

pressed, thin, soft, tough, not striate. GILLS sordid white, or in age pale yellow, very narrow, 1-1.5 mm., converging to point of attachment of pileus to the wood, crowded. BASIDIA clavate, 20-25 x 4-5 μ , 4-spored. SPORES oval to subglobose, smooth, white granular, 2-3 μ . CYSTIDIA numerous, short lanceolate to fusoid, thickwalled, hyaline or sordid yellowish, arising below the subhymenium, exposed portion of tip rough, 45 x 10-14 μ . Cystidia on edge of gills smaller and some of them capitate as in some species of *Galera*. SUBHYMENIUM of irregular cells, 4-6 μ in diameter. TRAMA of gills of very irregular flexuous interwoven threads. TRAMA of pileus remarkable, of four layers; inner layer about half the thickness of the pileus, compact, floccose interwoven; second layer, open, slender, distant, palisade threads in a gelatinous matrix; third layer compact, thin; fourth and outer layer erect tomentose. On rotting wood. On decaying bass wood limb, Warner's Glen, Cayuga Lake, Ithaca, N. Y., June 30, 1901, G. F. A., C. U. herb., No. 6083; on rotting log, McGowan's woods, Ithaca, N. Y., August 5, 1901, C. O. Smith, C. U. herb., No. 7620; rotten wood, west Cayuga Lake, July 19, 1902, C. H. Kauffman, C. U. herb., No. 9841.

PLUTEUS FLAVOFULIGINEUS Atkinson n. sp.—Plants scattered, 5-7 cm. high, pileus 4-5 cm. broad, stems 4-6 mm. in thickness. PILEUS oval to convex, sometimes slightly umbonate, very thin, chrome yellow with a smoky tinge and with smoky radiating lines which anastomose more or less near the center. In young plants surface darker, minutely tomentose from numerous fusoid, acuminate, straight or curved cells containing a dull pigment which gives the smoky color to the cap. Margin not striate, flesh thin. GILLS free, rounded at both ends, 3-5 mm. broad, not very crowded, deep flesh color. BASIDIA clavate, 30-35 x 6-7 μ , 4-spored. SPORES oval, smooth, colored like the gills, 5-7 x 4-6 μ . CYSTIDIA numerous, fusoid, ends blunt, hyaline, 80-100 x 12-20 μ . SUBHYMENIUM of rounded cells 6-10 μ . TRAMA of gills of cylindrical cells converging as they descend in the gills. STEM pale pink to flesh color, smooth, solid, flesh pink, becoming fistulose. On very rotten wood, woods, Coy Glen, Ithaca, N. Y., August 6, 1901, G. F. A., C. U. herb., No. 7619.

POLYPORIS HOLOCYANEUS Atkinson n. sp.—Plants gregarious and sometimes several with the bases joined, 5-7 cm. high, pileus 2-6 cm. broad, stems 4-8 mm. in thickness. Entire plants deep blue when fresh, the tubes lighter colored, and somewhat iridescent when fresh, giving to the unaided eye somewhat the appearance of a *Hydnum*. In drying the color becomes much duller, the cap dull brown to dull reddish brown or in younger specimens with a tinge of blue or purple, the stem passing through similar changes but remaining darker, while the tubes quite lose the blue color and