



November 2013

## Gymnopilus Notebook 10

L. R. Hesler

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Alexopoulos-Ab

CORTINARIUS ?

On humus, (?), Prov. Valparaiso, Agarto, 1962.

Spores 8-10 x 5-5.5  $\mu$ , ellipsoid, inequilateral, ferruginous in KOH, dextrinoid, coarsely verrucose or tuberculate, no germ pore. Basidia 24-27 x 5-6  $\mu$ , 4-spored. Pleurocystidia 27-34 x 6-7  $\mu$ , ventricose or flask-shaped; cheilocystidia 20-27 x 5-8  $\mu$ , flask-shaped, non-capitate. Gill trama of subparallel hyphae, 4-11  $\mu$  broad; subhymenium not distinctive. Pileus trama interwoven. Cuticle repent, radial, bearing repent hyphae on surface (fibrillose but not scaly). Clamp connections present. Caulocystidia 50-68 x 6-13  $\mu$ , subcylindric-subfusoid to clavate-appendiculate, some with brown contents, in loose tufts.

The spores, cheilocystidia, and habitat, suggest Cortinarius despite its pleurocystidia (gymnopoloid).

Corticium ?

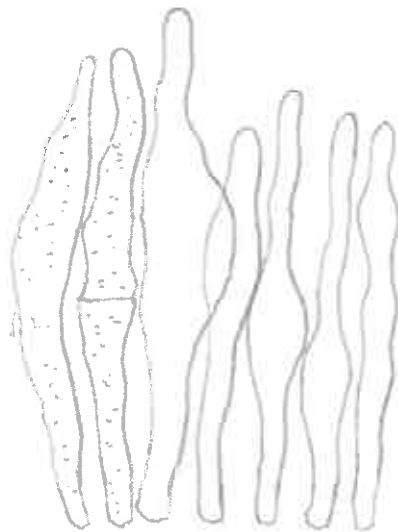
Alexopoulos - Ab



Sp - x 1000



Ch - x 1000



Caulo - x 1000

Deegan: H-168

*Gabrina*

~~GEMNOFILUS~~

Singly or in small clusters, on wood (no other collection data)

Notes by Deegan

Pileus 2.5-7.5 cm broad, brown when moist, light yellowish tan when dry. Context pale tan, nearly white; taste slightly bitter.

Lamellae attached, easily separated.

Stipe often flattened, irregular, tough; veil membranous, brown, superior.

Spores 8-10 x 5  $\mu$ , dark rusty.

Notes by Hesler

Spores 8-10 x 5-6  $\mu$ , ellipsoid, verruculose, germ-pore none, *dextrinoid*.  
Basidia 25-29 x 6-7  $\mu$ , 2-4-spored. Pleurocystidia 52-68 x 6-12  $\mu$ ,  
ventricose, neck long; cheilocystidia 44-62 x 7-11  $\mu$ , ventricose  
or obclavate. Gill trama of subparallel hyphae, 5-10  $\mu$  broad.  
Pileus trama radial-interwoven. Cuticle of repent hyphae. Clamp  
connections present. Caulocystidia more or less in a tuft or  
palisade, 37-86 x 7-12  $\mu$ , versiform (fusoid, ventricose, cylindric,  
or clavate).

*Galerina?*

Deegan- H-171

~~GYMNOPILUS~~

On dead wood, Oct. 3 (no other data)

Notes by Deegan

Pileus 2.5-5 cm broad, pale yellowish tan when dry, brown watersoaked when wet, margin striatulate when wet.

Lamellae adnate.

Stipe dull grayish white, irregular, hollow.

Spores dark rusty, 7.5-10 x 4-6  $\mu$ .

Notes by Hesler

Spores 8-10 x 5-5.5  $\mu$ , ellipsoid, slightly inequilateral, verruculose-wrinkled, no germ-pore. Basidia 23-26 x 5-6  $\mu$ , 2-4-spored. Pleurocystidia 44-68 x 6-10  $\mu$ , flask-shaped, ventricose, neck long, scattered; cheilocystidia 44-56 x 7-8  $\mu$ , similar, more numerous. Gill trama subparallel, hyphae 6-12  $\mu$  broad. Pileus trama radial. Cuticle a narrow gelatinous zone; hypodermium not sharply differentiated. Caulocystidia scattered, or more often in clusters, versiform (cylindric-subcapitate, ventricose, clavate-spathulate, fusoid), 22-56 x 3-9  $\mu$ .

Shaffer-281

GALERINA

Gregarious on log, (probably coniferous), in mixed woods,  
October 8, 1953, Ithaca, New York.

Notes by Shaffer

Pileus 3 cm broad when mature, convex with inrolled margin when young, expanding to plane-convex with margin straight, hygrophanous, disc glabrous, margin with remnants of veil in pilei about half expanded; translucent striate in mature pileus (2-3 mm in), color: [Oak, 14 L 11], except at margin becoming [Rattan, 11 K 6], or nearly [yellow ochre, 11 L 7]. Flesh 3-4 mm thick at edge of stipe, 1-1.5 mm above center of lamellae, solid, <sup>odor</sup> slightly of radish, creamish [10 D 2].

Lamellae 2-3 mm, spacing close, adnate, margin entire; lamellulae in 3-4 main tiers, color [Sentimental Brown, 13 K 8] when mature edge often darker brown.

Stipe 3.5-5.5 cm long, 4-6 mm diam. at apex, 5-7 mm at base, enlarging to base which in some is subbulbous, solid, becoming tubular, fibrous-tough, pruinose at apex, innately fibrillose; color straw [10 D 2], becoming stained with reddish brown [near Montella, 8 J 8] especially at base. Annulus superior, persistent, similar in color to stipe but becoming colored darker by spores. Color of spore print: near [15 H 12] and [15 H J] in medium heavy print.

