

FUNGI OF NOVA SCOTIA: A PROVISIONAL LIST.—BY A. H.
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(Presented, 8th December, 1902.)

This list is partly a summation of the papers published already in the Transactions of the Institute by the late John Somers, M. D., with whom the author was collecting at Pictou; and the lists made by Mr. R. R. Gates of Middleton, Annapolis county; by Mr. J. M. Swaine at Truro and Antigonish; and by Mr. C. Stanley Bruce at Shelburne. The general classification of M. C. Cooke is followed, mainly because nearly all of the lists were made under the predominating influence of his "Hand Book of the British Fungi." It is therefore to be expected that future study may demonstrate some of the species to be merely approximately named.

Some of the genera are now being worked over anew, and even sub-divided. There is no attempt here to indicate the latest phase of the classification of our fungi. It is simply a compilation to point out to our students who are now beginning to interest themselves in the biological exploration of the Province what has already been done. It will also serve as a basis for the new work which we hope may henceforth progress more rapidly than ever before, under the stimulus of a larger number of observers who may be expected soon to test the accuracy of the determinations already made while extending the list. The future list based upon this provisional one should point out any suspected inaccuracies of determinations, and conform to the nomenclature and classification scheme of the latest generally approved scientific work on the fungi.

The papers of the late Dr. Somers referred to above are the

following in the Transactions of the Nova Scotian Institute of Natural Science :

- (1). Nova Scotian Fungi. Vol. V, pp. 188-192.
- (2). " " " pp. 247-253.
- (3). " " " pp. 332 & 333.
- (4). Additions to N. S. Fungi. Vol. VI, pp. 286-288.
- (5). " " Vol. VII, pp. 18 & 19.
- (6). Nova Scotian Fungi. Vol. VII, pp. 464-466.

For brevity, the authorities above named are indicated in the list as follows:—Dr. John Somers = JS; Mr. Reginald R. Gates = RRG; Mr. J. M. Swaine = JMS; C. Stanley Bruce = CSB; and Dr. A. H. MacKay = AHMK. The remarks referring to the edibility of species are based principally on McIlvaine's experiences.

The *Divisions* of the Fungi according to Cooke's classification are indicated by the capital letters of the alphabet, *e. g.*, the Sporifera = A; the *Families* by the ordinary letters, *e. g.*, *Hymenomycetes* = a; the *Orders* by Roman numerals, *e. g.*, *Agaricini* = I; and the *Genera* by Arabic numerals, *e. g.*, *Agaricus* = 1.

Division (A).—SPORIFERA.

Family (Aa).—HYMENOMYCETES.

Order (AaI).—AGARICINI.

Genus (AaII).—AGARICUS.

(Sub-generic names used below for the old generic name.)

*(*White-spored.*)

Sub-genus : *Amanita*.

Amanita vaginata Bull. Under hemlock and pine, North West Arm, Halifax, JS; Middleton, RRG. Probably *Amanitopsis vaginata* of Roze. Not poisonous.

A. adnata Smith. Under spruce, Pt. Pleasant, Halifax, JS. Probably *Amanitopsis adnata* of Roze. Not poisonous.

A. verna Bull. Prince's Lodge, near Halifax, JS. Deadly poisonous. Probably a variety of *A. phalloides*.

- A. virosa* Fr. Shelburne, CSB. Probably a variety of the following species, and deadly poisonous.
- A. phalloides* Fr. Prince's Lodge, near Halifax, JS. Under spruce, Pt. Pleasant Park, Halifax, AHMK. Antigonish and Truro, JMS. Shelburne, CSB. Deadly poisonous. Effects may not begin to be felt until from six to twelve hours after eating. No antidote for the *phallin* contained in it.
- A. muscaria* L. Pt. Pleasant, Halifax, Sept. and Oct., JS. Common, Pictou and Halifax counties, AHMK. Middleton, RRG. Antigonish and Truro, JMS. Shelburne, CSB. Poisonous: sulphate of atropine, 1/180 to 1/60 of a grain at a dose administered hypodermically, appears to be the best antidote for the *muscarin* contained in it.
- A. strobiliformis* Fr. Pictou county, AHMK. Determination doubtful.
- A. spissa* Fr. Under larch, Willow Park*, Halifax, Sept., JS. Not poisonous.
- A. Caesarea* Scop. Antigonish and Truro, JMS. Edible; but must be carefully distinguished from *A. muscaria* and similar poisonous species

Sub-genus: Lepiota.

- Lepiota procera* Scop. Middleton, RRG. Edible.
- L. glioderma* Fr. Under spruce, Halifax, JS.

Sub-genus: Armillaria.

- Armillaria mellea* Vahl. On decaying stumps, Dutch Village, Halifax, JS. Pictou County, AHMK. Antigonish, JMS. Edible.

Sub-genus: Tricholoma.

- Tricholoma equestre* L. Under fir trees, Dutch Village, Halifax, Sept., JS. Edible when cooked.
- T. transmucans* Pk. Shelburne, CSB. Edible.

*The species whose habitat is given by Dr. Somers as "Willow Park" were obtained between Willow Park and the Three-Mile House (Fairview), Halifax, not at Willow Park proper. The locality is in the vicinity of what is known as "The Willows."

- T. sejunctum* Sow. Woods, N. W. A., Halifax, Aug., Sept., JS. Edible.
- T. rutilans* Schæff. Pictou county, AHMK. Shelburne, CSB. Edible.
- T. columbetta* Fr. Pt. Pleasant Park woods, Halifax, under spruce, Oct., JS.
- T. crassifolium* Berk. Pt. Pleasant Park woods, Hfx., under spruce, Oct., JS.
- T. murinaceum* Bull. Dutch Village, Hfx., Sept., JS.

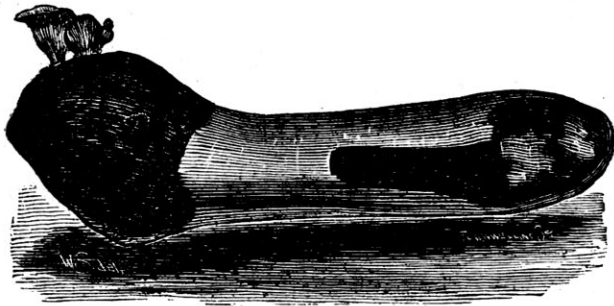
Sub-genus : Clitocybe.

- Clitocybe candicans* Fr. Common. Aug. to Oct. Pt. Pl. Park woods, Hfx., Nov., JS. Edible.
- C. nebularis* Batsch. Shelburne, CSB. Edible.
- C. fumosa* P. Pt. Pl. Park woods, Hfx., Nov., JS. Edible.
- C. clavipes* Pers. Shelburne, CSB. Edible.
- C. opaca* With. Pt. Pl. Park woods, Hfx., Nov., JS.
- C. gigantea* Fr. N. W. Arm woods, Hfx., Nov.; Four-Mile-House, near Hfx., 15 inch pileus, Oct., JS. Edible when properly cooked.
- C. infundibuliformis* Schæff. Middleton, RRG. Shelburne, CSB. Edible.
- C. flaccida* Sow. Willow Park woods, Hfx., Oct., [doubtful, but described in (2)]. JS. Edible.
- C. bella* Fr. Pt. Pleasant, Hfx., under pines, Nov., JS.
- C. laccata* Scop. Common. Hfx., JS. Pictou and Dartmouth. AHMK.

Sub-genus : Pleurotus.

- Pleurotus ulmarius* Bull. Truro, JMS. Tender parts edible.
- P. lignatilis* Pers. On beech trees mostly, near Three-Mile House, Hfx., Oct., JS. Edible.
- P. ostræatus* Jacq. Truro, JMS. Oyster fungus. Very edible.
- P. salignus* Fr. On trunks of living poplars, Hfx., Sept., Oct., JS. Edible when young.
- P. serotinus* Schrad. Pictou, AMHK. Truro, JMS. Edible.
- P. chioneus* P. On twigs, Dutch Village, Hfx., JS.

- P. applicatus* Bull. On small stumps, Dutch Village; Hfx., Sept., JS.
- P. Coldwelli*, n. sp. Described in the *Educational Review* (St. John) of March, 1891, page 172, and in the following month, page 192. Professor A. E. Coldwell found the *Agaricus* growing on a whale-bone in the Museum of Acadia College, Wolfville. The bone was picked up about two years before on the Yarmouth coast, and was kept for a year and a half in a cool, dark place in the Museum. With the specimen, the accompanying and other drawings (which have unfortunately been lost) were also sent and published. The flesh of the fungus was hard throughout, white stem and pileus, greyish underneath.



Pleurotus Coldwelli (x²) on a desiccated bone of a whale.

Chas H. Peck, State Botanist of New York, to whom the specimen was sent, said in his letter of the 19th March, 1891:—"The fungus specimen that grew on the bone of a whale reached me this morning. The habitat is certainly a curious one, and one on which I should not expect such a fungus to grow. But these plants, like others, have the power to adapt themselves to some extent to circumstances. As to the species, the specimen does not agree rigidly with any description known to me, but is apparently closely allied to *Pleurotus pantoleucus* Fr. and *P. pometi* Fr. Its spores are of the same size and

characters as the spores of these species. But for its cæspitose habit and downy stem I should unhesitatingly refer it to *P. pantoleucus*. The downy stem may be accidental, for I find this same white down developed in patches on the pileus in such a way as to make me think it is not normal there at least. *P. pometi* has similar spores and a villose stem, and in one variety is cæspitose; but its stem is radicating and the pileus more or less flaccid, so that I would sooner think your plant an unusual cæspitose form of *P. pantoleucus*, or possibly an undescribed species. If more plants develop, it might be well to note whether the velvety white down or tomentum is constant on the stem. The shape of the pileus in this specimen is strongly suggestive of the pileus of *P. pantoleucus*; but it is evidently modified by having grown in a clump, and the appearance in the figure is different; but the shape is also modified by place of growth, so that I cannot rely on this. Should other specimens develop, I would be glad to know of it, and especially if the downy stem and cæspitose habit should be modified." No further growth of the fungus has been reported.

Sub-genus : Collybia.

- Collybia radicata* Relh. On dead wood, Willow Park, Hfx., Oct., JS. Pictou, AHMK. Middleton, RRG. Edible.
C. platyphylla Fr. Middleton, RRG. Edible.
C. dryophila Bull. Pt. Pleasant Park, Hfx., on decaying leaves, Oct., JS. Edible.

Sub-genus : Mycena.

- Mycena flavo-alba* Fr. Four-Mile House woods, Hfx., Oct. (or *M. luteo-albus*), JS. Shelburne, CSB.
M. galericulata Scop. Common. Hfx., Sept., JS. Pictou, AHMK. Edible.
M. delectabilis Pk. Among moss in damp, peaty woods, Pen-
 nant, Hfx. co., JS.

