

## INDIANA FUNGI.

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By J. M. VAN HOOK.

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For many years fungous specimens have been collected at Indiana University and from time to time a few have been added to the herbarium. During the past four years, many more of these have been identified, while still others have been collected and determined. It occurred to the writer that a preliminary list of these might be of importance to certain members of the Indiana Academy of Science. It is our intention to add to this number as rapidly as possible, with the view of obtaining ultimately as complete a list for the State as possible. So far, previous lists have not been consulted. No species is included, which has not come under my personal observation. In a future paper, it is the writer's intention to revise and extend the list with dates of first mention in Indiana, or, the possible time and method of introduction into the State.

Practically all of the specimens have been collected in Monroe and Brown counties. The latter offers a fine field for mycological study, as some of the original forests still stand. A considerable number of specimens have been obtained in my home county—Clark. Its knobs with their deep hollows between, offer probably the best collecting ground in the State for fleshy fungi.

So far, about 1,500 specimens have been classified. These contain some 500 species distributed through approximately 175 genera. I am under obligation to Professor G. F. Atkinson, Dr. C. H. Peck and Dr. W. A. Merrill for identification or verification of some of the fleshy and woody forms.

No effort will be made to secure a long list of the rusts, as that work is already so thoroughly done by Dr. J. C. Arthur. The Myxomycetes will be studied in connection with the fungi.

In order to facilitate the work of a fungus survey of the State, we would kindly solicit specimens (especially of the Fungi Imperfecti group) accompanied with date, place of collection and host or substratum.

## PHYCOMYCETES.

- Albugo bliti (Biv.) O. Kuntze.  
 “ candida (Pers.) O. Kuntze.  
 “ ipomœa panduranæ (Schw.)  
 Swingle.  
 Mucor cucurbitarum B. & C.  
 Phycomyces nitens (Ag.) Kze.  
 Plasmopara cubensis (B. & C.) Hum-  
 phrey.  
 “ viticola (B. & C.) Berl.  
 & De Toni.  
 Rhizopus nigricans EhbG.  
 Sporodinia grandis Link.  
 Synchytrium decipiens Farl.

## USTILABINEÆ.

- Doassansia sagittariæ (Westend.)  
 Fisch.  
 Ustilago, levis Kell. & Swing.

## UREDINEÆ.

- Æcidium dracontii Schw.  
 Cœoma nitens Schw.  
 Gymnosporangium macropus Link.  
 Melampsora populina (Jacq.) Lev.  
 Puccinia asparagi DC.  
 “ coronata Cda.  
 “ graminis Pers.  
 “ helianthi Schw.  
 “ malvacearum Mart.  
 “ podophylli Schw.  
 “ sorghi Schw.  
 “ violacæ (Schum.) DC.  
 “ xanthii Schw.  
 Uromyces appendiculatus (Pers.)  
 Link.  
 “ caladii (Schw.) Farl.

- “ euphorbiæ Cke. & Pk.  
 “ howei Pk.  
 “ trifolii (A. & S.) Wint.

## AURICULARIINEÆ.

- Auricularia auricula-judæ (L.)  
 Schroet.

## TREMELLINEÆ.

- Exidia glandulosa (Bull.) Fr.  
 Guepinia spathularia Fr.  
 Tremella albida Hud.  
 “ mycetophila Pk

## THELEPHORACEÆ.

- Aleurodiscus oakesii (B. & C.) Cke.  
 Corticium coerulium (Schrud.) Fr.  
 “ scutellare B. & C.  
 Craterellus cantharellus (Schw.) Fr.  
 “ cornucopioides (L.) Pers.  
 Hymenochaete ferruginea (Bull.)  
 Mass.  
 Peniophora cinerea (Fr.) Cke.  
 Sebacina inerustans Tul.  
 Stereum bicolor (Pers.) Fr.  
 “ complicatum Fr.  
 “ fasciatum Schw.  
 “ frustulosum Fr.  
 “ hirsutum Fr.  
 “ sericium Schw.  
 “ sowerbei Mass.  
 “ versicolor (Schw.) Fr  
 Thelephora palmata Fr.  
 “ schweinitzii Pk.

## CLAVARIACEÆ.

- Calocera cornea Fr.

