

**Article XII.**—DESCRIPTIONS OF NEW SPECIES OF NEUROPTEROUS INSECTS FROM THE BLACK MOUNTAINS, N. C.

BY NATHAN BANKS.

***Perla carolinensis*, sp. nov.**

Head nearly covered by a large black spot, angulate behind in the middle, and leaving a triangular orange spot each side above; an elongate pale spot each side near base of antennæ; basal joint of antennæ mostly black, second joint yellow, beyond brownish; pronotum dull blackish, rather paler on sides; thorax black; abdomen brown, pale below, yellowish toward the tip; setæ dark brown; legs dull brown, darker at tips of the joints and on the tarsi; wings grayish hyaline, venation brown. Thorax but little narrowed behind, angles acute, rugosities not very strong. Wings rather long, radial sector forked two or three times beyond the anastomosis, the first some distance out from the cross-vein. Ventral plate of female reaches scarcely one-half way across the next segment, and is rather deeply emarginate in the middle; the last segment of the male shows a raised, rather transverse white spot, slightly angulate in front.

Length, 32 mm.

Sixteen specimens from Black Mountains, North Carolina, June (Beutenmüller), representing both sexes.

***Panorpodes carolinensis*, sp. nov.**

Pale yellowish; a little black around the ocelli; antennæ black, except joints one and two; legs without dark marks; abdomen dark above on basal two-thirds; tip of the claws of genitalia dark; wings flavescent, with yellowish longitudinal veins and white cross-veins. Face short, triangular, a stout tooth below each eye, extending from the cheek; wings rather narrow, the subcosta runs into the pterostigma; abdomen slender, segments not modified, except the last, which is similar to that of *Panorpa*. The prothorax has four long black bristles above, and there are two on each side of the mesothorax.

Length, 16-18 mm.

Seven males from Black Mountains, North Carolina (Beutenmüller). Agrees with *P. oregonensis* McLach., in many particulars, but has darker antennæ, and the terminal abdominal segment has longer claws, each with a strong basal tooth, and the median piece that projects below, when seen from the side, is shorter, and has a concave upper edge. All the specimens are alike.

**Panorpa carolinensis**, sp. nov.

Head yellowish, black around ocelli; antennæ brown; thorax brownish yellow; abdomen and legs yellowish. Wings hyaline whitish, with black bands and spots as follows: an apical band, a broad pterostigmatal band, nearly touching the apical at each margin, and with a pale spot on the posterior border, where the band is broader than elsewhere, a large triangular costal spot near middle of wing, and extending almost half-way across it; a broad (not geniculate) sub-basal band, and a costal and anal spot black; venation dark. Wings slender, the subcosta reaches pterostigma in fore wings; in the male the 5th segment has a distinct horn above.

Length, 15 mm.

Five specimens from Black Mountains, North Carolina (Beutenmüller), of both sexes. In one specimen, rather larger than the others, the apical branch of the pterostigmatal band is cut off from the main part of the band. Probably nearest to *P. rufa*, but the wings are less elongate, and membrane not yellowish, nor venation pale in pale areas; the bands are broader, and not geniculate as in that species.

**Gœra fuscula**, sp. nov.

Maxillary palpi with golden or tawny hairs; antennæ dull black; labial palpi pale on basal part, black beyond; vertex black, golden hairs on the posterior warts; thorax black, some golden hairs form a median stripe on the mesonotum; abdomen dull black; wings uniformly clothed with blackish hairs, venation darker; legs pale brownish, the posterior tibiæ and tarsi paler. Ventral comb of two rather long median teeth, and three each side much smaller. The female resembles the male, but rather larger; the ventral plate is trilobate.

Expanse, 22-24 mm.

Four specimens from Black Mountains, North Carolina, 21 May (Beutenmüller).

**Notiopsyche latipennis**, sp. nov.

Face gray, with short gray hair; vertex darker, with longer yellowish gray hair; basal joint of antennæ clothed inside with black hairs, longer below; elsewhere with gray hair, rest of antennæ pale, annulate with black, and below with short, erect bristles; prothorax with gray hair above, rest of thorax yellowish; abdomen brown, tip and genitalia yellow; legs pale yellow; wings gray, with yellow-gray hairs, sparse and appressed; along costal margin are longer, darker hairs, pointing back over costal region; venation pale brown; hind wings grayish, venation darker, some scattered yellowish-gray hair on membrane.

Expanse, 20 mm.

One male from Black Mountains, North Carolina, June (Beutenmüller).

***Atomyia modesta*, sp. nov.**

Maxillary palpi dark gray, labial palpi blackish; basal joint of antennæ black, beyond pale, narrowly annulate with dark; head black, gray hairs in front, yellowish above from the warts; thorax brown, yellowish tufts at base of fore wings; abdomen dark brown above, yellowish beneath; legs pale yellowish. Wings gray, sparsely clothed with blackish hairs; venation mostly yellow-brown, fringes dark gray, rather long, especially so on the posterior margins. Preapical pair of spurs on hind tibiæ once and one-half their length before tip; preapical pair of middle tibiæ about twice their length before tip, and nearly as close to base.

Expanse, 14 mm.

Many specimens from Black Mountains, North Carolina, May and June (Beutenmüller).

***Arctopsyche irrorata*, sp. nov.**

Head dull dark brown, with some yellowish hair; palpi yellowish; antennæ clear yellowish, basal joint brown; thorax and abdomen brown, pleura yellowish; legs pale yellowish, the tibiæ and tarsi very pale. Wings brown, densely irrorate with yellow, mostly in form of rounded spots, about a dozen of these along the costal region, the brown sometimes forming bands; hind wings gray. Fore wings rather long, the radial sector connected to radius beyond the discal cell, fork 1 with a pedicel one-half its length, fork 3 with a pedicel one-third its length, forks 4 and 5 of about equal length.

Length, 17 mm.

One specimen from Black Mountains, North Carolina, June (Beutenmüller).

***Polycentropus carolinensis*, sp. nov.**

Head densely clothed with yellowish gray hair in front, and blackish behind; palpi pale; antennæ yellowish, very strongly crenate within; prothorax with yellowish hair; rest of thorax and abdomen brown, former with some yellowish hair; legs pale yellowish, tarsi rather darker. Wings uniformly clothed with jet black hair, and with about twenty small snow-white spots, several arranged in an irregular broken band across wing near middle, two at the pterostigma, one or two at posterior apical angle, one at arculus, and two or three on apical margin, those in basal part of wing indistinct; a tuft of erect black hair at base of fore wings; posterior wings blackish, with darker venation; discal cell slender, as long as its pedicel; fork 1 not as long as its pedicel, fork 3 longer than its pedicel, fork 4 reaching basad of fork 3, but with a long pedicel; fork 5 reaching much farther toward base.

Length, 7 mm.

One specimen from Black Mountains, North Carolina (Beutenmüller).

***Plectrocnemia auriceps*, sp. nov.**

Head with much golden hair; palpi yellowish brown; basal joint of antennæ yellowish, beyond dark brown, strongly crenate within; prothorax yellow, with golden hair, and golden tufts on the mesothorax in front; thorax and abdomen brown, margins of abdominal segments narrowly yellowish; legs yellow, hind tibiæ brown. Wings brown, densely marked with patches of golden yellow hair between the veins, which are brown; a larger spot at the arculus; fringe golden, interrupted with brown at the tips of the veins; discal cell not one-half as long as its pedicel, fork 1 not pedicellate, fork 3 with a pedicel not one-half its length; hind wings blackish.

Length, 14 mm.

One male from Black Mountains, North Carolina, June (Beutenmüller).