Sub-genus: Omphalia.

Omphalia hepatica Batsch. Willow Park, Hfx., Sept., JS.

O. umbellifera L. Willow Park, Hfx, Sept., JS. Edible.

O. campanella, Batsch. Middleton, RRG. Edible.

O. fibula, Bull. Willow Park, Hfx., Sept., JS.

* * (*Pink-spored*).

Pluteus cervinus Shæff. Common. Hfx., Sept., JS. Edible.

Entoloma strictor Pk. Willow Park, Hfx., Sept., JS.

Clitopilus prunulus Scop. Willow Park, Hfx., Sept., JS.
Edible.

Claudopus depluens, Batsch. In pastures near Melville Island,
Hfx., Sept., JS.

Leptonia lampropa Fr. In pastures, Hfx., JS.

Eccilia carneo-grisea B. & Br. Common. Hfx., Sept., JS.
Edible,

* * * (*Brown-spored*).

Pholiota radicans, Fr. On the roadside, Hfx., JS.

P. capistrata Cooke. Roadside, McNab's Island, Hfx., JS.

P. squarrosa Mull. On stump, Halifax Common, Oct., JS.
Middleton, on the base of an apple tree, causing its decay.
Strong odour of horse radish, RRG. Edible.

Hebeloma fastibile Fr. Common. Hfx., Sept., JS. Suspicious.

H. rimosum Bull. Four-Mile-House woods, near Hfx., JS.

Naucoria melinoides Fr. Willow Park, Hfx., Oct., JS.

N. nucea Bolt, Pt. Pleasant Park woods, Hfx., under spruce
fir, Oct., JS.

N. pediades Fr. In open spaces, Hfx., Oct., JS. Edible.

N. semiorbicularis Bull. Willow Park, Hfx., Oct., JS. Shel-
burne, CSB. Edible.

Galera ovalis Fr. On cattle droppings in woods, Hfx., Nov.,
JS.

G. hypnorum Batsch. Halifax, Oct., JS.

* * * * (*Purple-brown-spored*).

Psalliota arvensis Schæff. Camp Hill, Hfx., Sept., JS. Edible.

- P. campestris* L. Everywhere in cultivated land and pastures, JS. Pictou, etc., AHMK. Middleton, RRG. Truro, JMS. Shelburne, CSB. Best generally known edible mushroom.
- Pilosace eximius* (?) Pk. On decaying logs. "Dingle," North West Arm, Hfx., Sept., JS.
- Stropharia semiglobata* Batsch. Pictou, AHMK. Middleton, RRG.
- Hypholoma sublateritium* Fr. Pictou, AHMK. Middleton, RRG. Edible.
- H. capnoide* Fr. Pt. Pl. Park, Hfx., AHMK. Edible.
- H. fasciculare* Hud. Pictou, AHMK. Edible when specially cooked.
- Psilocybe semilunceata* Fr. Growing under spruce, Pennant, Hfx. co., JS. Doubtful.
- P. spadicea* Schæff. Halifax, Oct., JS. Pictou, AHMK. Edible.
- P. cernua* Mull. Halifax, under willow, Oct., JS.
- P. fœniseeci* P. Willow Park, Hfx., Sept., JS.
- Psathyra spadiceo-grisea* Schæff. Pictou, AHMK.
- * * * * * (*Black-spored*).
- Panæolus separatus* L. Common. Sept., JS.
- P. campanulatus* L. Pictou. AHMK. Doubtful.
- P. retirugis* Fr. Antigonish. JMS.
- Psathyrella gracillis* Fr. On cow droppings, pasture, Dutch Village, Hfx., Sept.; Willow Park, Hfx., Oct., JS. Edible as flavoring.
- P. disseminata* Fr. Among sphagnum, Willow Park, Hfx., Oct., JS. Edible as flavoring with other fungi.

Genus (Aa12).—COPRINUS.

- Coprinus comatus* Fr. Public Gardens, Hfx., Sept., JS. Very abundant on newly made refuse gradings, Halifax Common. Common in Halifax and Pictou counties on new rich spots of ground. A most valuable edible species AHMK. Antigonish and Truro, JMS.

- C. ovatus* Fr. Public Gardens, Hfx., Sept., JS. Edible.
C. sterquilinus Fr. On cow droppings in woods, Hfx., JS.
 Edible.
C. atramentarius Fr. Middleton, RRG. Edible.
C. micaceus Fr. Common on dung and compost, Hfx., Aug.,
 Nov., JS. Edible.
C. domesticus (Pers.) Fr. Shelburne, CSB. Edible.
C. plicatilis Fr. In pastures, near Hfx. July, JS. Edible.

Genus (AaI3). BOLBITIUS.

- Bolbitius fragilis* Fr. On cow droppings, Willow Park, Hfx.,
 Sept., JS.

Genus (AaI4).—CORTINARIUS.

- Cortinarius turbinatus* Fr. Pictou, Sept., Pt. Pl. Park, Hfx.,
 AHMK. Edible.
C. collinitus Fr. Willow Park, Hfx., Sept., JS. Edible.
C. violaceus Fr. Pictou and Dartmouth, AHMK. Antigonish,
 JMS. Shelburne, CSB. Edible.
C. callisteus Fr. Willow Park, Hfx., Sept., JS.
C. sublantus Fr. Willow Park, Hfx., Sept., JS. Pictou,
 AHMK.
C. ochroleucus Fr. Pictou, AHMK.
C. anomalus Fr. Pictou, AHMK.
C. cinnamomeus Fr. In grassy spaces; Pt. Pleasant Park, Hfx.,
 Sept., JS. Pictou, AHMK. Edible.
C. armillatus Fr. Pictou, AHMK. Edible.
C. lilacinus Pk. Willow Park, Hfx., Sept., Oct., JS. Edible.
C. albo-violaceus Pers. Pictou, AHMK. Edible.
C. Armeniacus Fr. Common. Hfx., Sept., JS.
C. castaneus Fr. Willow Park, Hfx., Sept., JS. Edible.