Clavaria fusiformis Pers.  
 " mucida Pers.  
 " pistillaris Linn.  
 " pyxidata Pers.  
 Sparassis crispa (Wulf.) Fr.

## HYDNACEÆ.

Grandinia granulosa Fr.  
 Hydnum adustulum Banker.  
 " adustum Schw.  
 " arachnoideum Pk.  
 " caput-medusæ Bull.  
 " carbonarium Pk.  
 " combinans Pk.  
 " coralloides Scop.  
 " erinaceus Bull.  
 " laciniatum Leers.  
 " mucidum Pers.  
 " ochraceum Pers.  
 " pulcherrimum Pk.  
 " repandum L.  
 " septentrionale Fr.  
 " spongiosipes Pk.  
 " zonatum Batsch.  
 Irpex cinnamomeus Fr.  
 " obliquus Fr.  
 " tulipifera Schw.  
 Phlebia radiata Fr.  
 Radulum orbiculare Fr.  
 Tremellodon gelatinosum (Scop.)  
 Pers.

## POLYPORACEÆ.

Boletinus porosus Berk.  
 Boletus affinis Pk.  
 " alveolatus B. & C.  
 " auriporus Pk.  
 " bicolor Pk.  
 " castaneus Bull.

" conicus Rav.  
 " edulis Bull.  
 " felleus Bull.  
 " frostii Russell.  
 " indecisus Pk.  
 " luridus Schaeff.  
 " magnisporus Frost.  
 " modestus Pk.  
 " nigrellus Pk.  
 " ornatipes Pk.  
 " pallidus Frost.  
 " purpureus Fr.  
 " retipes B. & C.  
 " scaber Fr.  
 " separans Pk.  
 " speciosus Pk.  
 " subsanguineus Pk.  
 " subtomentosus L.  
 " subvelutipes Pk.  
 " vermiculosus Pk.  
 Dædalia ambigua Berk.  
 " confragosa (Bolt.) Pers.  
 " quercina (L.) Pers.  
 " unicolor Fr.  
 Favolus canadensis Kl.  
 Fistulina hepatica Fr.  
 Fomes applanatus (Pers.) Wallr.  
 " conchatus (Pers.) Fr.  
 " connatus (Pers.) Fr.  
 " fomentarius Gill.  
 " graveolens Cke.  
 " igniarius Gill.  
 " ribis (Fr.)  
 Glæoporus conchoides Mont.  
 Lenzites betulina (L.) Fr.  
 " flaccida (Bull.) Fr.  
 " sæpiaria Fr.  
 " vialis Pk.

*Merulius lacrymans* (Jacq.) Fr.

“ *rubellus* Pk.

“ *tremellosus* Schrad.

*Polyporus adustus* (Willd.) Fr.

“ *areularius* (Batsch.) Fr.

“ *brumalis* (Pers.) Fr.

“ *cinnabarinus* Fr.

“ *dryadeus* Fr.

“ *fissus* Berk.

“ *flavovirens* Berk. & Rav.

“ *foecicola* B. & C.

“ *frondosus* Fr.

“ *fumosus* (Pers.) Fr.

“ *gilvus* (Schw.) Fr.

“ *perennis* Fr.

“ *perplexus* Pk.

“ *picipes* Fr.

“ *pilotæ* Schw.

“ *pubescens* Fr.

“ *radicatus* Schw.

“ *resinosus* (Schr.) Fr.

“ *spraguei* B. & C.

“ *sulphureus* Fr.

“ *unicolor* Schw.

*Polystictus abietinus* Fr.

“ *biformis* Klotzsch.

“ *cinnamomeus* Sacc.

“ *conchifer* Schw.

“ *hirsutus* Fr.

“ *pergamenus* Fr.

“ *versicolor* (L.) Quel.

*Strobilomyces strobilaceus* (Scop.)

Berk.

*Trametes peckii* Kalchbr.

#### AGARICACEÆ.

*garicus campestris* Schaeff.

“ *placomyces* Pk.

*Amanita cothurnata* Atk.

“ *floccocephala* Atk.

“ *phalloides* Fr.

“ *rubescens* Fr.

“ *solitaria* Bull.

“ *strobiliformis* Vittad.

“ *verna* Bull.

*Aminitopsis vaginata* (Bull.) Roz.

“ “ “ *var. alba*.

*Armillaria mellea* Vahl.