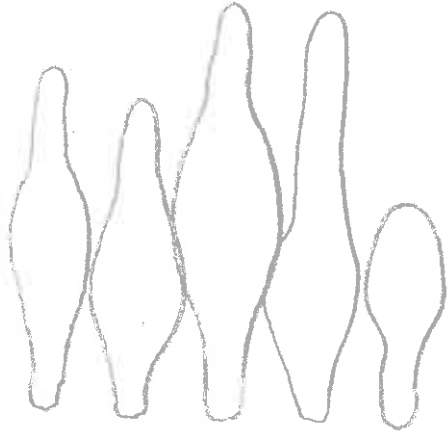
(more)

Notes by Hesler

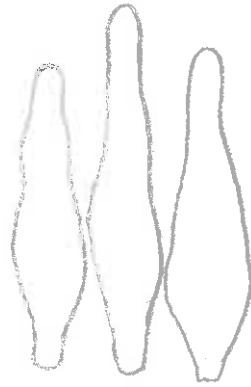
Spores 7.5-9 x 4.5-5  $\mu$ , ellipsoid, inequilateral, verruculose, with a hilum, apiculate, more or less calyptrate, ferruginous in KOH, dextrinoid. Pleurocystidia 30-54 x 10-15  $\mu$ , usually ventricose or flask-shaped, more rarely spathulate; cheilocystidia 40-48 x 10-12  $\mu$ , flask-shaped. Pileus trama loosely interwoven. Cuticle a colorless, slightly gelatinous outer zone; hypodermium not greatly differentiated structurally, but rusty brown in color.

Gabrina

Shaffer - 781



Sp - x 1000



Ch - x 1000



# 310

CORTINARIUS

On ground, in woods, Santa Barbara, Calif., coll. E. R. Lewis,  
Jan. 16, 1940 (labelled spectabilis by ~~Atto~~ A. H. Smith)

*Gymnophilus*

Notes by Smith

Pileus up to 10 cm broad, subumbonate, lobed and undulate, ochraceous buff, dry, glabrous, smooth. Context white, unchanging.

Lamellae sinuate-adnexed with a decurrent tooth, pinkish flesh color, drying grayish brown, rather narrow (7mm), sub-ventricose.

Stipe 6 cm long, 2.5 cm thick, white and minutely fibrillose above, dark-brown and coarsely fibrillose below, fibrils sub-reticulate, bare sub-bulbous, solid, white within. Annulus obsolete.

Spores smoky lavender brown in mass, bright reddish under scope, 9.6-10.8 (11.4) x 6-7.2  $\mu$ , pointed ovate, echinate. Cystidia not observed.

Notes by Hesler

Spores 9-10.5 (11) x 5.5-7(7.5)  $\mu$ , ovoid-fusoid in face view, amygdaliform in profile, verrucose or tuberculate, only slightly dextrinoid or not at all. Basidia 32-41 x 7-9  $\mu$ , (2) 4-spored. Pleurocystidia and cheilocystidia none. Cuticle a gelatinous zone.

Trueblood-444

CORTINARIUS

On humus (or soil (?). (Collection data lacking)

Spores 9-13 x 5.5-8  $\mu$ , coarsely warts, slightly ferruginous, not dextrinoid, no germ pore. Basidia 30-41 x 7-8  $\mu$ , 4-spored. Pleurocystidia and cheilocystidia none. Pileus trama interwoven. Cuticle a clear gelatinous zone resting on a brownish hypodermium.

This is placed in Cortinarius because of habitat, lack of cystidia, structure of cuticle, the rather large, verrucose spores.

Galerina

Wolf-485

GYMNOPIIUS

On mossy log, Nashville, Tenn., leg. F.T. Wolf, 1949

Pileus near ochraceous tawny, glabrous, viscid.

Stipe pallid throughout, subglabrous.

Spores 7.5-10 x 5-6  $\mu$ , ellipsoid to ovoid, in face view, slightly inequilateral in profile, verruculose, <sup>calyptrate,</sup> no germ-pore. Basidia 23-26 x 5-6  $\mu$ , 4-spored. Pleurocystidia 54-73 x 6-11  $\mu$ , ventricose, stalk short, neck long; cheilocystidia 36-58 x 6-7  $\mu$ , similar. Gill trama subparallel, hyphae 5-12  $\mu$  broad. Subhymenium not distinctive. Pileus radial-interwoven. Cuticle a narrow gelatinous zone, on a brown hypodermium. Clamp connections present. Caulocystidia 34-82 x 7-9  $\mu$ , clavate, in tufts, rare.

Shaffer-548

GALERINA

Trenton, Tennessee, leg. Denison, Smith, & Shaffer,  
April 3, 1954.

(Same as Deegan H-168 ?)

Spores 7.5-9.5 x 5-6  $\mu$ , ellipsoid to obliquely subfusoid in face view, slightly inequilateral in profile, wrinkled-calyptrate, some or many nearly smooth, no germ pore. Basidia 25-28 x 6-7  $\mu$ , 4-spored. Pleurocystidia 52-76 x 6-11  $\mu$ , ventricose, the neck usually long; cheilocystidia 33-44 x 5-9  $\mu$ , ventricose, at times capitate. Gill trama subparallel, hyphae 6-10  $\mu$  broad. Pileus trama radial-interwoven. Cuticle repent, bearing a turf of short, slender, hyphoid pileocystidia, 20-34 x 3-4  $\mu$ . Clamp connections present. Caulocystidia 38-75 x 7-12  $\mu$ , clavate, cylindric, ventricose.

Miller-588

GYMNOPIIUS (Cortinarius ?)

Under beech, birch, maple, Hancock, N. H., leg. O. K.  
Miller, September 10, 1959.

Notes by Miller

Pileus 7 cm broad, dull brown.

Lamellae dark cocoa brown, close.

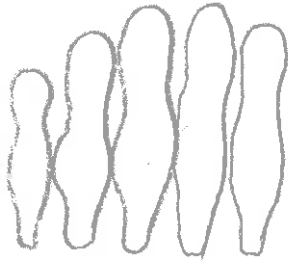
Stipe 4 cm long, 12 mm thick, dull yellow brown.

(Veil ?)

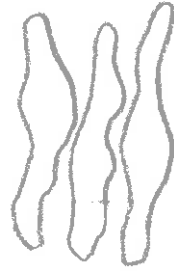
Notes by Hesler

Spores 9-11 x 5-6  $\mu$ , ellipsoid, obliquely apiculate, inequilateral, verrucose, no germ pore. Basidia 30-43 x 7-10  $\mu$ , 4-spored. Pleurocystidia few, inconspicuous, 22-33 x 6-9  $\mu$ , ventricose; cheilocystidia 26-34 x 6-8  $\mu$ , ventricose or irregular. Gill trama interwoven, hyphae 7-20  $\mu$  broad; subhymenium of narrow hyphae, 2-4  $\mu$ . Cuticle a dark-brown zone of repent hyphae. Pileocystidia none. Caulocystidia none.

