

FORMULÁRIO DE ENCAMINHAMENTO - PERIÓDICO



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No. 6

NEW GENERA AND SPECIES OF MYCETOPHILIDAE (DIPTERA) FROM THE HOLARCTIC REGION, WITH NOTES ON OTHER SPECIES

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Abstract

Can. Ent. 112: 529-544 (1980)

Eight new genera, seven Nearctic and one Holarctic, are described in the subfamily Sciophilinae. These genera, and their type-species, are: Loicia (L. basifurca n. sp.), Acadia (A. polypori n. sp.), Acomoptera (Eudicrana plexipus Garrett), Adicroneura (A. biocellata n. sp.), Aglaomyia (A. gatineau n. sp.), Drepanocerus (D. ensifer n. sp.), Garrettella (Leia shermani Garrett), Saigusaia (Boletina cincta Johannsen). Sixteen other new combinations and two new synonyms, mostly for species described by Garrett and Sherman, are proposed.

Résumé

Nous décrivons huit nouveau genres, sept néarctiques et un holarctique, appartenant à la sous-famille des Sciophilinae. Ces genres et leur espèces types sont: Loicia (L. basifurca esp. nouv.), Acadia (A. polypori esp. nouv.), Acomoptera (Eudicrana plexipus Garrett), Adicroneura (A. biocellata esp. nouv.), Aglaomyia (A. gatineau esp. nouv.), Drepanocercus (D. ensifer esp. nouv.), Garrettella (Leia shermani Garrett), Saigusaia (Boletina cincta Johannsen). Nous proposons seize nouvelles combinaisons et deux nouveaux synonymes, dont la plupart des espèces furent décrites par Garrett et Sherman.

Eight new genera of Mycetophilidae are described here so they may be included in a manual of genera of Nearctic Diptera now in preparation. One genus, *Saigusaia*, occurs in eastern North America and eastern Asia; the other seven genera are known only from North America.

All eight genera are referrable to the subfamily Sciophilinae. If the current definitions of the tribes of this subfamily are adopted the genera would probably be assigned as follows: Sciophilini: Loicia; Gnoristini: Acadia, Acomoptera, Adicroneura, Aglaomyia, Drepanocercus, Saigusaia; Tetragoneurini (syn. Leiini): Garrettella. However, Acomoptera, without wing macrotrichia, is similar in several characters to Paratinia Mik of the Sciophilini, and may be closely related to that genus. Other genera, not treated here, indicate that the distinction between Gnoristini and Tetragoneurini is uncertain and probably artificial. A reclassification of the Sciophilinae would be desirable but is beyond the scope of this paper. I think certain characters, previously overlooked or little used, might be useful in such a study. Some of these are the presence or absence of hairs between the ocelli and antennal bases, the development and hairing of the face, the presence or absence of hairs on the mediotergite, the presence or absence of a hair or hairs on the metanotum medial to the base of the halter, the distribution of hairs on the hind coxa, the presence or absence of fold-lines on the sternites, and in the male, the relative development of the sclerites of abdominal segments 7 and 8 and the distribution of hairs on segment 8.

All the genera described below have the flagellum slender, slightly tapering, and with short fine hairs, and with 14 flagellomeres (if the antennae are unbroken). All have the legs without striking modifications such as sensory areas or spurs. All except Adicroneura have the flattened area at the apex of the anterior surface of



the fore tibia subtriangular and about as long as wide; in Adicroneura no flattened at most a poorly developed posterior comb at the the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the following tibia subtriangular and about as long at the following and long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia subtriangular and about as long at the fore tibia the fore tibia subtance at most a poorly at the fore tibia subtance at most a poorly at the fore tibia subtance at most a poorly at the fore tibia apparent. All have at most a poorly at the length of each tibia apex, in the following order: spur of the hind tibia. area is apparent. The tibial spur formula apex, in the following order: spur of the hind tibia. The tibial spur of the tibial apex, in the following order: spur of divided by the maximum width of the tibia, posterior spur of mid tibia; anterior spur of mid tibia; anterior spur of mid tibia; anterior spur of mid tibia. of the find the maximum width of the divided by divided by the libra, posterior spur of mid tibia, posterior anterior spur of mid tibia. The presence or absence of a sensory structure hind tibia, posterior spur of hind tibia, posterio hind tibia, posterior spur of finite detail.

In a macerated palpus has been examined, on palpomere 3 is mentioned only if a macerated palpus has been examined.

Loicia new genus

Figs. 1,9

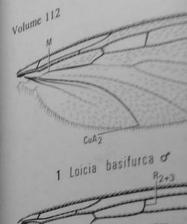
Type-species: Loicia basifurca new species.

Type-species. But defend the species of the species Male only. Length 4.4 lilli. Gets own diameter and from eye margin by a from median ocellus by about twice its own diameter and from eye margin by a from median occilius by about the with broad and rather deep emargination above little less than its diameter. Eye with broad and rather deep emargination above little less than its diameter. By all the less than antennal base, with very short scale and antennal bases. Face narrow, bare, weakly sclerotized; clypeus large, strong, broadened bases. Face narrow, bare, with five palpomeres, their relative large. bases. Face narrow, bale, weather below, with strong hairs. Palpus with five palpomeres, their relative lengths 1:1:2:4:5 palpomere 3 without discernible sensory area. Antenna with flagellomere 1 about palpomere 3 without disconnect 8 about 4.9 times as long as wide (flagellomeres beyond 8th missing).

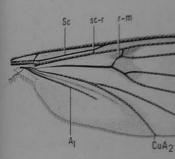
Scutum with very short acrostichal hairs, with longer and stronger dorsocentral and sublateral hairs, the intervening areas bare. Scutellum with a single transverse row of short hairs (perhaps longer hairs abraded). Mediotergite and laterotergite bare. Metanotum with one short strong hair medial to base of halter. Mesopleuron, metapleuron, and prosternum bare. Wing (Fig. 1) unmarked, with dense microtrichia, with rather long but sparse macrotrichia. CuA1 arising from M near base of wing Crossvein r-m, and all longitudinal veins except R2+3, first section of M, and Cup. with strong setae above; the same veins, except CuA1 and CuA2, with at least a few setae below. Hind coxa with a vertical row of a few rather long stiff hairs, near apex with a few short to long hairs in front of this row. Tibial bristles rather abundant, weak but distinct, the longest a little shorter than tibial diameter. Tibial spur formula 1.0; 1.3, 1.5; 1.8, 1.9. Tarsal claws each with a small ventral tooth Empodia very small.

Sternite 1 not visible. Sternites 5 and 6 with broad indistinct sublateral foldlines, sternites 7 and 8 without fold-lines. Segment 7 only slightly shorter than segment 6. Terminalia (B) sternites 5 and 6 with broad indistinct substances that segment 6. Terminalia (B) sternites 5 and 6 with broad indistinct substances that segment 6 the segment 6 than the segment 6 than the segment 6 than the segment 7 only slightly shorter than segment 6 than the s segment 6. Terminalia (Fig. 10): Tergite 8 just over 1/2 as long as tergite 7; sternite 8 about 4/5 as long as tergite 7; sternite 8 about 4/5 as long as sternite 7, both extensively haired. Tergite 9 and proctiged accidentally lost Sternite 2 for the extensively haired. accidentally lost. Sternite 9 fused with gonocoxites, the synsclerite with a median v-shaped emargination of the synsclerite with a median short narrow V-shaped emargination, the anterior end of the emargination with a short narrow apically notched process are anterior end of the emargination with a short narrow of the emargination. apically notched process projecting anteroventrad; on either side of the emargination the synsclerite with an obline synsclerite with synsclerite synsclerite with synsclerite synscler the synsclerite with an oblique concave area produced into three blunt points. Gonostylus with an oblique concave area produced into three blunt por a bare, rather heavily sclerotized, subtriangular, medially directed lobe and a bare, rather heavily sclerotized. a bare, rather heavily sclerotized, compressed, slightly curved ventral process tapering and paramere with a process taper Aedeagus and paramere with a nearly flat dorsal surface, with a moderately broad tapering median process and two of the surface, with a moderately process and two of the surface, with a moderately process and two of the surface, with a moderately process and two of the surface, with a moderately process and two of the surface, with a moderately process and two of the surface, with a moderately process. tapering median process and two slender anterolateral arms, in lateral view as in

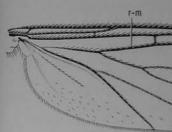
Loicia is apparently closely related to Paratinia Mik which it resembles in eye, antennal structure, and thereof the branching of the branchin shape, antennal structure, and thoracic hairing and, except for the branching a bare law venation. These are the CuA₁, in wing venation. These are the only two Nearctic genera of Sciophilini with mediotergite, and only the control of the branching and thoracic hairing and, except for the branching a bare laterotergite, and only the control of the control a bare laterotergite, and only these two, plus Syntemna Winnertz, have a bare laterotergite. In Loicia the palpus is mediotergite, and only these two, plus Syntemna Winnertz, have a mediotergite. In Loicia the palpus is more than twice as long as flagellomere



3 Acomoptera plexipus



5 Aglaomyia gatineau 9



7 Garrettella shermani 🗸

Figs. 1-8. Wings. 1, Loicia bas (Garrett); 4, Adicroneura biocella n. sp.; 7, Garrettell

CuA₁ arises from M near th bristles, and the tarsal claw palpus is shorter than flagel of the palpomeres are 1:2:4 the wing, the tibiae lack brisi