Genus (AaI5)—LEPISTA.

- Lepista nuda* Bull. Willow Park, Hfx., Sept., JS.
L. cinerascens Bull. Under spruce and pine, Pt. Pl. Park,
 Hfx., Oct., JS.
L. personata Fr. Pt. Pl. Park woods, Hfx., Sept., JS.

Genus (Aa17).—HYGROPHORUS.

- Hygrophorus eburneus* Fr. Under pines, Pt. Pleasant Park, Hfx., Oct., (stem swollen, volva persisting, pileus 4½ inch), JS. Edible.
- H. conicus* Fr. Middleton, RRG. Edible.
- H. chlorophanus* Fr. Dartmouth, AHMK.
- H. speciosus* Pk. Willow Park woods, Hfx., JS.
- H. miniatus* Fr. Antigonish, JMS. Edible.

Genus (Aa18).—GOMPHIDIUS.

- Gomphidius glutinosus* Fr., Common near Halifax, Sept., Oct.; var. *roseus* Fr. in woods, Hfx., JS. Pictou, AHMK.
- G. glutinosus*, var. *roseus* Krombh.

Genus (Aa19).—LACTARIUS.

- Lactarius torminosus* Fr. Halifax, Aug., JS. Not safe.
- L. uvidus* Fr. Pictou, AHMK.
- L. pyrogalus* Fr. Pictou, AHMK.
- L. plumbeus* Fr. Dartmouth, Hfx., AHMK. Poisonous.
- L. piperatus* Fr. Halifax, JS. Pictou, AHMK. Not generally safe, unless specially cooked.
- L. vellereus* Fr. Halifax, JS. Pictou, AHMK.
- L. resimus* Fr. Antigonish, JMS.
- L. deliciosus* Pk. Middleton, RRG. Truro, JMS. Edible.
- L. quietus* Fr. In woods, Hfx., Nov., JS.
- L. cyathula* Fr. Fir woods, Hfx., Sept., JS.
- L. affinis*, Pk. In clear spaces under spruce, Pt. Pl. Park, Hfx., JS.
- L. lignyotis* Fr. On turfy soil under spruce (its bright crimson surface resembling fine silk plush). Pennant, Hfx. co., JS. Edible.
- L. subdulcis* Fr. Pictou, AHMK. Shelburne, CSB. Edible.

Genus (Aa110).—RUSSULA.

- Russula adusta* Fr. In pine woods, Hfx., Sept., JS. Edible when specially cooked.

- R. sanguinea* Fr. In pine woods, Halifax, Sept., Oct., JS.
Poisonous.
- R. depallens* Fr. Under spruce, Hfx., JS. Edible (McIlvaine).
- R. heterophylla* Fr. Shelburne, CSB. Edible.
- R. emetica* Fr. Shelburne, CSB, Edible (McIlvaine.)
- R. veteriosa* Fr. Pine groves, Pt. Pleasant, Hfx., Sept., JS.
- Russula alutacea*, Fr. Under pines, Pt. Pleasant, Hfx., Nov.;
woods, Pennant, Hfx. Co., JS. Edible.

Genus (Aa111).—CANTHARELLUS.

- Cantharellus cibarius* Fr. McNab's Island, Hfx., Sept., JS.
Pt. Pl. Park, Hfx., AHMK. Middleton, RRG. Anti-
gonish, JMS. Shelburne, CSB. Edible.
- C. aurantiacus* Fr. Pictou, AHMK. Middleton, RRG. Anti-
gonish and Truro, JMS. Edible (McIlvaine).
- C. floccosus*, Schw. Under pines, N. W. Arm., Hfx. Oct., JS.
Middleton, RRG. Edible.
- C. infundibuliformis* Fr. Woods above Melville Island, Hfx.,
JS.

Genus (Aa113).—MARASMIUS.

- Marasmius peronatus* Fr. Halifax, JS. Edible after special
cooking.
- M. oreades* Fr. Borders of woods and woodsides, Hfx., Oct.,
JS. Pictou, AHMK. Edible.
- M. terginus* Fr. Willow Park, Hfx.; Pictou, Sept., JS. &
AHMK.
- M. alliaceus* Fr. N. W. Arm woods, Hfx., Sept., JS.

Genus (Aa114).—LENTINUS.

- Lentinus lepideus* Fr. Pictou, Waverley and Dartmouth, on
railway sleepers, fence posts and stumps, AHMK. Edible
when tender.
- L. cochleatus* Fr. In misshapen tufts on decaying stumps,
Sherwood, [near Four-Mile-House], Hfx. co., Oct., JS.
Edible when tender.
- L. vulpinus* Fr. Middleton, RRG.

Genus (Aa115).—PANUS Fr.

- Panus dorsalis* Bosc. Pictou, AHMK.
P. stypticus Fr. Pictou, Oct., JS. & AHMK. Poisonous.

Genus (Aa116).—XEROTUS Fr.

