

MOSS EXCHANGE CLUB,  
SECTION II.

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◇ REPORT ◇

FOR THE YEAR 1917.

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DISTRIBUTER :

Mr. F. RILSTONE, Polperro, S.O., Cornwall.

SECRETARY :

Mr. D. A. JONES, M.Sc., F.L.S., Rock House,  
Harlech, N. Wales.

TREASURER :

Mr. J. B. DUNCAN, Bewdley, Worcestershire.

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BEWDLEY :

W. E. TOLLEY, PRINTER, 29, LOAD STREET.

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**REFEREES:**

Sphagnum .. .. . Mr. W. R. SHERRIN.

Harpidium .. .. Mr. J. A. WHELDON, F.L.S.,  
60 Hornby Road, Walton, Liverpool.

Pleurocarpi (except Harpidium) .. Mr. G. B. SAVERY.

Hepatics, and remaining genera of Mosses .. Mr. D. A. JONES.

LIST OF MEMBERS, 1917.	Mosses	Hepatics	Total.
Mr. W. Bellerby, 8 Burton Lane, York ... ..	122	54	176
Mr. H. Bendorf, 4 Sedgely Avenue, Prestwich Manchester	18	...	18
Mr. J. Blundell, 29 Aldridge Rd. Villas, London W. 11 ...	45	14	59
Rev. H. Boyden, M.A., 46 St. Leonard's Road, Exeter ...	...	...	...
Mr. H. C. Broome, Netherthorpe, Failsworth, Manchester	...	...	...
Miss C. M. Cooper, Hillside Cottage, Bushey, Herts ...	3	8	11
Mr. R. H. Corstorphine, B.Sc., Hillside House, Arbroath, N.B. ... ..	...	...	...
Mrs. M. Corstorphine, Hillside House, Arbroath, N.B. ...	2	4	6
Dr. H. Downes, F.L.S., Ditton Lea, Ilminster, Somerset ...	...	...	...
Mr. J. B. Duncan, Bewdley, Worcestershire ... ..	...	...	...
Miss E. J. Fry, University College, Aberystwyth ... ..	...	...	...
Mr. J. Glover, Sea View, Kirkcubbin, Co. Down ... ..	142	43	185
Mr. G. H. Goode, 86 Adams Avenue, Northampton ... ..	...	...	...
Mr. G. T. Harris, Kelso, Knowle Park, Sidmouth ... ..	68	...	68
Mr. J. W. Hartley, Mill Head House, Carnforth ... ..	...	...	...
Rev. H. H. Harvey, Clawton, Holsworthy, Devon ... ..	5	...	5
Mr. A. R. Horwood, The Museum, Leicester ... ..	...	...	...
Miss E. M. Hough, Codsall Wood, near Wolverhampton ..	...	...	...
Mr. J. D. Houston, 82 Hill Street, Lurgan, Co. Armagh ...	138	30	168
Rev. R. Jackett, F.L.S., St. Ishmael's Vicarage, Milford Haven ... ..	246	18	264
Mr. D. A. Jones, M.Sc., F.L.S., Rock House, Harlech, N. Wales ... ..	199	70	268
Mr. J. Mennell, 27 Neville Street, York ... ..	27	1	28
Mr. G. W. Moses, 19 Victoria Street, Bishop Auckland ...	...	...	...
Mr. P. G. M. Rhodes, M.A., 33 Duchess Rd., Edgbaston, Birmingham ... ..	112	...	112
Mr F. Rilstone, Schoolhouse, Polperro, S.O., Cornwall ...	104	25	129
Mr. G. B. Savery, Silverton, Exeter ... ..	23	...	23
Mr. W. R. Sherrin, The Museum, Exeter ... ..	34	..	34
Mr. R. W. Smitham, Fowey, Cornwall ... ..	40	29	69
Mr. H. Stansfield, 20 Park Grove, York ... ..	74	6	80
Dr. T. Stephenson, Epworth, North Road, Aberystwyth ...	...	...	...
Mr. A. Sutton, 9 Brookfield Park, London, N.W. 5 ... ..	27	...	27
Mr. W. N. Tetley, Portora, Enniskillen ... ..	50	23	73
Mr. W. G. Town, 18 Howarth Street, Nelson, Lancs. ... ..	...	...	...
Mr. W. G. Travis, 9 Barton Road, Liverpool ... ..	44	28	72
Rev. J. H. Ward 16 Hartley Road, Exmouth ... ..	...	...	...
Prof. Lloyd Williams, University College, Aberystwyth ...	...	...	...
Mr. J. C. Wilson, F.L.S., 1500 Ashton Old Road, Manchester	40	64	104
Miss A. Wyndham, 16 Hartley Road, Exmouth ... ..	1	...	1
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## REPORT OF SECRETARY (1917).