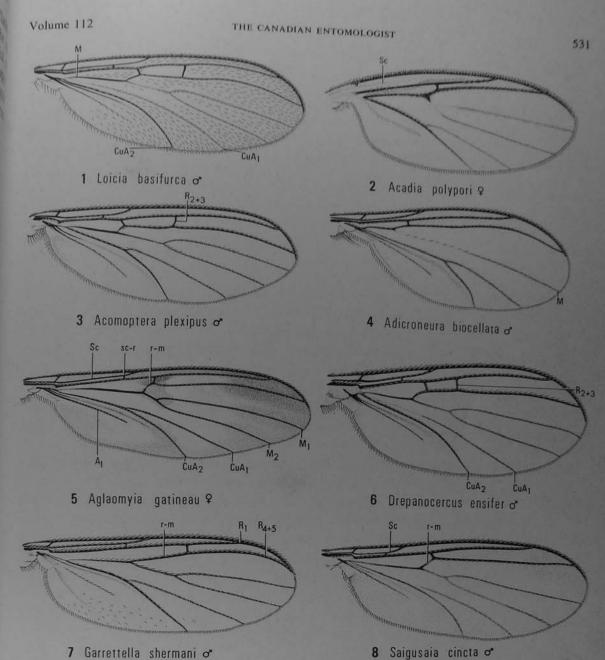
Yellow-brown, subshinii thinly pollinose; hairs yellow HOLOTYPE. &, Mt. Thor (B. Heming). Type No. 1605 the length of each ib the following order absence of a sensory sensory

er and from eye mage ther deep emarginate re between ocelli and eus large, strong, but their relative lengths in a with flagellomer latimes as long as widen

Mediotergite and later of base of halter. Mesque arked, with dense microarked, with dense microarked, with sestion of M, and and CuA2, with at less we rather long stiff him his row. Tibial brish ter than tibial diameter ach with a small vental

nt 7 only slightly shall haired. Tergite 9 and 1/2 as long as tergite, the synsclerite with a small argination with a shall haired into three blue duced i

a Mik which it resemble to the house of science of science arctic genera of Winner I. A. Winner I. Winner I. A. Winner I.



Figs. 1-8. Wings. 1, Loicia basifurca n. sp.; 2, Acadia polypori n. sp.; 3, Acomoptera plexipus (Garrett); 4, Adicroneura biocellata n. sp.; 5, Aglaomyia gatineau n. sp.; 6, Drepanocercus ensifer n. sp.; 7, Garrettella shermani (Garrett); 8, Saigusaia cincta (Johannsen).

CuA₁ arises from M near the base of the wing, the tibiae have short but distinct bristles, and the tarsal claws each have a distinct ventral tooth. In *Paratinia* the palpus is shorter than flagellomere 1 (in *P. recurva* Johannsen the relative lengths of the palpomeres are 1:2:4:4:6), CuA₁ arises from CuA well beyond the base of the wing, the tibiae lack bristles, and the tarsal claws are untoothed.

Loicia basifurca new species

Figs. 1,9

Yellow-brown, subshining; front grey-brown, pollinose; antenna brown; scutum thinly pollinose; hairs yellow to yellow-brown.

HOLOTYPE. &, Mt. Thornhill, nr. Terrace, British Columbia, 1500', 26.VII.1960 (B. Heming). Type No. 16050, CNC, Ottawa.

Fig. 9. Male terminalia of Loicia basifurca n. sp. a, terminalia, dorsal (tergite 9 lost); b, terminalia, ventral; c, gonostylus, posterior; d, aedeagus and parameres, lateral.

Loicia basifurca o

Acadia new genus

Fig. 2

Type-species: Acadia polypori new species.

Length 2.1 mm. Ocelli three, subequal, lateral ocellus touching eye margin, rated from median ocellus to separated from median ocellus by about twice diameter of latter. Eye very slightly emarginate above base of anteremarginate above base of antenna, with dense long hairs. Frons with about 10 short strong hairs between ocelli and strong hairs between ocelli and antennal bases. Face with weak hairs; clypeus haired not longer than face. Palnus with a bases. Face with weak hairs; clypeus haired natural bases. not longer than face. Palpus with five palpomeres, their relative lengths 1:1:3:5.1.

Anterior 3 with large shallow. palpomere 3 with large shallow sensory pit on basal half of dorsomedian surface. Planello as long as thorat. Antenna of male about 1.4 times, that of female about 1.3 times, as long as thoracter of the support of the sup flagellomere 1 about 1.4 times, that of female about 1.3 times, as long as slightly shorter.

Scutum with dense subappress and supraalar areas a little longer and supragia and weaker hairs and two shorts with many short the bare; lateroterer bare. Wing (Fig. and prosternum oate, R₄₊₅, crossy, macrotrichia, R, R₁, R₄₊₅, CuA, CuA₁, setae above; M₁, M₂, CuA, R₄₊₅₁ and crossvein r-m with set thickened towards apex, fore tibia strong bristles, the longest a little 2.4; 2.0, 3.2; 2.0, 3.0. Tarsal class Sternite 1 bare. Sternites w

clockwise through 180°C, the rota as segment 6; tergite 7 with a po a similar but less distinct projection Segment 8 as long as segment 7 margin; tergite 8 deeply excavate except at extreme base, slender, to subquadrate and bare, the apical p strong hairs, tapering to a trunca comb of depressed and closely-p not weaker medially, the synscle strong and bristle-like. Synscleri each process bifid; the inner lobe to an acute apex and with a s posteroventrally, broader, depress on ventrolateral part of synsclerit blunt and with a short stout apic lobe, rather slender, with apical a blunt ventral tooth at 2/3 its sclerotized, indistinct. Cercus v

enlarged and with several hairs. H Female with tergite 7 about sternite 6. Tergite 8 slightly in laterally as long as tergite 7. St tergite 8, bare, convex below, b posteriorly to a bluntly rounded a in lateral view, about three time well sclerotized, anterior margin branous except for narrow lateral of tergite 9 and not projecting be part very weak. Sternite 10 not ap about twice as long as its greates

upcurved apex, with two setae on Acadia differs from all Hol Speolepia Edwards, in having Sc differs from Acadia in its slender R₂₊₃, in the sparsely haired scutu the fore and mid tibia (subequal to





orsal (tergite 9 lost); b, tems arameres, lateral.

cellus touching eye me r of latter. Eye very S. Frons with about 108 h weak hairs; clypeus has eir relative lengths half of dorsomedian such 1.3 times, as long as times ng flagellomeres successi

Scutum with dense subappressed hairs on entire surface, those in dorsocentral and supraalar areas a little longer and more erect. Scutellum with two very strong and two shorter and weaker hairs and with scattered very short hairs. Mediotergite bare; laterotergite with many short hairs on posterior half. Mesopleuron, metapleuron, and prosternum bare. Wing (Fig. 2) unmarked, with dense microtrichia, without macrotrichia. R, R₁, R₄₊₅, crossvein r-m, and first section of M with dense long setae above; M₁, M₂, CuA, CuA₁, CuA₂, and A₁ with shorter setae above; R, R₁, R_{4+5} , and crossvein r-m with setae below. Femora rather stout, tibiae gradually thickened towards apex, fore tibia slightly shorter than fore femur. Tibiae with rather strong bristles, the longest a little longer than tibial diameter. Tibial spur formula 2.4; 2.0, 3.2; 2.0, 3.0. Tarsal claws each with strong ventral tooth. Empodia small.

Sternite 1 bare. Sternites without fold-lines. Male with segment 9 rotated clockwise through 180°C, the rotation beginning with segment 7. Segment 7 as long as segment 6; tergite 7 with a posteromedian triangular projection, sternite 7 with a similar but less distinct projection, both sclerites haired only near posterior margin. Segment 8 as long as segment 7, retracted, the sclerites haired only on posterior margin; tergite 8 deeply excavated posteriorly, very short medially. Tergite 9 free except at extreme base, slender, transversely divided at 1/3 its length, the basal part subquadrate and bare, the apical part 21/2 times as long as broad, with weak to very strong hairs, tapering to a truncate apex which bears a dense downwardly directed comb of depressed and closely-placed setulae. Sternite 9 fused with gonocoxites, not weaker medially, the synsclerite haired except near base, the hairs near apex strong and bristle-like. Synsclerite with a pair of submedian posterior processes, each process bifid; the inner lobe directed posteriorly, compressed, slender, tapering to an acute apex and with a short dark lateral tooth; the outer lobe directed posteroventrally, broader, depressed, obliquely truncate apically. Gonostylus inserted on ventrolateral part of synsclerite, bilobed, sparsely haired; inner lobe short, stout, blunt and with a short stout apical spine; outer lobe about twice as long as inner lobe, rather slender, with apical half dark, tapering slightly toward apex and with a blunt ventral tooth at 2/3 its length. Aedeagus and parameres very weakly sclerotized, indistinct. Cercus weak, long, basal half very slender, apical half enlarged and with several hairs. Hypoproct apparently absent.

Female with tergite 7 about 2/3 as long as tergite 6, sternite 7 as long as sternite 6. Tergite 8 slightly inflated, medially about 1/5 as long as tergite 7, laterally as long as tergite 7. Sternite 8 about twice as long as lateral margin of tergite 8, bare, convex below, broadly and deeply emarginate anteriorly, tapering posteriorly to a bluntly rounded apex, without posterolateral lobes. Tergite 9 oblique in lateral view, about three times as long laterally as medially. Sternite 9 in part well sclerotized, anterior margin with sublateral emarginations, posterior half membranous except for narrow lateral margins. Tergite 10 lying in median emargination of tergite 9 and not projecting beyond it, the anterior end acute, the posteromedian part very weak. Sternite 10 not apparent. Cercus unsegmented, strongly compressed, about twice as long as its greatest width, tapering to a bluntly rounded and slightly

upcurved apex, with two setae on lateral surface.

