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Proceedings of the Entomological Society of Philadelphia

Ezra Townsend Cresson

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PROCEEDINGS
OF THE
ENTOMOLOGICAL SOCIETY
OF PHILADELPHIA.

VOL. 2. OCTOBER — DECEMBER, 1863. No. 3.

STATED MEETING, OCTOBER 12.

President BLAND in the Chair.

DONATIONS TO CABINET.

67 COLEOPTERA (*Hydaticus bimarginatus*, *Philhydrus bifidus*, *Corymbites inflatus*, *Lichnanthe vulpina*, *Trichodes Nuttalli*, *Clytus marginicollis*, *Haltica splendida*, *Calopteron aulicum*, *Onthophagus limbatus*, *Pyrophorus rusticus*, *Lachnopus niveoirroratus*, *Pachnæus litus*),
8 HETEROPTERA (*Dysdercus Schlangenbuschii*), from John Akhurst, of Brooklyn, New York.

15 HETEROPTERA (*Pachycorus Fabricii*, *Sephina limbata*, *Pachylis laticornis*, *Dysdercus mimus*, *Lygæus unifasciatus*, *Lygæus costalis*, *Evagoras tricolor*, *Camptopus diversipes*, *Archimerus brunnicornis*, *Mictis triguttatus*, *Conorhinus dimidiatus*, *Metapodius declivis*), from Prof. S. S. Haldeman, of Columbia, Pa.

13 COLEOPTERA (*Cicindela ægyptiaca*, *Notiophilus semipunctatus*, *Carabus clathratus*, *C. convexus*, *C. excellus*, *C. Faminii*, *C. glabratus*, *C. Hemprichii*, *C. Hoppü*, *C. hortensis*, *C. maurus*, *C. Ulrichi*), from Aug. R. Grote of New York.

4 COLEOPTERA (*Elater collaris*, *Prionus lævigatus*, *Strangalia deleta*), 1 DIPTERA (*Xylophagus lugens*), from James Ridings.

1 COLEOPTERA (*Strangalia scalaris*), from Robert Frazer.

DONATIONS TO LIBRARY.

How to collect and observe Insects, by A. S. Packard, Jr. From the Author.

Proceedings of the Entomological Society of Philadelphia, June—September 1863. From the Publication Committee.

The following works were deposited by Dr. T. B. Wilson :—

A Manual of European Butterflies, on the plan of Stainton's Manual of British Butterflies and Moths. By W. F. Kirby. 1 Vol. 12mo.

Exotic Butterflies, by W. C. Hewitson. Part 47. 4to.

Wiener Entomologische Monatschrift. Bd. 7, Nr. 6—8. 8vo.

Revue et Magasin de Zoologie, par M. F. E. Guérin-Méneville. 1863. Nos. 5 & 6. 8vo.

The Zoologist for July, 1863. 8vo.

Die Familien der Blattwespen und Holzwespen, von Dr. Theodor Hartig. 1 Vol. 8vo.

Naturgeschichte der Insekten, von P. Fr. Bouché. 1 Vol. 8vo.

Entomographien. Von W. F. Erichson. 1 Vol. 8vo.

Narrative of a second voyage in search of the North-West Passage, by Sir John Ross, with Appendix. *Insects* by John Curtis. 2 Vols. 4to.

Die Myriapoden, von C. L. Koch. 2 Vols. Royal 8vo.

Description des Chrysides du Bassin du Léman, par Frédéric Chevrier. 1 Vol. 8vo.

Etudes Entomologiques, rédigées, par Victor de Motschulsky. Parts 1—10 in 2 Vols. 8vo.

Annales de la Société Entomologique de France, 4 série. Tome 3, 2 Trim. 8vo.

Stettiner Entomologische Zeitung, Jahr. 24, Nos. 7—9. 8vo.

Histoire Naturelle des Insectes Coléoptères (Suites à Buffon), Vol. 6 and Atlas, par M. Th. Lacordaire. 8vo.

Magazin der Entomologie, von Dr. E. F. Germar. 4 Vols. 8vo.

WRITTEN COMMUNICATIONS.

The following Communication was read from Mr. Cresson :—

"On the 11th of September, 1863, a nest of *Bombus Pensylvanicus* De Geer, was captured near Gloucester, New Jersey. It contained 6 females, 34 workers, and 21 specimens of *Apathus elatus* Fabr., all males. No males of *B. Pensylvanicus*

were found in the nest. Among the specimens of *Apathus clatus*, the variation was considerable; all had the black band between the wings, but some had the anus entirely black, some black tipped with fulvous or yellow, some entirely yellow and others entirely fulvous. This last variation is doubtless the *B. nidulans* of Fabr., and seems to confirm my supposition (Proc. Ent. Soc. Phil. ii, pp. 107 and 115), that it is an *Apathus* and a variety of *A. clatus*.

