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Note on the hucharists for the
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# NOTES ON THE EUCHARIDS FOUND IN THE UNITED STATES.

## By WM. H. ASHMEAD.

Since becoming better acquainted with that great complex the Hymenoptera, at present known to us under the family name Chalcididæ, I have gradually come to the conclusion that instead of a single family to deal with we have several distinct families.

Indeed, in many cases, these families are even more distinct and sharply separable than many other of the so-called families in this order; and, until these are properly separated and defined. I believe but little real progress can be made in our systematic knowledge of the Chalcidoidea.

It is not my intention now to go deeply into this subject, but to call attention to one group that I believe should be elevated to family rank, and to make some notes on the species found in the United States.

This group is the sub-family *Eucharina*. It is represented both in Europe and North America by but few species, although in warmer climes the species become quite numerous. In South America, Africa, Asia, and adjacent Isles, however, it is well represented, and by some forms that appear to be the most unique and wonderful to be found amongst the Hymenoptera.

I hope soon to be able to contribute a paper on their structure

and classification, and have here merely brought together a few of my notes relating to the species found in our fauna.

#### ORASEMA Cameron.

In this genus two specimens have been described, as follows: 1. O. violacea Ashm. Ent. Am., Vol. III (1888), p. 187. Hab.—Fla.

2. O. minuta Ashm., l. c. p. 188.

Hab.-Fla.

To these I now add a third species from California.

3. O. occidentalis sp. n.

Q.—Length, 2.5 mm. Dull bronzy green, closely, finely punctate, the head of a brighter metallic green; scape, trochanters, tips of femora, tibiæ and tarsi, pale brownish-yellow; flagellum black, the joints after the first quadrate; mandibles brownish. Thorax not very gibbous; the collar is not visible from above; the mesonotum trilobed, the furrows punctate, the lobes convex; scutellum rounded, elevated posteriorly and with a transverse furrow before the tip, while the metathorax slopes obliquely off posteriorly with lateral sulci. Wings hyaline with brownish nervures; the marginal nervure is long, two-thirds the length of the subcostal, the stigmal minute, the postmarginal developed. Abdomen æneous, the petiole thort, stout, finely rugose, one and a half times as long as thick, or as long the hind coxæ, and metallic green; body of abdomen subtriangular, sultate above at base.

Hab.—Los Angeles, Cal. Type in National Museum.

Described from a single specimen collected by A. Koebele.

## CHALCURA Kirby.

(1) C. gibbosa Prov.

Eucharis gibbosa Prov., Pet. Faune Ent. du Can. II, p. 591.

Hab.—Canada and United States.

This species was described by Provancher, from a female ecimen taken in Canada, but the discovery of the male shows at it does not properly belong to the genus *Eucharis* as now stricted, and that it must be relegated to *Chalcura*, the antennæ this sex being ramose.

Although rare, the species extends from Canada to Texas.

In the National Museum there is a second species closely allied, evidently distinct, that may be described as follows:

(2) C. californica sp. n.

tudinal grooved lines; face below antennæ transversely striate; scappedicel, and legs, except the coxæ, brownish-yellow; coxæ and flagelin black; femora obfuscated toward base. The flagellar joints after third are broken, but each of those present is furnished with a branlonger than the scape. Thorax high, gibbous, more elevated than in cyibbosa Prov.; the metathorax with a depression on each side. Winhyaline; the tegulæ and the base of the subcostal nervure brownish. A domen clavate, polished black; the petiole long and slender, as long the body of abdomen, and finely striate.

Hab. - Santa Cruz Mts., Cal.

Type in National Museum.

Described from a single specimen collected by A. Koebele.

## STILBULA Spinola.

(1) S. montana Ashm. Bull. No. 1, Col. Biol. Assoc. 1886, p. 24.

Hab.—West Cliff, Col.

Up to the present time the above species, collected by Mr. T. D. A. Cockerell, is the only species known in our fauna.

## METAGEA Kirby.

In this genus only a single species is known, M. zalake Walker, from Australia.

To this I now have the pleasure of adding a second specie collected by Mr. E. A. Schwarz in Maryland and the District of Columbia.