Acadia differs from all Holarctic genera referrable to the Gnoristini, except Speolepta Edwards, in having Sc ending free rather than in C, R, or R₁. Speolepta differs from Acadia in its slender habitus, in the presence of crossvein sc-r and vein R₂₊₃, in the sparsely haired scutum, in the bare laterotergite, in the short spurs of the fore and mid tibia (subequal to tibial diameter), and in the large exposed segment 7 of the male.

Acadia polypori new species Fig. 2

Greyish brown with pedicel, first two or three flagellomeres and legs yellowish only the stronger hairs on thorax, legs and male to Greyish brown with pedicel, first two ger hairs on thorax, legs and male terminalia vestiture mostly yellowish, only the stronger hairs on thorax, legs and male terminalia vestiture mostly yellowish, dark. and the setae on wing veins, dark.

the setae on wing veins, dark, the setae on wing veins, dark.

Types. Holotype &, Ludlow, New Brunswick, 2.VI.1968, D. P. Pielou, express. Holotype No. 16051, CNC, Ottawa. Polyporus betulinus. Type No. 16051, CNC, Ottawa.

Paratypes, 200 19, same data as holotype. In CNC.

Acomoptera new genus

Fig. 3

Type-species: Eudicrana plexipus Garrett, 1925. Length 5.4 to 5.7 mm. Ocelli three, subequal, lateral ocellus separated from median ocellus by a little eye margin by a little less than, and from median ocellus by a little more than, its eye margin by a fittle less than, its own diameter. Eye with a broad distinct emargination above antennal base, with rather long but very scattered hairs. Frons bare between ocelli and antennal bases, with Face short, wide, bare; clypeus about twice as long as face, with strong hairs. Palpus with five palpomeres, their relative lengths about 1:1.5:2:3.5:5.5 in dry specimen. Antenna in both sexes about 3.0 times as long as thorax; flagellomeres each about 5.0 times as long as wide.

Scutum with short appressed acrostichal and dorsocentral hairs and longer and more erect sublateral hairs, the intervening areas bare. Scutellum with three or four irregular rows of short to long hairs. Mediotergite and laterotergite bare. Metanotum with two or three strong erect hairs laterad of base of halter. Mesopleuron, metapleuron, and prosternum bare. Wing (Fig. 3) unmarked, with dense microtrichia, without macrotrichia. Crossvein r-m and all longitudinal veins except R2+3, first two sections of M, and CuP, with strong setae above; R1, R4+5, and apical part of M with setae below. Hind coxa with a single vertical row of rather strong hairs. Tibial bristles short but distinct, the longest a little shorter than tibial diameter. Tibial spur formula 1.5; 2.5, 2.5; 2.6, 2.6. Tarsal claws each with one or two small ventral teeth. Empodia small.

Sternite 1 bare. Sternites 2 to 7 each with a pair of broad, poorly defined, nedian to sublest a first state of the sublest of submedian to sublateral fold-lines. Male with segment 7 subequal to segment 6.

Tergite 8 about 1/2 and laterally. Tergite 8 about 1/2 as long as tergite 7, slightly shorter medially than laterally sternite 8 about 4/5 as long as tergite 7, slightly shorter medially than laterally. sternite 8 about 4/5 as long as tergite 7, slightly shorter medially than not rotated. Tergita 9 long as sternite 7, both sclerites extensively haired. Terminally not rotated. not rotated. Tergite 9 large, not fused with gonocoxites, about twice as wide as long, its posterolateral long, its posterolateral angles rounded. Sternite 9 fused with gonocoxites, the synsclerite with a narrow tree and the synsclerite with a narrow tree at about twice as the synsclerite with a narrow tree at about twice as the synsclerite with a narrow tree at about twice as the synsclerite with a narrow tree at about twice as the synsclerite with a narrow tree at about twice as the synsclerite with a narrow tree at a synsclerite with a sy synsclerite with a narrow transverse membranous area across ventral surface at about 4/5 its length, the posteroventral 4/5 its length, the posteroventral margin broadly and shallowly emarginate and with a preapical ventral short slander margin broadly and shallowly emarginate and with a preapical ventral short slender hook-like process directed posteriorly. Gonostylus process directed posterior cure library short, broad, its posterior cure library short slender hook-like process directed posteriorly. very short, broad, its posterior surface slightly concave, divided into three lobes lobe directed medially triangled slightly concave, divided into three apex; outer inner lobe directed medially, triangular, tapering irregularly to an acute apex; outer broad bro lobe directed medially, triangular, tapering irregularly to an acute apex, broad basally, tapering strongly, tapering strongly, tapering strongly, dististylls, apex, dististylls, apex, dististylls, apex, dististylls, apex, dististylls, apex, dististylls, apex, distingly, apex, broad basally, tapering strongly to an acute and slightly incurved apex; dististy separable sepa without outstanding hairs or bristles. Parameres and aedeagus not clearly separable gonocovito a dorsal plate attached consisting of a dorsal plate attached to the posteromedian dorsal angles of produced a with its base deeply and to the posteromedian dorsal angles of marginal angles of the produced a with its base deeply and to the posteromedian dorsal angles of marginal angles of the produced as with its base deeply and to the posteromedian dorsal angles of the produced as with its base deeply and the posterior marginal angles of the poster gonocoxites with its base deeply and triangularly emarginate and its posterior marginate and its posterior margina produced as a narrow and deeply and triangularly emarginate and its posterior which is broad of this process is surface of the base of this process is a trough-like structure (probably the aedeagus) as two lets as the latest and the process is a trough-like structure (probably the aedeagus) as two lets are trough-like structure (probably the aedeagus) as two lets are trough-like structure (probably the aedeagus) as two lets are trough-like structure (probably the aedeagus) as two lets are trough-like structure (probably the aedeagus) as two lets are trough-like structure (probably the aedeagus) as the lets are trough-like structure (probably the aedeagus) are trough-like structure (probably the aede which is broadened anteriorly as two lateral wings and is attached posteroven lively

to the posterior margin of the syn with fine hairs. Hypoproct broad Female with segment 7 very

as long as tergite 7, a little shor than tergite 8, deeply emarginate each lobe so formed with the oblique and the apex bluntly reslender spine-like process projec area and extending almost to ap shorter laterally, haired on abo weakly sclerotized anterolateral sclerotized submedian processes two long and a few short hairs, developed, membranous medial first segment of cercus. Cercus wide, second segment missing.

Acomoptera resembles Para thoracic hairing and wing vena macrotrichia on the wing memb The former genus is referrable these tribes are presently defi redefined and the two genera co Acomoptera has the palpus mor with short but distinct bristles Paratinia has the palpus shorter the tarsal claws untoothed.

I have examined the holoty B.C., and 233, presumably 26.VII.1960 (C. H. Mann) and (W. R. Mason).

Type-species: Adicroneura

Female only. Length 2.6 n one another by about twice their their diameter. Eye with dense and antennal bases. Face short face, haired throughout. Palpus 1:1:1.5:4:8 in dry specimen. An 1 about 2.0 times as long as wi

as wide, flagellomere 14 about 3 Scutum nearly denuded but lateral hairs present; intervening and a pair of rather long subla erect hairs; laterotergite with for Mesopleuron and metasternum ba with dense microtrichia, withou with setae above and below, tho a vertical row of long stiff hairs this row. Tibiae without distinct 25

ellomeres and legs yellor orax, legs and male temps 2. VI. 1968, D. P. Pielo

teral ocellus separated us by a little more than above antennal base, n ocelli and antennal by as face, with strong he pout 1:1.5:2:3.5:5.5 in ng as thorax; flagellom

entral hairs and longer cutellum with three or for terotergite bare. Metanor halter. Mesopleuron, m d, with dense microtrici veins except R₂₊₃, first 24+5, and apical part of f rather strong hairs. The tibial diameter. Tibials one or two small ven

of broad, poorly define 7 subequal to segment er medially than lateral ensively haired. Termin s, about twice as with sed with gonocoxites, oss ventral surface at abil llowly emarginate and wi ed posteriorly. Gonosij , divided into three lob rly to an acute apex. lobe directed posterior incurved apex; disting agus not clearly separate dian dorsal angles of ate and its posterior must s; attached to the re (probably the acdes attached posterovehing

to the posterior margin of the synsclerite. Cerci broad, flat, broadly rounded apically, with fine hairs. Hypoproct broad, semicircular, weakened anteromedially.

Female with segment 7 very little shorter than segment 6. Tergite 8 about half as long as tergite 7, a little shorter medially than laterally. Sternite 8 a little longer than tergite 8, deeply emarginate posteriorly, the rest of the median area membranous, each lobe so formed with the median margin almost straight, the lateral margin oblique and the apex bluntly rounded; infolded inner margin of each lobe with a slender spine-like process projecting posteriorly from anterior margin of sclerotized area and extending almost to apex of lobe. Tergite 9 medially as long as sternite 9, shorter laterally, haired on about posterior 1/3. Sternite 9 rather broad, with two weakly sclerotized anterolateral areas and two slender compressed more heavily sclerotized submedian processes projecting posteriorly. Tergite 10 very short, with two long and a few short hairs, fused on either side with sternite 10 which is well developed, membranous medially, tapers on posterior half and extends to apex of first segment of cercus. Cercus 2-segmented, first segment almost twice as long as wide, second segment missing.

Acomoptera resembles Paratinia Mik in eye shape, facial and antennal structure, thoracic hairing and wing venation. The most striking difference is the absence of macrotrichia on the wing membrane of Acomoptera and their presence in Paratinia. The former genus is referrable to the Gnoristini and the latter to the Sciophilini as these tribes are presently defined. It is possible that the two tribes should be redefined and the two genera combined. The two genera do show other differences. Acomoptera has the palpus more than 2.5 times as long as flagellomere 1, the tibiae with short but distinct bristles, and the tarsal claws each with a ventral tooth. Paratinia has the palpus shorter than flagellomere 1, the tibiae without bristles, and the tarsal claws untoothed.