*Gymnopilus (Cortinarius?)*  
Miller - 588



Pl - x 1000



Ch - x 1000

Old & poorly dried!

Marsden-601 GYMNOPIIUS (eccentricus ?)

On rotting wood, New York, September 21, 1959

(All notes by Hesler, on dried specimens)

Pileus 3-6 cm broad, tawny, glabrous. Context thin. Lamellae close, medium broad. Stipe 2.5-4 cm long, 3-5 mm thick, sometimes eccentric. No evidence of a veil (material appears rather old).

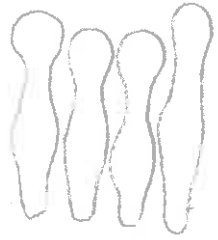
Spores 6-8 x 4.5-5  $\mu$ , ellipsoid, inequilateral, more or less obscurely verruculose, at first slightly dextrinoid then after 1 1/2 hours becoming darker red, no germ pore. Basidia 20-25 x 5-6  $\mu$ , 4-spored. Pleurocystidia 24-30 x 5-7  $\mu$ , ventricose; cheilocystidia 22-27 x 5-8  $\mu$ , flask-shaped to ventricose, capitate to subcapitate. Gill trama of slightly interwoven hyphae, 5-10  $\mu$  broad; subhymenium not distinctive. Pileus of loosely interwoven hyphae. Cuticle of repent, brown hyphae. Pileocystidia none. Caulocystidia 32-45 x 3-6  $\mu$ , filamentous to slender-ventricose, subcapitate. Clamp connections present.

This might be eccentricus (but I am uncertain as to the type. On the so-called type, I found the spores to be 5.5-8.5 x 3.8-5  $\mu$ ; Peck gives them as 15-16 x 8  $\mu$ . It is doubtful that I saw the type, even though it was so labelled.

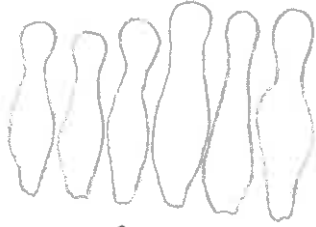
It is near liquiritiae in which the pileustrama is radial.

*Gymnopus (eccentricus?)*

Marsden - 601



Pl - x 1000



Ch - x 1000



Caulo - x 1000



Gruber-775

TRICHOLOMOPSIS (?)

STEREO

On wood, Yosemite Nat'l. Park, 8500 ft., July 28, 1946.

Notes by Gruber

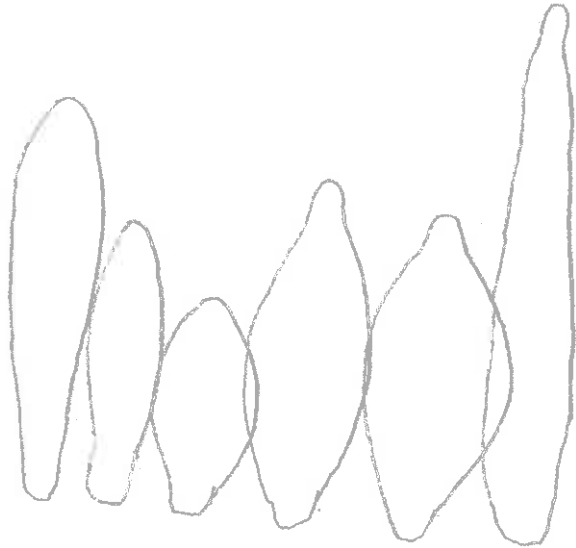
Odor mild, enticing, taste mild.

Notes by Hesler

Spores 5-6.5 x 3.5-5  $\mu$ , ellipsoid to subglobose, colorless (in both KOH and Melzer's), smooth (or possibly obscurely rough). Basidia 24-32 x 5-6  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 28-70 x 10-18  $\mu$ , clavate, ventricose, or fusoid, often slightly rostrate, slightly brownish. Gillstroma of slightly interwoven, hyphae, 3-5  $\mu$  broad. Pileus trama radial. Cuticle of repent hyphae, bearing fibrils, and pileocystidia similar to cheilocystidia.

*Ficcholomopsis*

Gruber - 775



Ch - x 1000

Sipe-1040-a

INOCYBE

On aspen log, Jemez Mts., New Mexico, August 1959.

Notes by Sipe

Cap bright rust. Gills rusty ochre. Stipe concolorous with cap. Taste not distinctive.

Notes by Hesler

Spores 6.5-8 x 3.5-4.5  $\mu$ , reniform, smooth. Pleurocystidia none; cheilocystidia clavate, brown, Cuticle fibrillose or slightly scaly.

Trueblood-1172

GYMNOFILUS

(no data)

Pileus brownish, viscid. Veil whitish (in dried specimens).

Spores 8.5-11 x 5.5-7  $\mu$ , ellipsoid or ovoid, inequilateral, verruculose, no germ pore, apiculate. Basidia 34-39 x 7-10  $\mu$ , 4-spored. Pleurocystidia 35-38 x 6-8  $\mu$ , basidiiform, ventricose, or subventricose; cheilocystidia 37-50 x 6-11  $\mu$ , ventricose with a long neck, scarcely subcapitate, obclavate. Gill trama interwoven, hyphae 3-5  $\mu$  broad; subhymenium not distinctive. Pileus trama radial. Cuticle gelatinous; hypodermium dark brown or blackish in 2% KOH. Clamp connections present. Pileocystidia none. Caulocystidia none.

Near spinulifer which is isabelline, with dull-purplish isabelline gills, smaller spores, and some other differences. Material and notes on macroscopic characters inadequate.

Shafer-3554

INOCYBE

On log, mixed woods, Windham Co., Vermont, leg. R. L. S.,  
September 1, 1961 (labelled G. sapineus).

Spores 7-10 x 3.5-4  $\mu$ , smooth, brown, reniform, no  
germ pore. Pleurocystidia none; cheilocystidia 20-38 x  
6-16  $\mu$ , clavate to vesiculose. Cuticle bearing tufts of  
brown hyphae, the terminal elements as clavate or vesiculose  
pileocystidia.

