

Family Entomophthorace.

112 - *Entomophthora muscae* (Coch) on houseflies.

Madison, Wis., Nov. 20, 1882.

Dear Dr. Farlow:

This is the outline of a list with a few notes that I have promised to read at the December meeting of the Wisconsin Academy. I mailed you a Saturday specimens of nearly all that I have not already given you, not that I suppose you will care to examine them ^{now}, but that they may serve for fixing the locality sometime. It should, however, be my much obliged if you can help me with the underscored species, for though I feel confident as to some, others are entirely unknown to me & I have not been able to compare them with authentic specimens. I have arranged them in Linnaean order, but in the published list should give only names of orders and families. The names used are those Miller uses in Rabenhorst, so far as that work is issued. If you see any desirable changes in synonymy will you please suggest them? The *Peronospora* on *Helianthus* and that on *Silphium* are ~~larger~~ ^{and larger} than my specimens on *Ambrosia*, but I suppose they go under *Halstedia*. Don't know of one *Peronospora* on *Cucurbitaceae* (*C. cubensis* B.C. from Cuba), but have reference to the Sumaean Journal where it is described, so do not know whether no. 7 belongs to that species or not. I don't see that Peck's *P. simplex* differs from the described *Basidiophora entomophora*, so you? The *Hymenycs.*, no. 38, is apparently on a large Agaric. It is very common. Did you cultivate the ~~spores~~ on *Phleum*? What did you make by the white glutinous last winter? So is the same as your Mass. *Rainularia*, but I have no specific name. Do you separate *Paecisia kuhniae*, *P. helianthi* and *P. Xanthii* from *P. confoederatum* & *P. fusculosorum*? The Woods no. 95 on raspberry ought to belong to *Phragbulbosum*, but see no signs of teleutospores now, nor do I know that the teleutospores that should go with no. 102 have ever been found in this Country, though everyone gives the acidium this name. No. 60 has the mycelium gray Woods' Hall called on *Ales pumicis*, but I forms only conidia. If you can suggest any better arrangement for these imperfect forms I shall be greatly obliged. My best come Saturday, thanks. Will you at any expense? If so will you please send me a memorandum when you write. If you do not care for this list I should like it after you have looked the matter up, as it will save me labor in making out my ill. list.

Regards to Dr. Gray, Mr. Watson and Prof. Woodale. In haste, Yours very truly,
Wm. T. Gillette.

- 87- *Gymnosporangium macrospus* Schw. III on *Juniperus virginiana*.
 88- " *fuscum* var. *globosum* Farlow, III on " "
 89- *Melampsora galicina* Lev. II & III on various species of *Salix*.
 90- " *Lozulinia* Lev. II & III on *Populus monilifera*.
 " *Truncoides*.
 " *grandidentata*.
 " *balsamifera*.
 ? 90½- *Coleosporium miriatum*! II on *Rosa lucida*.
 91- " *Sonchii annuus* (Pers.) II & III on various species of *Aster* & *Solidago*.
 92- *Pileolaria borripes* B. & R. III on *Phas* *Toxicodendron*.
 93- Isolated accidio-forms.
 93- *Uredo Agrimonae Eupatoriae* (DC.) on *Agrimonia Eupatoria*.
 94- " *Polyppodii* (Pers.) on *Cystopteris fragilis* - Kilbourn Ctg.
 ? 95- " *Ruborum* DC. on *R. occidentalis*.
 68½- " *Caecina liniivata* on *Polygonum*
 96- Isolated accidial forms.
 97- *Accidium* on *Comandra umbellata*.
 98- " *Polemonii* Ph. on *Plex* *rhizoma*
 99- " *Geranii* DC. on *Gomphocarpus*
 100- " *Oenotherae* Ph. on *O. biennis*.
 101- " *Compositarum* Mart. on *Lactuca canadensis*? Nothnagel.
 102- " *Inosculariae* DC. on *Ribes aurum*
 " *rotundipodium*
 " *Cynosbati*.
 " *Thornaeana*
 210- " on *Sathyrium mucronata*
 211- " *Polygalium* Ph. on *P. Senega*.
 103- *Poestelia faserata* Jul. on *Catalpa coccinea*.
 104- " *penicillata* (Müller) on *Pinus coronaria*.
 Family *Mastigigneae*.
 105- *Mastigo neglecta* Niesch. on *Petaria glauca*.
 106- " *Sorghum* (Link) ? (but with rough surface) on *S. saccharatum*.
 107- " *Zea* Mays DC. on *Zea* Mays.
 108- " *Setigera* Pers. on *Dorma sativa* - La Corse.
 109- *Eutyloma* on *Halicium dioicum*.
 110- " on *Ambrosia artemisiacea*.
 111- " on *Menispermum Canadense*.
 69- *Insidium* Imperfect forms. on *Aster Novae Angliae*.

