TABLE OF THE NORTH AMERICAN SPECIES OF MEDIATEUS, WITH DESCRIPTIONS OF THREE NEW FORMS.

By M. C. Van Duzee,
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Medeterus longinervis, new species.

Male; 2-2.2 mm. Face black; front brown. Antennae black, third joint small; artista apical; lower orbital cilia whitish.

Thorax and abdomen black with green reflections; dorsum of thorax more brown with gray pollinose vitta; the posterior depression reaches the middle of the mesonotum, where the acrostichal bristles end, they are in two rows with a slight coppery vitta between them; one small black bristle above each fore coxa; scutellum with two pair of bristles, the outer pair half as long as the middle ones; hairs of abdomen and hypopygium white; hypopygial appendages brownish yellow.

Coxae black, anterior pair with pale hairs on front surface and one small black bristle at tip. Femora blackish; tibiae and tarsi yellowish brown, all their hairs white; middle tibiae with a small black bristle at basal fourth and posterior pair with one near apical fourth. Joints of hind tarsi as 17-27-14-7-6.

Wings grayish, veins brown; last section of fifth vein 28, of cross-vein 9 fiftieths of a millimeter long.

Type, male, No. 1887, Calif. Acad. Sci., Taken by Edward P. Van Duzee, June 15, 1925, at Olney, Oregon. Two para- types were taken at the same time and place and are also in the Academy collection.

Medeterus albosetosa, new species.

Male; Length 2 mm. Face and front gray with pollen, which covers the ground color. Antennæ black, the two basal joints more brown, third small, scarcely as long as wide, a little pointed in the middle; arista apical, orbital cilia whitish.
Thorax brown with gray pollen, which leaves narrow brown lines along the rows of bristles; prothorax with two large whitish bristles above each fore coxa; scutellum with two pair of large bristles. Abdomen and hypopygium black with white hair; hypopygial appendages yellowish brown.

Coxæ black, anterior pair nearly bare with black bristles at tips. Femora black with apical third yellow; tibiae and tarsi yellow, the latter scarcely darker at tip; tibiae without bristles; joints of fore tarsi as 19-17-10-5-5; of middle pair as 29-21-13-5-6; those of posterior pair as 11-31-12-8-5. Calypters, their cilia and the halteres yellow.

Wings grayish, veins yellow when seen against a dark background; last section of fifth vein 14, cross-vein 10 fiftieths of a millimeter long; venation normal.

Described from one male, taken at Galveston, Texas, in May, by F. J. Snow.

Type in the Kansas University collection.

Medeterus ciliata, new species.

Male; length 3 mm. Face and front black, rather dull, with scarcely a trace of green color. Antennæ wholly black, small; lower orbital cilia brownish yellow.

Thorax and abdomen dark green, a little shining; pollen of thorax dark gray, almost brown; scutellum with two pair of bristles; prothorax with two or three small black bristles above each fore coxa; hairs of the abdomen and legs black; hypopygium and its appendages black.

Coxæ, femora, tibiae and tarsi black, knees narrowly yellow; fore coxæ with short black hair; fore and middle femora below and posterior pair on anterior surface with long brown hair, some of these hairs being as long as width of femora. Joints of fore tarsi as 15-21-14-5-7; of middle tarsi as 33-17-10-8-5; those of posterior pair as 20-30-14-9-8. Calypters yellow with a black edge and brown cilia; knobs of halteres yellow, their stems brown.

Wings grayish, rather dark; last section of fifth vein 32, cross-vein 16 fiftieths of a millimeter long.
Described from one male taken at Niagara Falls, Ontario, July 17, 1921, by the author. Type in the author’s collection.

Table of North American species of *Medeterus*.

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11 Femora mostly yellow; mesonotum and abdomen light green. (California).......................... *longinquus* Van Duzee. Femora mostly black; mesonotum coppery; abdomen dark green, (California)..................... *aeneus* Van Duzee. Femora mostly black; mesonotum nearly opaque with gray pollen, so as to appear gray, (California).................. *falcatus* Van Duzee.

12 Bright metallic species........................................13 Darker species, usually blackish, sometimes very dark green..................................................18

13 Anterior tarsi plain..............................................14 Fore tarsi modified, ornamented...............................16

14 First joint of hind tarsi only a little shorter than the second; length over 3 mm., (Guatemala)... *planipes* Van Duzee. Posterior tarsi with the second joint twice as long as first...15

15 Legs altogether black; second joint of hind tarsi more than twice as long as first, (North America)... *nigripes* Loew. Legs wholly yellow; first and second joints of hind tarsi as 19 to 37, (Eastern).................. *aberrans* Wheeler.