Possibly near I. caesariata.

Shaffer-3978

GYMNOPIIUS

CARD  
(not found)

Gregarious on deciduous log, Emmet Co., Michigan, July 14, 1964.

Spores 7-9 x 4-5  $\mu$ , ellipsoid, inequilateral, ferruginous in KOH, dextrinoid, no germ pore. Pleurocystidia 23-28 x 5-6  $\mu$ , ventricose; cheilocystidia 25-32 x 4-6  $\mu$ , flask-shaped to ventricose, subcapitate or non-capitate. Gill trama of subparallel hyphae; subhymenium not distinctive. Pileus trama radial. Cuticle of repent hyphae, with surface hyphae (more or less a fibrillose surface). Clamp connections present. Pileocystidia and caulocystidia none.

Bigelow-3991

INOCYBE

On hardwood log, Guerette, Maine, August 13, 1956 (Labelled Gymnopilus).

Notes by Bigelow

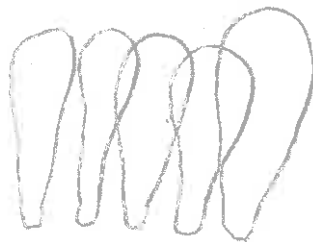
Cap rusty-brown over all, densely scaly, scales erect and composed of agglutinated fibrils.

Notes by Hesler

Spores 6-8.5 x 3.5-4  $\mu$ , ellipsoid, subreniform, smooth, not truncate, no pore, pale brownish. Pleurocystidia none; cheilocystidia 24-30 x 8-12  $\mu$ , pyriform to clavate, brownish. Gill trama of slightly interwoven hyphae, 5-8  $\mu$  broad. Pileus trama radial. Cuticle bearing fascicles of brown, incrusted hyphae, terminal elements ventricose, pileocystidia, 42-76 x 8-15  $\mu$ . Caulocystidia in fascicles, 36-52 x 5-12  $\mu$ , brownish, ventricose to clavate.

Onocyte

Bigelow - 3991



Ch - x 1000



Pileo - x 1000



Caulo -  
x 1000



Imshaug-4037

GYMNOPIIUS (humicola?)

Chippewa Co., Mich., Aug. 25, 1949

Notes by Imshaug

Pileus tawny, fibrillose-scaly, dry.

Lamellae yellowish.

Stipe tawny, fibrillose-scaly. Annular zone faintly fibrillose.

Notes by Hesler

Spores 7-9 x 4.5-5  $\mu$ , ellipsoid to subfusoid, inequilateral, verruculose, pore none. Basidia 23-27 x 5-7  $\mu$ , (2)4-spored. Pleurocystidia 30-37 x 6-8  $\mu$ , clavate-appendiculate or mucronate (chrysocystidia); cheilocystidia 22-32 x 4-6  $\mu$ , more or less bottle-shaped, neck slender, apices subcapitate, often more or less flexuous. Gill trama subparallel, hyphae 5-10  $\mu$  broad. Pileus trama interwoven. Cuticle of repent, brown hyphae, radially disposed, bearing clusters of brown, incrusted hyphae - scales. Clamps present. Pilocystidia none. Caulocystidia in tufts, irregularly clavate to cylindrical.

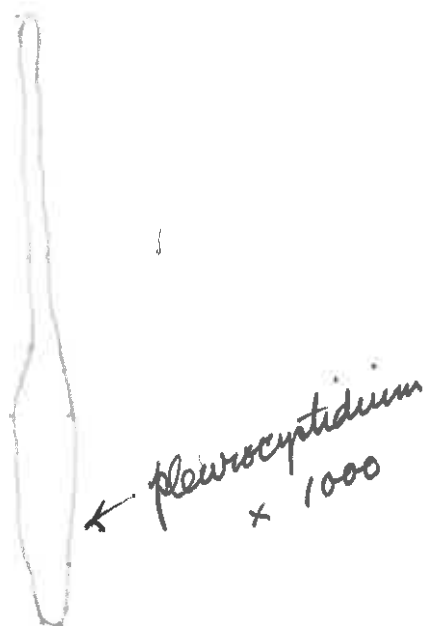
Thiers-4080

GYMNOPIIUS

Gregarious on log, in mixed woods, Tahquamenon, Upper Falls,  
Mich., Aug. 14, 1956

(This was labelled Kuehneromyces vernalis.)

Spores 6.5-9 x 4.7-5.5  $\mu$ , ellipsoid to ovoid in face view, slightly inequilateral in profile, wrinkled-rough, no pore. Basidia 20-23 x 4-5  $\mu$ , 4-spored. Pleurocystidia 50-81 x 6-8  $\mu$ , slender flask-shaped, neck up to 45  $\mu$  long; cheilocystidia similar, 48-72 x 6-9  $\mu$ . Gill trama slightly interwoven, hyphae 5-9  $\mu$  broad. Subhymenium not distinctive. Pileus trama radial-interwoven. Cuticle a thin gelatinous zone. Hypodermium not distinctive. Pilocystidia none.



Cain-9378

GYMNOPIIUS

Green River, Ontario, September 20, 1936 (det. as Flammula braendlei by R. F. Cain)

Spores 7-9.5 x 4-5  $\mu$ , ellipsoid in face view, slightly inequilateral in profile, verruculose, not dextrinoid, even after 24 hours, no germ pore, ferruginous in KOH. Basidia 22-26 x 4-5  $\mu$ . Pleurocystidia none; cheilocystidia 17-20 x 4-5  $\mu$ , ventricose or clavate. Gill trama slightly interwoven, hyphae 3-6  $\mu$  broad. Pileus trama interwoven. Cuticle of repent, colorless hyphae. Clamp connections present. Pileus and gill trama yellowish in KOH; reddish brown in Melxer's reagent.

The material not in prime condition.

Singer places this (F. braendlei) in Gymnopilus, sec. Annulata (distinct annulus formed).

~~Flammula~~ Gymnophilus  
(Flammula braendlei (Pk.?)

