

# JOURNAL

OF THE

## New York Entomological Society

VOL. XXXVII

MARCH, 1929

No. 1

### THE GENERA AND SUBGENERA OF LEIODIDÆ AND CLAMBIDÆ<sup>1</sup>

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The preparation by the author of the portion on Leiodidæ and Clambidæ of the Junk-Schenkling *Coleopterorum Catalogus* made it desirable to establish a sequence for the genera of those families. The following key, compiled from the literature, is presented as exhibiting the basis of that sequence. A similar key to the species of *Colenis* Er. is appended at the end of the key to genera.

#### LEIODIDÆ

A<sup>1</sup>. With eyes; tarsi three to five segmented; abdomen six (♂) or five segmented (♀).

B<sup>1</sup> Head without antennal groove beneath; tibiæ without longitudinal dorsal carina; anterior tarsi without spines; body usually not contractile ..... **LEIODINI**

C<sup>1</sup>. Metatarsi five segmented.

D<sup>1</sup>. Antennal club five segmented.

E<sup>1</sup>. Head short; clypeus small, feebly emarginate; pronotum transverse; tarsi 5-5-5; Holarctic, Oriental, Chili.

**Hydnobius** Schm.

E<sup>2</sup>. Head very prominent; clypeus distinct, deeply emarginate with four strong setæ; pronotum oval or oboval; Australia, Panama ..... **Dietta** Sharp.

D<sup>2</sup>. Antennal club three segmented.

E<sup>1</sup>. Tibiæ slender, not strongly spinulate; Holarctic.

**Triarthron** Märkel.

E<sup>2</sup>. Tibiæ dilated, strongly spinulate; Madeira ..... **Stereus** Woll.

<sup>1</sup> Contribution from the Zoölogical Laboratory of the University of Washington.



C<sup>2</sup>. Metatarsi with less than five segments.

D<sup>1</sup>. Tarsi 5-5-4.

E<sup>1</sup>. Antennal club five segmented.

F<sup>1</sup>. Pronotum not or feebly margined at base; protibia with moderately elongate spurs at apex, the outer edge with or without a tooth at extreme apex, not emarginate (*Anisotoma* Schm., Er., Lacord., Lec., Seidl., Horn, Leng, etc.—*Liodes* Reitt., Ganglb., etc.).....**Leiodes** Latr.

G<sup>1</sup>. Mesosternum not carinate; Nev., Cal. (type *L. ecarinata* Horn) .....subg. *Ecarinosphaerula* nov.

G<sup>2</sup>. Mesosternum feebly carinate, the carina terminating at the anterior margin of the mesosternum.

H<sup>1</sup>. Interstrial rows of punctures feeble; Holarctic, Cent. Amer. ....sub. *Leiodes* s. str.

H<sup>2</sup>. Interstrial rows of punctures as distinct as the strial rows; Europe.....subg. *Pseudohydnoebius* Ganglb.

G<sup>3</sup>. Mesosternum strongly carinate; metasternum short.

<sup>1</sup>. Hind margin of pronotum feebly arcuate, its hind angles broadly rounded; wingless; Holarctic.

subg. *Oreosphaerula* Ganglb.

H<sup>2</sup>. Hind margin of pronotum more nearly straight.

I<sup>1</sup>. Outer apical angle of ♂ metatibia with a heel-like tooth; Europe.....subg. *Trichosphaerula* Fleisch.

I<sup>2</sup>. Outer apical angle of ♂ metatibia with a small tooth; all elytral striæ the same; Palearctic.

subg. *Oosphaerula* Ganglb.

F<sup>2</sup>. Pronotum completely margined at base; protibia with long spurs at apex, the outer edge strongly emarginate towards apex forming a lobe-like tooth at a distance of from one third to one half the distance from the apical end; Palaearctic .....**Chobautiella** Reitt.

E<sup>2</sup>. Antennal club four segmented; Nearctic, Cape of Good Hope.

**Anogdus** Lec.

E<sup>3</sup>. Antennal club three segmented.

F<sup>1</sup>. Elytra not transversely strigose; mesosternum not carinate; Cent. Europe .....**Xanthosphaera** Fairm.\*

F<sup>2</sup>. Elytra transversely strigose; mesosternum narrowly carinate; Cent. Africa .....**Hypoliodes** Port.

