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# The Canadian Entomologist.

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VOL. I.

TORONTO, JULY 15, 1869.

No. 12.

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## OUR NEW VOLUME.

Very nearly a year has now gone by since the CANADIAN ENTOMOLOGIST was ushered into existence, and it has at length safely arrived at the close of its first volume. Of infantile dimensions it has crawled along through the months of babyhood, at times putting forth a little more strength and marks of growth, until now it feels able to stand upon its feet and assert its intention of living and growing, even though it may but toddle along, for a little time longer. Of course with an increase of size, it will display an enlarged appetite, not only for scientific and literary contribution, but also for the baser, but by no means less essential, sustenance of dollars and cents. We have, therefore, to announce that the price of this publication will now be raised to ONE DOLLAR per annum, in advance; Members of the Entomological Society of Canada, will still receive their copies gratis; the number of pages will also be increased from eight to at least twelve, and if sufficiently encouraged to sixteen.

We take this opportunity of tendering our best thanks to our many friends and correspondents for the kind encouragement, both in word and deed, that they have afforded to what appeared a presumptuous undertaking, and we earnestly hope that they will continue their valuable assistance during the time to come.

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## ENTOMOLOGICAL NOTES.

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### DESCRIPTIONS OF FOUR NEW SPECIES OF CANADIAN HYMENOPTERA.

BY E. T. CRESSON, PHILADELPHIA, PA.

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#### GENUS EUCEROS, GRAV.

EUCEROS CANADENSIS, n. sp.—Female. Shining: head yellow, two spots behind antennæ, confluent with a mark on vertex covering ocelli and occiput, and tips of mandibles, black; antennæ black, palish at base beneath; thorax black, lateral margin of mesothorax in front of tegulæ, two lines on disk, a

spot on each side before scutellum, a broad V-shaped mark on scutellum, apex of metathorax, which has two black spots above, anterior margin of prothorax, a spot on each side of pleura, and the tegulæ, yellow; wings hyaline, dusky on apical margin; legs yellow, anterior coxæ in front, posterior coxæ, their femora except base and apex, and their tibiæ except base, black, their tarsi except tips, fuscous; abdomen yellow; a triangular mark on each side of first segment, a transverse mark on each side of second and third segments, dilated laterally, and the remaining segments, except medial spot at tip of fourth segment, and another on extreme tip of abdomen, blackish; venter entirely yellow.—Length,  $5\frac{1}{2}$  lines.

*Hab.*—Grimsby, Ont. Johnson Pettit, Esq., (Coll. Am. Ent. Soc.) One specimen.

*EUCEROS COUPERII*, n. sp.—Male. Shining; head yellow; extreme tips of mandibles, spot on vertex covering ocelli and occiput, black; antennæ fulvous, basal half fuscous within, scape black beneath, first eight joints of flagellum with a pale medial stripe, the dilated portion with a pale posterior margin; thorax black, two parallel stripes on disk of mesothorax, interrupted anteriorly, the lateral margin, broad in front, scutellum except sides and an acute mark at base, postscutellum, sides and apex of metathorax, pleura except a line beneath wings, and the tegulæ, yellow; wings hyaline, iridescent, apex fuliginous, legs yellow, posterior coxæ except tips and beneath, their femora except base and apex, and their tibiæ except base, black; abdomen ferruginous, basal segment yellowish, with a large triangular blackish mark on each side; remaining segments have each a small, lateral black spot.—Length,  $3\frac{1}{2}$  lines.

*Hab.*—Ottawa, Ont. (Coll. Wm. Couper, Esq.) One Specimen.

*EUCEROS BURRUS*, n. sp.—Female. Rufo-ferruginous, opaque; head black; orbits white, interrupted behind; spot on middle of face, clypeus and mandibles, pale fulvous; antennæ fulvous, scape blackish; prothorax, pleura beneath, and sutures of thorax, black; anterior and posterior margins of prothorax, and the tegulæ, white; legs entirely ferruginous, tarsi paler; wings hyaline, iridescent; abdomen shining at base and apex.—Length, 3 lines.

*Hab.*—Ottawa, Ont. Wm. Couper, Esq., (Coll. Am. Ent. Soc.) One specimen.