A-Leptosporangia.

- 65- *P. Valentiae* Pers. III on *Lathyrus trifidum*.
For members described up last year and in agrees better
with *P. Gallicum* than *P. Valentiae*, & left that off one wanting.
- 66- *P. Circinalis* Pers. III on *C. Lecteriana*.
- 67- *P. Anemones* Virginianae Schlecht. III on *A. Virginiana*.
- ### C-Hemipuccinia.
- 68- (a) *P. Sorghi* Schw. # + III on *Zea Mayo*.
68- (b) " " ? = *P. purpurea* Chev? on *Zea Mayo*.
- 69- " *Polygoni-Ampelii* Pers. III on *P. Ampelium*.
- ### E-Cyphellinia.
- 70- *P. Menckae* Pers. # + III on *(a) Pycnanthus*
(b) Leonora
(c) Canadensis
- 71- " *Sentianae* (Frans.) III on *S. Andreottii*.
- 72- " *flosculosorum* (Berk.) # + III on *(a) Hieracium*
(b) Taraxacum
(c) Cirsium *Canadense*.
II on " *discolor*.
- 73- " *Violae* (Schum.) I on *V. delphinifolia*,
+ III on *V. pubescens*
V. coccinata
- 74- " *Graminis* Pers. I on *Berberis vulgaris*.
+ III on *(a) Rosa Sativa*,
(b) Secale cereale.
- 75- " *Cardicis* Schum. # + III on *(a) Avena sativa*,
(b) Dactylis glomerata
- Uncertain. (in which group do they fit?)
- 77- " *Polygonum* Lk. # + III on *(a) Sertonaria*
(b) Americana
- 78- " *Anemone* (Pers.) on # *Thalictrum dioicum*
- 79- " *Amorphae* B. & C. # + III on *A. canescens*.
- 80- " *Rubriacis* Schw. III on *Rubra* *luteo-rosea*.
- 81- " *aculeata* Schw. # on *Polygonatum multiflorum*,
on *H. grosseserrata*,
- 82- " *Helianthi* Schw. # + III on *(a) Anemone*,
(b) Sanguisorba.
- 83- " *Myrsinis* Schw. III on *Bromus* *Brizoides*.
- 84- " *Xanthii* Schw. III on *X. strumosa*,
on *Rosa lucida*.
- 85- *Phragmidium mucronatum* Fr. # + III on *cultivated rose*.
- 86- " *Speciosum* Br. III on petiole stem of *Rosa hispida*.

list of Wisconsin Parasitic Fungi.

Monoclesse, Nov. 15, 1883.

Class I - Zygomycetes.

Order Zygomycetes.

Family Cladidiaceae.

- 1- *Syndytritium fuligineum*, var. *decipiens* Tulas. on *Amphicarpaea*
Ammonia (DC) in *S. nemorosa*.
- 1/2- " *Oosporella*, *Oxalis* *Caloblastae*.
Family Peronosporaceae.

- 2- *Cystopus candidus* Lk. on *Siegenium officinale*.

- 3- " *citricus* Lk. on *Artemisia artemisioides*.

- 4- " *Bloti* Biv. on *Amarantus retroflexus*.

- 5- " *Portulacae* Desm. on *P. oleracea*.

- 6- *Peronospora Halstedii* Tulas. sp. (a) *Bidens frondosa*,
(b) *Heuchera Stolonifera*,
(c) *Siphium perfoliatum*.

- 7- " on *Succowia angulata*.

- 8- " *Erysiphe* Lk. on *Chenopodium album*.

- 9- " *alta* Tzkl. a *Plantago major*,
Apium B. - *Bastard*.

- 10- " *parasitica* Pers on *Lepidium virginicum* x

- 11- " *infestans* Wett. on *Solanum tuberosum*.

- 12- " *gaulettiae* Berk. on *Lactuca canadensis*,
Sativa x

- 13- " *Geranii* K. on *G. maculatum*.

- 14- " *Entosphaera* (Ry & Conn) on *Aster nov. Anglicus*.