- Xerotus degener* Fr. On moss tussocks (very delicate, shrivelling up quickly in dry weather), woods, Pennant, Hfx. Co., JS.

Genus (Aa117).—SCHIZOPHYLLUM Fr.

- Schizophyllum commune* Fr. Common on dead wood, Hfx., Aug., Oct., JS. Pictou and Dartmouth, common on deadwood, AHMK. Middleton, RRG.

Genus (Aa118).—LENZITES Fr.

- Lenzites betulina* Fr. Common on birch and stumps, perennial, Hfx., JS. Pictou, common, AHMK. Shelburne, CSB
L. flaccida Fr. On stumps and dead trees, Hfx., JS.
L. sepiaria Fr. On pine stumps, Hfx., JS. Pictou, AHMK.
L. abietina Fr. On larch stump, Hfx., JS. Pictou, AHMK.

Order (Aa11).—POLYPOREI.

Genus (Aa119) Fr.—BOLETUS.

(Arranged according to McIlvaine).

- Boletus paluster* Pk. Willow Park, Hfx., JS. Pictou, (*Boletinus paluster*), AHMK. Shelburne, CSB. Edible.
B. cavipes Kalchb. Shelburne (*Boletinus cavipes*) CSB. Edible.
B. pictus Pk. Shelburne (*Boletinus pictus*), CSB. Edible.
B. Clintonianus Pk. Pictou, AHMK. Not poisonous.
B. flavus, With. Common. Hfx., Sept., Oct., JS. Pictou, AHMK.
B. luteus L. Under spruce, Willow Park, Hfx., Sept., JS. Pictou, AHMK. Edible.
B. subluteus Pk. Pt. Pl. Park, Hfx., AHMK. Middleton, RRG. Edible.

- B. Americanus* Pk. Middleton, RRG. Caps good when properly cooked.
- B. punctipes* Pk. Spryfield, Hfx. Co., AHMK.
- B. granulatus* L. Middleton, RRG. Generally considered edible.
- B. collinitus* Fr. Pictou, AHMK. Edible.
- B. badius* Fr. Under pine and hemlock, Willow Park, Hfx., Sept., JS. Pictou, AHMK.
- B. chrysenteron* Fr. Middleton, RRG. Edible.
- B. subtomentosus* L. Spryfield, Hfx., AHMK. Edible.
- B. radicans* Pers. Pt. Pl. Park, Hfx., AHMK. Eaten by McIlvaine.
- B. calopus* Fr. Middleton, RRG.
- B. retipes* B. & C. Middleton, RRG. Caps edible.
- B. pachypus* Fr. Common in woods, Hfx., Aug.; woods, Pen-
nant, Hfx. Co., JS. Not edible, but not known to be
poisonous.
- B. separans* Pk. Pt. Pl. Park, Hfx., AHMK. Edible.
- B. edulis* Bull. Pictou and Halifax, AHMK. Antigonish and
Truro, JMS. Very edible.
- B. edulis*, var. *clavipes*, Pk. Middleton, RRG.
- B. Satanus* Lenz. (?) Antigonish, JMS. Poisonous.
- B. luridus* Schæff. Common, Aug. to Oct., Hfx. [*B. lividus*
Fr., probably a misprint in (1)], JS. Middleton, var.
erythropus, RRG. Poisonous. Shelburne, CSB.
- B. Dartmouthi*, n. sp. (?) Collected 7th October on the forest
covered town site by the First Lake, Dartmouth, Halifax
county. Height 5cm, pileus 4cm, convex, yellowish
white becoming brown towards the margin. Flesh of
stem and pileus yellowish. Stem 7 to 8 mm. thick and
solid, smooth with minute vertical reddish fibre like stri-
ations, becoming more slender one centimeter from the
tube stratum, and reddish, showing traces of decurrent
tubes. Tube stratum nearly plane with a depression

before reaching the stem beyond which the tubes become decurrent on the stem. Tube mouths red, angular, one mm. in diameter on an average. The rest of the tubes dark ochraceous. Spores 10 microns by 3 to 4, eccentrically apiculate at one end. (A. H. MacKay).

- Boletus magnisporus* Frost. Spryfield, Hfx. co., AHMK.
B. scaber Fr. Pictou, AHMK. Middleton, RRG. Shelburne, CSB. Edible.
B. scaber, var. *fuscus*. Middleton, RRG. Edible.
B. chromapes Frost. Under fir and spruce, Middleton, RRG. Dartmouth, AHMK. Edible.
B. gracilis Pk. Middleton, RRG. Edible when specially cooked.
B. felleus Bull. Middleton, very bitter, RRG.
B. ampliporus Pk. (?). Pictou, Oct., JS.

Genus (AaII20).—POLYPORUS Fr.

- Polyporus brumalis* Fr. Dalhousie, Pictou co., AHMK.
P. leptcephalus Fr. On dead wood, Willow Park, Hfx., JS.
P. perennis Fr. Pictou, AHMK. Middleton (*Polystictus perennis*) RRG.
P. circinatus Fr. Pictou, AHMK. Edible when tender.
P. picipes Fr. Halifax, Oct., JS. Middleton, RRG. Edible when tender.
P. elegans Fr. Hopewell, Pictou county, AHMK. Middleton, RRG.
P. lucidus Fr. Pictou county, Common. AHMK. Middleton, RRG. Near Halifax, H. Piers.
P. sulphureus Fr. Dalhousie, Pictou county, AHMK. Antigonish and Truro, JMS. Edible.
P. salignus Fr. On willows, Halifax Common, JS.
P. epileucus Fr. On dead birch, Dalhousie, Pictou co., AHMK.
P. chioneus Fr. Halifax, JS. Edible when young.
P. cæsius Fr. Pictou, AHMK.