"On the 7th of October, 1863, a nest of *Bombus Virginicus* Oliv., was captured near Kaighn's Point, New Jersey. It contained 30 females, 38 workers and 34 males. No *Apathus* were found in the nest. All the females, excepting one specimen, were of the largest size; the workers were all small, varying from 5 to 8 lines long; the males were mostly 7 to 8 lines long, although one specimen measured only $4\frac{1}{2}$ lines. I could not perceive any tendency to vary in the coloration of the different sexes.

"In my paper on the N. American Bombs (Proc. Ent. Soc. Phila. ii, p. 90), I described a male specimen, named by Dr. Harris *Bombus impatiens*, as distinct from those which I took to be the males of *B. Virginicus*, expressing, however, a fear that I might have these two kinds of males mixed up. The capture of the nest of *B. Virginicus*, above noticed, seems to confirm my fears, as all the males found in the nest were precisely like those described by me as *B. impatiens* Harris. Those males which I described (ibid. p. 87) as belonging to *B. Virginicus*, are so different from those males found in the nest of that species, they cannot possibly belong to the same species. I am, therefore, disposed to separate from *B. Virginicus*, those specimens which I previously thought might be a variety of that species, and which differ by having the anterior portion of the second segment of the abdomen above, more or less clothed, especially in the middle, with rather short hairs, similar to those on the first segment, but generally shaded with brown. It may be named

"***Bombus separatus*, n. sp.**

"*Female*. Head entirely black. Thorax above and on the sides yellow, sometimes tawny-yellow, with a round patch of black on the disk between the wings. Scutellum yellow, sometimes tawny-yellow. Wings fusco-hyaline, apical margins fuscous, nervures black. Legs black, tarsi brownish, basal joint rufous within. Abdomen with the first segment above yellow, sometimes tawny-yellow, the hairs more dense and longer on the sides; anterior part of second segment in the middle more or less yellow or tawny-yellow, remainder of the abdomen black. Length 10—11 lines.

"*Worker*. Same as the female, except that almost the whole of the first and second segments of the abdomen above is brown, and the smaller size. Length 6 lines.

"*Male*. Described under *B. Virginicus* (ibid. p. 87.)

"*Hab.* Rock Island, Ill. (Walsh), Penn., Canada (Saunders), 4 ♀, 2 ♂, 6 ♂. Collection of the Entomological Society of Philadelphia.

"Differs from *B. Virginicus* as follows:—Body shorter and more compact; the hairs of the thorax are more dense and with the exception of the round spot of black hairs on the disk, there is no mixture of black between the wings which are broader, longer, and much darker than in *Virginicus*, the wings of

which are hyaline, faintly stained with fuscous. The second segment of the abdomen above has some short yellowish or yellowish-brown hairs in the middle of the anterior margin, and the hairs on the middle of the first segment are sometimes shaded with brown. In 110 specimens before me of *B. Virginicus* ♀, ♀ and ♂, there is not the least change in the color of the hairs on the first segment of the abdomen which are always yellowish-white, and there is no mixture of yellowish hairs on the second segment. The description of this species (ibid. p. 87) should be altered to read as follows:—

“*Bombus Virginicus*, Oliv.

“*Female*. Head black, clothed more or less with yellowish hairs above the antennæ. Thorax above and on the sides yellowish-white, somewhat mixed with black between the wings. Legs black, except the base of the femora beneath, which is sometimes slightly clothed with yellowish hairs; tarsi brown, basal joint rufous on the inner side. Abdomen with the first segment above yellowish-white, the hairs less dense in the middle of the segment; remaining segments black. Beneath black. Length 9—12 lines.

“*Worker*. Differs from the female only in size. Length 5—7 lines.

“*Male*. Colored like the female and worker, except that the face below the antennæ, the cheeks, vertex, femora and abdomen beneath more or less clothed with yellowish hairs, those on the face below the antennæ entirely yellowish. Length 4½—7 lines.

“To the list of synonyms of this species (ibid. p. 87), add *Bombus impatiens* Harris, Cat. Ins. Mass. 2d edit. Cresson, Proc. Ent. Soc. Phil. ii, p. 90 ♂.

“Since writing my remarks on the *Apis griseocollis* DeGeer, (ibid. p. 88), I am rather inclined to think that the males and workers described by him, belong, not only to two different species, but to different genera. His description of the worker is probably that of *Bombus Virginicus* Oliv., but his description of the male, seems to refer to the male of *Xylocopa Virginica*, — the ‘large’ size, ‘with large eyes which cover almost the whole of the head,’ the ‘yellow upper lip,’ and the ‘blue shade of the abdomen and legs,’ are conspicuous characters in the male of the latter species, but not in *B. Virginicus*, or any other species of *Bombus* known to me. It is probable that M. Acrelius may have captured males of *X. Virginica* in the vicinity of the nest where he found the worker of his *griseocollis*, and from the similarity of the coloration, he, as well as DeGeer, may have thought that they belonged to the same species.”

The following papers were presented for publication in the Proceedings:—

“Description of a supposed new species of *Saturnia*, from the Rocky Mountains, by Charles A. Blake.”

“On the North American species of the genus *Nomada*, by E. T. Cresson.”

And were referred to Committees.