- 15- " *Viticola* B. & C. on *cultivated grape* x

Class II - Ascomycetes.

Order Ascomycetes.

Suborder Perisporiaceae.

- 16- *Mucinula adunca* Lk. a *Populus tremuloides* x
" *frondosa*
" *grandidentata*
" *Salix* sp. (b) x

- 17- " *Impelosporidium* PK. on *Agave americana*.

- 18- " *Spiralis* B. & C. on cultivated grapes.

- 19- *Microspheara diphloiae* C. & P. on *E. Corollata*.

- 20- " *Friesia* var. *Syringae* C. & P. on *S. vulgaris*.

- 21 - Microsphaera diffusa C. & P. on Desmodium Canes cens.
 22 - " pulchra C. & P. on Lonicera
 23 - " " on Sambucus Canadensis.
 24 - " " on Leptedega?
 25 - " penicillata Lev. on Corylus Americana. x
 26 - " extensa ? C. & P. on Gericus.
 27 - Podosphaera Bungei Lev. on Brunn virginiana,
 " " Celastrus x
 " " Americana
 28 - Phylactinia guttata (Mln.) on Celastrus scandens b.
 29 - Sphaeroteca castanei Lev. on Fraxineum Densiflorus.
 30 - " Famula Lev. in la Tota guadilla
 " Cultivated roses.
 31 - Erysiphe tortilis Lk. on Clematis Virginiana
 " Aubriosa artemisiae cagofolia
 " Pellia drummondii
 " maculata ?
 " Selaginella strumosa
 " Aster viscosus?
 " Xanthium
 " Cicindela discolor
 " Glycaspis umbellata
 " Eupatorium perfoliatum
 " Urtica dioica foliolosa
 " Ranunculus abortivus.
 33 - " Communis Schl. on Lathyrus vernus.
 38 1/2 - " Martii? Lk. on Amphicarpaea
 Suborder Pyrenomyces.
 34 - Dothidea Pteridis Dr. on Pteris aquilina.
 35 - " Ulmii Dr. on U. Americana.
 36 - " Iridotrichia Dr. on I. palustris.
 37 - " Graminis Dr. on Gymnosporangium leptostylus x
 " Dactyloctenia glomerata.
 38 - Hypomyces on Rugicis? (very common)
 39 - Sphaeria fimbriata Pers. on Carpinus Americana.
 40 - Sphaeria velutosa Schw. on Brunn Virginiana.
 41 - Claviceps purpurea Bul. on Secale cereale.
 41 - " on Phleum pratense.
 42 - Suborder Discosomycetes.
 42 - Chacidium Iridotrichia Boid. on I. pratense.
 Imperfect Fungi.
 42 1/2 - Oidium monilioides Lk. on Poa pratense Fr.
- 43 - Graphium on cultivated strawberry.
 (comes in very particular to the Conidia of Sphaeria fragariae)
 44 - Doaria arachnophila? on Spider]
 45 - " on white grub.
 (Where did you refer this? It is the same that Henry sees here.)
 46 - " on cultivated grape.
 46 1/2 " on Smilacina racemosa
 47 - Septoria Genistae B.C. on Obioneus.
 48 - " Leteroclinus on Malva rotundigolia
 (Cf. no. 205)
 49 - Phoma? on Polygonum amphibium var.
 49 1/2 " " ? on cultivated grape.
 50 - Ramularia on Panicum sanguinale.
 51 - Cercospora Apri Gec. var. Pastinaceae on P. sativa.
 52 - " Chenopodii on C. album.
 53 - " ? Polygonum ?? on Polygonum persicaria
 on Plantago major.
 54 - " on Gericus
 55 - " on Potentilla Norvegica.
 56 - " on Necturium amaracina.
 57 - Trichocomes roseum Dr. on Pug ball.
 58 - Trichidium canum on Ligustrum Canadense.
 60 1/2 - Pedalonium chrysogasterum Dr. on Boletus.
 205 - Cercospa? Cf. 40 on Malva rotundigolia.
- Order Basidiomycetes.
 Sub order Uredinomycetes.
 Family Uredinaceae.
 (E. Eumycetidae)
- 61 - Uromyces Polygoni Pers. II on P. circulare.
 62 - " I, II, + III on P. repens.
 63 - " Euphorbiae C. & P. I, II, III on E. maculata.
 64 - " ? II on Anemone tripplallum.



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