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The Club continues in a flourishing condition. Five new members have joined during the year, bringing the number on roll to 38.

Last year's remarks regarding the preparation of specimens might well apply this year again. It is evident, that in spite of abnormal conditions, much interest continues to be taken both in Mosses and Hepatics. A fairly large number of specimens were sent to the referees for examination and many new V.C. records were added.

The study of the Sphagnaceae has been revived of late. The Synopsis of the European Sphagna, compiled from Warnstorff's *Sphagnologia Universalis*, 1911 for the Moss Exchange Club, by Mr. J. A. Wheldon, F.L.S., is a great acquisition and should be in the hands of all who are interested in the study of peat mosses. Copies may be obtained from the Hon. Sec., Mr. William Ingham, B.A., 6 Sycamore Terrace, Clifton, York. Price 2/6 plus 3d. postage.

Mr. Savery, who has acted for many years as distributor to the Club, is now retiring and Mr. Rilstone has kindly promised to be his successor. We are all very much indebted to Mr. Savery for carrying on the arduous duties of distributor for such a long period, and it is gratifying to understand that he has consented to continue to act as a referee for the Mosses.

It is very desirable that all subscriptions should be prepaid to the Treasurer early in January of each year.

D. A. JONES,  
Hon. Secretary.

Harlech,  
May 15th, 1918.

## REPORT OF DISTRIBUTER (1917).

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The past year has been a successful one for the Club, there being a considerable increase in the number of packets sent in and the contributing members being much more numerous than last year. Many of the specimens were of considerable interest and the Sphagna, of which there was an unusual quantity, will, after passing through the hands of the referees, be of particular value to the members as type specimens—an absolute necessity in the study of such critical plants. In addition to the ones marked with a star, several of the plants recorded are probably new to their vice-counties. Of some mosses a rather large supply was sent and as nearly all members have now been supplied with them, I must ask for them not to be sent in quantity for the present. Their catalogue numbers are 71, 104, 105, 106, 179, 185, 233, 234, 272, 282, 293, 303, 382, 409, 423, 442, 511, 513, 524, 527, 564, 577, 579, 602, 604, 607, 609 and 610. A few specimens of even common species are acceptable but the material must be good.

The Club is again much indebted to Mr. H. N. Dixon and Mr. W. E. Nicholson for very interesting collections of specimens, and to the referees for verifying the plants sent in by the members. In addition to the Harpidia, Mr. Wheldon has examined the more critical Sphagna and Mr. Jones has been referee for all difficulties among the other mosses.

G. B. SAVERY,

Distributor.

May, 1918.

## BALANCE SHEET FOR THE YEAR 1917.

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<b>Receipts.</b>				<b>Expenses.</b>		
			£ s. d.			
Balance from last year's Account	..		1 15 11	Printing Report (1916)	.. ..	2 0 6
22 Subscriptions 1917	.. ..		2 15 0	Distributer's Expenses	.. ..	19 6
Arrears paid	.. ..		10 0	Secretary's	" .. ..	17 5
				Treasurer's	" .. ..	2 6
				Balance in hand	.. ..	1 1 0
			<u>£5 0 11</u>			<u>£5 0 11</u>

30th April, 1918.

J. B. DUNCAN,

Hon. Treasurer.

## MOSSES.

*Sphagnum cymbifolium* (Ehrh.) W. var. *flavescens* W., Raughlan (I. 37), Nov. 1917, J.D.H. "I should prefer to call this f. *fuscescens*." W.R.S.; var. *glaucescens* W., Derryloste (I. 37), Aug. 1917, J.D.H. "Is var. *glaucescens* f. *squarrosulum* subf. *pynocladum*." W.R.S.

*S. medium* Limpr. var. *obscurum* Derryinver (I. 37), July 1917, J.D.H. "*S. medium* var. *versicolor*." W.R.S.

