *curvulum* Schp., St. Bretton, Haute Saône, France, Sept. 1924, leg. V. Madiot, com. J.C.

D. fuscescens Turn., Carn Bhinnean, Perthshire, July 1925, D.R.R.; Flégère, Chamonix, France, June 1925, leg. C.H.B., det. W.E.N.

D. Scottianum Turn., Tore Glen (I. 2), July 1925, J.B.D.

D. flagellare Hedw., Bois de Seye & Grattery, Haute Saône, France, June & Dec. 1924, leg. V. Madiot, com. J.C.

D. montanum Hedw., Faymoreau & Serigué, Vendée, France, March 1924 & 1925, J.C.; Vauchoux, Haute Saône, France, Jan. 1925, leg. V. Madiot, com. J.C.; Les Praz de Chamonix, France, June 1925, C.H.B.; Uetliberg, Zurich, Switz., April 1925, P.W.M.R.

D. uncinatum C.M., Slievemore (I. 27), July 1925, J.B.D.

D. viride Schp., Grattery, Villers-sur-Port and Seye, Haute Saône, France, April, Sept. & Oct. 1924, leg. V. Madiot, com. J.C.

D. longifolium Ehrh., Les Praz de Chamonix, June 1925, C.H.B.

D. albicans B. & S., St. Luc, Valais, Switz., June 1914, P.G.M.R. 311; (*D. enerve* Thed.), Lycksele Lappmark, Sweden, July 1924, C.S.

Leucobryum glaucum Hampe, Bois de Gedinne, Belgium, April 1889, leg. A. Tonglet, com. H.V.d.B.

Fissidens Arnoldii Ruthe, Joinville-le-Pont, Seine, France, Feb. 1920, leg. Dismier, com. E.A.R. (*microscope slides*). "This is a plant which should be looked for in this country. All the fruiting stems are true *F. Arnoldii*, but in one or two of the slides there are sterile stems of *F. crassipes*," W.E.N.

F. algarvicus Solms, Montournais, Vendée, France, March 1924, J.C.

F. incurvus Starke, St. Amand-sur-Sèvre, and Faymoreau, Vendée, France, March 1925 & 1921, J.C.

F. impar Mitt., Faymoreau and Marsais-St. Radegonde, Vendée, France, March 1924 & 1925, J.C. "Quite correct, I think. Brotherus gives *F. impar* as a synonym of *F. bryoides* v. *intermedius* Ruth." H.N.D.

F. rivularis Spruce, Fairlight Glen (14), June 1925, C. A. Cooper, "There is certainly some *F. rivularis* here, but the specimens are poor," G.B.S.

F. osmundoides Hedw., Tilberthwaite Glen and Pike o'Blisco (69), Oct. 1925, C.H.B.

F. adiantoides Hedw., Naburn (62), April 1917, c.fr. H.S.

F. decipiens De Not., Serigué, Vendée, France, March 1925, J.C.

Grimmia apocarpa Hedw., Serigué, Vendée, France, March 1925, J.C.; Seye & Conflaudey, Haute Saône, France, July 1924, leg. V. Madiot, com. J.C.

G. crinita Brid., Costabelle, near Hyères, S. France, Jan. 1926, C.H.B.

G. incurva Schwaeg., Scafell Pike (70), Oct. 1925, C.H.B.; Clee Hill (40), Sept. 1925, J.B.D.; Titterstone Clee Hill (40), Sept. 1925, E.A.; Glyder Fach (49), Sept. 1924, D.G.C.

G. funalis Schp., Loch Brandy (90), July 1924, D.R.R. "Unusually green in colour," G.B.S.; Craig More (87), July 1925, & Meall-nan-Tarmachan (88), Aug. 1925, D.R.R.

G. torquata Hornsch, Glendole (90), July 1924, and Craig More (87), July 1925, D.R.R.; Cheviot (68), Sept. 1925, J.B.D.

G. orbicularis Bruch., Ste. Luinie, Lozère, and Peyreleau, Aveyron, France, July 1924, leg. G. Durand, com. J.C.; Ponzanges, Vendée, France, Nov. 1924, J.C.; Annot, Basses Alpes, France, May 1925, leg. C.H.B., det. W.E.N.

G. trichophylla Grev., Chagford (4), March 1924, L.H.P.; Ponzanges, Vendée, France, Nov. 1924, J.C.; Serigué, Vendée, France, March 1925, J.C. "I think this is not *G. trichophylla* but *G. subsquarrosa*. The cells at the base of the leaves are shortly rectangular and not elongate as in *G. trichophylla*, while the stems are slender and the leaves squarrose," G.B.S. "This plant no doubt shows some approach to what is known as *G. squarrosa* in the usually rectangular basal cells, but I should not quarrel with its identification as *G. trichophylla*. There is a considerable variation in the basal cells and at the best I do not think that *G. squarrosa* is more than a form of *G. trichophylla*. Loeske in his *Grimmiaceæ* puts it as a mere form, and Mr. Dixon says that there is every reason to think it merely a hygromorphous form

of *G. trichophylla*" (see Handbook, Ed. 3) W.E.N.

G. Stirtoni Schp., Aberglaslyn (49), Sept. 1924, W.B. "I cannot find any *G. Stirtoni* in these packets. In some of them there is a tuft of *Grimmia*, but this is *G. trichophylla*; otherwise, all the packets contain forms of *Rhacomitrium heterostichum*," G.B.S.

G. decipiens Lindb., Traprain Law (82), June 1925, J.B.D.; Sérigué, Vendée, France, March 1925, J.C.

G. elatior B. & S., Annot, S. France, May 1925, C.H.B.; Maloja, Switz., July 1924, leg. H.N.D., H.H.K. & J.B.D., com. J.B.D.; St. Luc, Valais, Switz., June 1914, P.G.M.R.

G. Hartmani Schp., Vallee du Rahin and Ballon de Servance, Haute Saône, France, June 1924, leg. V. Madiot, com. J.C.

G. patens B. & S., Craig More (87), July 1925, c.fr., D.R.R.; Cheviot (68), Sept. 1925, J.B.D.; Bodo, Norway, July 1925, M.J.K.; Grand St. Bernard, Switz., July 1922, P.G.M.R. "This plant, which was discussed in last year's report, has been referred to Herr Loeske, who says:—'Your moss is a hard nut to crack. After lengthy comparisons I must refer it to *Rhacomitrium sudeticum* var. *validior* Fürnr. As *Rh. sudeticum*, *heterostichum*, *affine* and *obtusum* are probably only one immensely polymorphic species, my opinion is not very different from that of Mr. Dixon,'" P.G.M.R.

G. commutata Hübn., Tintern (35), April 1925, W.E.N.; Laubach, Hesse, Germany, March 1883, leg. G. Roth, com. J.W.; Annot, S. France, May 1925, leg. C.H.B., det. W.E.N.

G. montana B. & S., Traprain Law (82), June 1925, c.fr. J.B.D.; Church Stretton (40), May 1916, E.A.R.

G. alpestris Schleich., Les Praz & Argentières, Chamonix, France, June & July 1925, C.H.B. "I think these are correct, but the upper parts of the leaves are faintly marked with longitudinal lines, so that the moss may be *G. subsulcata* Limpr.," G.B.S. "Mr. Savery draws attention to the longitudinal striæ in the upper portions of the leaves. Such striæ are found both in *G. alpestris* and *G. subsulcata*, but a more important distinction lies in the presence or absence of stomata at the base of the capsule. Such stomata are present in *G. subsulcata*, but absent in *G. alpestris*. I have examined several capsules without finding stomata, which are fairly easy to see in *G. subsulcata*, and judged by this evidence the plants in question should be *G. alpestris* as originally suggested by Mr. Binstead," W.E.N.

G. leucophæa Grev. (*G. campestris* Burch.), Cavallière, Grimaud and Annot, S. France, Feb., March & April 1925, C.H.B. "All these specimens undoubtedly belong to *G. leucophæa* Grev. I believe that *G. campestris* Burchell is only a synonym," G.B.S.

G. elongata Kaulf., Snowdon (49), Sept. 1924, J.L.O'L.; Crinkle Crag (69), Oct. 1925, C.H.B. "I think correctly

named, but unusual in that the hyaline points are almost absent. Most of the leaves are quite obtuse, only a very few showing a minute point formed of one or more cells. The colour also is unusually black," G.B.S. "I think this is rightly referred to *G. elongata*, of which it is a forma *epilosa*. British specimens generally compare unfavourably with the plant from central Europe or Scandinavia. The British plant is often very deep coloured and depauperate, but it does not depart in any important features from the type," W.E.N.

Rhacomitrium protensum Braun, New Galloway (73), Feb. 1897, c.fr. leg. J. McAndrew, com. D.R.R.

R. sudeticum B. & S., Ben Lawers (88), July 1890, leg. J. Fulton, com. D.R.R. ; Alpe Darenge, L. Como, Italy, Aug. 1898, leg. A. Arteria, com. J.W. "I should have said *R. heterostichum* (*R. affine*) var. *gracilescens*," H.N.D. ; Josephinenhütte, Riesengebirge, Germany, July 1909, J.W. "I think that this is merely a small form of *R. heterostichum* ; the stem is too much branched for *R. sudeticum*," G.B.S. "I should agree with Mr. Savery that the branching will not do for *R. sudeticum* ; a small form of *R. heterostichum* (*R. affine*)," H.N.D.

R. canescens Brid., Pouzanges, Vendée, France, Nov. 1924, J.C. ; Malmédy, Belgium, June 1925, J.H. "This is *R. lanuginosum*. Note the non-papillose cells and the long upper ones," G.B.S. ; var. *ericoides* Web., Calmpthout, Anvers, Belgium, May 1889, H.V.d.B.

Hedwigia ciliata Ehrh., near Killin (88), Aug. 1925, D.B.B. ; La Flocellière, Vendée, France, Nov. 1924, J.C. ; St. Bretton, Haute Saône, France, Sept. 1924, leg. V. Madiot, com. J.C.

H. imberbis Spruce, Traprain Law (82), June 1925, J.B.D.

Acaulon muticum C.M., Cap d'Antibes, Alpes Maritimes, S. France, Jan. 1926, D.A.J. "Mr. Jones suggests that this material may be mixed with the var. *minus*. I did not see any of this on my examination, but some of the envelopes contain an admixture of *A. triquetrum*. The material has suffered a good deal in transit and is almost reduced to powdery earth in some envelopes," W.E.N.

A. triquetrum C.M., Cap d'Antibes, S. France, Jan. 1926, D.A.J.

Pottia bryoides Mitt., Cleethorpes (54), May 1925, G.H.A.

P. Heimii Fürnr., near Strood (16), April 1925, St.J.M.

P. truncata Bry. Eur. (*P. truncatula* Lindb.), Wilryk, Anvers, Belgium, Oct. 1884, H.V.d.B.

P. viridifolia Mitt., Penzance (1), March 1922, L.H.P.

P. Wilsoni B.E., Serigué, Vendée, France, March 1925, J.C.

P. minutula Fürnr., Eyemouth (81), Jan. 1925, J.B.D. ; Cap d'Antibes, S. France, Jan. 1926, D.A.J.

P. commutata Limpr., Downs near Freshwater Bay (10), Feb. 1924, J.G.

P. caespitosa C.M., Malling Hill, Lewes (14), March 1904, W.E.N.

P. lanceolata C.M., Afton Down near Freshwater (10), Jan. 1925, J.G.; Bourman, Vendée, France, March 1925, J.C.; Edeghem, Anvers, Belgium, April 1918, H.V.d.B. "I make this plant *P. bryoides* Mitt., of which it has the characteristic capsules and spores," W.E.N.

P. latifolia C.M., v. *pilifera* Schp., Piz Longhin, Maloja, Switz., July 1924, J.B.D.

Tortula cernua Lindb. (*Desmatodon cernuus* Bry. Eur.), Schooten, Anvers, Belgium, Sept. 1925, H.V.d.B.

T. atrovirens Lindb., St. Maxime, Var, S. France, March 1925, C.H.B.

T. cuneifolia Roth, Hyères, S. France, Jan. 1925, C.H.B.; Bormes, S. France, Feb. 1925, C.H.B.; (*Barbula cuneifolia* Brid.), St. Amand-sur-Sèvre, & Sérigué, Vendée, France, March 1924 and 1925, J.C.

T. Vahliana Wils., near Dartford (16), Dec. 1925, St.J.M.

T. marginata Spruce, Sidmouth (3), April & June, 1925, L.H.P.; Vence, S. France, April 1925, C.H.B.; (*Barbula marginata* B.E.), Faymoreau & Sérigué, Vendée, France, March 1924 & 1925, J.C.

Tortula canescens Mont., St. Maxime, Var, S. France, March 1925, C.H.B.

T. subulata (L), Hedw., Frascati, Italy, April 1895, leg. M. Fleischer, com. J.W.; (*Barbula subulata* P.B.) v. *integrifolia* N. Boul., Wyneghem, Anvers, Belgium, Sept. 1916, H.V.d.B.; f. *submucronifolia*, ster., Ballangen, Nordland, Norway, Aug. 1925, M.J.K. "No author's name is given for this forma which I am unable to trace in any literature available to me. It is clearly a form of *T. subulata*, and I cannot see much approach to *T. mucronifolia* Schwæg. The leaves are distinctly margined and the nerve is excurrent in a short mucro only. The descriptions of the specimens as sterile is clearly a slip, as they are all fruiting well," W.E.N.