D<sup>2</sup>. Tarsi 5-4-4; elytra striate.

E<sup>1</sup>. Elytra not transversely strigose; antennal club five segmented with eighth segment narrower than seventh.

F<sup>1</sup>. Elytral striæ not impressed, except sutural, but represented by rows of punctures; New York.....**Cainosternum** Notman

F<sup>2</sup>. Elytral striæ obsolete except sutural; Sikkim, Java.

**Liocolenis** Port.\*\*



E<sup>2</sup>. Elytra transversely strigose.

F<sup>1</sup>. Eighth segment of antenna not smaller than seventh; antennal club six segmented.

G<sup>1</sup>. Elytra with punctate striæ; intervals punctate; Japan.

**Pseudocolenis** Port.

G<sup>2</sup>. Elytra without striæ other than sutural; Himalayas.

**Liodinella** Port.

F<sup>2</sup>. Eighth segment of antenna smaller than seventh; antennal club five segmented; Holarctic, Oriental, New Caledonia, Cent. Amer. (*Colensia* Fauv.—*Pseudoliodes* Port.—*Pseudocolenis* Champ. nec. Reitt.).....**Colenis** Er.

D<sup>3</sup>. Tarsi 4-4-5.

E<sup>1</sup>. Antennal club six segmented; Sikkim.....**Delios** Port.

E<sup>2</sup>. Antennal club three segmented; Siberia.....**Deltocnemis** Sahlbg.

D<sup>4</sup>. Tarsi 4-3-3; antennal club 5-segmented; Europe.

**Agaricophagus** Schm.

B<sup>2</sup>. Head with antennal groove beneath; except in *Cyrtusa* Er. the tibiæ with two longitudinal dorsal carinæ and the anterior tibiæ spinose; body more or less contractile.....**AGATHIDIINI**

C<sup>1</sup>. Head small; tempora short.

D<sup>1</sup>. Antennal club five segmented.

E<sup>1</sup>. Second segment of club not smaller than first; elytra without striæ; meso- and metatibiæ not spinose without; Japan.

**Sphaeroliodes** Port.

E<sup>2</sup>. Second segment of club smaller than first; meso- and metatibiæ spinose without.

F<sup>1</sup>. Tarsi 5-5-4 or 5-4-4.

G<sup>1</sup>. Elytra densely punctate; striæ present or absent; four proximal ♂ pro- and mesotarsomeres strongly dilated; tarsi 5-5-4 (♂), 5-4-4 (♀).

H<sup>1</sup>. Labrum truncate; clypeus with frontal suture; Holarctic, Tasmania, Argentina (*Leiodes* Schm., Er.—*Liodes* Lacord., Lec., Seidl., Horn, Leng, etc.).

**Anisotoma** Ill.

H<sup>2</sup>. Labrum arcuate; clypeus without frontal suture; Indiana.....**Stetholiodes** Fall.

G<sup>2</sup>. Elytra not or feebly punctate; striæ present or absent; ♂ protarsomeres feebly dilated; ♂ mesotarsomeres not dilated; tarsi 5-5-4-; Japan.....**Eucyrta** Port.

F<sup>2</sup>. Tarsi 4-4-3-; procoxacavæ open behind; Cent. Amer.

**Creagrophorus** Matth.

\* The mesotarsi are unknown and may require the association of this genus with *Cainosternum* Notman and *Liocolenis* Port.

\*\* Includes *Pseudocolenis lævipennis* Port., Java.