I have examined the holotype ? of Eudicrana plexipus Garrett from Vancouver, B.C., and 288, presumably conspecific, from Mt. Thornhill, Terrace, B.C., 26. VII. 1960 (C. H. Mann) and Johnston Canyon, Banff, Alta., 4700', 18. VII. 1962 (W. R. Mason).

Adicroneura new genus

Figs. 4, 10

Type-species: Adicroneura biocellata new species.

Female only. Length 2.6 mm. Ocelli two, near middle of frons, separated from one another by about twice their diameter and from eye margin by about four times their diameter. Eye with dense long hairs. Frons with a few hairs between ocelli and antennal bases. Face short and broad, haired medially; clypeus not longer than face, haired throughout. Palpus with five palpomeres, their relative lengths about 1:1:1.5:4:8 in dry specimen. Antenna about 1.5 times as long as thorax; flagellomere 1 about 2.0 times as long as wide, flagellomeres 2-13 each about 1.5 times as long as wide, flagellomere 14 about 3.0 times as long as wide.

Scutum nearly denuded but with sockets of acrostichal, dorsocentral, and sublateral hairs present; intervening areas bare. Scutellum with very scattered short hairs and a pair of rather long sublateral hairs. Mediotergite posteriorly with six long erect hairs; laterotergite with four or five similar hairs. Metanotum without hairs. Mesopleuron and metasternum bare. Prosternum not visible. Wing (Fig. 4) unmarked, with dense microtrichia, without macrotrichia. All longitudinal veins except CuP with setae above and below, those on M, CuA, and A₁ very short. Hind coxa with a vertical row of long stiff hairs and, near apex, with a few short hairs in front of this row. Tibiae without distinct bristles. Fore tibia without anterior flattened area

at apex. Tibial spur formula 1.8; 1.5, 1.6; 1.7, 1.5. Tarsal claws apparently without the street as long as tergite 7

ventral tooth. Empodia very small.

ral tooth. Empodia very small.

Sternite 1 haired. Tergite 8 almost as long as tergite 7, extensively haired.

Sternite 1 haired as tergite 8, extensively haired, slightly narrowed post Sternite 8 about as long as tergite 8, extensively haired, slightly narrowed posteriorly

Sternite 8 about as long as tergite 8, extensively haired, slightly narrowed posteriorly

Sternite 8 about as long as tergite 8 armost the sternite 8 about as long as tergite 8, extensively haired, slightly narrowed posteriorly

Sternite 8 about as long as tergite 8 armost the sternite 8 about as long as tergite 8, extensively haired, slightly narrowed posteriorly

Sternite 8 about as long as tergite 8 armost the stergite 9 (or possibly 10) short below the stergite 1 armost the Sternite 8 about as long as tergite 8, extension. Tergite 9 (or possibly 10) short, haired with broad triangular posterior emarginate posteriorly. Sternite 9 very weak. Sternite 10 discounted to the state of the s with broad triangular posterior emarginate. Sternite 9 very weak. Sternite 10 distinctly posteriorly, weakly emarginate posteriorly, membranous medially. Cercus 2-seguencely posteriorly, weakly emarginate posteriorly, membranous medially. Cercus 2-segmented sclerotized and haired only laterally, membranous medially. Cercus 2-segmented second segment as long as first but much more slender.

and segment as long as first out.

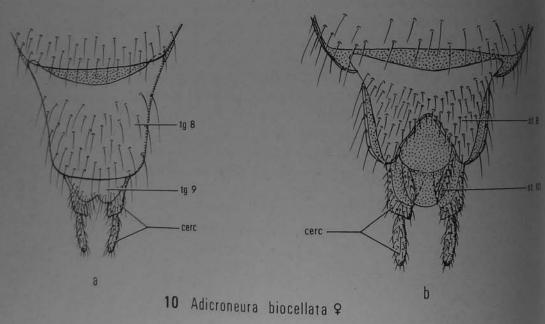
Adicroneura is the only genus of Gnoristini known to me in which M is this the median ocellus is absent. The only other genus Adicroneura is the only genus of the unbranched and in which the median ocellus is absent. The only other genus of the unbranched and in which the mediatergite is Coelophthinia Edwards, but in that unbranched and in which the incutant of the unbranched and in which the unbranched and u laterotergite is bare, three ocelli are present, and M is branched.

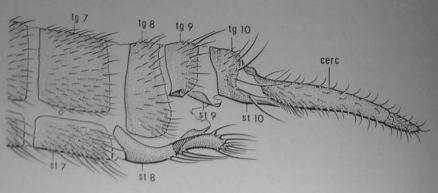
Adicroneura biocellata new species

Figs. 4, 10

Very pale yellowish brown; vertex pale brown.

HOLOTYPE. 9, Wetmore Campground, Baker Co., Oregon, 4500 29. VI.-5. VII. 1965 [E. G. Munroe], ex Malaise trap. Type No. 16052, CNC, Ottawa





11 Drepanocercus ensifer 9

Figs. 10, 11. Female terminalia. 10, Adicroneura biocellata n. sp.; 11, Drepanocercus ensifer n. sp. terminalia, dorsal; b, terminalia, ventral Accellata n. sp.; 11, Drepanocercus ensifer n. sp.; st. sternite; tg, tergilic. lateral. a, terminalia, dorsal; b, terminalia, ventral. Abbreviations: cerc, cercus; st, sternite; tg, tergite.

Type-species: Aglaomyia ga Female only. Length 8.2 m of each lateral, the latter separ. from the median ocellus by abo above antennal base, with short and antennal bases. Face short on lower part. Palpus long, palp 1.6 times as long as thorax; flag

1.5 times as long as wide, oth more slender.

Scutum with many suberect hairs. Scutellum with several in Mediotergite and laterotergite to base of halter. Mesopleuron short fine subappressed hairs yellowish, with small brownish on anterior half of wing apex margin of wing and anal ang macrotrichia, with dense micro bare: base of first costal cell, 2/3 of cell r, anterior part of R_1 , R_{4+5} , M_1 , M_2 , apical 1/4 half of crossvein r-m with ma with short setae below. Hind several irregular rows of short apex. Tibial bristles moderate diameter. Tibial spur formula small ventral teeth. Empodia s

Abdomen slender, elong: specimen.

Aglaomyia has wing venat zekia Edwards, but collaris (acrostichal hairs, has the metel beyond the level of the base o shorter than the tibial diameter.

Aglao

Female. Head black, subsl flagellomeres dull yellow, rest yellowish, becoming brownish shining, with black setae, the fe posteriorly-tapering yellow strip lateral to scutal stripe near mid Halter yellow. Legs mostly ye basal 1/5 of hind coxa, and pa brownish. Abdomen mostly da 1/4 to 1/3 of tergites 2 to 4 ye

Aglaomyia new genus

Fig. 5

Type-species: Aglaomyia gatineau new species.

Female only. Length 8.2 mm. Ocelli three, the median about half the diameter of each lateral, the latter separated from the eye margin by its own diameter and from the median ocellus by about twice its own diameter. Eye scarcely emarginate above antennal base, with short and very scattered hairs. Frons bare between ocelli and antennal bases. Face short, weak, bare; clypeus large, with many short hairs on lower part. Palpus long, palpomeres not distinct in dry specimen. Antenna about 1.6 times as long as thorax; flagellomere 1 about 2.0 times as long as wide, 2 about 1.5 times as long as wide, others about as long as 2 but becoming progressively

Scutum with many suberect dorsocentral and sublateral hairs, without acrostichal hairs. Scutellum with several irregular transverse rows of hairs of varying lengths. Mediotergite and laterotergite bare. Metanotum with one strong erect hair medial to base of halter. Mesopleuron and metepimeron bare; metepisternum with many short fine subappressed hairs near lower margin. Prosternum bare. Wing (Fig. 5) yellowish, with small brownish cloud over Rs and crossvein r-m, a large faint cloud on anterior half of wing apex and a faint cloud along and behind CuA2; anterior margin of wing and anal angle very slightly darkened. Wing membrane without macrotrichia, with dense microtrichia on most of surface but with following areas bare: base of first costal cell, base of second costal cell, posterior part of basal 2/3 of cell r, anterior part of cell m almost to crossvein r-m, most of alular area. R₁, R₄₊₅, M₁, M₂, apical 1/4 of CuA, CuA₁, CuA₂, apical half of A₁ and apical half of crossvein r-m with many short setae above; apical 2/3 of R₁ and of R₄₊₅ with short setae below. Hind coxa with basal 1/4 bare, beyond this point with several irregular rows of short hairs which become moderately long towards coxal apex. Tibial bristles moderately strong, the longest about twice as long as tibial diameter. Tibial spur formula 1.5; 2.5, 3.0; 2.9, 3.6. Tarsal claws each with two small ventral teeth. Empodia small.

Abdomen slender, elongate, tapering apically, strongly compressed in dry specimen.

Aglaomyia has wing venation similar to that of the Palaearctic genus Grzegorzekia Edwards, but collaris (Meigen), the only species of the latter genus, has acrostichal hairs, has the metepisternum bare, has Sc setose above and ending well beyond the level of the base of Rs, has vein R4 present, and has the tibial bristles shorter than the tibial diameter.