*Cantharellus aurantiacus* Fr.

“ *cibarius* Fr.

“ *cinnabarinus* Schw.

“ *infundibuliformis* Fr.

“ *minor* Pk.

“ *wrightii* B. & C.

*Claudopus nidulans* (Pers.) Pk.

*Clitocybe candida* Bres.

“ *laceata* Scop.

“ *illudens* Schw.

“ *infundibuliformis* Schaeff.

“ *monadelpha* Morg.

“ *multiceps* Pk.

“ *ochropurpurea* Berk.

“ *odora* Bull.

*Clitopilus abortivus* B. & C.

*Collybia atratoides* Pk.

“ *confluens* Pers.

“ *dryophila* Bull.

“ *maculata* Alb. & Schw.

“ *platyphylla* Fr.

“ *radicata* Rehl.

“ *velutipes* Curt.

*Coprinus atramentarius* (Bull.) Fr.

“ *comatus* Fr.

“ *ebulbosus* Pk.

“ *micaceus* (Bull.) Fr.

- Cortinarius alboviolaceus* Pers. " *insulsus* Fr.  
 " *obliquus* Pk. " *lignyotus* Fr.  
*Craterellus cantharellus* (Schw.) Fr. " *piperatus* (Scop.) Fr.  
 " *cornucopioides* Fr. " *plumbeus* (Bull.) Fr.  
*Crepidotus applanatus* Pers. " *pyrogalus* (Bull.) Fr.  
 " *calolepis* Fr. " *rufus* (Scop.) Fr.  
 " *dorsalis* Pk. " *scrobiculatus* Fr.  
 " *mollis* Schaeff. " *serifluus* (DC.) Fr.  
 " *versutus* Pk. " *sordidus* Pk.  
*Entoloma griseum* Pk. " *subdulcis* (Bull.) Fr.  
 " *strictus* Pk. " *theiogalus* (Bull.) Fr.  
 " *subcostatum* Atk. " *trivialis* Fr.  
*Flammula betulina* Pk. " *uvidus* Fr.  
*Galera tenera* Schaeff. " *vellerius* Fr.  
*Hygrophorus ceraceus* (Wulf.) Fr. " *volemus* Fr.  
 " *coccineus* (Schaeff.) Fr. *Lentinus lepideus* Fr.  
 " *conicus* (Scop.) Fr. " *ursinus* Fr.  
 " *eburneus* Bull. " *vulpinus* Fr.  
 " *lauræ* Morg. *Lepiota angustana* Britz.  
 " *psittacinus* (Schaeff.) Fr. " *americana* Pk.  
 " *pudorinus* Fr. " *asperula* Atk.  
 " *puniceus* Fr. " *cepæstipes* Sow.  
 " *sordidus* Pk. " *granosa* Morg.  
 " *sordidus* Pk. " *morgani* Pk.  
*Hypholoma appendiculatum* Bull. " *naucinoides* Pk.  
 " *lacrymabundum* Fr. " *procera* Scop.  
 " *sublateritium* Schaeff. " *rubrotincta* Pk.  
*Inocybe fibrillosa* Pk. *Marasmius candidus* (Bolt.) Fr.  
 " *geophylla* (Sow.) Fr. *var.* " *cohærens* (Fr.) Bres.  
 " *lilacina* Pk. " *rotula* Fr.  
 " *rimosa* (Bull.) Fr. " *siccus* Schw.  
*Lactarius chrysorrheus* Fr. *Mycena epipterygia* Scop.  
 " *corrugis* Pk. " *galericulata* Scop.  
 " *deceptivus* Pk. " *hæmotopa* Pers.  
 " *deliciosus* Fr. " *leajana* Berk.  
 " *distans* Pk. " *leptophylla* Pk.  
 " *gerardii* Pk. " *pura* Pers.  
 " *hygrophoroides* B. & C. *Naucoria semiorbicularis* Bull.