- P. destructor* Fr. On decaying fir wood, Melville Island woods, Hfx., JS.
- P. adustus* Fr. Pictou, AHMK.
- P. spumeus* Fr. On poplars, Hfx. ; Deal's, Dutch Village, Hfx., JS.
- P. dryadeus* Fr. Dutch Village, Hfx., JS.
- P. betulinus* Fr. Pictou, AHMK. Antigonish and Truro, JMS. Edible when young. On white birch, near Halifax, H. Piers.
- P. appplanatus* Fr. Pictou, AHMK. A specimen in the provincial museum is 25 inches in diameter.
- P. pinicola* (Swartz) Fr. Antigonish and Truro, JMS.
- P. fomentarius* Fr. On birch near Truro, July, JS. Pictou, AHMK. On aspen, N. W. Arm, Hfx., H. Piers.
- P. nigricans* Fr. On birch, McNab's Island ; on birch, "Sherwood," Four-Mile House, Hfx. co., JS.
- P. ulmarius* Fr. Pictou, AHMK.
- P. annosus* Fr. On fallen hemlock trunk near Truro, July [description given in (1) because determination was doubtful], JS.
- P. radiatus* Fr. Near Melville Island, Hfx., JS. Pictou, AHMK.
- P. hirsutus* Fr. Common. Hfx., JS. Pictou, AHMK.
- P. velutinus* Fr. Pictou. AHMK.
- P. versicolor* Fr. On larch, hemlock, birch, etc., Hfx., JS. Pictou, Dartmouth, etc., common, AHMK.
- P. zonatus* Fr. Pictou, AHMK.
- P. abietinus* Fr. Common in spruce and hemlock, Hfx., JS. Pictou, AHMK.
- P. incarnatus* Fr. On rotten wood, Willow Park, Hfx., JS. Pictou, AHMK.
- P. medulla-panus* Fr. Dalhousie, Pictou co., AHMK.
- P. vulgaris* Fr. On rotten wood, Willow Park, Hfx., JS. Pictou, AHMK.
- P. osseus* Kalchb. Pictou, AHMK.

- P. benzoinus* Fr. On a hemlock stump, Dalhousie, Pictou, AHMK.
- P. resinosus* Fr. Pictou, AHMK.
- P. biformis* Fr. On old fence logs, Pictou, AHMK.
- P. marginatus* Fr. Pictou, AHMK.
- P. borealis*, Fr. On old hemlock stump, Dalhousie, Pictou, AHMK.
- P. carneus* Nees. On hemlock fence logs, Dalhousie, Pictou, AHMK. Middleton, RRG.
- P. Pergamenus* Fr. Pictou, AHMK. Middleton, RRG.
- P. cinnabarinus* Jacq. On dead birch, Pictou and Halifax co., AHMK.
- P. albellus* Pk. *Willow Park, Hfx., Oct., JS.
- P. ignarius* Fr. On poplar, Dutch Village woods, Hfx., JS. Pictou, AHMK.
- Favolus Europaeus* Fr. Middleton, RRG.

Genus (AaII21).—TRAMETES Fr.

- Trametes odora* Fr. (?) Pictou, AHMK.

Genus (AaII22).—DAEDALEA Fr.

- Daedalea quercina* P. On old trunks, Hfx., JS.
- D. confragosa* P. On dead willows, Hfx., JS. Pictou, AHMK.
- D. unicolor* Fr. On stumps, Hfx., JS. Pictou, AHMK.

Genus (AaII23).—MERULIUS Fr.

- Merulius lacrymans* Fr. On rotten plank in a cellar, Halifax, JS. Pictou, in a cellar, AHMK.

Genus (AaII26).—POROTHELIUM Fr.

- Porothelium Friesii* Mont. Pictou, AHMK.

Genus (AaII27).—FISTULINA Bull.

- Fistulina hepatica* Fr. (?) Pictou, AHMK.

*Order (AaIII).—HYDNEI.**Genus (AaIII28).—HYDNUM L.*

- Hydnum imbricatum* L. Boar's Back, Pictou, AHMK. Edible.
H. fragile Fr. Halifax, AHMK.
H. repandum L. Near roots of pines, Pt. Pl. Park, Hfx., Sept.,
 JS. Antigonish and Truro, JMS. Shelburne, CSB.
 Pictou, AHMK. Edible.
H. compactum Fr. Boar's Back, Pictou, AHMK.
H. zonatum Batsch. Pictou, AHMK. Shelburne, CSB. Good
 for flavoring when young.
H. coralloides Scop. Growing on a birch chopping block, found
 by M. Gibson, Halifax, JS. Edible.
H. erinaceum Bull. Antigonish, JMS. Edible.

Genus (AaIII29).—SISTOTREMA Fr.

- Sistotrema confluens* Pers. In Pt. Pleasant Park, Hfx., Oct., JS.

Genus (AaIII3).—IRPEX Fr.

- Irpex tulipifera* Schw. On dead branches, Willow Park, Hfx.,
 Oct., JS.

Genus (AaIII34)—ODONTIA Fr.

- Odontia fimbriata* Fr. On dead wood, Willow Park, Hfx., JS.