T. mutica Lindb. (*Barbula latifolia* B.E.), entre Anvers & Hoboken, Belgium Nov. 1919, H.V.d.B.

T. alpina var. *inermis* De Not., Sion, Valais, Switz. June 1914, P.G.M.R. 241.

T. laevipila Schwaeg. (*Barbula laevipila* Brid.), entre Anvers & Hoboken, Belgium, Nov. 1919, H.V.d.B.

T. intermedia Berk. (*Barbula intermedia* Brid.), Pouzanges, Vendée, France, Nov. 1924, J.C.; Port-sur-Saône, France, Jan. 1925, leg. V. Madiot, com. J.C.

T. ruralis Ehrh., Sallagh Braes (I.39), June 1925, W.R.M.

"This is a rather unusually fine form of *T. princeps* De Not. It is readily distinguished from *T. ruralis* by its larger size, the reddish colour of the leaves, which also differ in shape, areolation and direction, and by the synoicous inflorescence," W.E.N.

T. ruraliformis Dixon, Portrush (1. 39), July 1924, E.A.R.

T. norvegica Wahl. (*T. aciphylla* B. & S.), Schlern, Dolomites, Aug. 1925, P.W.M.R.

Barbula lurida Lindb., Cockington (3), April 1924, L.H.P.; Vence, S. France, May 1925, C.H.B.; (*Didymodon luridus* Hornsch.), St. Hilaire-des-Loges, La Châtaigneraie, and Sérigué, Vendée, March & April 1924 and March 1925, J.C.

B. rubella Mitt. (*Didymodon rubellus* B.E.), Nieuwmaer, Anvers, Belgium, April 1885, H.V.d.B.

B. tophacea Mitt., Barmouth (48), June 1906, leg. E. Pattison, com. H.A.H.; (*Didymodon tophaceus* (Brid.) Jur.) v. *elatus* Boul., Rapallo, Italy, Aug. 1897, leg. M. Fleischer, com. J.W.

B. fallax Hedw., Calmpthout & Nieuwmaer, Anvers, Belgium, Oct. 1882 & April 1885, H.V.d.B.

B. rufa Jur., Bodo, Nordland, Norway, July 1925, M.J.K. "I find the cells of this plant rather larger than those of *B. rufa* from Central Europe, and the plant has also rather a looser habit reminding one of *B. Kuemkeri* Loesk. & Osterw. On my referring it to Mr. Dixon, he said: 'I should call this *B. rufa* showing an approach to *B. Kuemkeri* in the rather large cells,'" W.E.N.

B. vinealis Brid., Montournais, Vendée, France, March 1924, J.C.

B. sinuosa Braithw., Tintern Abbey (35), Aug. 1925, W.B.

B. Hornschuchiana Schulz., near Watford (20*), May 1921, A.S.

B. revoluta Brid., Charlton Kings (33), Aug. 1925, F.R.; near Vence, S. France, April 1925, C.H.B.

B. Ehrenbergii (Lor.) Flsch., Rapallo, Italy, leg. M. Fleischer, com. J. W.

Weisia crispata C.M., Castle Barrow, Silverdale (60), March 1910, leg. J. A. Wheldon, com. W.G.T. "Although the peristome in this plant is often rather reduced in many capsules, it is fairly long and reddish in most capsules. I should refer the plant to *W. viridula* Hedw. The leaves are also characteristic of this species," W.E.N.

W. viridula Brid., Sérigué, Vendée, France, March 1925, J.C.

W. tenuis C.M. (*Gyroweisia tenuis* Schp.), Payré-sur-Vendée, France, March 1924, J.C.

W. calcarea C.M. (*Gymnostomum calcareum* N. & H.), Payré-sur-Vendée, France, March 1924, J.C.; var. *viridula* C.M., Torquay (3), March 1916, W.E.N.

W. curvirostris C.M., Craig More (87), July 1925, D.R.R.;

(*Hymenostelium curvirostre* Lindb.), Bodo, Nordland, Norway, July 1925, M.J.K. ; var. *commutata* Dixon, Ingleton (64), April 1925, leg. D.A.J. & W.H.B., com. W.B.

Trichostomum crispulum Bruch., Sérigué, Vendée, France, March 1925, J.C. ; Vence, Alpes Maritimes, France, May 1925, C.H.B. ; forma? Tilberthwaite, near Coniston (69*), Oct. 1925, C.H.B. "I make this plant the var. *nigro-viride* Braithw.," W.E.N. ; var. *viridulum* Braithw., Pinhay Cliffs (3), Nov. 1925, leg. H.H.K. & W.E.N., com. W.E.N.

T. mutabile Bruch., Polperro (2), Nov. 1925, F.R. ; Faymoreau and Sérigué, Vendée, France, March 1924 & 1925, J.C.

T. tenuirostre Lindb., Mangerton (I. 2), July 1925, leg. W.E.N., H.H.K. & J.B.D., com. J.B.D. ; Pike o'Blisco, Langdale (69), Oct. 1925, C.H.B. "I should refer this plant to the var. *Holtii* Dixon," W.E.N. ; var. *irriguum* Limpr., Val d'Oo, Luchon, Pyrenees, May 1925, H.N.D.

T. hibernicum Dixon, Cromaglow & Eagle's Nest (I. 1), July 1925, leg. J.B.D., H.H.K. & W.E.N., com. J.B.D. & W.E.N.

T. inclinatum Dixon, near Annot, S. France, May 1925, C.H.B.

T. tortuosum Dixon, Glen Beg, Perthshire, July 1925, D.R.R. ; (*Tortella tortuosa* Limpr.), St. Andreasberg, Harz Mts., Germany, July 1922, J.W.

Pleurochaete squarrosa Lindb., Pouzanges, Vendée, France, Nov. 1924, J.C. ; Cap d'Antibes, Alpes Mar., S. France, Jan. 1926, D.A.J.

Cinclidotus riparius Arn., Mervant, Vendée, France, Sept. 1924, J.C.

C. aquaticus B.E., Source d'Arcier, Doubs, France, Sept. 1923, leg. G. Gardet, com. J.C.

Encalypta vulgaris Hedw., Pouzanges & Sérigué, Vendée, France, Nov. 1924 & March 1925, J.C.

E. rhabdocarpa Schwæg., Ben Lawers (88), July 1899, leg. J. Fulton, com. D.R.R. ; Rothorn, Switz., July 1911, E.A.R.

E. affinis Hedw. (*E. apophysata* Bry. Germ.), Ballangen, Nordland, Norway, July 1925, M.J.K.

E. streptocarpa Hedw., Scotsraig, Fife, May 1890, leg. J. Fulton, com. D.R.R. "Nerve less scabrous than usual," W.E.N.

Zygodon lapponicus B. & S., Ben Lawers (88), July 1887, leg. J. Fulton, com. D.R.R.

Z. Mougeotii B. & S., Tilberthwaite Ghyll (69), Oct. 1925, C.H.B. "This plant is much mixed with *Blindia trichodes*, to which all the fruit which I examined belongs," W.E.N.

Z. viridissimus R. Brown, Ballina (I. 28), Jan. 1925, D.B.B. ; Pouzanges, Vendée, France, Nov. 1924, J.C. ; (*Z. eu-viridissimus* Malta, v. *vulgaris* Malta), Dinish Island, Killarney, Aug. 1924, P.G.M.R. 2225, det. Malta, distributed in Bauer's Musci Europei

Exsiccata; (*Z. eu-viridissimus* Malta, var. *occidentalis* (Correns) Malta), Tremadoc Woods (49), July 1925, P.G.M.R. 2499, transiens in f. *Stirtoni* (Schp.), Malta; Chadworth (33), Aug. 1925, leg. D.A.J., F.R. & P.G.M.R. 2586, com. P.G.M.R.; Whittingham (22), Oct. 1925, P.G.M.R.; v. *rupestris* Lindb., Wormit Bay (85), June 1890, leg. J. Fulton, com. D.R.R.

Ulota phyllantha Brid., Bodo, Nordland, Norway, July 1925, M.J.K.

U. Hutchinsiae Hamm., Loch Acorymore, Achill (I. 27), July 1925, leg. W.E.N., H.H.K. & J.B.D., com. J.B.D.

O. cupulatum Hoffm., Spilsby, June 1925, G.H.A.; Annot, S. France, May 1925, C.H.B.

O. leiocarpum B. & S., Chagford, Devon, March 1924, L.H.P.

O. Lyellii H. & T., Killin (88), Aug. 1925, D.B.B.

O. Blyttii Schp., Salten, Nordland, Norway, July 1925, M.J.K.

O. rivulare Turn., Castleton, Clifford & Winforton (36), Aug. & Sept. 1925, C.H.B.

O. Sprucei Mont., Ross (36), Aug. 1925, C.H.B.; Breinton, Hereford (36), Aug. 1925, leg. C.H.B. & A.S., com. A.S.

O. Schimperi Hamm., Annot, S. France, May 1925, C.H.B., com. L.H.P.

O. stramineum Hornsch., College Water (68), Sept. 1925, J.B.D.

O. pallens Bruch., Les Praz de Chamonix, France, June 1925, C.H.B.

O. tenellum Bruch., Vence, S. France, April 1925, C.H.B.

O. obtusifolium Schrad., Annot, S. France, May 1925, C.H.B.

Schistostega osmundacea W. & M., Siegen, Germany, June 1924, leg. A. Ludwig, com. H.A.

Oedipodium Griffithianum Schwæg., Crinkle Crag (69), Oct. 1925, C.H.B.

Splachnum luteum Mont., Meltaus, Ostrobothnia, Finland, July 1925, M.J.K.

S. vasculosum L., Ben Lawers (88), Aug. 1925, J.L.O'L.

Tetraplodon mnioides B. & S., Craig More & Carn-nan-Righ, Perthshire, July 1925, D.R.R.

T. angustatus B. & S. (*Tayloria angustata* B. & S.), Vonigsfos, Norway, July 1890, leg. Sir B. Stone, com. P.G.M.R.

T. lingulata Lindb., Djupvik, Sörfolden, Norway, July 1925, M.J.K.

Nanomitrium tenerum Lindb., Le Bourg-sur-La Roche, Vendée, France, Oct. 1925, J.C.

Ephemerum serratum Hampe, Valluaris, near Cannes, S. France, Jan. 1926, D.A.J.

Funaria fascicularis Schp. (*Entosthoden fascicularis* Schp.), Foussais, Vendée, France, March 1924, J.C.

F. Templetoni Sm., Leck Fell (60*), Nov. 1925, leg. C.A.C. & W.H.B., com. W.H.B.

F. mediterranea Lindb., Foussais & Faymoreau, Vendée, France, March 1924, J.C.

F. microstoma B. & S., near Cavalaire & St. Maxime, S. France, March 1925, C.H.B. "Mr. Dixon, to whom I submitted this plant, which has a small mouth to the capsule and an imperfect inner peristome, thinks that it is probably the plant which has been recorded as *F. microstoma* from the S. of France. I do not however think it is the true *F. microstoma*, which appears to be an alpine plant with its characters decidedly more pronounced," W.E.N.

Paludella squarrosa (L.) Brid., Kongsvold, Norway, Aug. 1889, leg. Sir J. Stone, com. P.G.M.R. ; Statzersee, St. Moritz, Switz., June 1925, P.W.M.R.

Aulacomnium palustre Schw., c.fr., Leith Hill (17), June 1925, D.G.C. & J.L.O'L.

Timmia bavarica Hessel, Lycksele Lappmark. Sweden, July 1924, C.S.

T. norvegica Zett., Lycksele Lappmark, Sweden, July 1924, C.S.

T. comata Lindb. & Arn., Ballangen, Nordland, Norway, July 1925, M.J.K.

Catoscopium nigritum Brid., Glen Beg, Perthshire, July 1925, D.R.R. ; Portrush Sandhills (I. 39*), July 1925, W.R.M.

Conosomum boreale Swartz., Craig More (87), July 1925, D.R.R. ; Ben More (88), Aug. 1925, D.B.B.

Bartramia stricta Brid., Hyères & Grimaud, S. France, Feb. & March 1925, C.H.B.

B. ithyphylla Brid., Crinkle Crag & Pike o'Blisco (69), Oct. 1925, C.H.B.

B. pomiformis var. *crispa* B. & S., Carlowie, Clova Mts. (90), July 1924, D.R.R. "Scarcely the variety," H.N.D. ;

Crinkle Crags (69), Oct. 1925, C.H.B.

B. Halleriana Hedw., St. Andreasberg, Harz Mts., July 1922, J.W.

Philonotis adpressa Ferg. (*P. fontana* var. *adpressa* (Ferg.) Loeske & Moenk., see Handbook, Ed. III.), Glyders (49), Sept. 1924, leg. W.R.S., com. E.E.; Clogwyn, Snowdon (49), Aug. 1924, D.G.C.

P. seriata (Mitt.) Lindb., Valle di Darengo, L. Como, Italy, Aug. 1899, leg. A. Arteria, com. J.W.

P. calcarea Schp., near Omeath (I. 31), July 1916, leg. C. H. Waddell, det. H.N.D., com. H.A.H.

P. capillaris Lindb., Erwood Bridge (42), Aug. 1925, C.H.B.; Montournais, Vendée, France, March 1924, J.C.

Philonotis —, reduced form, Mont Mort, Grand St. Bernard, Switz., July 1922, "appearance of *Webera*, but ends of cells project," P.G.M.R. 1679; *idem* from another gathering with *Grimmia mollis*, P.G.M.R. 1702. "I do not find any projecting cell-ends. It has all the appearance of *Webera*, and the proliferation after gathering is characteristic of that genus. I should call it *W. cucullata*," H.N.D.

Breutelina arcuata Schp., Crinkle Crags (69), Oct. 1925, C.H.B.

Orthodontium gracile Schwaeg., Bolton Abbey (64), Aug. 1924, W.H.B.

O. gracile var. *heterocarpa* Watson, Ramsden Clough (63), Sept. 1924, W.H.B.

Webera polymorpha Schp., Chamonix, France, June 1925, C.H.B. "This is dioicous, with bulbils. It is *W. annotina*," H.N.D.

W. annotina Schwaeg., Crinkle Crags (69), Oct. 1925, C.H.B.

W. proligera Bryhn, Lambourne (1), Aug. 1925, F.R.

W. Ludwigi Schp., Bowfell & Crinkle Crags (69), Oct. 1925, C.H.B.; tall var., Bowfell (69), Oct. 1925, C.H.B. "Perhaps best described as a tall form nearly approaching var. *latifolia*," H.N.D.; var. *latifolia* Schp.? Bowfell (59), Oct. 1925, C.H.B. "This, I think, may be placed under var. *latifolia*," H.N.D.

W. albicans Schp., Glas Thulachan, Perthshire & Loch Brothachan, Aberdeenshire, July 1925, D.R.R.; near Blea Tarn, Langdale (69), Oct. 1925, C.H.B.; var. *calcarea* (Warnst). Nichols. c.fr., near Offham (14), March 1923 &

Sept. 1924, W.E.N.

W. Tozeri Schp., Polperro (2), Nov. 1925, F.R.; (*Epipterygium Tozeri* Lindb.), La Châtaigneraie, Vendée, France, April 1924, J.C.

Plagiobryum Zierii Lindb., Pike o'Blisco (69), Oct. 1925, C.H.B.

Bryum inclinatum Bland., Burghclere (12), June, 1903, leg. A. R. Horwood, com. H.A.H.; Wittenberge-Weisen, Brandenburg, Germany, May 1905, J.W.

B. rutilans Brid. ("=*B. cœneum* Blytt," W.E.N.) Ballangen, Norway, July 1925, M.J.K.

B. pallens Sw., Saltfleet (54), July 1924 & June 1925, G.H.A.; Langdale (69), Oct. 1925, C.H.B.; Schooten, Anvers, Belgium, June 1924, H.V.d.B.

B. Duvalii Voit, Hedgehope (68*), May 1925, J.B.D.; Pitea Lappmark, Sweden, July 1912, C.S.

B. turbinatum Schwaeg., var. *latifolium* B. & S., St. Luc, Valais, Switz., July 1912, P.G.M.R.

B. Schleicheri Schwægr., near Mer de Glace, Chamonix, France, June 1925, C.H.B.

B. pseudotriquetrum Hedw., Ballon de Servance, Plancher-les-Mines, and Vallée du Rahin, Haute Saône, France, June 1924, leg. V. Madiot, com. J.C.

B. bimum Schreb., Naburn (62), Nov. 1917, H.S. "Yes," H.N.D.; Ballangen, Nordland, Norway, July 1925, M.J.K.

B. cirrhatum Hoppe & Hornsch., Neuruppin, Brandenburg, Germany, June 1903, J.W. "Yes, = *B. affine* var. *cirratum* Braithw.," F.R.

B. canariense Schp., Bourman & Sérigué, Vendée, France, March 1925, J.C.

B. provinciale Philib.; Vence, S. France, April 1925, C.H.B.

B. capillare L. var. *torquescens* Husn. (*B. torquescens* B.E.), Payré-sur-Vendée, France, March 1924, J.C. "Yes," H.N.D.; Vence, S. France, April 1925, C.H.B. "Yes," H.N.D.; var. *elegans* Braithw., Blekinge, Sweden, Jan. 1823, leg. S. Medelius, com. E.A.R.

B. obconicum Hornsch., Vence, S. France, April & May 1925, C.H.B. "A very interesting plant. Inflorescence clearly synoicous, but leaves not twisted when dry. I should call it a form of *B. capillare* var. *torquescens*, but it is open to anyone to call it a synoicous form of *B. obcon-*

icum," H.N.D.

B. Donianum Grev., La Châtaigneraie & Faymoreau, Vendée, France, March 1924, J.C. ; Vence, S. France, May 1925, C.H.B.

B. murale Wils., Faymoreau, Vendée, France, March 1924, J.C.

B. alpinum Huds., Langdale (69), Oct. 1925, C.H.B. ; Sorge, Harz Mts., Germany, July 1925, J.W. ; var. ? Head of Langdale (69*), Oct. 1925, C.H.B., " var. *viride* Husn.," H.N.D. ; var. *angustifolium* Husn., Faymoreau, Vendée, France, March 1924, J.C. " I take this var. to be really the same thing as var. *meridionale* Schp. The packets contain a considerable variety of forms ; one of these shows a distinct approach to var. *meridionale*, but I should not have thought it marked enough to be placed under the var.," H.N.D.

Mnium affine Bland., Le Paradis & Les Praz, Chamonix, France, June & July 1925, C.H.B. ; var. *elatum* B. & S., Lessness (16), Dec. 1925, St.J.M. " I should call these sterile shoots of *M. rostratum* Schrad.," F.R.

M. rostratum Schrad., Faymoreau, Vendée, France, March 1924, J.C.

M. rugicum, Berlin, Seddin-Lake, Aug. 1913, L.L. " Yes, *M. rugicum* Laur., = *M. affine* var. *rugicum* B. & S.," H.N.D.

M. riparium Mitt., Ross (36), Aug. 1925, C. A. Cooper. " This contains at least two species ; one *M. stellare*, the other almost certainly *M. serratum*. It would not be safe to consider any of it *M. riparium*, and it is indeed doubtful whether any of the supposed *M. riparium* is present," H.N.D.

M. spinulosum B. & S., Les Praz de Chamonix, France, June 1924, C.H.B.

M. spinosum Schwaeg., near Chamonix, France, June 1925, C.H.B.

M. hymenophylloides Hübn, Lycksele Lappmark, Sweden. July 1924, C.S.

M. subglobosum B. & S., Pike o'Blisco (69), Oct. 1925, C.H.B. " This may be *subglobosum*, but I should have doubted it, and in any case I think it is not safe to name it without fruit or inflorescence," H.N.D.

Cinclidium subrotundum Lindb., Rovaniemi, Ostro-

bothnia, Finland, June 1925, M.J.K.

Fontinalis antipyretica L., var. *gracilis* Schp., Ben Lawers (88), Sept. 1925, J.L.O'L.

F. squamosa L. forma, R. Wye near Caplar Quarries (36), Aug. 1925, leg. C.H.B. & P.G.M.R., com. C.H.B.; *idem*, com. P.G.M.R. 2571A; a more slender form growing with the above, Aug. 1925, C.H.B. Note.—Both the above forms were gathered in the expectation that they might be *F. seriata* Lindb., which had been recorded from the same locality. They were examined by Mr. Dixon, who thought that both were forms of *F. squamosa*. He suggested that Mr. Sherrin should refer them to Prof. Hj. Möller, who agreed that the first was a form of *F. squamosa*, but thought that the more slender form was *F. dalecarlica* v. *microphylla* (Schp.), Limpr. Mr. Dixon, however, says,—“I cannot see any reason to change the opinion I have expressed in the Handbook, viz., that the value of *F. dalecarlica* as a species, such as it is, must depend principally on the fruiting characters, and that vegetatively it is not possible to separate it from forms of *F. squamosa*. The forms of *F. squamosa* in the R. Wye alone, would I think, justify the creation of several other species, if the characters on which this determination is based are to be held of specific value,” A.S.; another form, R. Wye, near Whitney (36), Sept. 1925, C.H.B. “There is no need to make any comment on this; I quite agree with the naming,” H.N.D.

10 *Fontinalis*, R. Wye “Cheplow” (? Caplar) Cliffs (36), Aug. 1925, leg. C.H.B. & P.G.M.R., com. P.G.M.R., 2571B. “This appears to be the same as the slender form of *F. squamosa* sent by Mr. Binstead and referred to above,” A.S. “I agree,” F.R.

F. microphylla Schp., Tielk See, East Prussia, Aug. 1922, leg. H. Steffen, com. H.A.

F. dichelymoides Lindb., Tervola, Ostrobothnia, Finland, July 1925, M.J.K.

Cryphaea heteromalla Mohr., St. Amand-sur-Sèvres, France, March 1924, J.C.

Neckera pennata Hedw., St. Wolfgang See, Salzburg, Austria, July 1908, leg. H.N.D. & W.E.N., com. H.N.D.

N. crispa Hedw., Dalherda, R. Rhön, Switz., July 1905, J.W.; Küswachter, Tobel, Zurich, Switz., — 1925, P.W.M.R.

N. obligocarpa Bruch., Lycksele Lappmark, Sweden, July 1924, C.S.

N. pumila Hedw., Rydal (69), Oct. 1925, C.H.B.

Leucodon sciuroides Schwæg., form with radiculose leaves, Grenoble, France, May 1925, C.H.B.; var. *morensis* B. & S., Monte Cavo, near Rome, Italy, Jan. 1926, C.D.C.

Pterogonium gracile Swartz (*P. ornithopodioides* Lindb.), La Flocellière, Vendée, France, Nov. 1924, J.C.

- Habrodon Notarisii* Schp., Killin (88), Aug. 1925, D.B.B.
- Helicodontium pulvinatum* Lindb., Willersley & Letton (36) Aug. 1925, C.H.B.
- Antitrichia curtispindula* Brid., Pouzanges, Vendée, France, Nov. 1924, J.C.
- Myurella apiculata* B. & S. (*M. tenerrima* (Brid.) Lindb.), Lycksele Lappmark, Sweden, July 1924, C.S.
- Leskea polycarpa* Ehrh., near Ross (36), Aug. 1925, L.H.P.
- Leskea* —, Les Bois, Chamonix, France, June 1925, C.H.B. "This is *L. nervosa* Myrin," W.E.N.
- Anomodon attenuatus* Hüb., Ben Lawers (88), Aug. 1925, D.B.B.
- Leptodon Smithii* Mohr, Saddlescombe (13), Sept. 1921, A.S.
- Pterigynandrum filiforme* Hedw., Ben Lawers (88), Aug. 1925, D.B.B. ; var. *heteropterum* B. & S., Ben Lawers, Sept. 1925, J.L.O'L. "Two packets contain normal *P. filiforme* with closely imbricated leaves. In the others the leaves are secund and occasionally rounded at apex. I thought at first that these plants were not sufficiently marked for the variety, but on reconsideration I agree that the secund-leaved forms are probably all *heteropterum*," F.R.
- Heterocladium heteropterum* B. & S., Pike o'Blisco (69), Oct 1925, C.H.B.
- H. dimorphum* B. & S., Lez Praz de Chamonix, France, June 1925, C.H.B. ; St. Luc, Valais, Switz., July 1912, P.G.M.R.
- Pseudoleskea* —, St. Nézier, Grenoble, France, June 1925, C.H.B. "*P. atrovirens* B. & S.," W.E.N.
- Thuidium abietinum* B. & S., Annot, S. France, May, 1925, C.H.B. ; Nesselthal, Switz., July 1911, E.A.R.
- T. tamariscinum* B. & S., Shrawley Wood (37), Nov. 1925, c.fr., E.A.
- T. Philiberti* Limpr., Force Gill, Whernside (64), May 1925, W.H.B. ; var. *pseudo-tamarisci*? Limber (54), March 1920, G.H.A. "*T. delicatulum* Mitt.," F.R.
- Climacium dendroides* W. & M., Dungeness (15), June 1925, St.J.M.
- Cylindrothecium concinnum* B. & S., Dietikon, Zurich, Switz., May 1925, P.W.M.R. ; Rigi, Lucerne, Switz., Sept. 1885, leg. G. Dens & H.V.deB., com. H.V.deB.
- Pylaisia polyantha* B. & S., Sarnesfield (36), Aug. 1925, C.H.B.
- Orthothecium rufescens* B. & S., Craig More (87), July 1925, D.R.R.
- O. chryseum* (Schwægr.) Bruch., Lycksele Lappmark, Sweden, July 1924, C.S. ; Sörfolden & Ballangen, Nordland, Norway, July & Aug. 1925, M.J.K.

Homalothecium sericeum Br. Eur., var. *meridionale* Fleisch. & Warnst., Taormina, Sicily, April 1879, leg. M. Fleischer, com. J.W.

H. Phillipeanum Br. Eur., near Mürren, Switz., June 1913, P.G.M.R.

Camptothecium lutescens, Br. Eur., Faymoreau & Montournais, Vendée, France, March 1924, J.C.

Brachythecium plicatum B. & S., St. Nèzier, Grenoble, France, May 1925, C.H.B. ; (*Ptychodium plicatum* Schp.), Ballangen, Nordland, Norway, Aug. 1925, M.J.K.

B. salebrosum B. & S., Praz de Chamonix, France, July 1925, C.H.B. ; Cappellen, Anvers, Belgium, Sept. 1912, c.fr., H.V.deB. ; var. *palustre* Schp., Iver (24), July 1922, leg. W.R.S., com. E.E. ; (*B. Mildeanum* Milde), Ainsdale (59), Sept. 1908, leg. J. A. Wheldon, com. W.G.T.

B. glaciale B. & S., Sörfolden, Nordland, Norway, July 1925, M.J.K. "This does not appear to be a *Brachythecium* ; I am unable to place it," J.B.D. "I do not think this is a *Brachythecium* ; it seems to me a *Hygrohypnum* (*Limnobium*), perhaps in the neighbourhood of *H. palustre* ; but the leaf-apex is narrow and acute," H.N.D. The plant has been referred to Prof. Brotherus, who says :—"The structure of the leaf points to *Hygrohypnum* ; it cannot however be any of the known species of that genus," V.F.B.

B. amœnum Milde, Staufenberg, Hesse, Germany, July 1904, J.W.

B. caespitosum Dixon, Willersley (36), Sept. 1925, c.fr. C.H.B. ; (*Scleropodium caespitosum* B.E.) La Roche-sur-You, Vendée, France, April 1924, J.C.

B. illecebrum De Not. (*Scleropodium illecebrum* B.E.), Montournais, Vendée, France, March 1924, J.C.

B. purum Dixon, Hatcliffe (54), Dec. 1911, c.fr., G.H.A.

Hyocomium flagellare B. & S., forma, in cascade, Pike o'Blisco (69), Oct. 1925, C.H.B. "A large form analogous to the var. *cataractarum* of *Brachythecium rivulare*," J.B.D.

Eurhynchium Vaucheri B. & S., near Creux de Vent, Jura Mts., Switz., July 1920, P.G.M.R. 1357.

E. crassinervium B. & S., La Roche-sur-You, Vendée, France, April 1924, J.C. ; var. *turgescens* Mol., Ingleton (64), April 1925, W.H.B.

E. praelongum Hobk., Grimsby (54), Dec. 1920, c.fr., G.H.A. ; Callestick (1), Dec. 1925, c.fr., F.R.

E. Swartzii Hobk., Bradley Wood (54), Spring 1920, G.H.A.

E. abbreviatum Schp., Ross (36), Aug. 1925, C. A. Cooper.

E. pumilum Schp., near Arnside (69), Sept. 1925, C.H.B.

Little Coates (54), May 1920, G.H.A. ; Montournais & Faussais, Vendée, France, March 1924, J.C.

E. curvisetum Husn., Kingsthorpe (32), Feb. 1886 & March 1896, H.N.D. ; Tintern Abbey (35*), Aug. 1925, C.H.B.

E. tenellum Milde, Hayle (1), Aug. 1886, leg. W. Curnow and H.N.D. ; var. *scabrellum* Dixon, Farnborough (16), Jan. 1904, leg. Ll. J. Cocks, com. H.N.D. ; Lewes (14), Feb. 1897, leg. W.E.N., com. H.N.D. ; Grundisburg (25), Dec. 1906, leg. W.R.S., com. H.N.D. ; Kingsdown, Deal (15), Aug. 1925, leg. J.L.O'L. and D.G.C., com. D.G.C. "The nerve may be short, but the specimens are barren. It is quite impossible to determine this var. without the seta," J.B.D.

E. myosuroides var. *brachythecioides* Dixon, Croaghaun, Achill (I. 27), July 1925, leg. W.E.N., H.H.K. & J.B.D., com. J.B.D.

E. myurum Dixon, Lodore (70), May 1925, W.B.

E. circinatum B. & S., St. Hilaire-des-Loges, Vendée, France, March 1924, J.C.

E. striatulum B. & S., Symonds Yat (34) & (36), & Ross (36), Aug. 1925, J.B.D., C. A. Cooper & L.H.P. ; Killarney (I. 2), July 1925, J.B.D.

E. rusciforme Milde (*Oxyrhynchium rusciforme*) (Neck.) Warnst., Rapallo, Italy, Aug. 1896, leg. M. Fleischer, com. J.W. ; (*Rhynchostegium rusciforme* B.E.), Vallée du Rahin, Haute Saône, France, June 1924, leg. V. Madiot, com. J.C. ; var. *atlanticum* Brid., Malham Cove (64), July 1896, H.N.D. ; Ennerdale (70), Aug. 1895, leg. H.G.J. & H.N.D., com. H.N.D. ; Cronkley Fell, Upper Teesdale, Aug. 1896, H.N.D. ; var. *inundatum* Brid., Tilgate Forest (14), April 1924, D.G.C. ; var. *squarrosum* Boul., Dane Hole, Catesby (32), Oct. 1887, H.N.D.

E. murale Milde, Northampton, June 1886, H.N.D. ; Pevensey (14), Jan. 1895, H.N.D. ; var. *complanatum* B. & S., Gordale Scar, Malham (64), July 1896, H.N.D. ; var. *julaceum* Schp., Ilkley (62), July 1899, H.N.D.

E. confertum Milde, near Brighton, Danny & Wolstanbury (13), 1845—6 & 1856, leg. W. Mitten, com. H.N.D.

E. megapolitanum Milde, Hayle (1), Aug. 1886, leg. W. Curnow and H.N.D., com. H.N.D.

Sematophyllum demissum (Wils.) Mitt., Eagle's Nest (I. 1), July 1925, leg. W.E.N., J.B.D. & H.H.K., com. H.H.K. ; Cromaglaun (I. 1), April 1899, leg. Canon Lett, com. H.N.D. ; Rhaiadr (48), July 1901, H.N.D.

Plagiothecium depressum Dixon, Buttercramb Wood (62), March & Nov. 1913, H.S. "*P. denticulatum*," J.B.D. ; Ross (36), Aug. 1925, C. A. Cooper ; Fairlight (14), Jan. 1895, H.N.D. ; Bonchurch (10), Aug. 1889, H.N.D.

P. elegans Sull., Cronkley Fell (66), Aug. 1896, H.N.D. ;

Perranzabuloe (1), Nov. 1925, F.R. ; var. *collinum* Wils., Bolton Woods (64), July 1896, H.N.D.

P. Müllerianum Schp., Lochay Bridge (88), July 1897, H.N.D.; Craig Chailleach (88), July 1899, leg. E. S. Salmon, W.E.N. and H.N.D., com. H.N.D. ; Ben Lacigh (88), July 1898, H.N.D. ; Inchnadamph (108), July 1889, leg. E. S. Salmon & H.N.D., com. H.N.D. ; Ben Clibreck (108), July 1899, H.N.D.

P. piliferum B. & S., Haga, Stockholm, Sweden (*locus classicus*), June 1925, *duce* Hj. Möller, L.L.

P. pulchellum B. & S., Quiraing Hill (104), July 1893, H.N.D.; Ben Ledi, Perthshire, July 1897, H.N.D. ; Ambleside (69), no date, W. Mitten, com. H.N.D. ; Teesdale — 1843, R. Spruce, com. H.N.D. ; Cwm Idwal (49), Aug. 1875, W. Mitten, com. H.N.D.; Craig Chailleach (88), July 1893, H.N.D. ; var. *nitidulum* Husn., or very near it, Falls of Falloch, Perthshire, July 1897, H.N.D.

P. silesiacum B. & S., Praz de Chamonix, France, June 1925, C.H.B.

P. Mühlenbeckii B. & S. (*P. striatellum* Lindb.), Ben Odhar, Perthshire, July 1897, leg. C.H.B. & H.N.D., com. H.N.D. ; Glencoe (98), July 1898, leg. C.H.B. & H.N.D., com. H.N.D. ; “dense form with erect branches,” Ben More, Sutherland, July 1889, H.N.D.

P. denticulatum B. & S., forma, probably = *P. Rothii*, v. *rupicola* Limpr., Ben More, Perthshire, July 1897, leg. C.H.B. and H.N.D., com. H.N.D. ; Craig Chailleach (88), July 1898, leg. C.H.B. & H.N.D., com. H.N.D. ; var. *majus* Boul., Bolton Woods (64), July 1896, H.N.D. ; Scafell Pike (70), Aug. 1895, “autoicous, fr. striate, otherwise much like *P. silvaticum*,” H.N.D. ; var. *obtusifolium* H. & T., Craig Chailleach (88), June 1897, H.N.D. ; Snowdon (49), July 1888, H.N.D. ; var. *densum* Schp., Weston Favell (32), Feb. 1899, H.N.D. : var. *giganteum* Roth., Canisp, Sutherland, June 1899, H.N.D.

P. Røseanum B. & S., Bodo, Nordland, Norway, July 1925, M.J.K.

P. silvaticum B. & S., Badby Woods (32), April 1888, H.N.D.; Horton (32), July 1892, H.N.D. ; Ilkley (64), July 1896, H.N.D., La Roche-sur-You, Vendée, France, April 1924, J.C. ; Ballon de Servance, Vallée du Rahin, and Seye, Haute Saône, France, June and July 1924, leg. V. Madiot, com. J.C. ; var. *orthocladum* Schp., Dunnet (109), May 1903, leg. D. Lillie, com. H.N.D.

P. undulatum Hedw., Doone Valley (4), Sept. 1925, c.fr., D.G.C. ; Lautenthal, Harz Mts., Germany, July 1921, J.W.

P. latebricola B. & S., Bilsborough, Sussex, no date, W. Mitten, com. H.N.D. ; Bradley (54), June 1915, G.H.A.

Amblystegium Sprucei B. & S., near Rokeby, Teesdale (62),

Aug. 1896, H.N.D. ; Ben Ledi, Perthshire, July 1897, H.N.D. ; Symond's Yat (34), July 1903, H.N.D.

A. compactum (C.M.) Aust., Inchnadamph, Sutherland, July 1899, leg. E. S. Salmon, W.E.N. & H.N.D., com. H.N.D.

A. Juratskanum Schp., Newnham (32), April 1900, "much mixed with *A. filicinum*," H.N.D. ; Northampton, July 1905, leg. A. B. Jackson & H.N.D., com. H.N.D. ; The Doward (36), July 1903, "with *Eurhynchium pumilum*," H.N.D. ; Burton Salmon and Huntington, Yorks, April 1897, and June 1900, leg. W. Ingham, com. H.N.D.

A. Kochii B. & S., Wadenhoe (32), June 1906, "form with leaves dense, not spreading, nerve rather stout," H.N.D.

A. varium Lindb., Harringworth Lodge (32), June 1907, H.N.D. ; Moidart, Inverness, Feb. 1896, leg. S.M.M., com. H.N.D.

A. irriguum B. & S., Alwick Park & Warkworth (67), July 1905, c.fr., H.N.D. ; Bradgate Park (55), June 1900, H.N.D. ; Erwood (42), July 1903, H.N.D. ; Erwood Bridge (43), Aug. 1903, H.N.D. ; Ross (36), Aug. 1925, C. A. Cooper.

A. fluviatile B. & S., Ilkley & Bolton Abbey (64), July 1896, H.N.D. ; Erwood Bridge (43), Aug. 1903, H.N.D. ; Builth (42), July 1903, "a rather slender form," H.N.D. ; Finsterbergen, Thuringia, Germany, July 1911, J.W.

A. filicinum De Not., Waltham (54), Spring 1912, c.fr., G.H.A. ; R. Bogo, Italy, Aug. 1897, leg. M. Fleischer, com. J.W. "This is *Hypnum commutatum*," J.B.D.

Hypnum riparium L., forma, Heyford (32), Jan. 1898, H.N.D. ; Bradley (54), Oct. 1912, c.fr., G.H.A. ; var. *longifolium* Schp., Rainton & Aintree (59), July 1909 & Oct. 1923, leg. J. A. Wheldon, com. I.H.P. ; var. *abbreviatum* B. & S., Clifton Ings, Yorks, April 1898, leg. W. Ingham, com. H.N.D.

H. polygamum Schp., Studland (9), June 1922, leg. W.R.S., com. E.E. ; var. *stagnatum* Wils., Birkdale (59), Aug. 1925, leg. J. A. Wheldon, com. W.G.T.

H. stellatum Schreb., Wold Norton (54), Nov. 1913, G.H.A.

H. chrysophyllum Brid., Jackdaw Quarry (64), April 1917, H.S. ; Bougnon & Port-sur-Saône, Haute Saône, France, Sept. & Oct. 1924, leg. V. Madiot, com. J.C. "Leaves squarrose, ovate cordate and abruptly acuminate ; this will go better under *H. stellatum* var. *protensum* Röhl.," J.B.D.

H. hispidulum, var. *Sommerfeltii* Myr., Terrington Car. (62), May 1918, H.S.

H. Halleri Linn. fil., Sefinenthal, Switz., June 1913, P.G.M.R.

H. aduncum Hedw. gr. *Kneiffii* Ren., Pevensey (14), Dec. 1888, H.N.D. ; var. *pungens* H. Müll., Stanion (32), April 1898,

H.N.D., det. Ren.; var. *intermedium* Schp., f. *laxifolia* Sanio, Achel (Limbourg), Belgium, Aug. 1924, J.H.; gr. *pseudofluitans* Sanio, Castlethorpe (24), June 1892, H.N.D., det. Ren.; Walton Fox Cover, Peterborough, April 1889, H.N.D.; Abingdon (32), May 1896, H.N.D.; Pevensey (14), Aug. 1889, leg. H.G.J. and H.N.D., com. H.N.D.; Southport (59), Aug. 1897, leg. J. A. Wheldon, det. Ren., com. H.N.D.; Wolverton (24), July 1889, H.N.D., det. Ren.; Roade (32), Sept. 1897, H.N.D.; var. *paternum* Sanio, Bozeat (32), April 1908, H.N.D.; Southport (59), April 1898, leg. J. A. Wheldon, det. Ren., com. H.N.D.; (*Drepanocladus pseudofluitans*, var. *flexilis*), Joyden's Wood (16), May 1925, St.J.M. "A form near the var. *flexilis* Ren.," W.R.S.; var. *pseudo-Sendtneri* Ren. & Langeron (Rev. Bry. 1910, p. 30), Towcester (32), May 1898, H.N.D.

H. Sendtneri Schp., near Giant's Causeway (I. 39), July 1925, W.R.M. "This is *Drepanocladus aduncus* Hedw.," W.R.S.; Southport (59), March 1898, leg. J. A. Wheldon, com. H.N.D.; (*Drepanocladus Sendtneri* W.), Tents Muir (85), June 1924, leg. D.R.R., det. J. A. Wheldon, com. W.G.T.; f. *trivialis* Sanio, Oeleghem, Belgium, May 1925, J.H.

H. Wilsoni Schp., Southport (59), June 1885, leg. C.H.B., com. H.N.D.; near Oxford (23), May 1894, leg. H. Boswell, com. H.N.D.; Southport (59), March 1898, leg. J. A. Wheldon, com. H.N.D.; Freshfield (59), Oct. 1908, leg. J. A. Wheldon and H.N.D., com. H.N.D.; (*Drepanocladus Wilsoni* Roth.), Ainsdale (59), Oct. 1904, leg. J. A. Wheldon, com. W.G.T.; var. *hamatum* (Schp.), Lindb., Castlethorpe (24), June 1892, H.N.D., det. Ren.

H. lycopodioides Schwæg., Hayle Kimber (1), Aug. 1886, H.N.D.; Oeleghem, Belgium, May 1925, J.H.; (*Drepanocladus lycopodioides* W., var. *obesus* W.), Freshfield (59), Oct. 1908, leg. J. A. Wheldon, com. W.G.T.

H. fluitans L., var. *Jeanbernati* Ren., Whernside, Yorks, July 1896, H.N.D., "forma elongata gracilis, v. *gracile* Boul. proxima," F. Ren. in litt.; Franche Heide, Cappellen, Anvers, Belgium, Dec. 1924, J.H. "I should say this is near f. *elata* Ren. & Arn.," W.R.S.; var. *atlanticum* Ren., Erribol, Sutherland, July 1899, H.N.D.; (v. *Jeanbernati* f. *Hölleri* Sanio = var. *atlanticum* Ren., H.N.D.), Hindburn (60), Oct. 1899, and Wardstone (60), June 1900, leg. J. A. Wheldon & A.W., com. H.N.D.; var. *gracile* Boul., Reckheim (Limbourg), Belgium, June 1924, J.H.; Lommel (Limbourg), Belgium, Aug. 1924, J.H. "Only one packet of this contains v. *gracile* proper; the others contain f. *laxifolia* Ren.," W.R.S.; f. *luxurians*, Schilde, Belgium, Oct. 1925. "This is v. *fa'catum* f. *inundata* Ren.," W.R.S.; var. *pseudogracile* Van den Broeck (see Report 1925, p. 117), Brecht, Anvers, Belgium,

Feb. 1925, J.H. ; var. *setiforme* Ren., Soyland, Halifax (63), April 1901, leg. C. Crosland, com. H.N.D. ; Goodber Comm. (60), May 1902, leg. A.W., teste Ren., com. H.N.D. ; var. *Robertsiae* Ren. & Dixon, Aran Mawddwy (48), July 1901, H.N.D. ; var. *squalidum* Ren. & Dixon, Dawley (40). June 1899, leg. W. P. Hamilton & W. H. Painter (type spec. part.), com. H.N.D. ; gr. *falcatum* Ren., Backstone Beck, Ilkley (64), July 1896, H.N.D., det. Ren. (haud v. *procerum* Ren. & Arn., potius v. *alpinum* Schp., vel forma proxima," F. Ren. in litt., H.N.D.) ; Rumbold's Moor, Ilkley (64), May 1896, H.N.D. ; (*Warnstorfia fluitans* Loeske, v. *falcata* Schp.), Howgill Fells (65), Aug. 1923, A.W. ; (*W. fluitans*, v. *Arnellii* Sanio), Esher Comm. (17), Dec. 1924, D.G.C. "This is var. *Jeanbernati*, near f. *elata* Ren. and Arn.," W.R.S. ; (*W. fluitans*, v. *ovalis*), Esher Comm. (17), Dec. 1924, c.fr., leg. E. C. Wallace, com. D.G.C. "This is *H. exannulatum*," W.R.S. ; var. (?), Mitcham Comm. (17), April 1924, D.G.C. "This is *Drepanocladus pseudofluitans* near v. *flexilis*," W.R.S.

H. exannulatum Gumb., forma, Ben Nevis (97), July 1898, H.N.D. ; var. *pinnatum* Boul., Mare, Schilde, Belgium, Oct. 1925, J.H. "Of these two packets, one is v. *falcifolium* Ren., and the other a form near *H. fluitans* var. *gracile* Boul.," W.R.S. ; Bois humide, Schilde, Belgium, Oct. 1925, J.H. "This is a form near *H. fluitans* var. *gracile* Boul.," W.R.S. ; f. *gracilescens* Ren., Genck, Limbourg, Belgium, June 1924, J.H. ; f. *stenophylloides* Ren., Schilde, Belgium, Oct. 1925, J.H. "One of these packets contains a form near f. *gracilescens*; the others are correct," W.R.S. ; forma near v. *brachydictyon*, Scafell Pike (70), Aug. 1895, H.N.D., det. Ren. ; Craig Chailleach (88), July 1893, H.N.D. ; forma near vars. *brachydictyon* & *purpurascens*, between Ben Lawers and Meall Garbh (88), July 1893, H.N.D. ; forma near var. *orthophyllum* Ren., Ben Nevis (97), July 1898, H.N.D. ; var. *brachydictyon* Ren., Meall-nan-Tarmachan, Perthshire, July 1893, H.N.D. ; f. *orthophylla* Ren., Ben Douran (98), Aug. 1913, J.B.D., det. J. A. Wheldon ; Ben More, Sutherland, July 1899, leg. W.E.N. & H.N.D., com. H.N.D. ; var. *purpurascens* Schp., Whernside, Yorks, July 1896, H.N.D. ; (*Warnstorfia stenophylla* (Wils.) Wheld., v. *purpurascens* (Schp.) Wheld., f. *typica* Wheld.), Howgill Fells (65), Aug. 1923, A.W. ; var. *falcifolium* Ren., Esher Comm. (17*), May 1920, A.S., det. J. A. Wheldon ; Keston (16), March 1925, D.G.C. ; Strensall Comm., Yorks, April 1900, leg. W. Ingham. com. H.N.D. ; Lyme Regis (9), Jan. 1904, leg. Miss G. Lister, and H.N.D., com. H.N.D. ; prostrate form, Land's End (1), July 1886, H.N.D., det. Ren. ; var. *stenophyllum* Wils., Ben Douran (98), July 1898, leg. C.H.B. and H.N.D., com. H.N.D. ; Strensall Comm., Yorks, May 1859

ex herb. W. Wilson, com. H.N.D.

H. uncinatum Hedw. (*Drepanocladus uncinatus* Warnst.), St. Andreasberg, Harz Mts., Germany, July 1922, J.W.

H. vernicosum Lindb., Wybunbury Bog (58), 1860, leg. W. Wilson, ex herb. E. C. Horrell, com. H.N.D. ; var. *majus* Lindb., near Docker (60), May 1901, leg. A.W., det. Ren., com. H.N.D.

H. revolvens Swartz., Beinn Gulaben, Perthshire, July 1925, c.fr., D.R.R. ; Inchnadamph, Sutherland, July 1899, leg. E. S. Salmon, W.E.N. & H.N.D., com. H.N.D. ; Denny Bog, New Forest (11), July 1889, H.N.D. ; forma, Ben Odhar, Perthshire, July 1897, leg. C.H.B. & H.N.D., com. H.N.D.

H. commutatum Hedw. (*Cratoneuron commutatum* Roth.), Neurippin, Brandenburg, Germany, July 1899, J.W. ; (*Cratoneuron glaucum* (Lam.) C.M., subsp. *commutatum* (Hedw) Roth.), Ben Lawers (88), Sept. 1925, J.L.O'L., det. W.R.S.

H. falcatum Brid., Craig More (87), July 1925, D.R.R. ; (*Cratoneuron falcatum* (Brid.), C.M.), Ben Lawers (88), Sept. 1925, J.L.O'L.

H. sulcatum, var. *subsulcatum* Schp. (*Amblystegium glaucum* = *Cratoneuron glaucum* (Lam.) C.M., v. *subsulcatum* Schp.), Ballangen, Nordland, Norway, July 1925, M.J.K.

H. fastigiatum (Brid.) Hartm., between St. Luc and Chandolin, Valais, Switz., July 1914, P.G.M.R., 320; Sefinenthal, Switz., June 1913, P.G.M.R., 58; (*Stereodon fastigiatum* Brid.), Lycksele Lappmark, Sweden, July 1924, C.S.

H. cupressiforme, var. *resupinatum* Schp., Lambourne (1), Dec. 1925, F.R. ; (*H. resupinatum* Wils.), Pouzanges, Vendée, France, Nov. 1924, J.C. ; var. *filiforme* Brid., Pouzanges, Nov. 1924, leg. V. Madiot & J.C., com. J.C.

H. Patientie Lindb. (*Stereodon Lindbergii* Mitt.), Ober Schreiberhau, Riesengebirge, Germany, July 1909, J.W.

H. callichroum Brid., Cader Idris (48), Aug. 1920, leg. R.J., com. L.H.P. ; Pike o'Blisco (69), Oct. 1925, C.H.B.

H. molluscum Hedw., Sérigué, Vendée, France, March 1925, J.C. ; Le Rozier, Lozere, France, July 1924, leg. G. Durand, com. J.C. ; var. *condensatum* Schp., Langdale (69), Oct. 1925, C.H.B. ; var. *robustum* Boul., Ingleborough (64), April 1925, W.H.B. ; var. *gracile* Boul., Chôdes, Malmédy, Belgium, June 1925, J.H.

H. crista-castrensis L., Seiser Alpe, Dolomites, Aug. 1925, P.W.M.R.

H. palustre Huds., R. Wye, Castleton (36), Aug. 1925, C.H.B. "A soft form, with a few stems of *Amblystegium fluviatile*," J.B.D. ; (*Hygrohypnum palustre* (Huds.) Loeske), Breitehau, Riesengebirge, Germany, July 1908, J.W. "This is *H. ochraceum*," J.B.D.

H. dilatatum Wils. (*Hygrohypnum dilatatum* f. Loeske), Ballangen, Nordland, Norway, July 1925, M.J.K.; Krammhübel, Riesengebirge, Germany, July 1908, J.W.

H. arcticum Sommerf. (*Hygrohypnum Smithii* Broth.), Sörfolden, Nordland, Norway, July 1925, M.J.K.

H. eugyrium, var. *Mackayi* Schp., Grasmere (69), Sept. 1925, C.H.B.

H. ochraceum Turn., Ben Gulaben, Perthshire, July 1925, D.R.R.; Langdale (69), Oct. 1925, C.H.B.

H. scorpidioides L. (*Scorpidium scorpidioides* Limpr., v. *gracilescens* Sanio), Naburn, Yorks, June 1925, W.B. "Not slender enough for var. *gracilescens*. It is var. *angustifolium* Sanio, and was distributed from the same locality in the 1907 exchange, c.f. M.E.C. Rep., 1907, p. 256," H.N.D.

H. stramineum Dicks., Bernina Häuser, Pontresina, Switz., Aug. 1925, P.W.M.R.

H. giganteum Schp., Penmanshiel Moor (81*), June 1925, J.B.D.; Oelegem, Belgium, May 1925, J.H.

H. sarmentosum Wahl., Ben Lawers (88), Sept. 1925, J.L.O'L; Albula Pass, Graubünden, Switz., June 1925, P.W.M.R.

Hylocomium splendens B. & S., Thusis, Switz., June 1925, c.fr., P.W.M.R.

H. umbratum B. & S., Ceunant Llenyrch (48), Dec. 1903, leg. D.A.J. & S. J. Owen, com. H.A.H.

H. pyrenaicum (Spruce) Lindb., Lycksele Lappmark, Sweden, July 1924, C.S.

H. loreum B. & S., Doone Valley (4), Sept. 1925, c.fr., D.G.C.

Non-European Mosses

Catherinea crispa James, Farmingdale, New Jersey, U.S.A., Oct. 1925, c.fr., A.T.B.

Pogonatum brevicaule (Brid.) Beauv., South Orange, N.J., U.S.A., Oct. 1924, A.T.B.

Ceratodon purpureus Brid., Mina Forest, 3000 ft., Tenerife, Canaries, April 1925, E.A.

Symblepharis helicophylla Mont., Mt. Lemon, Arizona, U.S.A., Oct. 1924, E.B.B.

Dichodontium pellucidum Schp., New Denver, B.C., Canada, Sept. 1925, F.A.McF. "I should name this plant *D. flavescens* Lindb. The leaves are elongated with the apex acute, and the cells are only faintly papillose," G.B.S.

Dicranella heteromalla Schp., Las Mercedes Forest, 2000 ft., Tenerife, April 1925, "new to the Canaries," E.A.

Campylopus fragilis B. & S., Las Mercedes Forest, 2000 ft., Tenerife, April 1925, E.A.

C. introflexus Brid., Monte, Grand Canary, March 1925, and La Mina Forest, 3000 ft., Tenerife, April 1925, E.A.

C. subleucogaster (C.M.), Jaeg. & Saurb., Patagonia Mts., Arizona, U.S.A., Jan. 1925, E.B.B. "I do not profess to know the American species of *Campylopus*; but I would point out that this does not agree very well with the description in the N. Amer. Flora, or with Florida specimens det. R. S. Williams. If it is *C. subleucogaster*, it must be a weak and not very well developed form," H.N.D.

Dicranum undulatum Ehrh., New Denver, B.C., Canada, Nov. 1925, F.A.McF.; Catskill Mts., New York, U.S.A., Nov. 1925, A.T.B.

D. rhabdocarpum Sull., Mt. Lemon, Arizona, U.S.A., Oct. 1924, E.B.B.

Leucobryum pumilum (Mich.) Britt. (*L. minus* Hampe), Florida, U.S.A., March 1923, leg. W. Steven, com. D.R.R. "According to R.S. Williams in N. Amer. Flora, *L. pumilum* (Mich.) Britt., *L. minus* Hampe & *L. albidum* (Brid.) Lindb. are identical, but some authors do not hold this view. Much has been written on it," H.N.D.

Octoblepharum albidum Hedw., Ile de Nossi, Madagascar, Jan, 1924, leg. Rev. Pere Rambaud, com. J.C.

Scouleria aquatica Hook., New Denver, B.C., Canada, Oct. 1925, F.A.McF. ; *idem*, com. P.G.M.R.

Grimmia anodon B.E., var. *anomala* Bartr., Tucson Mts., Arizona, U.S.A., Nov, 1924, E.B.B

G. Neilgherriensis C.M. ("This is usually considered a synonym of *G. ovata* W. & M.," H.N.D.), Kodai-Kanal, Indes Anglaises,—— 1912, leg. Rev. Pere Foreau, com J.C.

G. leucophæa Grev., Monte, Grand Canary March 1925, E.A.

G. azorica Ren. & Card., La Mina Forest, 3000 ft., Tenerife, April 1925, E.A.

Ptychomitrium nigricans (Kunz.) Schp., Monte, Grand Canary, March 1925, E.A.

Tortula membranifolia Hook (*Crossidium squamigerum* (Vir.) Jur.), Pico de Tafira, Monte, Grand Canary, March 1925, E.A.

T. atrovirens Lindb., Monte, Grand Canary, March 1925, & Puerto Cruz, Tenerife, April 1925, E.A.

T. cuneifolia Roth., Monte, Grand Canary, March 1925, E.A.

T. aurea Bartr., Empire Mts., Arizona, U.S.A. Jan. 1925, E.B.B.

T. Williamsii Bartr., Patagonia Mts., Arizona, U.S.A., Nov. 1924, E.B.B.

Barbula convoluta Hedw., Monte, Grand Canary, March 1925, E.A.

Trichostomum mutabile Bruch., Santa Brigida, Grand Canary, March 1925 & Puerto Cruz, Tenerife, April 1925, E.A.

T. flavovirens Bruch., Montana de Las Cuatro Peurtas, Grand Canary, March 1925, E.A.

T. nitidum Schp., Monte, Grand Canary, March 1925, E.A.

Pleurochaete squarrosa Lindb., Monte & Santa Brigida, Grand Canary, March 1925, E.A.

Encalypta vulgaris Hedw., Las Lagunetas, 4000 ft., Grand Canary, March 1925, E.A. New to Grand Canary. "*E. vulgaris* a été récolté en Tenerife," A. Luisier, H.N.D.

Merceya ligulata (Spruce) Schp., Patagonia Mts., Arizona, U.S.A., Jan. 1925, E.B.B.

Orthotrichum ripestre Schleich., var *Sturmi*, Juratz., Las Lagunetas, 4000 ft., Grand Canary, March 1925, E.A.

O. diaphanum Schrad., Monte, Grand Canary, March 1925, E.A.

Physcomitrium immersum Sull., Mountain View, New Jersey, U.S.A., Nov. 1924, A.T.B.

Funaria Fritzei Geheeb., Puerto Cruz, Tenerife, April 1925, E.A.

Aulacomnium androgynum Schwægr., New Denver B.C., Canada, Nov. 1925, c.fr., F.A.McF. "This is quite correct. The fruiting plant seems to be usually robust; I have a precisely similar gathering from B.C. in my herbarium," H.N.D.

Anacolia Menziesii (Turn.) Par, New Denver, B.C., Canada, Nov. 1925, F.A.McF.

Bartramia stricta Brid., Las Lagunetas, 4000 ft., and Santa Brigida, Grand Canary, March 1925, E.A.

Haplodontium Notarisii Mitt., Las Lagunetas, 4000 ft., Grand Canary, March 1925, E.A.

Pohlia polymorpha H. & H., Santa Rita Mts., Arizona, U.S.A., Nov. 1924, E.B.B.

Anomobryum latifolium Card. & De la V., Kodai-kanal, Indes Anglaise, — 1912, leg. Rev. Pere Fareau, com. J.C.

Bryum canariense Brid., Monte, Grand Canary, March 1925, E.A.

B. platyloma Schwæg., Las Mercedes Forest, 2000 ft., Tenerife, April 1925, E.A.

B. valdicostatum Card. & Dix., Monte, Grand Canary, March 1925, E.A.

B. atropurpureum W. & M., Tafira, Grand Canary, March 1925, E.A.

B. alpinum Huds. var. *meridionale* Schp., Monte & Las Lagunetas, Grand Canary, March 1925, E.A.

Fontinalis antipyretica L., var. *gigantea* Sull., Mt. St. Hilaire, Quebec, Canada, July 1912, leg. H. Dupret, com. P.G.M.R. "Quite correct I think," H.N.D.

F. dalecarlica B. & S., Laurentian Hills, Quebec, Canada (no date), leg. H. Dupret, com. P.G.M.R. "This appears to be the glossy form referred to by Mr. Dixon in the 1925 Report," P.G.M.R. "This is very near the plant referred to, but it is not quite identical, being less glossy," H.N.D.

F. nitida Kindb. & Arn., Pukhaist Creek, Kamloops Distr., B.C., Canada, June 1910, leg. A. Brinkman, det. G. B. Kaiser, com. P.G.M.R. "This appears to me to be quite correct," H.N.D.; New Denver, B.C., Canada, Sept. 1925, F.A.McF. "I do not care to criticize in the case of

so critical a genus as *Fontinalis*. But this plant is quite different from the specimens of *F. nitida* I possess, one leg. Dupret, fide Carnot. Both these are, as the plant is described, 'soft, lax, delicate,' with leaves 'scattered, erect-spreading,'" H.N.D.

Barbella pendula (Sull.) Fleisch., Pulney Hills, Indes Anglaises, — 1912, leg. Rev. Pere Foreau, com. J.C.

Meteoropsis squarrosa Fleisch., Pulney Hills, Indes Anglaises, — 1912, leg. Rev. Pere Foreau, com. J.C.

Neckera Menziesii Hook., New Denver, B.C., Canada, Nov. 1925, F.A.McF.

N. intermedia Brid., Las Mercedes & La Mina Forests, Tenerife, April 1925, E.A.

Neckeropsis undulata Hedw., var. *gracilis*, Florida, U.S.A., March 1923, leg. W. Steven, com. D.R.R. "This is a duplicate of a plant described by me as *N. undulata* (Hedw.), f. *gracilis*. It has not been described as a var.," H.N.D.

Homala Targioniana Gough, Pulney Hills, Indes Anglaises, May 1925, leg. Rev. Pere Foreau, com. J.C.

H. Jamesii Schp., Gulf Road, Catskill Mts., New York, U.S.A., Nov. 1925, A.T.B.

Thelia asprella Sull., Southfield, New York, U.S.A., Dec. 1925, A.T.B.

Fabronia pusilla Raddi, Las Lagunetas, 4000 ft., Grand Canary, March 1925, E.A. "New to Canaries," H.N.D.

F. Wrightii Sull., Santa Catalina Mts., Arizona, U.S.A., Jan. 1925, E.B.B.

Leucodon sciuroides Schwæg., Santa Brigida and Las Lagunetas, 4000 ft., Grand Canary, March 1925, E.A.

L. (Astrodontium) Canariense, La Mina Forest, 3000 ft., Tenerife, April 1925, E.A.

Pterogonium gracile Swartz., "a form which may be called *flagellifera*," H.N.D. Among *Madotheca*, Las Lagunetas, 4000 ft., Grand Canary, March 1925, E.A.

Habrodon Notarisii Schp., Las Lagunetas, 4000 ft., Grand Canary, March 1925, E.A.

Lindbergia Austini (Sull.) Broth., Santa Rita Mts., Arizona, U.S.A., Feb. 1925, E.B.B.

Haplocladium microphyllum (Sw.) Broth., Santa Rita Mts., Arizona, U.S.A., Feb. 1925, E.B.B.

Pseudoleskeella tectorum (A. Braun) Kindb., var. *flagellifera* Best, Santa Catalina Mts., Arizona, U.S.A., Jan. 1925, E.B.B.

Pseudoleskea pallida Best, Mt. Lemon, Arizona, U.S.A., Oct. 1924, E.B.B. "My specimen of the type, Colorado, leg. Brandegger, sent to me by Dr. Best, has the leaves of softer texture, narrower, less carinate nerve, blunter points, and distinctly wider and more pellucid cells, cf. figures in Best's revision of *Pseudo-*

leskea in Bull. Torr. Bot. Club. This appears to me nearer to *P. oligoclada* Kindb. than to *P. pallida*, but perhaps a distinct species," H.N.D.

Thuidium subscissum C.M., Ile de Nossi, Madagascar, Jan. 1924, leg. Rev. Pere Rambaud, com. J.C.

Entodon seductrix (Hedw.) C.M., Haskel, New Jersey, U.S.A., Dec. 1925, A.T.B.

Homomallium mexicanum latifolium Card., Mt. Lemon, Arizona, U.S.A., Oct. 1924, E.B.B.

Trachyphyllum fabronioides (C.M.) Gepp, Ile de Nossi-Bé, Madagascar, Jan. 1924, leg. Rev. Pere Rambaud, com. J.C.

Pleuropus euchloron (Bruch.) Broth., on bark of boxwood from Georgia, Caucasus, March 1924, com. W.G.T.

P. sericeus Dixon (*Camptothecium sericeum* Kindb., *Homalothecium sericeum* B. & S.), Monte, Grand Canary, March 1925, E.A. ; La Mina Forest, 3000 ft., Tenerife, April 1925, E.A. "This is a very marked form ; brilliant shining yellow-green, with extremely slender, attenuate, flagelliform branches, growing 8 to 10 ft. from the ground on tree trunks in the moist, high forest in N.E. Tenerife. I found an exactly similar plant in 1909 on laurels in Madeira at over 4500 ft.," E.A.

Camptothecium pinnatifidum S. & L. Jaeg., New Denver, B.C., Canada, Nov. 1925, F.A.McF. "*C. pinnatifidum* has leaf base entire, while here it is slightly toothed. I should consider this a form of *Pleuropus sericeus* (*Homalothecium sericeum*). *C. pinnatifidum* is now considered a form of *C. aureum*, of which it also has the colour—here absent," H.N.D.

Brachythecium rivulare B.E., Gulf Road, Catskill Mts., New York, U.S.A., Nov. 1925, A.T.B.

B. lamprochryseum C.M. & Kindb., New Denver, B.C., Canada, Oct. 1925, F.A.McF. "This cannot be correct. *B. lamprochryseum* has all the leaves narrowly and longly acuminate, plicate, and golden in colour. This I should say is *B. rivulare*," H.N.D.

Eurhynchium praelongum (L.) Bryhn., var. *Stokesii* (Turn). Dixon, New Denver, B.C., Canada, Nov. 1925, F.A.McF.

E. myosuroides Schp., La Mina Forest, 3000 ft., Tenerife, April 1925, E.A.

Trichostelium leptorhynchoides (Mont.) Card., Thunbaganur, Indes Anglaises, Jan 1912, leg. Rev. Pere Foreau, com. J.C.

Plagiothecium piliferum B. & S., L. O'Hara, B.C., Canada, July 1925, F.A.McF.

Amblystegium Sprucei B. & S., New Denver, B.C., Canada, Oct. 1925, F.A.McF. : *idem* com. P.G.M.R.

Drepanocladus uncinatus (Hedw.) Warnst., near Banff, Alberta, Canada, July 1925, det. J. W. Bailey, F.A.McF. ; Lake O'Hara B.C., July 1925, F.A.McF.

Hypnum canadense Kindb., Bosun Pond, New Denver, B.C., Canada, June 1925, leg. F.A.Mc.F., com. P.G.M.R. "This is neither *H. canadense* nor *H. subimponens*. *H. canadense*, of which I have an authentic specimen, det. Kindberg, differs little from *H. imponens*, of which it has the branching and the alar cells. The present plant differs entirely in the straggling stems, lax foliage, large, shortly pointed entire leaves, and rather numerous, lax, but not inflated or isodiametric alar cells. It is, I think, certainly *H. pratense* Koch (cf. Bry. Eur., tab. 611). *H. subimponens*, as Ren. & Card. have pointed out, has nearly always distinct nerves, which may sometimes reach to near mid-leaf. The alar cells are few and inconspicuous," H.N.D.

H. subimponens Lesq., New Denver, B.C., Canada, June 1925, det. Dr. Bailey, Tange Bridge Apex, New Denver, and Sandon Wood, B.C., Nov. 1925, leg. F.A.Mc.F., com. P.G.M.R. "These are all correct," H.N.D.; Trail to Rambler's Mine, Sandon, B.C., Sept. 1925. "This is *H. uncinatum*, forma," H.N.D.

H. revolutum Lindb., Banff, Alberta, Canada, July 1925, F.A.Mc.F.

H. circinale Hook., New Denver, B.C., June 1925, leg. F.A.Mc.F., com. P.G.M.R.

H. turgescens Schp., New Denver, B.C., Sept. 1925, F.A.Mc.F. "Mr. Dixon agrees to the naming," J.B.D.

H. (Calliergon) giganteum Schp., Bosun, B.C., Oct. 1925, F.A.Mc.F.

H. robustum Hook., New Denver, B.C., Nov. 1925, F.A.Mc.F.

Isopterygium deplanatum (Sull.) Mitt., Mt. Lemon, Arizona, U.S.A., Oct. 1924, E.B.B.

Hepatics

European (British and Continental)

- Sphaerocarpus texanus* Aust., Vendée, France, March 1924, J.C.
Riccia Michellii Raddi, Cap d'Antibes, S. France, Jan. 1926, D.A.J.
R. Lescuriana Aust., Vendée, France, April 1924, J.C.
R. commutata Jack, Stanton Lacy (40*), Sept. 1925, E.A. ;
 var. *acrotricha* Levier, Stanton Lacy (40*), Sept. 1925, E.A.
R. sorocarpa Bisch., Cap d'Antibes, S. France, Jan. 1926, D.A.J. ; Abbey Wood (16), Dec. 1925, St.J.M.
R. nigrella D.C., Cap d'Antibes, S. France, Jan. 1925, D.A.J.
R. fluitans L., Northfleet (V.C. 16), July 1925, St.J.M.
Targionia hypophylla L., Vendée, France, April 1924, J.C.
Reboulia hemisphaerica (L.) Raddi, Vendée, France, April 1924, J.C.
Lunularia cruciata (L.) Dum., Vendée, France, April 1924, J.C.
Marchantia polymorpha L., Joyden's Wood (16), June 1925, St.J.M.
Metzgeria pubescens (Schrank) Raddi, Malmédy, Belgium, June 1925, J.H.
Pellia Fabbroniana Raddi, var. *furcigera*, Stanton Lacy (40), Sept. 1925, E.A.
Fossombronia Wondraczeki (Corda) Dum., Vendée, France, Feb. 1925, J.C.
F. Husnoti Corb., Cannes, S. France, Jan. 1925, D.A.J.
Gymnomitrium concinnatum (Lightf.) Corda, var. *intermedium* Limpr., Albula Pass, Switz., June 1925, P.W.M.R.
G. obtusum (Lindb.) Pears., Creigiau Gleision (49), alt. 1700 ft., Oct. 1925, A.W.
G. crenulatum Gottsche, Moel-yr-Ogof (49), alt. 2000 ft., Sept. 1924, D.G.C.
Marsupella Pearsoni Schiffn., Mangerton (I. 2), July 1925, J.B.D.
M. Sullivantii (De Not.) Evans, Tyndrum (88), Aug. 1913, J.B.D.
Alicularia compressa (Hook.) Nees, Brandrith (70), Aug. 1910, J.B.D. ; var. *gigantea* Macv., locus classicus (W. & W.), Bowfell (69), com. W.G.T.
A. scalaris (Schrad.) Corda, Storeton (58), March 1924, W.G.T.
A. Geoscyphus De Not., var. *suberecta* Lindb., Farningham (16), May 1925, St. J.M.

Aploxia crenulata (Sm.) Dum., var. *gracillima* (Sm.) Heeg, Keston Comm. (16), March 1925, D.G.C.

A. caespiticia Lindb., Leckhampton (33), Nov, 1925, H.H.K.

A. sphaerocarpa (Hook.) Dum., var. *tersa*, Riesengebirge, Germany, July 1909, J.W.

A. atrovirens (Schleich) Dum., var. *sphaerocarpoidea* (De Not.) Massal., Bois de Granfrey, Fribourg, Switz., Nov. 1925, P.G.M.R.

Southbya nigrella Spr., Cannes, S. France, Nov. 1925, D.A.J.

Gymnocolea inflata (Huds.) Dum., Schilde, Belgium, Oct. 1925, J.H.

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

L. ventricosa (Dicks.) Dum., Calmpthout, Belgium, July 1925, J.H.

L. lycopodioides (Wallr.) Cogn., Albula Pass, Switz., June 1925, P.W.M.R.

Sphenobolus minutus (Crantz.) Steph., var. *cuspidatus* Kaal., Splügen, Switz., July 1924, H.H.K. & J.B.D

Plagiocchia asplenoides (L.) Dum., Malmédy, Belgium, June 1925, J.H.; var. *major* Nees, Symond's Yat (34*), Aug. 1925, E.A.; f. *subintegerima* Schiffn., Stanton Lacy (40*), Sept. 1925, E.A.; Tintern (35*), April 1925, E.A.; var. *minor* Lindenb., Tring (24), Feb. 1924, D.G.C.

Leptoscyphus Taylora (Hook.) Mitt., Ingleborough (64), June 1914, W.G.T.

Lophocolea heterophylla (Schrad.) Dum., Vauchoux, France, Sept. 1924 J.C.

L. fragrans Moris et de Not., moist hedge bank, Lyme Regis (9*), Nov. 1925, W.E.N. "I gathered from Dr. Macvicar that the notable habitat on moist earth was most unusual. Dorsetshire is an extension eastward of the known range of the plant," W.E.N.

Chiloscyphus polyanthus (L.) Corda, var. *rivularis* (Schrad.) Nees, Bossington (5), Aug. 1925, D.G.C.

Harpanthus scutatus (Web. et Mohr) Spruce, Killarney, (I. 1), July 1925, H.H.K. & J.B.D.

Cephalozia bicuspidata (L.) Dum., Vendée, June 1924, J.C.

C. Lammersiana (Hüb.) Spruce, Keston Comm. (16), March 1925, D.G.C.

C. hibernica Spruce, M.S. Pears., Killarney (I. 1), July 1925, W.E.N., H.H.K. & J.B.D.

C. serriflora Lindb., Tore Mt., Killarney (I. 2), June 1925, J.B.D., W.E.N. & H.H.K

C. fluitans Spruce, Dunkery Beacon (5), Aug. 1925, D.G.C. "This is *Gymnocolea inflata*. The leaf cells are too small for the *Cephalozia*, and there are no underleaves. Also there are some perianths present," H.H.K.

- Nowellia curvifolia* (Dicks.) Mitt., Killin (88), Aug. 1925, D.B.B.
Cephaloziella byssacea (Roth.) Warnst. (= *C. Starkei*), Vendée, France, Feb. 1925, J.C.
- C. Nicholsoni* Douin et Schiffn., Carbis Bay (1), Nov. 1919, H.H.K. & W.E.N.
- Dichiton calyculatus* (Dur. & Mont.) Schiffn., Vendée, France, Feb. 1925, J.C.
- Prionolobus Turneri* (Hook.) Schiffn., Vallnevis, S. France, Jan. 1926, D.A.J.
- Odontoschisma Sphagni* (Dicks.) Dum., Calmpthout, Belgium, July 1925, J.H. ; East Burnham (24*), 1925, P.W.M.R.
- Adelanthus decipiens* (Hook.) Mitt., Tore Mt., Killarney (I. 2), June 1925, J.B.D., W.E.N. & H.H.K.
- A. dugortiensis* Douin & Lett., Slievemore (I. 27), Aug. 1911, D.A.J. & J.B.D. ; *idem* July 1925, J.B.D., W.E.N. & H.H.K.
- Calypogeia arguta* Nees & Mont., Polperro (2), Jan. 1926, F.R. ; Keston Comm. (16), March 1925, D.G.C.
- Bazzania trilobata* (L.) Gray, Tore Mt., Killarney (I. 2), July 1925, J.B.D. ; Riesengebirge, Germany, July 1909, J.W.
- B. Pearsoni* (Steph.) Pears., Slievemore (I. 27) & Mangerton (I. 2), July 1925, W.E.N., H.H.K. & J.B.D.
- Lepidozia pinnata* (Hook.) Dum., Killarney (I. 2), July 1925, H.H.K. & J.B.D.
- L. reptans* (L.) Dum., var. *julacea* Nees, Forest of Dean (34*), April 1925, E.A.
- L. trichoclados* K. Müll., Tore Mt., Killarney (I. 2), July 1925, W.E.N., H.H.K. & J.B.D.
- L. setacea* (Web.) Mitt., Trelleck Bog (35), Aug. 1925, W.G.T.
- Chandonanthus setiformis* (Ehrh.) Lindb., var. *alpinus* (Hook.) Kaal., Cheviot (68*), Sept. 1925, J.B.D.
- Mastigophora Woodsii* (Hook.) Nees, Mangerton (I. 2), July 1925, W.E.N. & J.B.D.
- Ptilidium ciliare* (L.) Hampe, Clee Hill (40), Sept. 1925, E.A. ; Calmpthout, Belgium, July 1925, J.H.
- P. pulcherrimum* (Web.) Hampe, Harz Mts., Germany, July 1925, J.W.
- Trichocolea tomentilla* (Ehrh.) Dum., Craig Chailleach (88), Aug. 1925, D.B.B. ; Harz Mts., Germany, July 1925, J.W.
- Diplophyllum albicans* (L.) Dum., Vendée, France, Oct. 1924, J.C. ; Harz Mts., Germany, July 1899, J.W.
- D. obtusifolium* (Hook.) Dum., Killin (88), Aug. 1925, D.B.B. "Correct, but mixed with *D. albicans*," H.H.K.
- Scapania compacta* (Roth.) Dum., Vendée, France, Nov. 1924, J.C.
- S. subalpina* (Nees) Dum., Ben Laoigh & Meall Tarmachan (88), Aug. 1913, J.B.D.

S. aspera Bernet, near Lewes (14), — 1908, W.E.N.; Muckcross (I. 2), July 1925, W.E.N., H.H.K. & J.B.D.; Forest of Dean (34), April 1925, and Symond's Yat (34), Aug. 1925, E.A.

S. ornithopodioides (With.) Pears., Slievemore (I. 2), July 1925, J.B.D.

S. obliqua (Arnell) Schiffn., Glyders (49), Aug. 1912, J.B.D.

S. unbulata (L.) Dum., Rochers au bord du Rahin, Haute Saône, France, June 1924, J.C.; Larig Ghru (96), Aug. 1923, D.B.B.

S. dentata Dum., var. *speciosa* Nees, Aberglaslyn (49), Aug 1916, P.G.M.R.

Radula Carringtoni Jack., Eagles' Nest (I. 1), July 1925, W.E.N., H.H.K. & J.B.D.

R. aquilegia Tayl., Achill (I. 27), July 1925, W.E.N., H.H.K. and J.B.D.

Pleurozia purpurea (Lightf.) Lindb., Mangerton (I. 2), July 1925, J.B.D.; Moidart (97), Aug. 1910, W. Ingham, com. P.G.M.R.; Killarney (I. 2), July 1924, P.G.M.R.

Madrothea laevigata (Schrad.) Dum., Tore Waterfall, Killarney (I. 2), July 1909, W.G.T.; var. *Thuja* Nees, Mullion Cove (1), Aug. 1924, P.W.M.R.

M. Thuja (Dicks.) Dum., Mangerton (I. 2), July 1925, J.B.D.

M. Baueri Schiffn., Gruyères, Cant., Fribourg, Switz., June 1922, P.G.M.R., teste., W.E.N. (New to Canton).

M. Porella (Dicks.) Nees, Harlech (48), April 1921, D.A.J. and J.B.D.

Lejeunea flava (Swartz.) Nees, Eagles' Nest (I. 1), July 1925, W.E.N., H.H.K. & J.B.D.

L. Holtii Spruce, Killarney (I. 2), July 1925, W.E.N., H.H.K., and J.B.D.

Microlejeunea ulicina (Tayl.) Evans, Trees near Conway Falls (50), July 1925, A.W.

Frullania germana (Tayl.), Killarney (I. 1) & Clifden (I. 16), July 1925, W.E.N., H.H.K. & J.B.D.

F. fragilifolia Tayl., Vendée, France July 1924, J.C.

F. tamarisci (L.) Dum., Watermouth Bay (4), Aug. 1924, D.G.C.

Anthoceros crispulus (Mont.) Douin, Stanton Lacy (40*), Sept. 1925, E.A.

A. laevis L., Stanton Lacy (40*), Sept. 1925, E.A.

Non-European Hepatics

Riccia nigrella D.C., Monte, Grand Canary, March 1925, E.A.

R. erinacea Schiffn., Monte, Grand Canary, March 1925, E.A.

Tesselina pyramidata Dum. Monte, Grand Canary, March 1925, E.A.