16 Length 2 mm.; male with a lobe on the side of third joint of fore tarsi, (New Jersey; Ontario)..... *lobatus* Van Duzee Length 3 mm.; fore tarsi otherwise formed..................17

17 Fore tarsi a little widened from base to tip of second joint; third joint only a little narrowed at base, but suddenly narrowed to a slender projection, to which the fourth joint is attached; fourth and fifth joints slender, (Guatemala).................. *abruptus* Van Duzee. Fore tarsi with the second and third joints very much compressed and expanded on upper edge; fourth and fifth joints minute, (Guatemala).... *flavipes* Van Duzee

18 Bristles above fore coxae black. .........................19 Bristles above fore coxae pale, white or yellowish. ....41

19 Second joint of hind tarsi more than twice as long as first.20 Second joint of fore tarsi twice or less than twice as long as first.............................................21

20 Legs altogether black, (North America)... *nigripes* Loew. Tibiae largely yellow, (Eastern).................. *vittatus* Van Duzee.
Antennæ wholly black. ........................................ 22
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first. ................................................................. 25
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long as first. .......................................................... 26
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Last section of fifth vein twice as long as the cross-vein,
(Ontario). ......................................................... ciliata Van Duzee, new species.
Second joint of hind tarsi nearly one and three-fourths times
as long as first, (Alaska). ................................. bicolor Van Duzee.
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long as first, (Alaska). ........................................ parvus Van Duzee.
Thorax with distinct gray vittæ. ................................. 31
Thorax without distinct vittæ. ...................................... 33
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Last section of fifth vein one and a half times as long as the
cross-vein, (Washington; Alaska). ........... viduus Wheeler...
Last section of fifth vein scarcely longer than the cross-vein, (Washington; Alaska). female of... *viduus* Wheeler.

33 Mesonotum with thick brown pollen. .......................... 34
Mesonotum with thin grayish pollen... .......................... 36

34 Fore coxae almost bare, except a few black bristles at tip; large species, (Ontario; New York)... .......................... *emarginatus* Van Duzee.

Fore coxae with a row of hairs or bristles on outer anterior edge. .......................... 35

35 Hypopygial lamellae black, (Alaska) *viridifacies* Van Duzee.
Hypopygial lamellae yellow, (Alberta) *trisetosus* Van Duzee.

36 Last section of fifth vein one and a half times long as the cross vein. .......................... 37
Last section of fifth vein not but little longer then the cross vein. .......................... 40

37 Cilia of the calypters black, (Illinois)... *coerulescens* Malloch.
Cilia of the calypters pale. .......................... 38

38 Fore coxae with black hair, (New Hampshire)... .......................... *maurus* Wheeler.

Fore coxae with pale hairs. .......................... 39

39 Middle femora with yellowish bristles below; second joint of hind tarsi one and three fourths times as long as the first, (Alaska). .......................... *bicolor* Van Duzee.
Middle femora without yellowish bristles below; second joint of hind tarsi one and a third times as long as first, (Alaska).

40 Hypopygial lamellae black; second joint of hind tarsi one and three-fourths times as long as first; last section of fifth vein in male three fourths, in female a little more than the length of the cross-vein, (Oregon)... .......................... *oregonensis* Van Duzee.
Hypopygial lamellae yellowish; second joint of hind tarsi one and a half times as long as first; last section of fifth vein and the cross-vein of nearly equal length, (Alberta). male of... .......................... *trisetosus* Van Duzee.

41 Abdomen blue. .......................... 42
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Legs and feet black; knobs of halteres infuscated, (New Jersey). *modestus* Van Duzee.

Tips of femora, tibiae, base of tarsi and knobs of halteres yellow. .......................................................... 48

Tips of third and fourth veins close together, as is typical of the genus; rather large species, (California) *californiensis* Wheeler.


Abdomen and pleuræ black; face opaque with brown pollen; thoracic vittæ very distinct; tips of third and fourth veins rather far apart, (North America). *veles* Loew.

Abdomen, pleuræ and face distinctly green; thoracic vittæ less distinct; tips of third and fourth veins close together as usual in the genus, (New York; New Jersey; Alaska). *distinctus* Van Duzee.

Legs yellow; cross-vein with a stump vein at its center, (Wyoming). *appendiculatus* Wheeler.

Legs black, at least the femora largely black; cross-vein normal, without a stump vein. .................................. 51
Knobs of halteres infuscated, at least on one side, (New Jersey) .................. modestus Van Duzee.

Knobs of halteres yellow. ................................. 52

Last section of fifth vein only half as long as the cross-vein, (California) .................. xerophilus Wheeler.

Last section of fifth vein a little longer than the cross-vein, (specimens in which the thoracic vittæ are obsolete), (North America) .................. veles Loew.

Last section of fifth vein twice as long as the cross-vein, (New York; New Jersey; Alaska) . . distinctus Van Duzee

Posterior cross-vein with a stump vein near its center, (California) .................. xerophilus Wheeler.

Cross-vein normal, without a stump vein. .......................... 54

Posterior basitarsus narrowed at base below and with a small tooth on this narrowed portion. .................. 55

Posterior basitarsus without a tooth below, not narrowed at base. .............................. 56

Small species, 2 mm.; third and fourth veins rather far apart at their tips for the genus, (North America) . . . . . . . . veles Loew.

Larger species; 3 mm. or over; third and fourth veins with their tips close together as usual in the genus, (California) . . . . . . . . Californiensis Wheeler.

Last section of fifth vein only half as long as the cross-vein, (California) .................. xerophilus Wheeler.

Last section of fifth vein longer than the cross-vein, or equal to it in length. .............................. 57

Last section of fifth vein and the cross-vein of nearly equal length; knobs of halteres more or less infuscated, (New Jersey) .................. modestus Van Duzee...

Last section of fifth vein much longer than the cross-vein. 58

Length of last section of fifth vein to cross-vein as 14 to 10, (Texas) .................. albisetosa Van Duzee, new species....

Last section of fifth vein twice as long as the cross-vein, (New York; New Jersey; Alaska) . . distinctus Van Duzee
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