*S. compactum* De Cand. var. *imbricatum* W. f. *obscurum* W., Widdy Bank Fell (\*66), Jan. 1909, P.G.M.R. det. W.R.S.; var. *imbricatum*, Camlough Mtn. (I. 37), Oct. 1917, J.D.H. "An intermediate plant, which from leaf arrangement fluctuates between *imbricatum* and *subsquarrosulum*. It represents my f. *flavescens* fairly well." J.A.W.

*S. squarrosulum* Pers. var. *spectabile* Russ. Derryinver (I. 37), Aug. 1917, J.D.H. "These packets mostly contain the var. *subsquarrosulum* although some stems of var. *spectabile* are present and seem to be from a different gathering. Great care should be taken not to mix gatherings in the field." W.R.S.; var. *spectabile* f. *patulum* W., Buttercrambe Woods (62), June 1907, W.B. & J.M. "A very handsome plant." J.A.W.

*S. cuspidatum* (Ehrd.) W., Camlough Mtn. (I. 37), October 1917, J.D.H. "Is I think var. *submersum* f. *crispatum*." J.A.W.; var. *submersum* Schp., Robin Hood's Bay, (62), June 1916, W.B. "If I am correct, these or similar plants from this locality were so named by Mr. Horrell and I believe by Warnstorf. I am, however, not sure of this. At all events they certainly in my opinion are very characteristic examples of *S. serratum* v. *serrulatum* W." J.A.W.; var. *falcatum* Russ. f. *rigidum* W. subf. *gracile* W., Long Moor, Sutton Park (\*38), April 1917, P.G.M.R., det. J.A.W.; var. *plumosum*, Kilmar Tor (2), Nov. 1917, F.R. "Is f. *remotum*." W.R.S.

*S. plumosum* var. *versicolor* W. (?), Camlough Mtn. (I. 37), Oct. 1917, J.D.H. "*S. plumosum* v. *versicolor* f. *validum*. I have never seen this form but it seems to answer to the description. W.R.S.; var. *versicolor* W. f. *ascendens* W., Cwm Moch (\*48), August 1917, J.B.D. & P.G.M.R. det. W.R.S.; var. *purpureum* f. *robustum* W., Bwlch Tyddiad (\*48), Aug. 1917, D.A.J. & P.G.M.R. det. J.A.W.; var. *ochraceum* f. *Schillerianum* W., above Llyn Eiddew Bach (\*48), Aug. 1917, J.B.D & P.G.M.R., det. W.R.S. & J.A.W.



*S. recurvum* W. var. *parvulum* f. *pallens* W., Bracebridge Pool, Sutton Park (\*38), June 1917, P.G.M.R. det. W.R.S.; var. *majus* f. *sphaerocephalum* W., Bracebridge Pool, Sutton Park (38), Jan. 1916, P.G.M.R.

*S. molluscum* Br., Fathom Mtn. (I. 37), Oct. 1917, J.D.H.: var. *vulgatum* f. *robustum* W., Ceunant Llenyrch (\*48), April 1915, D.A.J. & P.G.M.R. det. W. Ingham.

*S. fimbriatum* Wils. var. *tenue* Grav., Derryinver (I. 37), August 1917, J.D.H.; var. *intermedium* Russ., Harlech (\*48), April 1915, P.G.M.R. det. J.A.W.; var. *tenue* Grav., Askham Bog (64), July 1915, W. Ingham & W.B. "*S. fimbriatum* var. *validum* f. *compactum*. The leaves are too large for var. *tenue*." W.R.S.

*S. Girgensohnii* Russ. var. *stachyodes* Russ., Cwm Moch, above Harlech, (\*48), Jan. 1917, J.B.D. & P.G.M.R. det. J.A.W.

*S. rubellum* Wils. var. *purpurascens* Russ., Goathland (62), Sept. 1917, W.B.; var. *violescens* W., Bwlch Tyddiad (\*48), August 1917, D.A.J. & P.G.M.R. det. J.A.W.; var. *rubescens* W., Ceunant Llenyrch (\*48), April 1915, D.A.J. & P.G.M.R. det. W. Ingham.

*S. quinquefarium* W., Wastdale (70), Aug. 1917, W.N.T.; var. *roseum* W. f. *brachyanocladum* W., Rhinog Fawr (\*48), August 1916, D.A.J. & P.G.M.R. det. J.A.W.

*S. acutifolium* Russ. & W. var. *viride*, Sutton Park (\*38), June 1917, P.G.M.R. det. W.R.S.