(2) M. schwarzii sp. n.

Hab. - District of Columbia and Maryland.

Types in Coll. Ashmead.

#### LOPHYROCERA Cameron.

L. nigromaculata Cam. Biol. Centr. Am. Hym., p. 104, 

ftd

single specimen of this species was recognized in the Collection of the American Entomological Society collected in Arizona, 🐉 an interesting addition to our fauna.

h) L. floridana Ashm. Ent. Am., vol. iii, p. 187. dab. - Florida.

he type of this species is in my collection, although the ional Museum contains a second specimen collected by Mr. A. Schwarz in Florida.

these I now add a third species collected by A. Koebele in Santa Cruz Mountains, in California.

k) L. apicalis sp. n.

final striæ; face below antennæ transversely striate; scape, pedicel, awo apical joints of antennæ brownish-yellow; legs, except coxæ, brownish-yellow; coxæ black; femora toward base dusky. The Illar joints, after the first, widen out toward the apex, the 5 or 6 ter-I joints being obliquely directed. Thorax very high, gibbous, the Illum terminating in two prongs that are scarcely one-third as long e scutellum, while the metathorax has a tooth like projection on side. Wings hyaline, the tegulæ and venation pale ferruginous or wish, the stigmal vein rather long, two-thirds the length of the postginal. Abdomen oblong, very slightly compressed, with the petiole erately stout, nearly as long as the hind femur and coarsely rugosoctate.

ab.—Santa Cruz Mountains, Cal.

pe in National Museum.

Described from a single specimen.

#### KAPALA Cameron.

) K. floridana Ashm. Thoracantha floridana Ashm., Ent. i, p. 96, ♂. Proc. Ent. Sec. Acad. Nat. Sc., Phila., 1885,

lab.—Florida.

he genus *Thoracantha* Latreille, as now restricted, will con-only *T. latreillei* Guér., and all the species described as such t now be relegated to other genera.

In floridana belongs to the above genus.
The opportunity is here taken advantage of to describe a Cuban cies in the Collection of the American Entomological Society, ich will probably be found to occur in South Florida.

It is closely allied to K. furcata Fabr., but presents some differences from my specimens of this South American species that I believe entitle it to a separate specific name.

K. terminalis sp. n.

G.—Length, 4 mm. Metallic bronze green; scape, pedicel, legs, except the menous or metallic coxm, and abdomen except the petiole and the second segment above, pale brownish-yellow; flagellum brown-black with 9 very long, nearly equal branches; from longitudinally striate, the face transversely striate. Thorax very high, transversely striate, the mesonotum and scutellum longitudinally striated; processes of the scutellum as long as the abdomen, purplish, finely longitudinally striate. Wings hyaline; the tegulæ and venation yellowish. The abdominal petiole is very long and slender, fully as long as a hind femur, blue-black and finely striate.

Hab.---Cuba.

Types in Coll. American Entomological Society.

Described from 4 badly broken specimens. Comes nearest to Kapala (Thoracantha) furcata Fabr., but of a brighter metallic color, the antennæ and the color of the abdomen being different.

In discussing this paper Mr. Howard asked concerning the exact evidence of the parasitism of certain of the Eucharidae upon ants. Mr. Ashmead replied that absolute observations had been made in Australia and had been recorded by Forel. The Eucharidæ issued from the pupæ of the ant. Mr. Howard stated that if such an observation had actually been made the matter must be considered as settled, but that he had previously doubted this parasitism for the reason that some of the Eucharida are almost too large to be ant parasites. He had suspected that they might be parasitic upon some inquilines in ants' nests. He mentioned the fact that in the collection of St. Vincent Chalcids sent to Prof. Riley from Cambridge University there is a specimen of Kapala furcata Fab., which bears in its jaws a medium-sized red ant. He also called attention to the fact that probably the firs. Eucharid exhibited in this country was shown to this Society at its second meeting, June 5, 1884.

Dr. Riley dissented from Mr. Ashmead's conclusion as to the family rank of this group, and expressed the opinion that it should still be retained as a sub-family of the Chalcididæ.

Professor Riley then presented the following paper: