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## NEW ASILIDÆ FROM CHINA (DIPTERA)

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A collection of Diptera from China, most of them from Yen-ping, received by the American Museum from Mr. R. H. Caldwell, contained a fine series of Asilidæ, among which were found the new species described in the present paper. The types are in The American Museum of Natural History.

### *Microstylum vulcan*, new species

Length, 33 to 42 mm. A large deep-black species with dark brown wings having a metallic greenish lustre. The last three abdominal segments are red, the legs are black, the mystax black and the beard yellow. Related to *M. oberthürri* v. d. Wulp.

MALE.—Proboscis, mystax, palpi, palpal hairs, antennæ (first two segments; the rest missing), occipital bristles and bristles of vertex, black. Beard yellow. Thorax black, evidently grayish pollinose in fresh specimens. In the present specimen this is obscured for the most part by grease. Bristles and fine hairs of mesonotum black. Scutellum with black hairs and black marginal bristles. Legs black with black bristles and hairs. The middle tibiæ have at the apex on the under side a small projection which bears three or four short, stout spines. Front coxæ and propleura with yellow hairs, the front coxæ with black bristles intermingled. Pronotum with black bristles. Wings dark brown with metallic-green lustre. Abdomen black, venter with black hairs; fourth segment slightly reddish, the fifth to seventh deep red. Genitalia red with reddish hairs and a few blackish hairs.

FEMALE.—Similar, but the abdomen is thickly clothed with reddish hairs, the fifth to seventh segments are red contrasting strikingly with the first four which, however, appear somewhat reddish at the sides. There is a thick tuft of red hairs in front of the scutellum. All the coxæ have yellow hair and the hairs of the pleura are yellow. Spines of the ovipositor deep red, almost black.

Holotype: male, Yen-ping, China, August 8, 1917. Allotype and paratype: female, same locality and date.

### *Asilus mandarinus*, new species

Length, 21 to 25 mm. A large yellowish species with yellowish-red legs and a few pale-yellow bristles on the posterior lateral margins of the abdominal segments. The wings are faintly tinged with yellowish, but grayish at the tip and along the posterior margin. The mesonotum bears a broad contrasting black median stripe and three dark lateral spots on each side.

MALE.—Eyes large, face narrow, covered with a pale yellowish-white pruinosity; facial gibbosity of medium size, but restricted to the area immediately above the oral margin. The mystax is composed of white hairs rather thickly covering the facial gibbosity but not extending to the base of the antennæ. Antennæ yellow, the arista black; antennal bristles yellowish, except a few on the upper side of the second segment which are black. Proboscis and palpi black, palpal hairs white. Beard white. Occiput pale yellowish-white pruinose; occipital bristles pale yellow. Thorax light yellowish-pruinose; all hairs of pleura pale yellowish-white; coxal hairs slightly darker. Pronotum black; mesonotum with a broad median black line bisected by a very narrow yellowish line which disappears anteriorly; three distinct black lateral spots on each side. Anterior portion of the mesonotum with short black hairs, posterior portion with long scattered yellow bristles. Scutellum light yellowish-brown pollinose with fine pale yellow hairs on disc and margin and with two long yellow bristles on the margin. Legs light yellowish-red, the dorsal portions of the femora very slightly darker; pulvilli pale yellow, claws black; anterior legs with scattered long yellow bristles, occurring most thickly on the underside of the femur and tibia; tarsi with yellow bristles and some black bristles below, the terminal joint slightly darker than the others. The median legs have the extreme tips of the femora black, a few yellow bristles on the underside of the femora and tibia, otherwise like the first pair. The posterior legs have the tips of the femora black, also, and the three distal joints of the tarsi are dark, the ultimate segment being black. All the femora are covered with minute black hairs. The wings are long and broad, nearly hyaline, but suffused with a pale yellowish tint, the apex and posterior borders gray. Halteres yellow. Abdomen dark brown with yellowish lateral and posterior margins to the segments. Genitalia shining black with yellow bristles, the forceps with two long slender processes on the upper apex, the anterior process being quite as long as the forceps themselves.

FEMALE.—Similar, the tarsi darker. The ovipositor short, conical, shining black; the cerci free.

Holotype: male, July 24, 1917. Allotype: female, June 28, 1917. Paratypes: male, June 26, 1917, two females, Aug. 14, and Sept. 1, 1917. All from Yen-ping, China.