Nyctalis asterophora Frost.  
 Omphalia alboflava Moy.  
     "    campanella Batsch.  
 Paneolus campanulatus L.  
     "    retirugis Fr.  
     "    solidipes Pk.  
 Panus stipticus (Bull.) Fr.  
     "    rudis Fr.  
 Paxillus panuoides Fr.  
 Pholiota adiposa Fr.  
     "    æruginosa Pk.  
     "    caperata Pers.  
     "    flammans Fr.  
     "    marginata Batsch.  
     "    squarrosoides Pk.  
     "    togularis Bull.  
     "    unicolor Vahl.  
 Phylloporus rhodoxanthus (Schw.)  
     Bres.  
 Pleurotus applicatus Batsch.  
     "    abscondens Pk.  
     "    dryinus Pers.  
     "    ostreatus Jacq.  
     "    petaloides Bull.  
     "    sapidus Kalchbr.  
     "    serotinoïdes Pk.  
     "    ulmarius Bull.  
 Pluteus cervinus Schaeff.  
     "    leoninus Schaeff. *var.* coc-  
         cineus Cke.  
 Russula alutacea Fr.  
     "    basifurcata Pk.  
     "    compacta Frost.  
     "    crustosa Pk.  
     "    decolorans Fr.  
     "    densifolia Secr.  
     "    emetica Fr.  
     "    fœtens Fr.

    "    furcata (Pers.) Fr.  
     "    granulata Pk.  
     "    marisæ Pk.  
     "    nigricans Fr.  
     "    pectinatoides Pk.  
     "    variata Banning.  
     "    veternosa Fr.  
     "    virescens (Schaeff.) Fr.  
 Schizophyllum commune Fr.  
 Stropharia semiglobata Batsch.  
     "    viridula Schaeff.  
 Tricholoma equestre L.  
     "    fumescens Pk.  
     "    personatum Fr.  
     "    russula Schaeff.  
     "    sejunetum Sow.  
 Volvaria bombycina (Pers.) Fr.  
     "    pusilla Pers.

## PHALLINEÆ.

Dictyophora duplicata (Bosc.) Ed.  
     Fisch.  
     "    ravenelii (B. & C.)  
         Burt.  
 Mutinus caninus (Huds.) Fr.

## LYCOPERDINEÆ.

Calvatia cœlata Bull.  
     "    cyathiforme (Bosc.)  
     "    gigantea (Schaeff.) Batsch.  
 Lycoperdon gemmatum Batsch.  
     "    pyriforme Schaeff.

## NIDULARIINEÆ.

Crucibulum vulgare Tul.  
 Cyathus stercorius (Schr.) De Toni  
     "    striatus (Huds.) Hoffm.

## PLECTOBASIDIINEÆ.

*Scleroderma tenerum* B. & C.  
 “ *vulgare* Hornem.

## ASCOMYCETES.

*Anthostomella ostiolata* Ell.  
*Bulgaria inquinans* (Pers.) Fr.  
*Chlorosplenium æruginosum* (Ed.) de Not.  
*Cordyceps herculea* (Schw.) Sacc.  
 “ *militaris* (L.) Link.  
*Daldinia concentrica* (Bolt.) Ces. & de N.  
*Diatrype albopruinosa* (Schw.) Cke.  
 “ *stigma* (Hoffm.) Fr.  
 “ *virescens* (Schw.) E. & E.  
*Diatrypella prominens* Howe.  
*Dichæna ferruginea* (Pers.) Fr.  
*Dimerosporium collinsii* (Schw.) Thuem.  
*Erysiphe cichoracearum* DC.  
 “ *graminis* DC.  
*Exoascus deformans* (Berk.) Fekl.  
*Glæoglossum gelatinosum* (Pers.) Durand.  
*Gibberella saubinettii* (Mont.) Sacc.  
*Glonium simulans* Gerard.  
*Gyromitra gigas* (Krombh.) Cke.  
*Helotium citrinum* (Hedw.) Fr.  
*Hypomyces lactifluorum* (Schw.) Tul.  
 “ *rosellus* (Alb. & Schw.) Tul.  
*Hypoxyton annulatum* Schw.  
 “ *atropunctatum* (Schw.) Cke.  
 “ *coccineum* Bull.  
 “ *cohærens* (Pers.) Fr.  
 “ *fuscum* (Pers.) Fr.