Aglaomyia gatineau new species

Fig. 5

Female. Head black, subshining, with black setae. Scape, pedicel and first two flagellomeres dull yellow, rest of flagellum dark brown. Mouthparts yellow. Palpus yellowish, becoming brownish apically. Thorax mostly dark brown to black, subshining, with black setae, the following areas yellow-orange; postpronotum, a broad posteriorly-tapering yellow stripe on anterior 2/3 of scutum, a small indistinct area lateral to scutal stripe near mid length of scutum, and area around anterior spiracle. Halter yellow. Legs mostly yellow; extreme bases of fore and mid coxae, about basal 1/5 of hind coxa, and part of ventral surface of trochanters dark brown; tarsi brownish. Abdomen mostly dark brown, shining, with black setae; about apical 1/4 to 1/3 of tergites 2 to 4 yellow-orange; tergites 5 to 7 narrowly yellow-orange apically.

al claws apparently with gite 7, extensively has ightly narrowed posterio r possibly 10) short, h weak. Sternite 10 dish ially. Cercus 2-segnitor wn to me in which w The only other genus of

wards, but in that genue

er Co., Oregon, 45

e No. 16052, CNC, On

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sp.; 11, Drepanocercus ensure cerc, cercus, st, stember

HOLOTYPE. 9, Duncan Lake nr. Rupert, Que., 10.VI.1971, J. F. McAlpine HOLOTYPE. 9, Duncan Lake III. McAlpine (taken in Malaise trap in well-drained hardwood-coniferous forest). Type No. 16053 C, Ottawa.

The specific name is derived from the Gatineau Hills among which Duncan

Lake is situated.

Drepanocercus new genus

Figs. 6, 11

Type-species: Drepanocercus ensifer new species.

Length 3.3 to 3.9 mm. Ocelli three, subequal, lateral ocellus separated from Length 3.3 to 3.9 mm. times its own diameter and from eye margin by about median occllus by about 11/2 times its own diameter and from eye margin by about median occilius by about 17 with a broad and moderately deep emargination above antennal base, with very short and scattered hairs. Frons bare between ocelli and antennal bases, with very shore; clypeus large, with strong hairs, not longer than face. Palpus with five palpomeres, their relative lengths 1:1:2:4:5; palpomere 3 without discernible sensory area. Antenna of male about 2.4 times as long as thorax. that of female about 1.6 times as long as thorax; flagellomere 1 about 2.5 times as long as wide, 2 to 14 each about 2.0 times as long as wide.

Scutum with mixed long erect and short subappressed acrostichal, dorsocentral and sublateral hairs, the intervening areas bare. Scutellum with four long and several short hairs in an irregular double row. Mediotergite and laterotergite bare. Metanotum with one long strong erect hair medial to base of halter. Mesopleuron, metapleuron, and prosternum bare. Wing (Fig. 6) unmarked, with dense microtrichia, without macrotrichia. Sc, R, R₁, Rs (except basal section), R₄₊₅, and crossvein r-m with long setae above; M₁, M₂, CuA₁ (except about basal 1/4), CuA₂, and A with short setae above; R1, Rs (except basal section), R4+5, and crossvein r-m with long setae below. Hind coxa with a complete vertical row of about eight long strong hairs and, in front of these, an irregular row of shorter hairs. Tibial bristles weak, the longest subequal in length to tibial diameter. Tibial spur formula 1.7; 2.6, 2.6; 2.3, 2.3. Tarsal claws each with a small ventral tooth. Empodia very small.

Abdomen with sternite 1 bare. Sternites 2 to 7 each with a pair of submedian to sublateral fold-lines. Male with tergite 7 and sternite 7 at most slightly shorter than sclerites of segment 6. Tergite 8 about half as long as tergite 7; exposed at least laterally, extensively haired; sternite 8 about 2/3 as long as sternite 7, extensively haired; sively haired. Tergite 9 free, large, a little broader than long. Sternite 9 apparently fused with gonocoxites, the latter separated ventrally by a narrow parallel-sided membranous area which extends almost to base of segment 9; gonocoxite extending medioventrally slightly beyond base of gonostylus. Gonostylus broadly articulated to dorsolateral part of several part of seve to dorsolateral part of gonocoxite, forming a subquadrate plate with three long and several shorter lateral server lateral ser several shorter lateral setae, the upper third slightly thickened and with a row of fine short moderately strong setae along apicodorsal margin. Aedeagus and parameres weakly sclerotized, the late the late and spicodorsal margin. weakly sclerotized, the latter H-shaped in dorsal view. Cercus weak, subquadrate, with weak setae. Hyperrest

with weak setae. Hypoproct weak, subtriangular, with a pair of apical setae. Female (Fig. 11) with segment 7 very little smaller than segment 6. Tergite edially about 1/3 as long than 1 8 medially about 1/3 as long and laterally about 1/2 as long as tergite 7. Sternite 8 with body about as long and laterally about 1/2 as long as tergite 7. 8 with body about as long as laterally about 1/2 as long as tergite 7. State anteriorly, bearing a pair of clearly margin of tergite 8, bare, broadly emarginate anteriorly, bearing a pair of clearly lobes anteriorly, bearing a pair of slender, slightly curved, long-setose posterolateral lobes and, posteriorly, between the lateral respectively. and, posteriorly, between the lobes, a flat bare median process which is broadest at mid length and ends in a primer, a flat bare median process which is broadest at mid length and ends in a primer, a flat bare median process which is broadest at mid length and ends in a primer with a part of the part of the primer with a part of the part o at mid length and ends in a pair of slender apicolateral processes. Tergite 9 as long as median part of tergite 8. Standard apicolateral processes. as median part of tergite 8. Sternite 9 very weak, indistinct. Tergite 10 almost as long as tergite 9, fused on several processes. long as tergite 9, fused on each side to a slender remnant of sternite 10 which

projects far beyond the tergite. Cercus projects far very me structure which is for curved blade-like structure curved brown hairs on lateral surface. Drepanocercus differs markedly fr region by having of miner from those of miner region by naving of other genera. I differ from any and this similarity noticeably elongated, but this similarity 10 convergence. Drepanocercu

Male. Dull yellow to yellow bro following brown: palpomeres 4 and 1 of scutum or median and sublateral anepisternum and katepisternum, lates abdomen except for yellowish termi segments 1 to 5 and all of segments 6 Female. Colour similar to that o

lobes of sternite 8 dark brown; cercus

Types. Holotype &, Highlands, Type No. 16054, CNC, Ottawa. Paraty 1150', 15.VI.1964 (Vockeroth); 9, Ole Twp., Gatineau Co., 1.VII.1974 (D 18.VII.1970 (J. F. McAlpine); 23, Mt N.S.: d, Lockeport 1.VIII.1958 (Vo eroth). Me .: 333, Hunt Trail, Mt. 8, Mt. Katahdin, 4. VII. 1968 (Wood) 22.VI.1977 (R. J. Gagné). Vt.: 3, (H. J. Teskey); Q, Jay Peak, 3000 Whiteface Mt., Adirondacks, above 3 19.VII.1962 (Vockeroth). Tenn.: 126 Smoky Mt. Nat. Pk., 5200-6600', 6 Gap, Great Smoky Mt. Nat. Pk., 5100 300, Clingman's Dome, Great Smol δ, Clingman's Dome, 5.VIII.1957 (F 28 VII. 1957 (Chillcott); &, Chestnut I 2.VIII.1957 (Chillcott); &, Devil's C (Richards); 40°0°, Highlands, 3800°, 21 3800', 25.VIII.1957 (Chillcott); 3, (Vockeroth). Ga.: Q, Rabun Co., USNM, Washington; CAS, San Fran Mus., Helsinki; Zool. Inst., Leningrad

Type-species: Leia shermani Garra Length 3.3 to 4.2 mm. Ocelli laterals, lateral ocellus separated fro diameter and from eye margin by a 1 charginate and from eye margin by a intermed between occili and antennal base, with U.VI.1971, J. F. Mon ous forest). Type No. 16 Hills among which De

ateral ocellus separated d from eye margin by ely deep emarginalion ons bare between oce strong hairs, not longer gths 1:1:2:4:5; palpone 2.4 times as long as to gellomere 1 about 25 wide.

ssed acrostichal, dorsonim with four long and we laterotergite bare. Metan r. Mesopleuron, metaple dense microtrichia, wa R₄₊₅, and crossvein r-m 1/4), CuA₂, and A with crossvein r-m with long ut eight long strong hairs bial bristles weak, the mula 1.7; 2.6, 2.6, 2.1 very small.

each with a pair of submi

nite 7 at most slightly s long as tergite 7; expos 3 as long as sternite 1,5 nan long. Sternite 9 appe lly by a narrow paralled gment 9; gonocoxite exte Gonostylus broadly artis drate plate with three los y thickened and with and nargin. Aedeagus and pure ew. Cercus weak, subject h a pair of apical setae maller than segment 6 12 as long as tergile gite 8, bare, broadly and long-setose posterolate edian process Which is reral processes. indistinct. of sternite to remnant of sternite projects far beyond the tergite. Cercus a long slender unsegmented tapering slightly curved blade-like structure which is fused at its base with other cercus and bears

Drepanocercus differs markedly from other genera of Gnoristini in the Holarctic region by having CuA forked very near its base. The elongate female cerci also differ from those of other genera. In Boletina oviducta (Garrett) the cerci are noticeably elongated, but this similarity between the two species is undoubtedly due

Drepanocercus ensifer new species

Figs. 6, 11

Male. Dull yellow to yellow brown, vertex and postcranium dark brown, the following brown: palpomeres 4 and 5, flagellomeres 2 to 14, usually either most of scutum or median and sublateral postsutural scutal stripes, usually most of anepisternum and katepisternum, laterotergite, usually most of mediotergite, entire abdomen except for yellowish terminalia and dark brown posterior incisures of segments 1 to 5 and all of segments 6 to 8.

Female. Colour similar to that of male but dark areas usually more extensive; lobes of sternite 8 dark brown; cercus yellow, translucent.