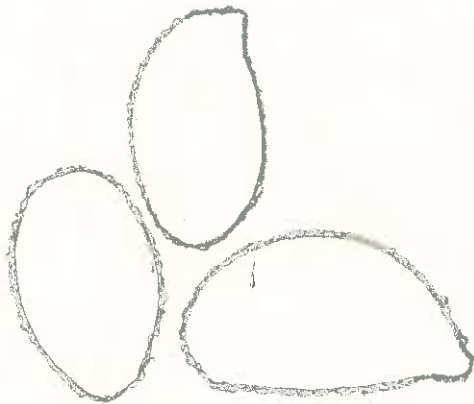
Cain-9378



Pl - x 1000



Ch - x 1000



Spores - x 4000

Thiers - 5618

GYMNOFILUS SP.

Cespitose on hardwood log, Sam Houston National Forest, near Richards, Texas, Sept. 25, 1958.

Pileus with fibrillose scales.

Spores 7-8.5(9.5) x 4.5-5(5.5)  $\mu$ , ellipsoid, inequilateral, verruculose, no pore, dextrinoid. Pleurocystidia not found; cheilocystidia flask-shaped, non-capitate. Pileocystidia none. Pileus trama slightly interwoven. Caulocystidia in tufts, cylindric-clavate 25-55 x 5-10  $\mu$ .

I cannot come to a decision on this. With additional notes on macroscopic characters, I might. If it had a veil, it is near sapineus; without a veil, rather near picreus. But, even so, it seems to be neither of these.

Thiers - 6397

GYMNOPIIUS SP.

Scattered on log, in mixed woods, DeSoto National Forest, Biloxi, Miss.,  
June 16, 1959.

Cap glabrous, orange.

Spores 6-8 x 4-5  $\mu$ , ellipsoid, dextrinoid. Pleurocystidia not found; cheilocystidia flask-shaped, capitate to non-capitate, 18-30 x 5-10  $\mu$ , not numerous, often inconspicuous. Gill trama of subparallel hyphae, 7-10(20)  $\mu$  broad; subhymenium not distinctive. Pileus trama interwoven. Cuticle of repent hyphae. Clamps present. Pileocystidia and caulocystidia absent.

Near underwoodii in which the spores are slightly smaller, the pileus scaly. Additional notes on macroscopic characters might help.

Thiers - 7381

GYMNOPIIUS SP.

On hardwood stump, Marin Co., Calif., Feb. 2, 1960.

Spores 6-8 x 4.5-5  $\mu$ , dextrinoid after 30 min. Pleurocystidia 24-30 x 6-8  $\mu$ , ventricose; cheilocystidia 28-40 x 5-7  $\mu$ , ventricose to irregularly flask-shaped, capitate or subcapitate.

Information needed on veil and taste. Near liquiritiae.

Thiers - 778a

GYMNOPIIUS SP.

On log, in cypress swamp, Baton Rouge, La., July 19, 1960.

Spores 5.5-7 x 4-4.5  $\mu$ , slowly dextrinoid. Pleurocystidia not found; cheilocystidia flask-shaped, subcapitate.

Material hardly workable.



Thiers - 8601

GYMNOPIIUS (near SUBSAPINEUS)

In humus, under pines, The Presidio, San Francisco, Calif., Dec. 21, 1960.

Spores (6)7-9 x (4)4.5-5  $\mu$ , ellipsoid, inequilateral, verruculose, ferruginous, dextrinoid, no germ pore. Basidia 20-24 x 4-6  $\mu$ , (2) 4-spored. Pleurocystidia 24-27 x 4-5  $\mu$ , ventricose; cheilocystidia 24-37 x 5-7  $\mu$ , flask-shaped, capitate. Gill trama of subparallel hyphae, 3-7  $\mu$  broad; subhymenium not distinctive. Pileus trama of radial hyphae. Cuticle of repent hyphae, bearing free, brown, incrustated hyphae. Pileocystidia none. Caulocystidia in tufts, mostly as terminal elements on erect hyphae, similar to cheilocystidia.

Near subsapineus, but I need to know the colors, taste, and presence or absence of a veil.

Thiers - 9398

GYMNOPIIUS SP.

On log, Lewiston, Calif., Nov. 9, 1962.

Spores 7-8.5 x 4-5  $\mu$ , dextrinoid. Pleurocystidia ventricose, 23-27 x 5-6  $\mu$ ; cheilocystidia 24-37 x 5-7  $\mu$ , flask-shaped, capitate. Pileus cuticle repent, not greatly differentiated. Pileus trama radial.

Notes on veil (presence or absence) and on taste needed.

Tenn-12894

*Cortinarius?*  
GYMNOPIIUS

(near *spectabilis*?)

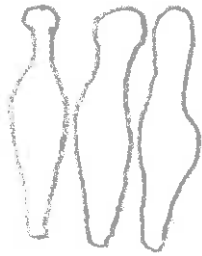
On soil, Cades Cove, September 1, 1940

Spores 7-8(8.5) x 5.5-6(6.5)  $\mu$ , ellipsoid, short-ellipsoid to subglobose or ovoid, slightly or not inequilateral, rather coarsely warty, dextrinoid only after standing for one hour in Melzer's reagent. Basidia 27-30 x 7-8  $\mu$ , 4-spored. Pleurocystidia 28-32 x 6-8  $\mu$ , ventricose, scattered; cheilocystidia 18-26 x 7-9  $\mu$ , clavate; clustered. Gill trama of slightly interwoven hyphae; subhymenium not distinctive. Pileus trama slightly interwoven. Cuticle of repent hyphae, with scattered bundles of brownish hyphae (fibrillose scales). Caulocystidia none. Clamps not found.

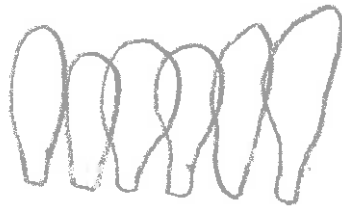
This may be a Cortinarius. The spores seem relatively short, coarsely warty, and the cheilocystidia are not typical for G. spectabilis. It was growing on soil. The pileus color was evidently tawny olivaceous rather than tawny-orange.

Gymnopilus ?  
Continuus ?  
Tenn - 12894

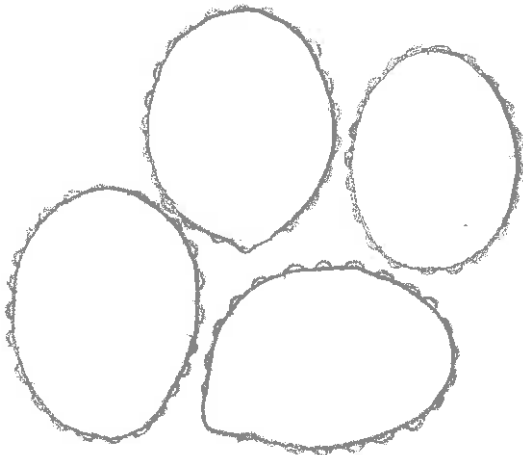
Notes ?



Gl - x 1000



Ch - x 1000



Spores - x 4000

Rhoads-15868

GYMNOPIIUS

On Grand fir logs, Elk River, Idaho, June 20, 1920. (det. by J. R. Weir as Pholiota aegerita).

(No Notes)

Spores 7-8.5 x 4-5  $\mu$ , ellipsoid, inequilateral, verruculose, ferruginous in KOH, dextrinoid, no pore. Basidia 23-26 x 5-6  $\mu$ , 4-spored. Pleurocystidia 23-26 x 5-6  $\mu$ , ventricose; cheilocystidia 22-30 x 6-7  $\mu$ , ventricose (not capitate). Gill trama of subparallel hyphae, 5-15  $\mu$  broad. Pileus trama of interwoven hyphae. Cuticle repent. Pileocystidia and caulocystidia none. Clamp connections present.

Material appears old, and is hard. Veil ? Taste ?  
Gill color ?

23776

Flammula

on fallen oak limb

Cades Cove, Oct. 18, 1960

Pileus 1-3.5 cm. broad, convex, expanding, hygrophanous, "ochraceous buff" to "ochraceous orange," appressed-streaked fibrillose, margin even. Context pale orange-buff; odor slight or mild, taste bitter.

Lamellae adnate-decurrent, pale buff then "ochraceous orange", finally more or less dingy brownish-stained, close, rather narrow.

Stipe 2-4 cm. x 2-3 mm., dingy ochraceous brown, with scattered fibrils, equal, solid then more or less hollow.

Tenn-24501

GYMNOPIIUS *sp.*

On oak log, near Smokemont, N.C., GSMNP, Aug. 16, 1961

Pileus 4 cm broad, fibrillose-squamulose, "antimony yellow", dry or subhygrophanous, margin even. Context whitish, faintly tinged yellowish, thick, soft; odor mild, taste promptly very bitter.

Lamellae emarginate, broad, close, lamellulae numerous, brown.

Stipe 6 cm x 4 mm, dingy yellow-brown, scattered-fibrillose, equal, with a pith. Annulus superior, fibrillose, *fugacious*.

Spores 7-8.5 x 4-5.5  $\mu$ , ellipsoid or subovoid, inequilateral, verruculose, no germ-pore. Basidia 24-31 x 5-6  $\mu$ , 2-4-spored. Pleurocystidia 27-38 x 6-7  $\mu$ , cylindrical to clavate and acuminate or mucronate; cheilocystidia 16-35 x 6-7  $\mu$ , clavate-mucronate or cylindrical-ventricose. Gill trama slightly interwoven, hyphae 4-7  $\mu$  broad. Pileus trama more or less radial. Cuticle of repent hyphae bearing a trichodermial turf. Clamps present.

*Material not entirely adequate.*

Galerina

GYMNOPILUS

Cooke-32992

On old log, Fort Ancient, Warren Co., Ohio, Oct. 21, 1961

Cooke's Notes

Pileus to 2 cm broad, yellow-brown.

Stipe light brown, with veil.

(Lamellae subdistant.)

Hesler's Notes

Spores 7.5-9 x 5-5.5  $\mu$ , ellipsoid or subovoid, inequilateral, <sup>calyptrate,</sup> <sup>^</sup> <sup>somewhat dextrinoid,</sup> verrucose, germ-pore none. Basidia 26-28 x 6-7  $\mu$ , 4-spored. Pleurocystidia 47-56 x 8-12  $\mu$ , ventricose, with a long neck; cheilocystidia similar, 42-52 x 6-11  $\mu$ , ventricose or fusoid-ventricose. Gill trama subparallel, hyphae 5-10  $\mu$  broad. Subhymenium not distinctive. Pileus trama radial and slightly interwoven. Cuticle a narrow gelatinous zone. Hypodermium of brown, periclinal hyphae.



Galerina

~~GYMNOPIIUS~~

Cooke-33175

On *Thuja occidentalis* wood, Champaign Co., Ohio, Nov. 11, 1961

Notes by Cooke

Pileus 4.5 cm broad, dark brown, moist, convex to plane.

Lamellae adnate, close, rusty brown.

Stipe 6 cm x 5 mm, brown. Cortinate near top.

Notes by Hesler

Spores 7.5-10<sup>(10.5)</sup> x 4-5.5 μ, ellipsoid or subamygdaliform, obliquely inequilateral, verruculose, wall double, <sup>many calyptrate,</sup> germ-pore none. Basidia 22-25 x 5-6 μ, (2)4-spored. Pleurocystidia 46-67 x 8-11 μ, ventricose, neck 28-48 μ long; cheilocystidia similar. Gill trama subparallel, hyphae 5-10 μ broad. Pileus trama interwoven. Cuticle not greatly differentiated, repent. Clamp connections present. Caulocystidia 47-93 x 6-15 μ, subcylindric, subfusoid, or ventricose.

Cooke-33846

GALERINA

On hardwood log, Yellow Springs, Ohio, October 21, 1962

(Labelled Gymnopilus ?)

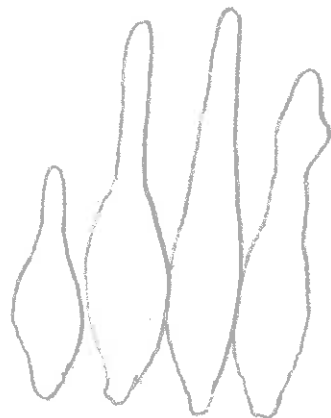
Spores 7-9 x 4-5.5  $\mu$ , ellipsoid or subovoid, inequilateral, verrucose, some or many more or less calyptrate, ferruginous in KOH, dextrinoid. Pleurocystidia 54-68 x 10-16  $\mu$ , flask-shaped, neck slender, projecting; cheilocystidia similar, 30-54 x 8-12  $\mu$ . Gill trama of slightly interwoven, frequently-septate hyphae, 7-20  $\mu$  broad; subhymenium not distinctive. Pileus trama of radial-interwoven hyphae. Cuticle not greatly differentiated.

*Galorina*

Cooke 33846



Pl - x 1000



Ch - x 1000

Sm-50849

PHOLIOTA

On conifer log, Tahquamenon, Oct. 5, 1955

Notes by Smith (Labelled Gymnopilus)

Pileus dull tawny, faintly striate, taste mild. Gills ochraceous tawny. Stipe darker than pileus, evenly colored over all, naked. (Looks like a Galerina).

Notes by Hesler

Spores 7-9(10.5) x 4-5  $\mu$ , ellipsoid, inequilateral, smooth, germ pore obscure (small), yellowish brown in KOH, and Melzer's. Pleurocystidia ventricose, 22-25 x 5-6  $\mu$ ; cheilocystidia 24-28 x 3-7  $\mu$ , flask-shaped, capitate or non-capitate.

Sm-56242

GALERINA ?

On conifer log, Trinidad, California, December 3, 1956

Notes by Smith

Cap dingy tawny to dull red-brown. Gills dull cinnamon. Veil none.

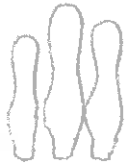
Notes by Hesler

Spores 7-9 x 4.5-5.5  $\mu$ , ellipsoid or ovoid, inequilateral, appearing to have an obscure pore, verrucose, many more or less calyptrate, dark cinnamon in KOH, dextrinoid. Basidia 25-28 x 6-7  $\mu$ , 4-spored. Pleurocystidia 16-20 x 4-5  $\mu$ , ventricose; cheilocystidia 30-38 x 5-7  $\mu$ , dumb-bell-shaped, or tibiiform to lecythiform, more rarely clavate. Gill trama of subparallel hyphae, 3-5  $\mu$  broad; subhymenium not distinctive. Pileus trama of radial hyphae. Cuticle repent, bearing widely scattered pileocystidia, 26-40 x 6-8  $\mu$ , similar to cheilocystidia. Caulocystidia similar, in small tufts. Clamp connections present.

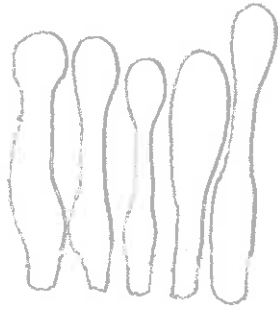
This seems better in Galerina: the spores are cinnamon brown, often calyptrate, apparently with an obscure pore, and the cheilocystidia are not entirely typical of Gymnopilus.

Galerina?

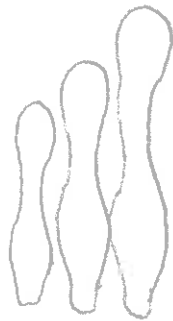
On conifer log - Sm - 56242



Pl - x 1000



Ch - x 1000



Caule - x 1000

Sm-59934

GYMNOPIIUS

*Notes needed*

Mixed conifers, (in humus ?), N. W. of Burgdorf, Idaho, Aug. 13, 1958. (Labelled G. punctifolius by AHS, but not that).

Pilei (dried) fulvous (no blue or green); lamellae subdistant.

Spores 7-9 x 4.5-6  $\mu$ , ovoid to ellipsoid, inequilateral, ferruginous in KOH, dextrinoid at once, verrucose. Pleurocystidia 25-32 x 5-7  $\mu$ , ventricose; cheilocystidia 22-40 x 3-4  $\mu$ , filamentous to clavate or flask-shaped, non-capitate or rarely subcapitate. Gill trama of subparallel hyphae, 4-8  $\mu$  broad; subhymenium not distinctive. Pileus trama radial. Cuticle a pale to colorless zone (as if subviscid). Pileocystidia none. Caulocystidia 20-48 x 2-3  $\mu$ , filamentous, non-capitate, scattered or nearly turf-like.

Although labelled G. punctifolius, the spores are too large, the cheilocystidia are non-capitate, the gills subdistant, and the cuticle appears to be subgelatinous.

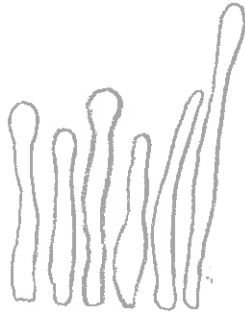
Notes on habitat, colors, etc. are needed.

Gymnopilus

Sm - 59934



Gl - x 1000



Ch - x 1000



Caulo - x 1000



Sm-62280

GYMNOPIIUS "No. 2"

Ann Arbor, Michigan, October 8, 1959

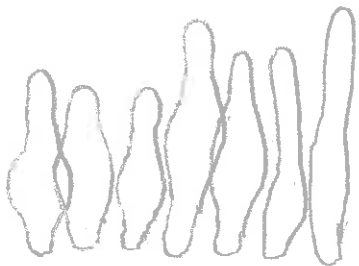
(No notes on fresh condition)

Spores variable in size and shape in a given field: 5-8.5 x 3.5-5.5  $\mu$ , ellipsoid, also many 3-5 x 3.5-4.5  $\mu$ , globose, subglobose, short-ellipsoid, all verruculose, ferruginous, moderately dextrinoid, no pore. Basidia 23-26 x 5-6  $\mu$ , 4-spored. Pleurocystidia 22-34 x 5-8  $\mu$ , numerous, often conspicuous, ventricose to subcylindric-subventricose; basidioles 16-28 x 4-6  $\mu$ , brown, buried, ventricose to clavate; cheilocystidia 22-40 x 4-9  $\mu$ , more or less of three types: (1) ventricose, (2) cylindric, often (3) flask-shaped, non-capitate, or more rarely capitate to subcapitate. Gill trama of slightly interwoven hyphae, 2-5  $\mu$  broad; subhymenium not distinctive. Pileus trama of radial hyphae. Cuticle repent, bearing loosened, brown, incrustated hyphae, the terminal elements as pileocystidia, 28-55 x 6-12  $\mu$ , clavate or ventricose. Caulocystidia 20-52 x 3-4  $\mu$ , filamentous, scattered, rare. Clamp connections present.