*Order (AaIV).—AURICULARINI,**Genus (AaIV36).—CRATERELLUS Fr.*

- C. lutescens* Fr. Willow Park, Hfx., JS (?), AHMK.
C. cornucopioides Fr. (?) Willow Park, Hfx., on the ground,
 Oct., JS. Antigonish, JMS.

Genus (AaIV37).—THELOPHORA Fr.

- T. laciniata* P. Pictou, AHMK.

Genus (AaIV38).—STEREUM Fr.

- S. purpureum* Fr. On dead branches, Willow Park, Hfx., JS.
 Pictou, AHMK.
S. hirsutum Fr. Common on stumps, etc., Hfx., JS.
S. fasciatum Schw. Pictou, AHMK.

Genus (AaIV39).—HYMENOCHETE LEV.

- H. rubiginosa* Lev. Common, Hfx., JS.
H. tabacina Lev. On dead branches on ground, Hfx., Oct., JS.
 Pictou, AHMK.

Genus (AaIV41).—CORTICIUM FR.

- C. salicinum* Fr. Pictou, AHMK.

Genus (AaIV42).—CYPHELLA FR.

- C. fulva* B & Rav. On dead sticks, Willow Park, Hfx., JS.

Order (AaV).—CLAVARIEL.*Genus* (AaV45).—CLAVARIA L.

- C. botrytis* P. Common in spruce groves, Hfx., JS. Antigonish, JMS. Edible.
C. coralloides L. On the ground, Hfx., Sept., JS. Edible.
C. cinerea Bull. Pictou, AHMK. Shelburne, CSB. Edible.
C. cristata Holmsh. Pictou, AHMK. Antigonish, JMS. Edible.
C. rugosa Bull. Pine woods, Hfx., Oct., JS. Edible.
C. aurea Schaeff. Pictou, AHMK. Edible.
C. abietina Schum. Under spruce, Hfx., JS.
C. stricta P. Pictou, AHMK.
C. pulchra Peck. Beech grove, 3-Mile House, Hfx., Oct., JS.
C. inaequalis Mull. Pine woods, Hfx., Oct., JS. Edible.
C. flava (?) Antigonish, JMS. Edible.

Order (AaVI).—TREMELINI.*Genus* (AaVI49).—TREMELLA FR.

- T. lutescens* Fr. Truro, JMS. Pictou, AHMK. Edible.
T. mesenterica Retz. On dead wood, Hfx., Oct., JS., AHMK.

Genus (AaVI51).—HIRNEOLA FR.

- H. Auricula-Judae* Berk. On dead trunks of white pine, Melville Island woods, Hfx., JS. Pictou, AHMK.

Genus (AaVI54).—APYRENIMUM FR.

- A. lignatile* Fr. On decaying wood, Halifax, JS.

Genus (Aa VI56).—DITIOLA FR.

D. radicata Fr. On decaying birch, Melville Island woods and on pine leaves, Hfx., JS.

Family (Ab).—GASTEROMYCETES.

Order (AbVIII).—PHALLOIDEI.

Genus (AbVIII63).—PHALLUS Linn.

P. impudicus Linn. Pictou, AHMK. Shelburne, CSB.

Genus (AbVIII64).—CYNOPHALLUS FR.

C. caninus Fr. In a drain on property of R. Morrow, Hfx., JS. Pictou, AHMK.

Order (AbIX).—TRICHOGASTRES.

Genus (AbIX68).—GEASTER Mich.

Geaster hyrometricus P. Pictou, C. B. Robinson.

Genus (AbIX69).—BOVISTA Dill.

B. plumbea P. North common, Hfx., Oct., JS. Pictou, AHMK.
Edible.

Genus (AbIX70).—LYCOPERDON Tourn.

L. giganteum Batsch. R. Morrow's grounds, Hfx., Sept., JS.
Edible.

L. caelatum Fr. Common in pastures, Aug. and Sept., JS.
Edible.

L. pusillum Fr. Near roots of willows, North Common, Hfx.,
Oct., JS.

L. saccatum Vahl. N. W. Arm, Hfx., Oct., JS. Edible.

L. cyathiforme Farlow. Pictou, AHMK. Edible.

L. echinatum, Peck. Pictou, AHMK. Edible.

L. gemmatum Fr. Common in fields and pastures, Hfx., Aug.,
Sept., JS. North West Arm, Hfx., AHMK. Edible.

L. pyriforme Schaeff. On stumps, Hfx., Oct., JS. Shelburne,
CSB. Edible.

Genus (AbIX71).—SCLERODERMA P.

S. vulgare Fr. Common on roadsides, Hfx., Aug., JS. Pictou,
AHMK. Shelburne, CSB. Edible when specially cooked.

Order (AbX).—MYXOGASTRES.

Genus (AbX74).—LYCOGALA Mich.

L. epidendrum Fr. On rotten willow stumps, Oct., Hfx., JS.
Pictou, AHMK.

Genus (AbX76).—AETHALIUM Link.

Æ. septicum Fr. On dead willow stumps, Hfx., Sept., JS.
Pictou, AHMK.

Order (AbXI).—NIDULARIACEI Tul.

Genus (AbXI96).—CYATHUS Pers.

C. vernicosus DC. Pictou, AHMK.

Genus (AbXI97).—CRUCIBULUM Tul.

C. vulgare Tul. On dead twigs on ground, Willow Park, Hfx.,
Oct., JS.

Family (Ac.)—CONIOMYCETES.

Order (AcXII).—SPHÆRONEMEI.

Genus (AcXIII(9)).—SPHÆROPSIS Lev.

S. malcrum Berk. On windfall apples, JS.

Order (AcXV.)—PUCCINÆI.