Of this interesting genus (in which the antennæ of the male are broadly dilated and much flattened about the middle), there are seven species known to me as occurring in North America. They may be recognized by the following characters:

Thorax black and yellow:

Abdomen above black, banded with yellow; posterior legs black and yellow,

1. CANADENSIS, female.

Abdomen above rufous, basal segment black on each side; posterior legs black and yellow. . . . . 2. *COUPERII*, male.

Abdomen above fulvous, varied with yellow; posterior legs fulvous and yellow, . . . . . 3. *THORACICUS*, male.

Thorax above rufous :

Abdomen entirely rufous; most of head and pleura beneath black; legs and antennæ fulvo ferruginous. . . . . 4. *BURRUS*, female.

Abdomen rufous, first three segments narrowly yellowish at tip; most of head, antennæ except tips, posterior tibiæ, and tarsi at base, and lateral sutures of abdomen, black. . . . . 5. *FRIGIDUS*, female.

Thorax above honey-yellow :

Abdomen above honey-yellow, with large medial, transverse, yellow spots; thorax vittate with yellow; antennæ fuscous, pale at base. . . . . 6. *MEDIALIS*, female.

Abdomen entirely pale honey-yellow; most of head and antennæ of female black. . . . . 7. *FLAVESCENS*, female, male.

Nos. 1, 2 and 4 are from Canada; 3 from Connecticut; 5 from Maine; 6 from Massachusetts; and 7 from Connecticut and West Virginia.

#### GENUS *MENISCUS* SCHIODTE.

*MENISCUS BETHUNEI*, n. sp.—Female. Shining black; orbits, face except central black ridge, clypeus, mandibles except tips, annulus on antennæ, hooked mark on each side of mesothorax, anteriorly, two short, nearly confluent lines on the disk, scutellum except central black line, three spots at base of mesothorax, a transverse line at tip and spot on each side, three spots on pleura, and triangular mark beneath just in front of middle coxæ, base of first, second and third abdominal segments and the venter, white; antennæ long and slender; wings hyaline, iridescent, apex faintly dusky; legs honey-yellow, coxæ paler beneath, posterior tibiæ black, base pale honey-yellow, extreme base of their tarsi black, remainder yellowish-white; claws pectinated; metathorax opaque; abdomen polished.—Length  $4\frac{1}{2}$  lines.

*Hab.*—Credit, Ont. Rev. C. J. S. Bethune. (Coll. Am. Ent. Soc.) One specimen.

#### NOTES ON THE LARVA OF *PYRAMEIS HUNTERA*, SMITH.

BY W. SAUNDERS, LONDON, ONT.

Several years ago my esteemed friend, Mr. D. W. Beadle, of St. Catharines sent me specimens of this larva, which he had taken feeding on some species of *Gnaphalium*. No description was then taken, and the larva was not met with again until the present season, when I found it on the G. W. R. R. track, a mile east of London, feeding on *Gnaphalium polycephalum*. It had drawn the leaves together, and fastened them into a rude case with silken threads. The larva during its growth had consumed portions of the inner surface of the

leaves, especially near their summit, and hence, here the foliage was crisp and blanched. These whitened portions of the leaves, together with the size of the case occupied by the larva when full grown, enables the collector readily to discover their places of retreat.

On the 21st of June, I took three of them, two small and one full-grown; each small one occupied the tip only of a leaf, the edges of which were drawn together and fastened with silken threads.

*Description of full-grown specimen*:—Length, 1.20 inches. Head, medium sized, bilobed, flat in front; black with a number of short, fine, pale brownish hairs.

Body above *alternately banded with rich, blackish purple, and yellowish green*. The purple bands occupy the middle portion of each segment, and on these arise transverse rows of black branching spines—none on second segment—four spines each on third, fourth, and terminal segments—seven on each of the others. *On each side of the dorsal line, from sixth to twelfth segments inclusive, is a round silvery white spot, set on the anterior edge of the purple bands.* The bands of yellowish green, which alternate with those of purple, are crossed by faint transverse lines of black—*anterior edge of second segment brown—posterior portion, yellowish green crossed with faint black lines; there is also a fringe of whitish brown hairs, arising from small black tubercles crossing this segment just beyond the middle.* Spiracles large, dark brown, encircled with white.