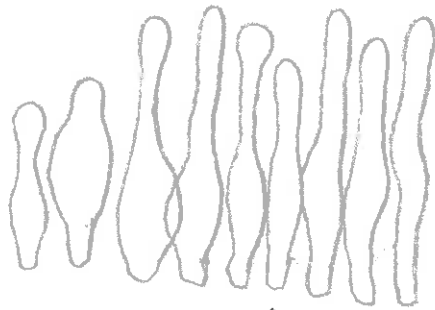
This could be a new species. Need notes on colors, veil.

Gymnopilus

Sm - 62280



Pl - x 1000



Ch - x 1000



Basidioles - x 1000



Pileo - x 1000



Caulo - x 1000

Sm-62954

CORTINARIUS ?

(Labelled: Gymnopilus punctifolius ?). On sandy soil, in woods (buried wood), Douglas Lake, Mich., leg. N. J. Smith, August 20, 1960.

(Does not at all resemble type of G. punctifolius).

Spores 5.5-7.5 x 3.5-4.5  $\mu$ , ellipsoid, slightly inequilateral, smooth, no germ pore, yellowish brown in KOH, and in Melzer's. Pleurocystidia and cheilocystidia none. Gill trama parallel. Subhymenium not distinctive. Pileus trama radial. Cuticle repent, with bundles of colorless hyphae. Clamps present. Caulocystidia none.

The mounting fluid becomes pink when sections of the pileus are placed in 2% KOH. ▲

Sm-71427

CORTINARIUS ?

Coll. by Van Hook, Bloomington, Indiana, May 9, 1929

Notes by Van Hook

Pileus 4-10 cm broad, convex, then expanded, irregularly upturned in old age, slightly viscid when moist (oily to touch), pitted or rugose, cream-buff to honey yellow, in age the center sometimes paler, margin sometimes umber or tawny-olive, or colors indiscriminately distributed (reminds of P. praecox in Atkinson). Context pale.

Lamellae up to 6 mm broad, white then cream to buff, to snuff-brown, edges crenulate.

Stipe 8-15 cm long, 6-15 mm thick, equal, or enlarged upward, hollow, white. Veil whitish, breaks variously and left anywhere.

Notes by Hesler

Spores 7-9.5 x 4.5-5  $\mu$ , cinnamon brown or tawny, ellipsoid, slightly inequilateral, verruculose, no pore, dextrinoid. Basidia 22-26 x 5-6  $\mu$ , 4-spored. Pleurocystidia 44-67 x 7-11  $\mu$ , flask-shaped with a long neck, scattered; cheilocystidia 32-45 x 6-8  $\mu$ , similar. Gill trama of subparallel hyphae, 8-22  $\mu$  broad; subhymenium of narrow, short-celled hyphae. Pileus trama radial. Cuticle a narrow gelatinous zone, resting on a brown hypodermium. Cuticular zone sloughs away at times. Caulocystidia none.

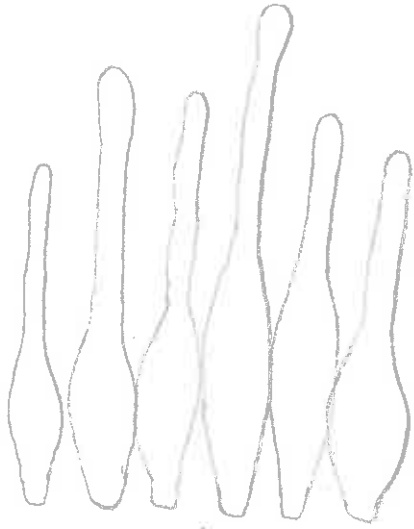
Cortinarius - 2

(Sm-71427)

Material not the best. Spore-color and cystidia more like Cortinarius than Gymnopilus. (Habitat not stated.)

Cortinarium ?

Sm - 71427



Pl - x 1000



Ch - x 1000

Sm-71436

GYMNOPIIUS

On hemlock, New Richmond, Mich., C.H.K., Sept. 20, 1910

Spores 8-9.5 x 4.5-5.5  $\mu$ , ellipsoid, inequilateral, verruculose, no germ pore, ferruginous in KOH, yellow-brown in Melzer's reagent, even after 16 hours. Pleurocystidia none; cheilocystidia 22-34 x 7-11  $\mu$ , clavate, more or less capitate. Gill trama radial. Cuticle of repent, brown hyphae. Caulocystidia none.

Material too old for satisfactory sections.

Discard!

*Galerina*

~~GIMNOPILUS~~

Sm-71445

On wood humus, Rob Springs, leg. ER, Dec. 25, 1942

Notes by ER

Pileus slightly viscid when wet, hygrophanous, glabrous, "antimony yellow," when dry, ~~marginate~~ "ochraceous buff" when wet, margin striatulate for only 3-4 mm. Context odor none; taste subfarinaceous.

Lamellae adnate or shallow-sinuate, close.

Stipe apex "cartridge buff," lower portion sordid, solid, base slightly dilated. Veil leaving a slight band near apex.

Notes by Hesler

Spores 8-10 x 4.5-5.5  $\mu$ , ellipsoid to ovoid in face view, inequilateral in profile, wrinkled-rough, wall tending at times to be sub-calyptrate, germ-pore none. Basidia 26-30 x 5-6  $\mu$ , 4-spored. Pleurocystidia 57-64 x 8-12  $\mu$ , ventricose or lageniform, scattered; cheilocystidia 45-63 x 11-15  $\mu$ , similar. Gill trama subparallel, hyphae 4-8  $\mu$  broad. Pileus trama radial and loosely interwoven. Cuticle a gelatinous zone, often thin and somewhat indefinite, resting on a brown, radially-disposed hypodermium. Clamp connections present. Caulocystidia none.

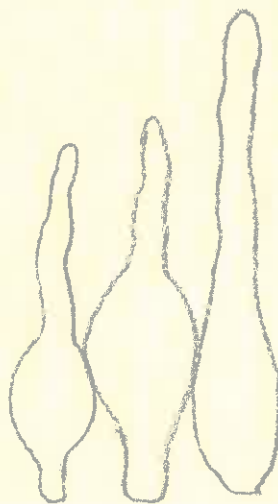


*Gymnospilus Galerina*

Sm-71445



Pl - x 1000



Ch - x 1000