*S. crassicladum* W. var. *diversifolium* f. *inundatum* W., completely submerged in deep water, Ardmore (I. 37), Dec. 1917, J.D.H. det. J.A.W.; var. *magnifolium* W. near f. *discrepans* W., Bilberry Hill, Lickey Hills (\*37), July 1917, P.G.M.R. det. W.R.S. and J.A.W. "May be an endemic form." J.A.W.; var. *magnifolium* f. *longicladum* W., Goathland (62), Sept. 1917, W.B.

*S. rufescens* Limpr. var. *magnifolium* f. *bicolor* W. subf. *intortum* W., Camlough Mtn. (I. 37), Oct. 1917, J.D.H. teste J.A.W.

*S. teres* Augstr. f. *strictum*, Wheeldale, Goathland (62), Sept. 1917, W.B. "I fear I am perhaps responsible for this error in determining some of Mr. Ingham's plants. At all events this is a form of *S. Girgensohnii* var. *stachyodes*!!" J.A.W.

*Andreaea petrophila* Ehrh., Mourne Mtns. (I. 38), June 1917, J.G.; summit of Slieve Gallion (I. 40), June 1914, J.D.H.

*A. Rothii* Web. & Mohr. var. *falcata* Lindb., Kilmar Tor (2), Nov. 1917, F.R.

*Oligotrichum hercynicum* Lam. var. *laxum* Braithw., Great Gable (70), Aug. 1917, W.N.T.

*Archidium alternifolium* Schp., sea shore near Talsarnau (48), June 1917, J.C.W.

*Ditrichum homomallum* Hampe, Scrabo quarries (I. 38), July 1917, J.G. "This is a small, barren form of *Dicranella heteromalla*." G.B.S.

*Brachyodus trichodes* Fürnr., near Loch Leitrich (\*89), August 1917, R. & M.C.

*Rhabdoweisia denticulata* B. & S., Pillar Mtn. (70), August 1917, W.N.T.; Doe Tor, Dartmoor (3), Nov. 1917, G.T.H.

*R. crenulata* Jameson, Cuilcagh (I. 33), June 1917, W.N.T.

*Dichodontium pellucidum* Schp., Scrabo quarry, (I. 38), July 1917, J.G. "In this plant the leaves are not squarrose and are unusually shortly pointed. It is near the var. *fagimontanum*." D.A.J. and G.B.S.; var. *fagimontanum* Brid., Dular (\*46), July 1917, R.J.

*Dicranella Schreberi* Schp., Devol Glen, Port Glasgow (76), Oct. 1915, J.G.

*Campylopus introflexus* Brid., cliffs near Polperro (2), Jan. 1918, F.R.; Barmouth (48), Sept. 1911, D.A.J. and W.G.T.

*Dicranum Scottianum* Turn., Sharp Tor, near Linkinhorne (2), Nov. 1917, F.R.

*D. asperulum* Mitt., Cuilcagh (I. 33), July 1910, W.N.T.

*Fissidens crassipes* Wils., Stamford Bridge (62), July 1917, J.M.

*F. osmundoides* Hedw., Dular (46), August 1917, R.J.

*F. adiantoides* Hedw., Crowan (1), Dec. 1915, R.W.S. "From the slender growth, the well-marked border to the leaves and the small, obscure cells, I should place this under *F. decipiens* De Not." G.B.S.

*Grimmia torquata* Hornsch., Chailleach Range (88), Aug. 1909, J.C.W.

*G. subsquarrosa* Wils., rocks on hillside, Polperro (2), March 1917, F.R.; Monks Cove (45), June 1916, R.J. "Several of the Monks Cove packets contained *G. trichophylla* Grev. This species can be discriminated from *G. subsquarrosa* by the leaves not being squarrose and the basal cells being more elongated." G.B.S.

*G. patens* B. & S., Dular Towy (46), Aug. 1917, R.J. "is *R. protensum*." D.A.J.

*G. Doniana* Sm., Dular Towy (46), August 1917, R.J.

*Pottia viridifolia* Mitt., Monks Cove (45), November 1917, R.J. "*P. crinita*." D.A.J.

*P. minutula* Fürnr., stubble field near Brighton (13), September 1917, A.S.

*Barbula spadicea* Mitt., Linton Lock, York (62), Oct. 1917, H.S. "This is *B. Nicholsoni*. Note the opaque texture of the leaves, the wide points of which are inclined to be cucullate, and the cells which are shortly rectangular towards the base and obscure in the upper part of the leaf." G.B.S.

*B. Hornschuchiana* Schultz, Crowan (1), January 1916, R.W.S.

*Weisia tenuis* C.M., Scrabo quarries (I. 38), July 1917, J.G.

*W. rupestris* C.M., Mourne Mtns. (I. 38), June 1917, J.G.

*Trichostomum tenuirostre* Lindb., Carlingford Mtns. (I. 31), May 1912, J.G.

*Anoetangium compactum* Schwaeg., Mourne Mtns. (I. 38), June 1917, J.G. "Is *Weisia rupestris*." D.A.J.

*Oedipodium Griffithianum* Schwaeg., c.fr., Great Gable (70), Aug. 1917, W.N.T.

*Splachnum sphaericum* Linn. fil., Lower Cuilcagh (I. 30), June 1917, W.N.T.

*Aulacomnium androgynum* Schwaeg., near Virginia Water (17), September 1917, A.S.

*Webera annotina* Schwaeg. var. *bulbifera* Correns, old quarry, Lurgan, (I. 37), May 1917, J.D.H.

*W. proligera* Bryhn, Trenwheal (1), January 1916, R.W.S.

*W. albicans* Schp., Three Cocks (42), July 1915, R.J. "Two of these packets contain *Dichodontium pellicidum*." G.B.S.

*Bryum filiforme* Dicks., Mourne Mtns. (I. 38), June 1917, J.G.

*B. neodamense* Itzigs., sandhills near Ainsdale (59), May 1917, W.G.T.

*B. capillare* L. var. *elegans* Braithw., Val d'Annivier, Valais, June 1914, leg. P.G.M.R. com. J.B.

*B. atropurpureum* Web. & Mohr., Kinnego Harbour (I. 37), Nov. 1917, J.D.H.

*Mnium stellare* Reich., Crambeck Wood (62), Nov. 1917, J.M. "Is *Porotrichum alopecurum*." G.B.S.

*Fontinalis antipyretica* L. var. *gigantea* Sull., near Stewartstown (I. 36), May 1907, J.G.

*Neckera pumila* Hedw., Monks Cove (45), Oct. 1917, R.J. "This is *N. complanata*, the leaves not being undulated." G.B.S.

*Pseudoleskea atrovirens* B. & S., Dent du Jaman, Switzerland, May 1911, leg, P.G.M.R. com. J.B.

*Thuidium recognitum* Lindb., Wastwater (70), Sept. 1917, W.N.T. "The nerves of the stem leaves are narrow in the acumen, the cells of which are not elongated, also the margins of the leaves are strongly recurved. The plant is therefore *Th. delicatulum*." D.A.J. and G.B.S.

*Brachythecium velutinum* B. & S., Strensall Common (62), Oct. 1917, H.S. "This is *Eurhynchium praelongum*. Note the cordate stem leaves with filiform, squarrose points." G.B.S.

*Eurhynchium crassinervium* B. & S., Monks Cove (45), R.J.

*E. speciosum* Schp., Fanog (46), Aug. 1917, R.J. "Is *E. Swartzii*." G.B.S.

*E. myosuroides* Schp. var. *brachythecioides* Dixon, in fissure in rock, Cuilcagh (I. 33) and (I. 30), both June 1917, W.N.T. "The Fermanagh plants show well the characteristics of the variety; those from C. Cavan are somewhat looser in habit but come also under var. *brachythecioides*." D.A.J. and G.B.S.

*Plagiothecium elegans* Sull., Crowan (1), Dec. 1917, R.W.S. "This is too coarse a plant and has too wide cells for *P. elegans*. It is *P. denticulatum*." G.B.S.

*P. silesiacum* B. & S., in a wood near Caux, Switzerland, May 1911, P.G.M.R. com. J.B.

*Amblystegium Juratzkanum* Schp., Hockley Marshes (18), May 1917, W.R.S. com. A.S.; near Freshfield (59), May 1917, W.G.T.

*Hypnum polygamum* Schp. var. *stagnatum* Wils., Strensall Common (62), Oct. 1917, H.S. "The leaf-point of this plant is not channelled and there are no well marked auricles of suddenly enlarged cells. It is therefore *H. riparium*." G.B.S.

*H. aduncum* Hedw., Dular Towy (46), Aug. 1917, R.J. "Is *H. exannulatum* var. *brachydictyon*." J.A.W.

*H. exannulatum* f. *gracilescens*, near Broadstone (I. 39), July 1917, J.G. teste J.A.W.

*H. vernicosum* Lindb., Dular (46), July 1917, R.J.

*H. intermedium* Lindb., Dular (46), July 1917, R.J. "Is *H. revolvens* var. *Cossoni* Ren. f. *rufescens* Sanio." J.A.W.

*H. cupressiforme* L. var. *elatum* B. & S., Co. Antrim (I. 39), May 1913, J.G.

*H. molluscum* Hedw. var. *robustum* Boul., Mourne Mtns. (I. 38), June 1917, J.G.

*H. ochraceum* Turn. var. *flaccidum* Milde, in R. Esk, Arncliffe Woods (62), Sept. 1916, P.G.M.R. com. J.B.

*H. stramineum* Dicks., Dular (\*46), July 1917, R.J.; near Port Glasgow (76), Sept. 1915, J.G.

*H. ?*, drain side at roots of willow, Kircubbin (I. 38), Aug. 1917, J.G. "An unusual form of *H. cuspidatum* which approaches the var. *pungens*." D.A.J.

**HEPATICS.**

*Riccia Lescuriana* Aust., Ynys, near Talsarnau (48), June 1917, J.C.W.

*R. bifurca* Hoffm., (cultivated field form), Llandecwyn, Talsarnau (48), Dec. 1917, D.A.J.

*R. glauca* L., Stubble Field, Llanbedr (48), Dec. 1917, D.A.J.

*R. fluitans* L., Derryinver, Lurgan (I. 37), Sept. 1916, J.D.H.; also Buttercrambe Woods (62), July 1917, J.M.

*Marchantia polymorpha* L., Mourne Mts., Co. Down (I. 38), June 1917, J.G.

*Aneura multifida* (L.) Dum., (?), Scrobo Quarries, Co. Down (I. 38), July 1917, J.G. "Two of the packets contain \**A. latifrons* Lindb. and four \**A. major* (Lindb.) K. Müll. *A. multifida* has not been seen." D.A.J.

*A. sinuata* Dicks. (Dum.), Rocks, Cwm Bychan, Harlech (48), June, 1915, J.C.W.

\**A. major* (Lindb.) K. Müll., marshy ground, near Perranporth (1), January 1918, F.R.

*Metzgeria furcata* L., Baker's Bridge, Co. Cavan (I. 30), July 1911, J.G.; also Fowey (2), Nov. 1917, R.W.S. "Latter mixed with *Lejeunea cavifolia* var. *heterophylla* Carr." D.A.J.

*M. conjugata* Lindb., near Maentwrog (48), June 1917, J.C.W.; also Devol Glen, Port Glasgow (76), Oct. 1915, J.G.

*M. hamata* Lindb., Ceunant Llenyrch, Maentwrog Valley (48), June 1917, J.C.W.

\**Pellia epiphylla* var. *undulata* Nees, side of stream, Ceunant Llenyrch, Maentwrog Valley (48), Aug. 1917, P.G.M.R. and D.A.J. (teste S.M.M.) "First discovered by Mr. Rhodes."

*Marsupella Funckii* (Web. et Mohr), Tresawzen Moor, near Truro (1), April 1917, F.R.; also Singrig, Talsarnau (48), Jan. 1917, D.A.J.

*M. emarginata* (Ehrh.) Dum., Legavallon (I. 40), June 1914, J.D.H.; also Curlingford Mts., Co. Louth (I. 31), J.G.—two lots, one of which belongs to *Marsupella Pearsoni*. D.A.J.

*Alicularia compressa* (Hook.) Nees, Falling Foss, near Robin Hood's Bay (62), August 1917, C.A.C.

*A. scalaris* (Schrad.) Corda, Scrabo Quarries (I. 38), July 1917, J.G.

*Haplozia crenulata* (Sm.) Dum., Tienwheal (1), January 1916, R.W.S.

*H. cordifolia* (Hook.) Dum., Great Gable (70), Aug. 1917, W.N.T.

*H. riparia* (Tayl.) Dum., Whitewell (64), Sept. 1917, Wheldon and Travis, comm. W.G.T.