Under surface dull purplish brown, with many very small dots of yellowish green—feet, black—prolegs, purplish brown.

*Description of small specimen*:—Length, 0.25 in. Head, medium size, black and shining.

Body above, dull reddish brown, and glossy, spines black, as in full-grown larva. Under a magnifying power of 45 diameters, the white spots are very distinct, but are scarcely perceptible with an ordinary magnifying lens.

Under surface similar to upper—feet, black.

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## LIST OF COLEOPTERA,

TAKEN AT GRIMSBY, ONTARIO, BY J. PETTIT.

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### CICINDELIDÆ.

CICINDELA, <i>Linn</i>	Purpurea, <i>Oliv.</i>	Repanda, <i>Dej.</i>
Sexguttata, <i>Fab.</i>	Vulgaris, <i>Say.</i>	Punctulata, <i>Fab.</i>
Limbalis, <i>Klug.</i>	Duodecim-guttata, <i>Dej.</i>	

## CARABIDÆ

OMOPRON, <i>Latr.</i>	DYSCHIRIUS, <i>Bon.</i>	LEBIA, <i>Latr. (continued).</i>
Americanum, <i>Dej.</i>	Globulosus, <i>Putz.</i>	Axillaris, <i>Dej.</i>
ELAPHRUS, <i>Fabr.</i>	OLIVINA, <i>Latr.</i>	Fuscata, <i>Dej.</i>
Cicatricosus, <i>Lec.</i> 1	Rufescens, <i>Dej.</i> 5	DROMIUS, <i>Bon.</i>
Ruscarius, <i>Say.</i>	Cordata, <i>Putz.</i>	Piceus, <i>Dej.</i>
LORICERA, <i>Latr.</i>	SCHIZOGENIUS, <i>Putz.</i>	APRISTUS, <i>Chaud.</i>
*Neoscotica, <i>Lec.</i> 2	*Lineolatus, <i>Say.</i> 6	*Subsulcatus, <i>Chaud.</i>
NEBRIA, <i>Latr.</i>	BRACHINUS, <i>Web.</i> 7	METABLETUS, <i>Schmidt.</i>
Pallipes, <i>Say.</i>	*Americanus, <i>Lec.</i>	Americanus, <i>Schaum.</i>
NOTIOPHILUS, <i>Dumeril.</i>	Ballistarius, <i>Lec.</i>	BLECHRUS, <i>Motsch.</i>
*Semistriatus, <i>Say.</i>	Fumans, <i>Fab.</i>	*Linearis, <i>Schaum.</i>
Sibiricus, <i>Motsch.</i>	Cordicollis, <i>Dej.</i>	CYMINDIS, <i>Latr.</i>
CALOSOMA, <i>Fabr.</i>	GALERITA, <i>Fab.</i>	Reflexa, <i>Lec.</i>
Scrutator, <i>Fabr.</i>	Janus, <i>Fab.</i>	Pilosa, <i>Say.</i>
*Willcoxi, <i>Lec.</i>	CASNONIA, <i>Latr.</i>	Americana, <i>Dej.</i>
Frigidum, <i>Lec.</i> 3	Pensylvanica, <i>Dej.</i>	*Neglecta, <i>Hald.</i>
Calidum, <i>Fab.</i>	PLOCHIONUS, <i>Dej.</i>	AXINOPALPUS, <i>Lec.</i>
CARABUS, <i>Linn.</i>	*Timidus, <i>Hald.</i> 8	Biplagiatus, <i>Dej.</i>
Limbatus, <i>Say.</i>	LEBIA, <i>Latr.</i>	CALLIDA, <i>Dej.</i>
*Sylvosus, <i>Say.</i> 4	Atriventris, <i>Say.</i>	Punctata, <i>Lec.</i>
CYCHRUS, <i>Fab.</i>	*Viridipennis, <i>Dej.</i>	CALATHUS, <i>Bon.</i>
Lecontei, <i>Dej.</i>	Viridis, <i>Say.</i>	Gregarius, <i>Say.</i>
*Brevoorti, <i>Lec.</i>	Pumila, <i>Dej.</i>	*Opaculus, <i>Lec.</i>
	Scapularis, <i>Dej.</i>	Impunctata, <i>Say.</i>

(To be Continued.)