Types. Holotype &, Highlands, N.C., 3900', 7.VI.1957 (J. R. Vockeroth). Type No. 16054, CNC, Ottawa. Paratypes: Que.: &, Summit King Mt., Old Chelsea, 1150', 15. VI.1964 (Vockeroth); ♀, Old Chelsea, 11. VI.1959 (Vockeroth); ♂, Masham Twp., Gatineau Co., 1.VII.1974 (D. M. Wood); &, Duncan Lake, nr. Rupert, 18. VII. 1970 (J. F. McAlpine); 23, Mt. Orford, 1200-2000', 21. VII. 1968 (Vockeroth). N.S.: ♂, Lockeport 1.VIII.1958 (Vockeroth); ♀, Shelburne, 10.VIII.1958 (Vockeroth). Me.: 333, Hunt Trail, Mt. Katahdin, 1600-2400', 1-6.VII.1968 (Wood); 3, Mt. Katahdin, 4.VII.1968 (Wood). N.H.: 3, Pinkham Notch, White Mountains, 22. VI. 1977 (R. J. Gagné). Vt.: 3, 5 mi W. Bloomfield, Essex Co., 20. VI. 1972 (H. J. Teskey); ♀, Jay Peak, 3000-3400', 20. VII. 1968 (Vockeroth). N.Y.: ♂, Whiteface Mt., Adirondacks, above 3800' (J. M. Aldrich); &, Lake Placid, 2000', 19. VII. 1962 (Vockeroth). Tenn.: 12♂♂ 1♀, Indian Gap to Clingman's Dome, Great Smoky Mt. Nat. Pk., 5200-6600', 6.VIII.1957 (J. G. Chillcott); 4∂∂ 1, Indian Gap, Great Smoky Mt. Nat. Pk., 5100', 24. VII. 1957 (W. R. Richards). N.C.: 488 3♀♀, Clingman's Dome, Great Smoky Mt. Nat. Pk., 6.VIII.1957 (C. J. Durden); 3, Clingman's Dome, 5. VIII. 1957 (Richards); 3, Wayah Gap, Macon Co., 4100', 28. VII. 1957 (Chillcott); &, Chestnut Bald, Pisgah Nat. Forest, Haywood Co., 5800', 2.VIII.1957 (Chillcott); &, Devil's Court House, Blue Ridge Parkway, 2.VIII.1957 (Richards); 4♂♂, Highlands, 3800', 21.VI and 8.VII., 1957 (Vockeroth); ♀, Highlands, 3800', 25.VIII.1957 (Chillcott); &, Wilson's Gap, Highlands, 3100', 25.V.1957 (Vockeroth). Ga.: 9, Rabun Co., 13.VII.1957 (Richards). Paratypes in CNC; USNM, Washington; CAS, San Francisco; BMNH, London; MNHN, Paris; Zool. Mus., Helsinki; Zool. Inst., Leningrad.

Garrettella new genus

Type-species: Leia shermani Garrett, 1925.

Length 3.3 to 4.2 mm. Ocelli three, median ocellus slightly smaller than laterals, lateral ocellus separated from median ocellus by almost twice its own diameter and from eye margin by a little less than its own diameter. Eye slightly emarginate above antennal base, with dense and moderately long hairs. Frons bare between ocelli and antennal bases. Face short, a little wider than long, haired;

clypeus about twice as long as face, haired. Palpus with five palpomeres, the 1:1:3:4 5:9; palpomere 3 without discernible sensory area clypeus about twice as long as race, method discernible sensory area, their relative lengths 1:1:3:4.5:9; palpomere 3 without discernible sensory area, Antenna 2 8 times as long as thorax, that of female about 1.8 times of male about 2.8 times as long as thorax, that of female about 1.8 times as long as broad as long as lon of male about 2.8 times as long as long as broad, 2 to 13

about 2.5 times as long as oread.

Scutum rather sparsely haired; acrostichal hairs in one irregular row; dorsocentral sparsely haired; acrostichal hairs in one irregular row; dorsocentral sparsely haired; acrostichal hairs in one irregular row; dorsocentral sparsely haired; acrostichal hairs in one irregular row; dorsocentral hairs in one irregular row; dorsocen Scutum rather sparsely hance, actually scutellum with four long bristle and sublateral hairs longer and stronger posteriorly. Scutellum with four long bristle and sublateral hairs longer and stronger plants. Mediotergite and laterotergite bare like hairs and a transverse row of short hairs. Mediotergite and laterotergite bare bare like hairs lateral to base of halter. Metanotum with one or two fine erect hairs lateral to base of halter. Mesopleuron, with dense with metapleuron, and prosternum bare. Wing (Fig. 7) unmarked, with dense microtrichia, with a few macrotrichia posteriorly, especially on anal lobe. Crossvein r-m, and all with a few macrotrichia posteriorly, especially on anal lobe. Crossvein r-m, and all with a few macrotrichia posteriorly, especially on anal lobe. longitudinal veins except Rs, setose above; Sc, R near its apex, R₁, R₄₊₅, and crossvein r-m setose below. Hind coxa with one irregular vertical row of strong hairs on most of its length. Tibiae with moderately strong bristles, the longest about 2.5 times as long as tibial diameter. Tibial spur formula 2.5; 2.8, 3.3; 2.8, 3.4 Tarsal claws each with a large ventral tooth which is preceded by one or two smaller

teeth. Empodia large, slightly longer than claws.

Abdomen with sternite 1 haired posteriorly. Sternites 2 to 7 without fold-lines. Male with segment 9 rotated clockwise through 180° or less, the rotation beginning with segment 7. Tergite 7 and sternite 7 about 2/5 as long as sclerites of segment 6, the posterior half of each haired and moderately exposed. Tergite 8 about 1/2 as long as tergite 7, only slightly shorter medially than laterally, retracted, with row of posterior hairs. Sternite 8 a little longer than sternite 7, mostly retracted bare only anteriorly. Tergite 9, gonocoxites, and sternite 9 fused into a ring-like synsclerite which bears a V-shaped incision almost to its base mid-dorsally and midventrally. Dististylus short and broad, attached along whole lateral apical part of synsclerite, deeply divided into a dorsal, slender, slightly sinuate, tapering, acute lobe, and a very broad compressed lower lobe which is partly hidden under synsclerite, has a short hook-like projection near its upper end and tapers to a bluntly rounded lower end. Aedeagus short and rather weak, composed of two slender lateral struts. Parameres fused, forming a large hood with downcurved lateral margins over aedeagus, the base deeply excavated and the apex tapering and broadly rounded. Cerci lying in dorsal emargination of synsclerite, each cercus rather weak, large. broad basally, tapering to a bluntly rounded apex, with fine hairs; hypoproct as long as cercus, divided medially, each half similar in shape to cercus.

Female with segment 7 about 3/5 as long as segment 6. Tergite 8 with short hairs posteriorly, medially 2/5 as long and laterally 5/6 as long as tergite 7. Sternite 8 a little longer than greatest length of tergite 8 and projecting well beyond the latter, divided medially almost to its base to form two subtriangular lobes with bluntly rounded apices, with distinct hairs near posterior margin. Tergite 9 either absent or very short and nearly fused with tergite 10. Sternite 9 a weak anteriorly thickened plate lying above sternite 8. Tergite 10 (plus perhaps tergite 9) extremely short, extending postshort, extending posteriorly on each side as a slender process lying above, and closely appressed to closely appressed to, one-half of the narrow medially-divided sternite 10. Cercus 2-segmented first seemented 2-segmented, first segment about twice as long as wide, second segment narrowed and much shorter, showed the second segment narrowed

and much shorter, about 11/2 times as long as wide, rounded apically.

Garrettella has a few macrotrichia on the posterior part of the wing membrane do many species of Train of the wing membrane) (as do many species of *Trichosia* Winnertz in the subfamily Mycetophilinae) had its marked similarity to Linchosia its marked similarity to Leia Meigen in venation and habitus suggests that it should be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to the Tetracore in the subfamily Mycetophilia be referred to th be referred to the Tetragoneurini rather than to the Sciophilini. The two genera man be distinguished as follows: be distinguished as follows:

Garrettella: Latera Volume 112 margin. Flagellomeres membrane with a few ending well beyond les Hind coxa with an irreg Leia: Lateral ocell

at most 1.5 times as membrane without mad Rs; crossvein sc-r scarc and apex but bare on al I have examined t

plus 1888 and 6299 1969-1971 (D. D. Mun

Type-species: Bole

Length 3.8 to 5. laterals, lateral ocellus and from eye margin shallow emargination a Frons bare between oc face, with strong hair lengths 1:1:2:4:8; palp dorsomedian surface. gellomeres from 2 to lomeres 1 and 14 about about 1.5 to 2.0 times longer than others, flag

Scutum with mixe and sublateral hairs, th scattered short hairs or with one weak erect 1 bare; metepisternum w unmarked, with dense of M2, about apical ha of A₁ setose above; R₁ vertical rows of strong three times as long as Tarsal claws each with

Abdomen with ste of sublateral fold-lines 7 and sternite 7 about as long as tergite 7, hidden in dry specime haired, usually partly e direction through from sided or broadened apic a distinctly emarginate over most of the surfa with gonocoxites latera Palpus with five palposes out discernible sensony area at of female about 1.8 in 3.0 times as long as broad airs in one irregular row, do orly. Scutellum with four less Mediotergite and laterole eral to base of halter. M) unmarked, with dense m on anal lobe. Crossvein Fr c, R near its apex, R,

one irregular vertical town ely strong bristles, the longs ır formula 2.5; 2.8, 33 1 h is preceded by one or two

Sternites 2 to 7 without for 180° or less, the rotation by 2/5 as long as sclerites of tely exposed. Tergite 8 ib ly than laterally, retracted than sternite 7, mostly m d sternite 9 fused into a m t to its base mid-dorsally at along whole lateral apical , slightly sinuate, tapenag which is partly hidden und upper end and tapers to 11 k, composed of two slender n downcurved lateral magaex tapering and broadly m , each cercus rather weat. with fine hairs; hypoprocts

ape to cercus. segment 6. Tergile 8 F y 5/6 as long as tergite 13 and projecting well being rm two subtriangular lob oosterior margin. Tergit 4 10. Sternite 9 a weak and

(plus perhaps tergite 9) eur lender process lying that dially-divided sternite s wide, second seements rounded apically. ne subfamily Mycetophilis supramily hycorophatics suggests that habitus suggests the habitus the habitus

Garrettella: Lateral ocellus separated by almost its own diameter from eye margin. Flagellomeres at least 2.5 times as long as wide. Laterotergite bare. Wing membrane with a few macrotrichia posteriorly. Sc setose above and below and ending well beyond level of base of Rs; crossvein sc-r at about 4/5 length of Sc. Hind coxa with an irregular vertical row of strong hairs over most of its length.