*Auastrophyllum Douianum* (Hook.) Steph., Ben Douran (98), August 1913, D.A.J.

*Gymnocolea inflata* (Huds.) Dum., Creuver Crowan (1), January 1917, R.W.S.

*G. acutiloba* (Kaal.) K. Müll., Rhinog Fawr, Harlech (48), Sept. 1916, D.A.J.

*Lophozia turbinata* Steph., banks of R. Ribble, near Chatturn (59), April 1913, W.G.T.

*L. incisa* (Schrad.) Dum., Slievemore, Achill Is. (I. 27), April 1917, W.N.T.

*L. lycopodioides* (Wallr.) Cogn., c. per., Chasseron, The Jura, Sept. 1917, leg. C. Meylan, comm. W.B.; also sterile from same locality, October 1917.

*L. Floerkii* (Web. et Mohr.) Schiffn., Devol Glen, Port Glasgow (76), Oct. 1915, J.G.; also Langden Dale (64), Sept. 1917, W.G.T.

*L. obtusa* (Lindb.) Evans, Sefinenthal, Switzerland, July 1913, leg. P.G.M.R., comm. J.B.; also Chasseron, Jura, Vaudois, Sept. 1913, leg. C. Meylan, comm. W.B.

*Sphenolobus ovatus* (Dicks.) Schiffn., Kilmar Tor (2), November 1917, F.R.

*Anastrepta Orcadensis* (Hook.) Schiffn., St. Luc, Switzerland, July 1912, leg. P.G.M.R., comm. J.B.

*Plagiochila punctata* Tayl., Nantcol Ravine (48), September 1911, Travis and Jones, comm. W.G.T.; also Slievemore, Achill (I. 27), April 1917, W.N.T.

*P. tridenticulata* Tayl., Ravine, Llandecwyn, Talsarnau (48), Oct. 1917, D.A.J.

*Leptoscyphus Taylori* (Hook.) Mitt., bog at Lough Naroon (I. 39), May 1914, J.D.H.

*Lophocolea bidentata* (L.) Dum., Devol Glen, Port Glasgow (76), Aug. 1913, J.G. "This is *Plagiochila asplenoides* (L.) Dum." D.A.J.

*L. cuspidata* Limpr., Unity, Gwinear (1), Jan. 1917, R.W.S.

*Saccogyna viticulosa* (Sm.) Dum., Slebech (45), July 1915, R.J.

*Cephalozia Lammersiana* Spr., Falling Foss, near Robin Hood's Bay (62), Sept. 1917, C.A.C.

*C. leucantha* Spruce, c. fr., Forêt de la Vaux, Jura Vaudois, Sept. 1917, leg. C. Meylan, comm. W.B.; also among *Leucobryum glaucum* Schp., Ceunant Llenyrch, Maentwrog Valley (48), Dec. 1917, D.A.J.

*C. Francisi* (Hook.) Dum., Llyn Tecwyn Isa., Talsarnau (48), September, 1911, W.G.T.

*C. fluitans* (Nees) Spruce, in drain, Ardmore Bog (I. 37), Sept. 1916, J.D.H. "A lax form of *Cephalozia bicuspidata* (L.) Dum." D.A.J.

*Cephaloziella byssacea* (Roth.) Warnst., on copper floors, Crenver, Crowan (1), Jan. 1917, R.W.S.; also wall-top, Glyn, Talsarnau (48), December 1917, D.A.J.

*C. aeraria* (Pears.) Macv., copper mine, Llanfrothen (48), Jan. 1917, D.A.J.

*Prionolobus striatulus* (Jens.) Schiffn., Llandecwyn, Talsarnau; below Llechwedd, Harlech, Dec. 1917; bog near Hir Ynys, Llanfrothen (48), Jan. 1917. New to Wales. "In all the localities mentioned above, this rare plant grows among decayed *Leucobryum glaucum* near a bog or in woods. The usual habitat is among *Sphagnum*, but our bogs are not very rich in hepatics. It is sometimes fertile with us. The plants gathered in the last station have the typical reddish-brown colour, whereas those from the other two are laxer, more often green and with cells somewhat larger." D.A.J.

\**P. Massalongi* (Sprnce) Schiffn. (with *Ceph. aeraria*), copper mine, Llanfrothen (48), January 1918, D.A.J.