“ *howeanum* Pk.  
 “ *investiens* (Schw.) Berk.  
 “ *petersii* B. & C.  
 “ *turbinulatum* Schw.  
*Hysteriographium gloniopsis* (Ger.) E. & C.  
*Lachnea erinaceus* Schw.  
 “ *scutellata* L.  
*Læstadia bidwellii* (Ell.) Viala & Ravaz.  
*Leotia lubrica* (Scop.) Pers.  
*Microsphæraalni* (DC.) Wint.  
 “ *elevata* Burr.  
*Morchella conica* Pers.  
 “ *esculenta* (L.) Pers.  
 “ *semilebra* DC.  
*Nectria cinnabarina* (Tode) Fr.  
 “ *ipomoeæ* Hals.  
*Nummularia bulliardi* Tul.  
 “ *discreta* (Schw.) Tul.  
 “ *tinctor* (Berk.)  
*Otidea aurantia* (Pers.) Mass.  
*Peziza repanda* Wahl.  
 “ *succosa* Berk.  
 “ *vesiculosa* Bull.  
*Phyllachora graminis* Pers.) Fekl.  
*Phyllactinia suffulta* (Reb.) Sacc.  
*Plowrightia morbosa* (Schw.) Sacc.  
*Podosphæra oxycanthe* (DC.) De By.  
*Pseudopeziza medicaginis* (Lib.) Sacc.  
 “ *trifolii* (Pers.) Fekl.  
*Rhytisma andromadæ* (Pers.) Fr.  
*Rosellinia aquila* (Fr.) De N.  
 “ *medullaris* Ces. & De N.  
*Sclerotinia fructigena* Pers.  
*Scorias spongiosa* (Schw.) Fr.  
*Sarcocypha coccinea* (Jacq.) Cke.  
*Sphærella fragariæ* (Tul.) Sacc.

Sphærographium fraxini (Pk.) Sacc.  
 Sphærotheca pannosa (Wallr.) Lev.  
 Tuber rufum Pico.  
 Uncinula salicis (DC.) Wint.  
 Urnula craterium (Schw.) Fr.  
 Ustulina vulgaris Tul.  
 Valsa leucostoma (Pers.) Fr.  
 Venturia pomi (Fr.) Wint.  
 Xylaria castorea Berk.  
 " hypoxylon (L.) Grev.  
 " polymorph (Pers.) Grev.

## FUNGI IMPERFECTI.

*Sphærospidales.*

Actinonema rosæ (Lib.) Fr.  
 Ascochyta pisi Lib.  
 Cicinnobolus cesatii De By.  
 Cytospora persicæ Schw.  
 Diplodia zeæ (Schw.) Lev.  
 Entomosporium maculatum (Cke.)  
 Sacc.  
 Darluca filum (Biv.) Cast.  
 Leptothyrium pomi (Mont. & Fr.)  
 Sacc.  
 Phoma polygramma (Fr.) Sacc. var.  
 Plantaginis. Sacc.  
 Phyllosticta ampelopsidis Ell. &  
 Mart.  
 " prunicola (Op.) Sacc.  
 Septoria graminum Desm.  
 " lycopersici Spig.  
 " piricola Desmz.  
 " podophyllina Pk.  
 " rubi West.  
 " trillii Pk.  
 Sphæronema fimbriatum (Ell. & Hals.)  
 Sacc.

Sphæroopsis grandinea E. & E.  
 " malorum Berk.  
 Vermicularia circinans Berk.

*Melanconiales.*

Colletotrichum lindemuthianum  
 (Sacc. & Magn.) Bri. & Cav.  
 Cylindrosporium padi Karst.  
 Marsonia brunneum E. & E.  
 " ochroleuca B. & C.

*Hyphomycetes.*

Acrostalagmus cinnabarinus (Pers.)  
 Cda.  
 Alternaria brassicæ (Berk.) Sacc. var.  
 macrospora. Sacc.  
 " solani (E. & M.) Jones &  
 Grant.  
 Botrytis vulgaris Fr.  
 Cephalothecium roseum Cda.  
 Cercospora apii Fres.  
 " beticola Sacc.  
 " condensata Ell. & Kell.  
 " viticola (Ces.) Sacc.  
 Cladosporium carpophilum Thuem.  
 Fumago vagans Pers.  
 Helminthosporium carpophilum Lev.  
 " inconspicuum C. &  
 Ell.  
 Piricularia grisea (Cke.) Sacc.  
 Polythrincium trifolii B. & C.  
 Streptothrix atra B. & C.  
 Stysanus stemonites (Pers.) Cda.  
 Tubercularia vulgaris Tode.  
 Zygodemus fulvus Sacc.

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