Leia: Lateral ocellus usually touching eye margin or nearly so. Flagellomeres at most 1.5 times as long as wide. Laterotergite with long strong hairs. Wing membrane without macrotrichia. Sc bare and ending well before level of base of Rs; crossvein sc-r scarcely beyond mid length of Sc. Hind coxa with hairs near base and apex but bare on about 2/3 of its length.

I have examined the holotype 9 of Leia shermani Garrett from Agassiz, B.C., plus 1833 and 6299 from Alpine L., Marin Co., California, 1500', IV and V, 1969-1971 (D. D. Munroe), ex Malaise trap.

Saigusaia new genus

Fig. 8

Type-species: Boletina cincta Johannsen, 1912.

Length 3.8 to 5.7 mm. Ocelli three, median ocellus slightly smaller than laterals, lateral ocellus separated from median ocellus by about twice its own diameter and from eye margin by about 0.5 to 1.0 times its own diameter. Eye with broad shallow emargination above antennal base, with long and moderately abundant hairs. Frons bare between ocelli and antennal bases. Face weak, bare; clypeus longer than face, with strong hairs on upper half. Palpus with five palpomeres, their relative lengths 1:1:2:4:8; palpomere 3 with a large rounded sensory pit on basal half of dorsomedian surface. Male with antenna 2.2 to 2.5 times as long as thorax, flagellomeres from 2 to 3 times as long as broad, subequal in length or with flagellomeres 1 and 14 about 1.5 times as long as each of 2 to 13; female with antenna about 1.5 to 2.0 times as long as thorax, flagellomere 1 and sometimes 14 slightly longer than others, flagellomeres proportionally shorter and broader than in male.

Scutum with mixed long erect and short subappressed acrostichal, dorsocentral and sublateral hairs, the intervening areas bare. Scutellum with two long hairs, with scattered short hairs on most of disc. Mediotergite and laterotergite bare. Metanotum with one weak erect hair lateral to base of halter. Mesopleuron and metepimeron bare; metepisternum with many short fine hairs. Prosternum bare. Wing (Fig. 8) unmarked, with dense microtrichia, without macrotrichia. R1, R4+5, most of M1 and of M2, about apical half of CuA1 and of CuA2, and sometimes basal half or more of A₁ setose above; R₁ and R₄₊₅ setose below. Hind coxa with two to three irregular vertical rows of strong hairs. Tibial bristles moderately strong, the longest about three times as long as tibial diameter. Tibial spur formula 1.6; 2.5, 3.6; 2.5, 3.3. Tarsal claws each with a small ventral tooth. Empodia very small.

Abdomen with sternite 1 bare. Sternites 2 to 7 each with a median and a pair of sublateral fold-lines, sternite 8 of male with median fold-line. Male with tergite 7 and sternite 7 about 3/4 as long as sclerites of segment 6. Tergite 8 about 1/2 as long as tergite 7, slightly narrowed laterally, haired only posteriorly, usually hidden in dry specimens; sternite 8 about 2/3 as long as sternite 7, extensively haired, usually partly exposed. Segment 9 in many specimens rotated in a clockwise direction through from 80° to 180°. Tergite 9 not fused with gonocoxites, parallelsided or broadened apically, the apical portion turned sharply ventrad, narrowed to a distinctly emarginate apex, and with many very short rather strong black setae over most of the surface or in two narrow irregular triple rows. Sternite 9 fused with gonocoxites laterally and membranous medially. Gonocoxite tapering evenly

to apex or with a pronounced posteromedian angle on ventral surface. Gonostylla to apex or with a pronounced posteromedian angle on ventral surface. Gonostylla to apex or with a pronounced posteromedian angle on ventral surface. to apex or with a pronounced posteron beyond base, slightly to strongly incurved inserted at apex of gonocoxite, deepened beyond base, slightly to strongly incurved inserted at apex of gonocoxite, deepened with weak setae or with two strong preapical constriction with weak setae or with two strong with a slight to strong preapical constriction with weak setae or with two strong slightly flattened black setae at any with a slight to strong preapiear country slightly flattened black setae at apex. Fused dorsal setae, and with many short strong slightly flattened black setae at apex. Fused dorsal setae, and with many short strong slightly flattened black setae at apex. Fused dorsal setae, and with many short strong slightly flattened black setae at apex. Fused dorsal setae, and with two strong slightly flattened black setae at apex. dorsal setae, and with many short strong and state at apex. Fulled parameters short, weakly sclerotized, either subconical and tapering apically or in the flat subtriangular plate with a subcylindrical ventral parameres short, weakly scienced, the form of a rather flat subtriangular plate with a subcylindrical ventral process the form of a rather flat subtriangular plate with a subcylindrical ventral process the form of a rather that successful process near its base. Processes eniproct absent; hypoproct subtriangular, with the near its base. Proctiger weathy be with weak scattered setae; epiproct absent; hypoproct subtriangular, with two preap. ical setae.

Female with segment 7 a little over half as long as segment 6. Tergite 8 long as tergite 7. Sterpite 8 laterally than medially, at most about 1/2 as long as tergite 7. Sternite 8 membranous medially, the posterior lobes rather broad, narrowed preapically, bluntly rounded medially, the posterior lobes rather broad, narrowed preapically, bluntly rounded apically, with rather strong apical setae. Tergite 9 about 1/2 as long as lateral pan of tergite 8. Sternite 9 subquadrate or subtriangular, nearly flat, moderately scler. otized, not protruding beyond tergite 9. Sternite 10 not discernible. Cercui 2-segmented; basal segment about 1½ times as long as broad, apical segment slightly narrower, rounded apically, about two-thirds as long as basal segment.

Two species are referrable to Saigusaia: Boletina cincta Johannsen, 1912, the type-species, and Boletina taiwana Saigusa, 1968 (n. comb.). S. cincta (Johannsen) was described from Vermont and New York; 29♂♂ and 11♀♀ in the CNC range from Ouebec (ca. 50 km N of Hull) south to northern Georgia (ca. 1500 m altitude) The male terminalia were figured by Johannsen. S. taiwana (Saigusa) was described from Taiwan; I have tentatively identified 333 and 299 from Nepal (all taken a or near 27°56' N, 85°00' E, at 9,900' and 10,100') in the CNC as taiwana. The specimens agree well with the description and with the figures of male and female terminalia given by Saigusa, but the legs of the Nepalese specimens are less extensively blackened and the aedeagus and parameres differ slightly in form. The two species may be distinguished as follows:

S. cincta: Mediotergite, laterotergite, and mesopleuron yellow to reddish yellow, much paler than scutellum. Male with deflexed apical portion of tergite 9 bearing

short black setae over its entire surface (eastern Nearctic).

S. taiwana: Mediotergite, laterotergite, and about upper 1/2 of mesopleuron dark brown to black, concolorous with scutellum. Male with deflexed apical portion of tergite 9 bearing short black setae in two irregular triseriate rows (eastern Palaearctic).

Saigusaia is probably closely related to Boletina Staeger, which has very similar

wing venation. The two genera may be distinguished as follows:

Saigusaia: Face weakly sclerotized, bare. Laterotergite bare. Metepisternum with short fine hairs. Prosternum bare. Sc ending well before level of base of crossvein r-m. Sternite 1 bare. Sternites 2 to 7 or 8 with median fold-line. Male with tergite 7 and sternite 7 haired, subequal in length, each about 2/3 as long as sclerites of some school scho sclerites of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites its apical and selection of selection of segment 6; tergite 8 haired posteriorly; tergite 9 not fused with gono coxites and selection of selection coxites, its apical portion sharply deflexed, narrowed towards apex, with narrow apical emargination and bearing short spinose setae; cerci retracted below tergite 9, with only weak hairs. For the profile with only weak hairs. Female with sternite 8 deeply emarginate posteriorly, portion anterior to emargination membranous medially; cercus 2-segmented.

Boletina: Face strongly sclerotized, haired. Laterotergite haired or bare present page Preset Metepisternum bare. Prosternum haired or bare. Sc ending opposite or beyond level of base of crossvein remarks and the strongly sclerotized, haired. Laterotergite haired or base of crossvein remarks and the strongly sclerotized, haired. Laterotergite haired or beyond level of base of crossvein remarks and the strongly sclerotized, haired. of base of crossvein r-m. Sternite 1 haired. Sternites 2 to 7 or 8 with or without median fold-line. Male with median fold-line. Male with tergite 7 bare, much shorter than sternite 7, medially at most 1/6 as long as torgite 7 bare, much shorter than sternite 7, medially half at most 1/6 as long as tergite 6; tergite 8 very short, usually bare but haired

posteriorly in at least B. with gonocoxites antero flexed, narrowed, narrow usually with transverse sahlbergi and several r emarginate, anterior pol sometimes 1-segmented.