Genus (AcXVI167)—PUCCINIA Pers.

P. graminis Pers. Pictou, AHMK.

Genus (AcXVI168).—GYMNOSPORANGIUM D. C.

Gymnosporangium juniperi Link. "Lucyfield," Sackville,
Halifax Co., Professor George Lawson.

Order (AcXVI).—CÆOMACEI.

Genus (AcXVII171).—USTILIGO.

U. carbo Tul. (*U. tritici* Jensen.) On wheat, Pictou, AHMK.

U. avenæ Jensen. On oats, Pictou, AHMK.

Order (AcXVII).—AECIDIACEI.

Genus (AcXVII182).—RÆSTELIA Reb.

R. lacerata Tul. On unripe fruit of Indian Pears (*Amelan-
chier Canadensis*) Hfx., JS. Sackville, Halifax Co.,
Prof. G. Lawson.

Family (Ad).—HYPHOMYCETES.

Order (AdXX).—DEMATIEI.

Genus (AdXX221)—CLADOSPORIUM Link.

C. dendriticum Wallr. On leaves and fruit of apples, pears
and other *Rosaceæ* [Note in (4)], JS.

Order (AdXXI).—MUCEDINES.

Genus (AdXXI226).—ASPERGILLUS Mich.

A. glaucus Lk. Common, AHMK.

Genus (AdXXI236).—PERONOSPORA De By.

P. infestans Mont. Common on potato vines, AHMK.

Genus (AdXXI235).—PENICILLIUM Link.

P. crustaceum Fr. Common, AHMK.

Division (B).—SPORIDIFERA.

Family (Be).—PHYSOMYCETES.

Order (BeXXIV).—MUCORINI.

Genus (BeXXIV265).—ASCOPHORA Tode.

A. mucedo Tode. Common, AHMK.

Genus (BeXXIV270).—SPORODINIA Link.

S. dichotoma Corda. Pictou, AHMK.

Family (Bf).—ASCOMYCETES.

Order (BfXXVIII).—ELVELLACEI.

Genus (BfXXVIII286).—MORCHELLA Dill.

M. esculenta Pers. Antigonish and Truro, JMS. Near Bedford,
Halifax Co., H. Piers. Edible.

M. conica Pers. Antigonish, Truro, JMS. Edible.

Genus (BfXXVIII287).—GYROMITRA Fr.

G. esculenta Fr. Pictou, AHMK. Antigonish, JMS. Not
safely edible.

Genus (BfXXVIII290).—MITRULA Fr.

M. vitellina Sac., var. *irregulare*, Pk. Antigonish, JMS.
Shelburne, CSB. Edible.

Genus (BfXXVIII291).—SPATHULARIA P.

S. velutipes Cooke & Farlow. Antigonish, JMS. Edible.

Genus (BfXXVIII292).—LEOTIA Hill.

L. lubrica Pers. On ground under birch 3-Mile House, Hfx.,
Sept., JS. Whycomagh, Inverness co., 25 Sept.,
1902, Miss Benedict and Miss Brown. Middleton, RRG.
Edible.

Genus (BfXXXVIII293).—VIBRISSEA Fr.

V. truncorum Fr. Melville Island woods, Hfx., JS.

Genus (BfXXVIII294).—GEOGLOSSUM P.

G. irregulare Pk. Pictou, AHMK. Edible.

Genus (BfXXVII296).—PEZIZA Link.

P. badia P. Pictou, AHMK. Edible.

P. calycina Schum. Pictou, AHMK. Edible.

P. warnei Pk. Pictou, AHMK.

P. fulgens Pers. Pictou, AHMK.

P. coccinea Jacq. Beaver Bank, Hfx. Co., Lawson.

Genus (BfXXVIII297).—HELOTIUM Fr.

H. citrinum Fr. Pictou, AHMK.

Order (BfXXX).—PHACIDIACEI.

Genus (BfXXX324).—HYSTERIUM Tode.

H. pulicare Pers. Pictou, AHMK.

Order (BfXXXI) — SPHERIACEI,

Genus (BfXXXI332).—TORRUBIA Lev.

T. entomorrhiza Fr. On larva of June Beetle, Pictou, AHMK.

Genus (BfXXXI356).—SPHERIA Hall.

Sphaeria morbosa Schw. "Black Knot" on the plum tree (*Plowrightia morbosa*), AHMK.

Genus (BfXXXI336).—HYPOMYCES Tul.

H. lactifluorum Schw. Parasitic on fungi, Willow Park, Hfx., Sept.; and on Gomphidium, Cantherellus, near Hfx., JS. North West Arm and Dartmouth, AHMK.

Genus (BfXXXI338).—NECTRIA. Fr.

N. cinnabarina Fr. On dead twigs in garden, Dartmouth, AHMK.

Genus (BfXXXI343).—HYPOXYLON Fr.

H. concentricum Grev. On dead birches, 3-Mile House woods, Hfx., Oct., JS.

H. coherens Fr. Pictou, AHMK.

H. verrucosum Fr. Pictou, AHMK.

H. fuscum Fr. Pictou, AHMK.

Genus.—SCORIAS.

Scorias spongiosa (Schw.) Fr. Growing on alder. Found by Mr. W. Gibson on Bedford Range, Hfx. Co. Identified by Prof. W. G. Farlow, Cambridge, Mass, U. S. A., JS. On fir leaves and branches, Yarmouth (Miss J. K. B. Kelley), AHMK. Identified by Peck.