*Odontoschisma Sphagni* (Dickson) Dum., bog, Derryinver (I. 37), July 1917, J.D.H.; also "transit ad *O. denudatum* Dum." Tourbiere de la Vracounaz, The Jura, Sept. 1917; leg. C. Meylan, comm. W.B.

*Calypogeia Neesiana* (Carest. et Massal.) Massal. var. *repanda* K.M., La Chasseron, The Jura, Sept. 1917, leg. C. Meylan, comm. W.B.

*Bazzania Pearsoni* (Steph.) Pears., Slievemore, Achill Island (I. 27), April 1917, W.N.T.

*Lepidozia pinnata* (Hook.) Dum., Carricknagower (I. 33), May 1917, W.N.T.; also near Hafod-y-Llyn Lake, Harlech (48), Dec. 1917, D.A.J.

*Mastigophora Woodsii* (Hook.) Nees, Croghaun, Achill Island (I. 27), April 1917, W.N.T.

*Ptilidium ciliare* (L.) Hampe, Sefinenthal, Switzerland, July 1913, leg. P.G.M.R., comm. J.B.

*Trichocolea tomentella* (Ehrh.) Dum., Towy R., Dalar (46), July 1917, R.J.; Rheidol R. (46), March 1911, R.J. also Devol Glen, Port Glasgow (76), October 1915, J.G.

*Diplophyllum albicans* (L.) Dum., Scrabo Quarries (I. 38), July 1917, J.G.; also St. Breward (2), July 1917, leg. J.C.S., comm. R.W.S.

*Scapania compacta* (Roth.) Dum., (with *Gymnocolea inflata*), Crowan (1), Jan. 1916; also Unity, Gwinear (1), Jan. 1917, R.W.S.

*S. subalpina* (Nees) Dum., near Raven's Falls, Maentwrog Valley (48), Sept. 1917, D.A.J.

*S. gracilis* (Lindb.) Kaal., Co. Antrim (I. 39), May 1913, J.G.; also Killarney (I. 2), July 1909, W.G.T.; also Unity, Gwinear (1), January 1917, R.W.S.

*S. ornithopodioides* (With.) Pears., Slievemore, Achill Island (I. 27), April 1917, W.N.T.

*S. dentata* Dum., on rocks, top of Fathom Mountain (I. 37), Oct. 1917, J.D.H. "Is *Scap. gracilis* (Kindb.) Kaal." D.A.J.; also true *Scap. dentata*, St. Breward (2), July 1917, leg. J.C.S., comm. R.W.S.

*S. undulata* L., Goathland, Yorks, Aug. 1917, leg. W.B. comm. H.S.; also Thomas Mountain, Mourne Mountains (I. 38), June 1917, J.G. "Both gatherings belong to the var. *ambigua* De Not." D.A.J.; var. *speciosa* Nees, wet rocks, above Llyn Eiddew Mawr, Harlech (48), Oct. 1916, D.A.J.; var. *ambigua* De Not., Silverwell Moors (1), December 1917, F.R.

*S. obliqua* (Arnell) Schiffn., Moelwyn Bach (48), July 1916, D.A.J.

*S. curta* Dum., roadside, near Marshaw (60), September 1917, Wheldon and Travis, comm. W.G.T.

*Pleurozia purpurea* (Lightf.) Lindb., Slievemore, Achill Island (I. 27), August 1909, J.C.W.

*Madotheca Baueri* Schiffn., Granges de Ste Croix, Jura Vaudois, September 1917, leg. C. Meylan, comm. W.B.

*M. rivularis* Nees, Aiguille de Baulme, The Jura, Sept. 1917, leg. C. Meylan, comm. W.B.

*M. Porella* (Dicks.) Nees, boulders in stream, Uwchartro, Harlech (48), May 1914, D.A.J.

*Lejeunea cavifolia* (Ehrh.) Lindb., Fowey (2), Nov. 1917. R.W.S. "Is the var. *heterophylla* Carr." D.A.J.; var. *heterophylla* Carr., Harlech (48), April 1915, J.C.W.

*L. patens* Lindb., Gwynant, near Pen-y-Pass (49), May 1916, Cleminshaw, Jones and Wilson, comm. J.C.W.

*Jubula Hutchinsiae* (Hook.) Dum., Dalar, R. Towy (46), July 1917, R.J.

*Frullania fragilifolia* Tayl., rocks, Uwchartro, Harlech (48), November 1917, D.A.J.