Several Nearctic SI than those in which the A number of these ar British Columbia; the t in the Canadian Nation types of the species d Museum (Natural Histo and Platyura intermedia comm.). Types of other specifically indicated. because I would, follo the subgenera in which places in the list in synonymy. For each n placed is given in pare

Cerotelion johann Euceroplatus fasci Heteropterna cres. Macrorrhyncha ce Stigmatomeria cra Syntemna johanns Syntemna vernalis Dziedzickia colur 1912) (Loewi

I have examined Alaska, British Columb the terminalia of all 1 specific; the terminalia The genus Syntemna species referred to the The venation of Synter the wing membrane b a primary homonym o considered until the Ne

Hadroneura occide Hadroneura pullat Hadroneura rutila

The two species palmeni Lundström and head produced slightly not have the head prod of Hadroneura may be

posteriorly in at least Boletina sahlbergi Lundström; tergite 9 usually broadly fused with gonocoxites anterolaterally but sometimes separate, its apical portion not deflexed, narrowed, narrowly emarginate, nor spinose; cerei exposed beyond tergite 9. flexed, harrowerse rows of strong black setae but with only weak hairs in sahlbergi and several related species. Female with sternite 8 posteriorly entire or emarginate, anterior portion not membranous medially; cercus usually 2-segmented. sometimes 1-segmented.

THE CANADIAN ENTOMOLOGIST

New Combinations and New Synonymy

Several Nearctic species of Mycetophilidae should be assigned to genera other than those in which they are currently placed, or are synonyms of Palaearctic species. A number of these are species described by Sherman and Garrett, mostly from British Columbia; the types of these species, with the exceptions noted below, are in the Canadian National Collection, Ottawa and have been examined by me. The types of the species described by Garrett in Sciophila Meigen are in the British Museum (Natural History), London and the types of Mycomya mutabilis Sherman and Platyura intermedia Sherman were accidentally destroyed (C.B.D. Garrett, pers. comm.). Types of other species mentioned below were not examined unless this is specifically indicated. The first five species listed below are new combinations only because I would, following in part recent European authors, give generic rank to the subgenera in which they are currently placed. Comments are given at appropriate places in the list in connection with the other new combinations and the new synonymy. For each new combination the genus in which the species was originally placed is given in parentheses.

Cerotelion johannseni (Fisher, 1940) (Keroplatus), n. comb. Euceroplatus fasciatus (Garrett, 1925) (Cerotelion), n. comb. Heteropterna cressoni (Fisher, 1941) (Keroplatus), n. comb. Macrorrhyncha coxalis (Loew, 1869) (Asindulum), n. comb. Stigmatomeria crassicornis (Stannius, 1831) (Mycetophila), n. comb. Syntemna johannseni (Sherman, 1921) (Dziedzickia), n. comb. Syntemna vernalis (Sherman, 1921) (Dziedzickia), n. comb.

Dziedzickia columbiana Sherman, 1921 = Syntemna hungarica (Lundbeck, 1912) (Loewiella), n. syn.

I have examined the single male type of columbiana, seven other & & from Alaska, British Columbia, Manitoba and Colorado, and one 3 from Abisko, Sweden; the terminalia of all nine specimens were macerated. They are undoubtedly conspecific; the terminalia agree with those of hungarica as figured by Hutson (1979). The genus Syntemna was first properly recorded from North America by Hutson; species referred to the genus by Loew and Johannsen are now placed in Dziedzickia. The venation of Syntemna resembles that of Dziedzickia, with Sc ending in R, but the wing membrane bears many macrotrichia. Dziedzickia johannseni Sherman is a primary homonym of D. johannseni Meunier 1917 but renaming should not be considered until the Nearctic fauna is revised.

Hadroneura occidentalis (Sherman, 1912) (Dziedzickia), n. comb. Hadroneura pullata (Coquillett, 1904) (Neoempheria), n. comb. Hadroneura rutila (Sherman, 1921) (Dziedzickia), n. comb.

The two species previously referred to Hadroneura Lundström, Hadroneura palmeni Lundström and Neoempheria kincaidi Coquillett, have the lower part of the head produced slightly but distinctly downward. The three species listed above do not have the head produced but are otherwise very similar to kincaidi. The species of Had of Hadroneura may be distinguished from Nearctic species of Dziedzickia with a

abtriangular, with two pice segment 6. Tergite 8 lon ite 7. Sternite 8 membran preapically, bluntly round at 1/2 as long as lateral a early flat, moderately sel 10 not discernible. Cett proad, apical segment slight s basal segment.

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otergite bare. Metepisters well before level of base with median fold-line. M h, each about 2/3 as long! ergite 9 not fused with got d towards apex, with name erci retracted below tergit marginate posteriorly, puri aterotergite haired or he iding opposite or beyond 2 to 7 or 8 with or with

orter than sternite 7, media hort, usually bare but he

haired laterotergite by having R_{2+3} present and more than twice its own length from haired laterotergite by having R_{2+3} present, it is less than its own length from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; those species of Dziedzickia with a haired laterotergite from the outer end of crossvein r-m; the outer end of the outer end of crossvein r-m; those spectrum the outer end of crossvein r-m; those spectrum the outer end of crossvein r-m; those spectrum the outer lack R₂₊₃ or, if it is present, it is less than its own length from the outer end either lack R₂₊₃ or, if it is present, it is less than its own length from the outer end either lack R₂₊₃ or, if it is present, it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; the outer end of crossvein r-m; those spectrum that it is less than its own length from the outer end of crossvein r-m; the outer either lack R₂₊₃ or, if it is present, of Neoempheria pullata Coquillen of crossvein r-m. I have examined the holotype of Neoempheria pullata Coquillen in the USNM, Washington.

Synapha astacus (Garrett, 1924) (Boletina), n. comb. Synapha astacus (Garrett, 1921)
In both the holotype 3 and the allotype 9 Sc ends in C and R₂₊₃ is absent not not not acute point and a bunch of fine hairs as less than 1921. The dististyle ends in a short acute point and a bunch of fine hairs as long as the The dististyle ends in a short details of the female has the depressed anterior area point and medial to it. The fore tibia of the tibia. The species is quite distinct area point and medial to it. The lord of the tibia. The species is quite distinct from extending about 5/7 the length of the other described western Nearctic species. Synapha disjuncta (Garrett), the other described western Nearctic species of the Synapha disjuncta (Garrety, and genus. Hutson (1979) says that the eastern Nearctic species Synapha tibialis (Coquillet) genus. Hutson (1979) says that the eastern Nearctic species Synapha tibialis (Coquillet) genus. Hutson (1979) says that the should be referred to another genus but I disagree. Although it, unlike other species, should be referred to another genus but I disagree. Although it, unlike other species, has Sc ending in R, in other characters, including the male terminalia, it agrees well with the type-species of Synapha.

Greenomyia cephala (Garrett, 1925) Leia, n. comb. Greenomyia joculator (Laffoon, 1965) Leia, n. comb.

Greenomyia Brunetti was based on one species from India but remained poorly known until two species from Mongolia were described by Laštovka and Matile (1974). The male terminalia of the two species listed above, plus those of one undescribed Nearctic species, are very similar to those of the species from Mongolia and all are undoubtedly congeneric. The Nearctic species of Greenomyia have the lateral ocelli far removed from the eye margin, the prosternum with strong bristlelike lateral hairs, and the apex of R₄₊₅ well before the level of the apex of M₀. The species of Leia have the lateral ocelli near the eye margin, the prosternum bare, and the apex of R₄₊₅ above or beyond the level of the apex of M₂. I have examined the two female syntypes of cephala.

Rhymosia brevicornis Sherman, 1921 = Allodiopsis cristata (Staeger, 1840) (Mycetophila), n. syn.

I have compared the single male type, and several other Canadian specimens of brevicornis, with several specimens of cristata from Sweden.

Brachypeza errans (Garrett, 1925) (Dynatosoma), n. comb.

Pseudobrachypeza bulbosa (Johannsen, 1912), (Allodia), n. comb...

These two species are placed on the basis of the generic descriptions given by Tuomikoski (1966). I have examined the two female syntypes of errans.

References

Hutson, A. M. 1979. Notes on Sciophilinae (Dipt., Mycetophilidae) with a revision of Palaearchic Syntema Winnerty. Free Company of Palaearchic Palaear Syntemna Winnertz. Entomologist's mon. Mag. (1978) 114: 131-145.

Laštovka, P. and L. Matile. 1974. Mycetophilidae (Diptera) de Mongolie. Acta Zool. Acad. Scient-hung. 20: 93-135 hung. 20: 93-135.

Tuomikoski, R. 1966. Generic taxonomy of the Exechiini (Dipt., Mycetophilidae). Suom. hyönt Aikak. 32: 159-194.

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DESCRIPTION D'UN

Institut de Recherc

Résumé

Robsonomyia reducta. récoltés en Colombie B ce genre des autres Maci

Abstract

Robsonomyia reducta, 1 British Columbia and Macrocerinae are discus

Le nouveau genre de tels qu'ils ont été défin groupe par la terminaiso deux genres néarctiques de R4 et de la section occipital, d'un sillon dé en arrière jusqu'au fora de Meijere (oriental et sont eux aussi dépourvu pas de sillon sagittal. P nous avons pu examiner Freeman, du Chili, et australiennes) portent u se distinguera par son j Edwards, 1927, et Freei

Enfin, il existe che membraneuse présente 1979) a déjà discuté ce partagé par un genre ir fortement apomorphe, forment, au sein des Ma

Espèce type: Robsonom Tête (fig. 1-3) plus la échancré en arrière et po front. Trois ocelles subéga soies dispersées, les postséparé du front par une la plus étroite, l'espace mem les yeux. L'œil régulière un sillon médian émoussé. un peu plus longs que 1 bandelette transversale. C articles, le deuxième palp plus longs que le précédes