Corsinia marchantioides Raddi, Monte, Grand Canary, March 1925, E.A.

Targionia hypophylla L. Monte, Grand Canary, March 1925, E.A.

Plagiochasma rupestre (Forst.) Steph., Grand Canary, March 1925, E.A.

Reboulia hemisphaerica (L.) Raddi, Canary Islands, March 1925, E.A.; Las Mercedes Forest, Tenerife, March 1925, E.A.

Grimaldia dichotoma Raddi, Monte, Grand Canary, March 1925, E.A.

Lunularia cruciata (L.) Dum., Grand Canary, March 1925, E.A.

Aneura multifida (L.) Dum., logs, Sanford, Florida, U.S.A., — 1924, S. Rapp, com. P.G.M.R. "Rather different in appearance and habitat from our British plants, but the branches have the unistratose margins of *A. multifida*," H.H.K.

A. palmata (Hedw.) Dum., stump, Stanford, Florida, U.S.A., — 1924, S. Rapp, com. P.G.M.R. "This is not the same as our British *A. palmata*. The cross-section of the fronds is not right; also I found a monoicous frond. Possibly there may be a mixture," H.H.K.

Fossombronia caespitiformis De Not., Grand Canary, March 1925, E.A.

F. angulosa (Dicks.) Raddi, Tenerife, April 1925, E.A.

Marsupella emarginata (Ehrh.) Dum. Tenerife, April 1925, E.A.

Alicularia scalaris (Schrad.) Corda, Tenerife, April 1925, E.A.

Gongylanthus ericetorum (Raddi) Nees, La Mina Forest, Tenerife, April 1925, E.A.

Saccogyna viticulosa (Sm.) Dum., Tenerife, April 1925, E.A.

Radula Lindbergii Göttsche, Grand Canary, March 1925, and Tenerife, April 1925, E.A.

Madotheca levigata (Schrad.), Dum., var. *obscura* Nees, Tenerife, April 1925, E.A.; var. *Thuja* Nees, Grand Canary, March 1925, E.A.

Leptocolea cardiocarpa (Mont.) Evans, on palmetto leaves, Sanford, Florida, U.S.A., Jan. 1925, S. Rapp, com. P.G.M.R.

Harpalejeunea ovata (Spruce) Schiffn., Tenerife, April 1925, E.A.

Frullania dilatata (L.) Dum., forms of, Grand Canary, March 1925, E.A.

F. polysticta Lindb., Grand Canary, March 1925, E.A.

F. Teneriffae Nees, Tenerife, April 1925, E.A.

Anthoceros Husnoti Steph., Grand Canary, March 1925, E.A.

A. dichotomus Raddi, Grand Canary, March 1925, E.A.

REPORT OF THE ANNUAL MEETING 1925

ELEONORA ARMITAGE

[*Extracted from THE JOURNAL OF BOTANY, October 1925, p. 311.*]

The British Bryological Society held its Annual Meeting and Excursion at Ross, Herefordshire, for the Wye Valley, under the Presidency of the Rev. C. H. Binstead, Vice-President, in the absence of Dr. S. M. Macvicar, from August 14 to 21. The rocky limestone woodland of the Wye Gorge, including the Great Doward, Herefordshire, and Symonds Yat, Gloucestershire, was well explored and interesting plants were found, especially *Anomodon longifolius* and *Eurhynchium striatulum*; others included *Barbula Nicholsoni*, *Neckera crispa* var. *falcata*, *Aplozia atrovirens* var. *sphaerocarpoidea*, *Scapania aspera*, *Madotheca laevigata*, &c. The Sandstone and Conglomerate of the Chase and Penyard Woods at Ross yielded *Campylopus flexuosus* in fruit, *Leptodontium flexifolium*, *Philonotis capillaris*, *Mnium stellare*, *Lophozia attenuata*, *Bazzania trilobata*, *Scapania compacta*, &c. May Hill, just over the Gloucestershire border, showed a relict swamp-vegetation, including several Sphagna, and Mr. R. O. G. Wynne gave a lucid account of the geological aspect, the May Hill (or Llandovery) rock and other Silurian strata being in evidence. During the visit to Trelleck Bog in Monmouthshire a very large number of interesting Sphagnum forms were detected, besides hepatics, as *Leptoscyphus anomalus*, *Cephalozia connivens* var. *compacta*, and *Lepidozia setacea*, while on rocks in woodland above the bog *Dicranum Scottianum* new to v.c. 35, was found, and at Tintern *Eurhynchium curvisetum* was also recorded for the county. Several of the members included Lichens in their survey. The party, including members and friends, numbered 42; in the evenings the business of the Society was transacted. The officers were re-elected, except that owing to Mr. D. A. Jones's coming absence abroad for some months, Miss E. Armitage was asked to act as Secretary temporarily. The Committee recommended that printing of a new edition of the *Moss Census Catalogue* be proceeded with. Dr. Trotter showed his very valuable card-index scheme for the purposes of bryological bibliography. The next meeting will be held at Ingleton, Yorks at Whitsuntide, 1926.

Bryological Publications in 1925

Compiled by DR. L. B. C. TROTTER, M.D.

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- AMANN, J.—Catal. des espèces europ. du genre *Bryum*.
Rev. Bryol. 1925, pp. 1—16.
- ANDRES, H.—Beobachtungen an *Buxbaumia aphylla* (L.).
Hedwigia, 1925, pp. 341—8, figs. 2.
- ANDREWS, A. le R.—Reviews. (a) Engler. Pflanzenfamilien,
2nd Edit. Musci. (b) Fleischer. Musci d. Fl. von
Buitenzorg. *Bryologist*, 1925, pp. 35—8.
(c) Brotherus. Laubmoose Fennoskandias. *Jour. Bot.*
LXII.
- BARTRAM, E. B.—Mosses of Western Mexico (2 spp. nov.).
Bryologist, 1925, pp. 64—6, fig. 1.
Review. Prof. Holzinger's *Musci acrocarpi* Bor. Amer.
et Europ. *Bryologist*, 1925, pp. 68—9.
- BAUER, E.—*Musci Europ. et Amer. Exsiccati*, Sched. u.
Bemerk. zur 36 Ser. Pubd. by author, Prag-Smichov,
Czechoslovakia.
Ditto, 37 Serie.
- BEALS, A. T.—Review. T. R. Sim's Mosses of S.W. Portion
of S. Africa. *Bryologist*, 1925, pp. 38—9.
- BELIAEVA, A. J.—Abnormalitäten bei *Polytrichum*. *Not.*
Syst. Inst. Crypt. Hort. Bot. Repub. Rossic. III., 1924,
pp. 49—53.
- BOROS A.—Two Fossil Species of Mosses from the Diluvial
Lime Tufa of Hungary. *Bryologist*, 1925, pp. 29—32,
Pl. 1.
Grundzüge der Flora der linken Drauebene mit
besondere Berücksichtigung der Moore; *Musci. Mag.*
Bot., Lapok, 1925, pp. 21—3.
Funaria Hungarica sp. nov. *Ibid*, pp. 73—5.
Beiträge zur Moosflora Ungarns. *Ibid*, pp. 77—80.
Die Flora der Moore von Egerbakta u. Kelemer.
Ibid, pp. 62—4.
- BURNHAM, S. H. & LATHAM, R. A.—Flora of the town of
Southold, Long Is. and Gardiner's Is., New York.
Torreyia, 1925, p. 80, Musci.

- CHASE, C. D.—List of Plants growing in the Grounds of Campbell Coll., Belfast (including 32 mosses). Ref. Jour. Bot. 1925, p. 338.
- DIXON, H. N.—Mosses from the Mount Everest Exped. 1924 (1 sp. nov.). Jour. Bot. 1925, p. 221—2.
Moss Remains in Russian Peat. Ibid, p. 370.
In G. H. Wilkins' "Gough Island," Musci. Jour. Bot, 1925, p. 70.
- DIXON, H. N. & NICHOLSON, W. E.—New British Bryophytes, I, Mosses. Jour. Bot. 1925, pp. 125—7.
- DRUCE, C.—Review. Dixon's Handbook of Brit. Mosses, Ed. 3. Report of Bot. Soc. & Exch. Clb. of British Isles for 1924, 1925, Arbroath.
- DUPRET, H.—Notes on Drepanocladus. Bryologist, 1925, pp. 19—21.
- GEPP, A.—Review. Dixon's Handbook of Brit. Mosses, Ed. 3. Jour. Bot. 1925, p. 121.
- GERSTNER, J. J.—Vergleichende Studien über Laubmoosgeschlechterstande. Hedwigia, 1925, pp. 139—146.
- GRIMME, A.—Beiträge zur Laubmoosflora Niederhessens u. seiner Grenzgebiete. Abhand. Ver. für Naturkunde zu Cassel, Vol. 84—9, 1919—25.
- HENKEN, J. A.—A propos du Desmatodon cernuus Br. eur. Bull. Soc. roy. bot. Belgique, LVI., p. 164.
- HERZOG, TH.—Theorie u. Tatsachen der Moosverbreitung u. die Rolle des Peristomapparats. Flora, 1925, Jena, pp. 198—226.
- HOLZINGER, J. M.—Pottia Randii not a Pottia. Bryologist, 1925, p. 6.
Grimmia poecilostoma G. Cardoti Heribaud. Ibid, p. 7.
Dr. Brotherus' treatment of Dicranum. Ibid, p. 22.
Review. Dixon's Handbook, 3rd Ed. Ibid, p. 24—5.
Review. Brotherus' Laubmoose Fennoskandias. Ibid, p. 24—5.
Grimmia crinita Bridel var. capillata De Not. in N. America. Ibid, p. 32.
Some European mosses unrecorded from N. America. Ibid, p. 43.
Musci acrocarpi Bcr. Amer. et Europ Fasc. 22, Nr. 526—550, 1925 (exsiccati).

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The above list suffers from the defects inherent in all similar lists, viz., incompleteness ; the reason for this is that many publications do not come to hand until long after the date they bear. On this account it may be necessary to include in future lists not merely those that

have appeared during the previous year, but any late arrivals of the year before.

I should like to take this opportunity to thank all those who have so kindly helped in the compilation of the card-index ; Miss Roper and Mr. Sutton in particular have supplied me with information I could not have obtained myself.

Owing to limitation of space it has not been possible to publish a list of the numerous reprints received by the B.B.S. Library since the present scheme was initiated. On behalf of the B.B.S. I should like to thank the authors both in this country and abroad who have so generously presented copies of their works.

It is hoped that use will be made of the card-index by all who need information regarding bryological literature. It comprises over 3500 references, and I shall be pleased to abstract any that may be wanted. The index should be of especial use to those who are interested in bryophytes from any particular part of the globe, or desire to know what work has been done on any particular genus or ecological problem.

LESLIE B. C. TROTTER

3rd June, 1926.

Herbarium of the late Wm. Ingham.

This is now in the Botanical Dept. of Leeds University. The new V.C. Record Vouchers sent to Mr. Ingham are accessible in their new home.

W. H. BURRELL.

Obituaries

HENRY VAN DEN BROECK.

Born at Antwerp, 19th July, 1875, he died 28th March, 1926, after a short illness.

He was educated at the Antwerp St. Ignace Institute. After completing his studies, only to perfect himself in English and Spanish, he accepted for three years a post of commercial correspondent in an American Firm. After his retirement from business he displayed a real interest in nature, and especially in the study of plants; he then became intimately connected with the older botanist, H. de Bencker.

He devoted his leisure chiefly to the study of the Belgian Flora, adding soon several new and interesting records, and published valuable reports on the subject.

In 1884, he began the study of Bryology. He was on intimate terms with the great bryologist, Mons. Cardot, who gave him such valuable assistance and guidance in his arduous task, that a short time after, the pupil was passed master in this difficult branch and even became a recognised authority as Referee on *Harpidia* and *Sphagna*.

He worked hard, was indefatigable in study, in daily excursions and always ready to assist students in Botany. As leader of botanical excursions he set an example of enthusiasm, perseverance and endurance. By his death an important link with the old school of Systematic Botany has been snapped.

He was Vice-President of the Société Royale de Botanique de Belgique, of which he was a very active member since 1876, member of our British Bryological Society, and member of the Société Linnéenne de Lyon. His extensive collections go to the Botanical Museum at Brussels.

The death of M. H. Van den Broeck is an irreparable blow for Bryologists generally, for all those who knew him, but especially for the writer of this notice, his best friend and companion in the field during more than fifty years.

J. HENNEN.

J. C. WILSON, F.L.S.

Many members will be sorry to have heard of the death of Mr. J. C. Wilson, which occurred on September 11th of last year (1925), after an illness of considerable duration. Mr. Wilson had taken an interest in biological matters for the greater part of his life, commencing with the study of pond-life and general microscopy. About 1900 he turned his attention to the mosses, and joined the Moss Exchange Club. He soon came into touch with Messrs. Jones and Owen, and from that time was generally a member of the unofficial moss "forays" that did much to pave the way for the present Society. Many will bear witness to his talent for companionship. About the year 1912 he was elected a Fellow of the Linnean Society, and he was also a member of various scientific Societies in Manchester, and for many years did excellent work in lecturing on and popularising the study of biology. In his professional life he is described as "pre-eminently a family lawyer of the old type, combining his professional work with friendly relations with his clients," and his skill in a legal capacity was highly rated by his fellows. He was in his 75th year at his death.

P. G. M. RHODES.