- D<sup>2</sup>. Antennal club four segmented.  
 E<sup>1</sup>. Antennæ eleven segmented; without striæ.  
 F<sup>1</sup>. Eyes not forming a sharp angle with tempora; Europe.  
**Liiodopria** Reitt.  
 F<sup>2</sup>. Eyes forming a sharp angle with tempora; Europe.  
**Amphicyllis** Er.  
 E<sup>2</sup>. Antennæ ten segmented; Cosmopolitan.....**Cyrtusa** Er.  
 D<sup>3</sup>. Antennal club three segmented.  
 E<sup>1</sup>. Antennæ eleven segmented; eyes forming a sharp angle with  
 tempora; Palaearctic.....**Cyrtoplastus** Reitt.  
 E<sup>2</sup>. Antennæ ten segmented.  
 F<sup>1</sup>. Mesocoxæ narrowly separated; Mich., D. C.  
**Isoplastus** Horn  
 F<sup>2</sup>. Mesocoxæ widely separated; Zanzibar.....**Isoplastinus** Port.  
 C<sup>2</sup>. Head larger; tempora longer.  
 D<sup>1</sup>. Eighth antennal segment scarcely narrower than seventh; tarsi  
 5-5-4 (♂), 5-4-4 or 4-4-4 (♀); antennal club three  
 segmented .....**Agathidium** Ill.  
 E<sup>1</sup>. Pronotum and elytra not evidently pubescent.  
 F<sup>1</sup>. Humeri obsolete; body completely contractile; Oriental, Hol-  
 arctic, Cent. Amer. (*Cyphocele* Thoms. 1862).  
subg. *Agathidium* s. str.  
 F<sup>2</sup>. Humeri evident, blunt; body incompletely contractile.  
 G<sup>1</sup>. Head behind eyes indistinctly narrowed; Palaearctic.  
subg. *Neocele* Gozis.  
 G<sup>2</sup>. Head behind eyes with evident tempora, thence narrowed;  
 Palaearctic. (*Agathidium* s. str. Thoms. 1862.—*Sacco-*  
*cele* Gozis.).....subg. *Cyphocele* Thoms.  
 E<sup>2</sup>. Dorsum evidently pubescent; Maritime Alps.  
subg. *Chaetocele* Deville  
 D<sup>2</sup>. Eighth antennal segment narrower than seventh; antennal club  
 five segmented.  
 E<sup>1</sup>. Tarsi 5-5-5 (♂); India.....**Agathodes** Port.  
 E<sup>2</sup>. Tarsi 5-4-4 (♂), 4-4-4 (♀); Caucasus.....**Ansibaris** Reitt.  
 E<sup>3</sup>. Tarsi 4-3-3 (♂), 3-3-3 (♀); N. Amer. (*Aglyptus* Lec.—  
*Aglyptonotus* Champ.).....**Aglyptinus** Cock.  
 A<sup>2</sup>. Without eyes; tarsi three segmented; antennæ with five segmented club  
 of which the second segment is smaller than the first; abdomen five  
 segmented; Neotropical .....**SCOTOCRYPTINI**  
 B<sup>1</sup>. Body oval or oval oblong.  
 C<sup>1</sup>. Elytra with pubescence in part erect; Peru.....**Synaristus** Port.  
 C<sup>2</sup>. Elytra glabrous, irregularly strigose; Guatemala.....**Parabystus** Port.  
 B<sup>2</sup>. Body subtriangular; elytra without sculpture, only with pruinose  
 pubescence.



- C<sup>1</sup>. Scutellum visible; tibia cylindrical; ♂ tarsi unmodified; Mexico to Brazil ..... **Scotocryptus** Girard.  
 C<sup>2</sup>. Scutellum very much reduced; tibia compressed; ♂ pro- and meso-tarsomeres dilated; Bolivia ..... **Scotocryptodes** Port.

## CLAMBIDÆ

- A<sup>1</sup>. Elytra margined at sides with distinct epipleuræ; coxal plates narrow; antennæ eleven segmented, club three segmented, moderately distant from eyes at base; abdomen seven segmented; Alaska.

**Empelus** Lec.\*

- A<sup>2</sup>. Elytra not margined at sides, without epipleuræ; coxal plates wide.

- B<sup>1</sup>. Head smaller and narrower than pronotum; pronotum with evident sides and posterior angles; antennæ close to eyes.

- C<sup>1</sup>. Antennæ ten segmented with two segmented club; head slightly narrower than pronotum; scutellum evident; Australasia, Oriental, Holarctic, Cent. Amer. .... **Clambus** Fisch.

- C<sup>2</sup>. Antennæ eight segmented with feebly indicated three segmented club; head much narrower than pronotum; scutellum very small; Europe, Syria ..... **Loricaster** Muls.\*\*

- B<sup>2</sup>. Head larger than pronotum and as broad; pronotum without sides and posterior angles; antennæ ten segmented with two segmented club; antennæ distant from eyes at base; dorsum densely pubescent; abdomen six segmented; S. Africa, Holarctic.

**Calyptomerus** Redtb.

KEY TO THE SPECIES OF *Colenis* ER.