#### *Asilus yenpingensis*, new species

Length, 15 to 18 mm. Resembles *mandarinus* but is smaller, paler yellow, the third joint of the antenna is darker than the first two segments, both of which bear black bristles, and the genitalia are different. The median thoracic line is undivided and the scutellar bristles are black.

MALE.—Antennæ pale yellow, the third joint and arista darker, the first two segments with black bristles. Face yellowish pruinose. Mystax, beard and palpal hairs white, the occipital bristles dark brown. Palpi black. Thorax and legs yellow, the tips of the posterior femora and of all the tarsal segments blackish. Pleura and coxæ with pale yellow hairs. Mesonotum with black median line and two lateral black spots on each side, the hairs and bristles black. Scutellum yellow with fine black hairs on the disc and two black bristles on the margin. Wings hyaline, the apex and posterior borders gray. Halteres yellow. Abdomen yellow with yellow hairs and bristles. The base of the second tergite has a black area and the median portions of the following segments have brownish areas. Genitalia shining black with scattered long yellow and short black hairs, the forceps furcate with the prongs curved inward.

FEMALE.—Similar, the ovipositor short, conical, black with black hairs; the cerci free, light brownish.

Holotype: male, April 20, 1920. Allotype: female, April 6, 1920. Paratypes: male, May 20, 1920; five females, June 12, 1920 and May 31, 1920. All from Yen-ping, China.

***Asilus (Tolmerus) aurimystax*, new species**

Length, 18 to 20 mm. A blackish species with black legs, golden mystax (some black hairs in upper part), palpi with black hairs, scutellum with black hairs and bristles; genitalia rather long and narrow, the tops of the forceps slightly curved down.

MALE.—Head, including antennæ, proboscis, palpi, etc., black. Facial gibbosity rather prominent; face golden pruinose; mystax golden with some black hairs above. Beard pale yellow. Palpal hairs black. Antennal, vertical, and occipital bristles black. Pronotum with black bristles. Thorax black, yellowish-gray pollinose, with the usual black median line and lateral spots on mesonotum. Hairs and bristles of mesonotum and scutellum black; pleural and coxal hairs pale yellow. Legs black with bristles and most of hairs black; some pale hairs on front and median legs and the underside of the distal portion of the anterior and posterior tibiæ and tarsi is covered thickly with minute ferruginous hairs. Wings nearly hyaline with apex and interior of cells along posterior border gray. Halteres yellowish brown. Abdomen black, the lateral and the posterior margins narrowly yellowish-gray pollinose. Hairs and bristles of sides pale yellow; the fine hairs above, black. Genitalia shining black with black hairs, rather long (as long as the sixth to eighth tergites together), slender and pointed from dorsal view; from the side, the tips are slightly curved downwards. The eighth sternite is narrowly prolonged posteriorly and the process is covered with a thick tuft of black hair.

FEMALE.—Similar, ovipositor black, laterally compressed, slightly longer than segments six and seven.

Holotype: male, Aug. 10, 1917. Allotype: female, June 23, 1917. Paratype: female, Aug. 17, 1917. All from Yen-ping, China.

***Dysmachus tolmeroides*, new species**

Length, 22 mm. This species resembles the preceding very closely, but the lamella of the oviduct is wedged in. There are no bristles on the lamella, thus indicating classification with the *Eutolmus* group. It is a black species, yellowish-gray pollinose, with black legs and mystax.

FEMALE.—Facial gibbosity prominent, the antennæ (third segment lost), proboscis, palpi, palpal hairs, mystax, antennal bristles, bristles of vertex and of the occiput black. Beard pale yellow. A very few pale bristles in the mystax. Thorax yellowish-gray pollinose, with the usual black markings on the mesonotum. Hairs and bristles of mesonotum and scutellum black. Coxal hairs yellow; pleural hairs pale yellow. Legs black with black hairs and bristles; a few pale hairs on femora; anterior and posterior tibiæ and tarsi with the underside thickly covered with minute ferruginous hairs. Wings hyaline with apex and interior of cells of posterior border gray. Halteres yellowish. Abdomen greased but apparently yellow-gray pollinose. The hairs and bristles along the sides are yellowish, the dorsal hairs black. The ovipositor is shining black, laterally compressed, longer than segments six and seven combined, the lamella wedged in.

Holotype: female, Yen-ping, China, July 6, 1917.