## MISCELLANEOUS NOTES.

CAPTURES.—On June 23, while walking on William Street, Toronto, I captured a fine specimen of *Parenthos nubilis*; not having a box I was compelled to imprison it in a roll of paper. Just as I got to Yonge street, out got my friend, and it was not until after a long and exciting chase that I finally

\* Species marked with an asterisk have not been before included in the list of Canadian Coleoptera.

1 Found under moss and bark of old logs in swamps.

2 A single specimen picked up on the shore of Lake Ontario.

3 Not uncommon on trees, where it feeds upon the canker-worm.

4 Taken in August and September under logs in open woods.

5 Under bark of old logs.

6 Occurs under stones at the margin of a creek.

7 The species of *Brachinus* are inserted with some diffidence, as Dr. Horn is now preparing a revision of the genus, and has a number of the writer's specimens under consideration.

8 Under bark of maples in winter.

secured it in a doorway, much to the astonishment of the surrounding public, who evidently thought me an escaped lunatic, and did not seem one whit the wiser when I informed them of the name of my prise. I also took recently a specimen of that pretty and rare beetle *Gnorimus maculosus*.—E. B. REED, London.

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LONDON BRANCH.—You will be glad, Mr. Editor, to learn that Entomology is still progressing with us, and that it has lately obtained a start in a fair and fresh field. The Head Master of Hellmuth College, the Rev. A. Sweatman, has procured a cabinet for the school, and is giving every encouragement to the boys to take an interest in the science; and a New York gentleman, Mr. Gordon, the father of one of the pupils, has very liberally offered two prizes for the best collection of specimens procured during the holidays, and to be presented to the College cabinet.—E. B. REED, London, Ont.

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#### BOOKS RECEIVED.

*The Lepidopterist's Guide*, intended for the use of the Young Collector, containing full instructions for the Collecting, Management, Observation, and Preservation of Lepidoptera, in all their stages. By H. Guard Knaggs, M D., F. L. S. London: Van Voorst, Paternoster Row, E.C. (Price, 1s. 6l. stg.)

We have, time and again, recommended our readers and correspondents to procure Dr. Packard's *Guide*, and we hope that most of them have invested in it by this time: we now advise such of them as collect Lepidoptera to lay out a little more of their hard cash in the purchase of Dr. Knaggs' *Guide*, for though both are 'guides,' and trustworthy ones too, they do not pull in opposite directions, but lead the faithful follower to a very fair knowledge of Entomology. The work before us, whose title we have given in full above, while modestly put forth as for the use of *young* collectors, is one from which very few old hands would not learn a good deal well worth knowing; it is, indeed, if not the best, at any rate one of the best, manuals of practical instruction in a particular branch of natural history that has ever been published. Full and clear instructions are given for first getting hold of and then looking after and taking care of Lepidoptera in every stage of their existence, from the new laid egg to the perfectly developed fly. From being a book of *instructions*, some may think that it must be a pretty dry sort of affair—like, for instance, the drill books at the Military School—but we can assure them that it is quite the reverse, being really most interesting and amusing; some parts of it would even entertain the only too numerous individuals who do not know a bug from a butterfly!

*Proceedings and Transactions of the Nova Scotian Institute of Natural Science.* Vol ii., part ii., 1867-8. Halifax, N. S. : W. Gossip.

We cannot but congratulate our Sister Province, far away by the sea, on its enterprising and valuable Institute of Natural Science, which, judging from its published transactions, and the interesting newspaper reports of its meetings, is doing a good and useful work. The volume before us, though certainly rather late in its appearance, contains many valuable and interesting papers on various branches of natural science, especially on the marine fauna and mineralogy of the country.

*Address to the members of the Tyneside Naturalists' Field Club.* By the President, the Rev. Angus Bethune, M. A., delivered at its 22nd Anniversary Meeting.