The species of the genus *Colenis* Er. as delimited in the above key to genera may be defined as follows:

- A<sup>1</sup>. Elytral striæ distinct.

- B<sup>1</sup>. Head transversely strigose, at least at sides.

- C<sup>1</sup>. Pronotum transversely strigose.

- D<sup>1</sup>. Sutural stria entire.

- E<sup>1</sup>. Seventh antennal segment scarcely wider than eighth; length 1.7–2.2 mm.; Spain, France, Italy..... **bonnairei** Duv.

\* **Acribus** Waterhouse, Galapagos Is., is said to resemble *Clambus*. Antenna eleven segmented, club three segmented. The genus should be re-characterized by one having access to the type, which is probably in the British Museum.

\*\* **Clambidus** Fauv., New Caledonia, is said to resemble *Loricaster*. Body oval, strongly convex; head scarcely retracted in thorax, almost vertical, narrow; mandibles and eyes prominent; pronotum somewhat expanded laterad; scutellum large, pentagonal; elytra squarely truncate at base; sutural stria distinct from middle to apex.



- E<sup>2</sup>. Seventh antennal segment twice as wide as eighth; length 1.3–2 mm.; Europe, Caucasus ..... **immunda** Sturm.
- D<sup>2</sup>. Sutural stria obsolete in front of middle; length 1.25 mm.; Panama ..... **punctulata** Matth.
- C<sup>2</sup>. Pronotum not transversely strigose; sutural stria nearly attaining scutellum; length 1.25 mm.; Guatemala..... **crassicornis** Matth.
- B<sup>2</sup>. Head and pronotum not transversely strigose.
- C<sup>1</sup>. Elytral striæ regular, strongly punctate; intervals strongly punctate; length 2 mm.; Japan..... **grandis** Port.
- C<sup>2</sup>. Elytral striæ sinuous, minutely punctate; sutural stria confined to apical declivity; length 1–1.1 mm.; Guatemala.  
**phalacroides** Champ.
- A<sup>2</sup>. Elytral striæ indistinct, except the sutural.
- B<sup>1</sup>. Sutural stria entire; head and pronotum not transversely strigose.
- C<sup>1</sup>. Antennal club black.
- D<sup>1</sup>. Sutural stria deep at base.
- E<sup>1</sup>. Narrower, legs and antennæ shorter; the seventh antennal segment normal; length 2 mm.; W. Almora (India).  
**rastrata** Champ.
- E<sup>2</sup>. Broader, legs and antennæ longer; the seventh antennal segment dilated into a broad oblong plate; length 2.5 mm.; Naini Tal (India)..... **disparilis** Champ.
- D<sup>2</sup>. Sutural stria faint at base; length 2.25 mm.; Kashmir.  
**indica** Port.
- C<sup>2</sup>. Antennal club dusky; length 2 mm.; Japan..... **strigosula** Port.
- B<sup>2</sup>. Sutural stria obsolete in front of middle; pronotum not transversely strigose.
- C<sup>1</sup>. Head transversely strigose; length 1.5–2 mm.; Atlantic to Ill., Tenn., and Fla. .... **impunctata** Lec.\*
- C<sup>2</sup>. Head not transversely strigose.
- D<sup>1</sup>. Testaceous, antennal segments six to ten infusate; length 2.25 mm.; Nilgiri Hills (India) ..... **hemisphaerica** Champ.
- D<sup>2</sup>. Rufo-testaceous, antennal club infusate; length 1.5–1.8 mm.; W. Almora and Naini Tal (India)..... **estriata** Champ.
- D<sup>3</sup>. Piceous, with front, base of pronotum, segments one to four and eleven of antenna, legs, and usually a patch just behind the base of the elytra testaceous; length 2–2.25; Nilgiri Hills (India), Ceylon ..... **variicornis** Champ.

\* Apparently close to *impunctata* Lec. is **caledonica** Fauv. from New Caledonia. Length 1.5 mm.; without sculpture except for numerous fine closely placed transverse striae on the elytra, a sutural stria which is impressed on the declivity, and scarcely visible transverse striae on the front.



Hatch, Melville H. 1929. "The Genera and Subgenera of Leiodidæ and Clambidæ." *Journal of the New York Entomological Society* 37, 1–6.

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