INDEX TO VOL. I.—We purpose issuing a title page and index to the first volume of the *Canadian Entomologist*, which this number completes, with our issue of next month, the first of the new volume.

*Hardwicke's Science Gossip.* London, Eng., June and July, 1869.

*Newman's Entomologist*, No. 66. From Mr. Reeks.

*Le Naturaliste Canadien* Quebec, No. 6, June, 1869.

*The American Agriculturist.* New York, July, 1869.

*The American Entomologist.* St. Louis, Mo., July, 1869.

*The Canada Farmer.* Toronto, June, 1869.

*The Maine Farmer.* Augusta, Me.

*The Weekly N. Y. Sun.* New York.

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#### DONATIONS.

We beg to acknowledge with grateful thanks the following donations to the Entomological Society of Canada :—

To the *Publication Fund*, the sum of two dollars from W. Saunders, Esq., London, Ont.

To the *Library*, ten octavo and six quarto pamphlets, from J. L. LeConte, Esq., M.D., Philadelphia, containing a large number of his valuable monographs and papers on Coleoptera, published in various scientific periodicals. A most useful and acceptable addition to the Library of the Society.

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#### TO CORRESPONDENTS.

SUBSCRIPTIONS RECEIVED.—To Vol. I., from J. M. C., Newport, Vt. (Your letter of April 16 did not reach us till June 17! Have sent back Nos. and ordered *Am. Ent.* for you.) To end of No. 9, Vol. II. from T. L. M., New York. To Vol. I., from Dr. W. W. B., per Studley & Co.



EXCHANGES.—The Rev. F. O. Morris, Nunburnholme Rectory, Hayton, York, Eng., writes that he sent in March last a box of British insects to Dr. Butterfield, of Indianapolis, Ind., per the Smithsonian Institution, but has since heard nothing further respecting them; he now desires to know whether Dr. B. ever received them or not, and if so, begs him to return the box full of American specimens, and he will send it back again with a fresh lot of British ones.

[We have recently been informed that Dr. B. has removed to Sancta-Clarion-Guadalupe, California, and probably has not received the specimens, as the Smithsonian Institution only makes distributions of packages at certain periods of the year.—ED. C. E.]

J. P. B. H., Boston, Mass.—Have written to the author for the information you desired.

F. W., Wanstead, Eng.—C. B. M., Lep Heteroc., parts xvi., xviii., and xix., received; very many thanks. The following are the new species described in Riley's First Report:—Lepidoptera, *Agrotis Cochranii*, *A. scandens*, *Penthia vitivorana*, Packard; *Aplodes rubivora*, *Pempelia grossularicæ*, Packard; *Anchylpera fragaricæ*, Walsh & Riley; *Gelechia gallæ-solidaginis*, *Pterophorus carduidactylus*; Coleoptera, *Madarus vitis*; Diptera, *Lydella doryphoræ*, *Pipiza radicum*, *Anthomyia zeas*; Homoptera, *Eriosoma ulmi*; Hymenoptera, *Eurytoma Bolteri*, *Hemiteles? Cressonii*, *Microgaster gelechia*.

#### EXCHANGE.

HEMIPTERA.—I should be glad to make exchanges with any one collecting Hemiptera—an order that has hitherto been much neglected in this country—or to give an equivalent in other orders for species from different parts of Canada.—JOHNSON PETTIT, Grimsby, Ont.

ENTOMOLOGICAL PINS.—The supply of pins has not yet arrived, but they are now on the way, and we expect them daily. We shall fill the orders we have received immediately upon their arrival. We cannot tell the exact price till we get the invoices.

TERMS OF SUBSCRIPTION to Vol. ii:—

To Members of the Entomological Society, gratis.

To Subscribers in Canada, \$1, post-paid.

To Subscribers in the United States, \$1.25 (in U. S. currency), free of Canadian postage.

To Subscribers in Great Britain, 5 shillings, post-paid.

Extra copies 10 cents each, \$1 per dozen

CLUB RATES.—Five copies for \$4; Ten copies for \$7.50.

The *Canadian Entomologist* (\$1), and the *American Entomologist* (\$1), for \$1.50 per volume.

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