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Vol. I.
TORONTO, DECEMBER 15, 1868.
No. 5.

## DESCRIPTIONS OF NEW CANADIAN ICHNEUMONID.E.

BY E. T. CRESSON, PHILADELPHIA, PA.

1. Banchus flavescens.-Male. Pale yellow; a bilobed mark behind antennæ, extending between them downward upon middle of face, band across vertex from eye to eye, covering ocelli, posterior margin of occiput, maxillary palpi, two apical joints of labial palpi, antennae above, stripe on middle of mesothorax, dilated anteriorly, a stripe on each si' $e$ over the wings, basal suture of scutellum, base of metathorax, broader laterally, spot on each side of pleura posteriorly, pnsterior coxae within, their femora beneath, apex of their tibiae, and a broad band at base of four basal segments of abdomen, black; antennae ionger than body, slender at tips; scutellum with an acute dusky spine; wings hynline, faintly yellowish, nervures brown, stigma and costa pale honey-yellow ; posterior coxae and femora stained with ferruginous; abdomen shining, short, apcx broad, truncate and compressed. Length five lines.
Hab.-Ottawa, C. W. (Mr. Billings.) Ooll. Am. Ent. Soc.
2. Banchus dorealis.-Male. Pale ferruginous, shining; orbits, clypeus, mandibles, palpi, and four anterior legs yellowish : stripe down middle of face, spot beneath eyes, two spots behind antennae, band across vertex from eye to eye, covering ocelli, posterior margin of occiput, three broad stripes, sometimes only one, on mesothorax, basal sutures of scutellum and metathorax, spot on pleura beneath, posterior roxae within and at base beneath, line on posterior femora beneath, and a sub-basal fascia, sometimes irregular, on second and following segments of abdomen ahove, becoming less distinct on apical segments, black; sometimes the pleura is black with a large ferruginous spot on each side ; posterior tibiae dusky at apex ; wings yellowishhyaline, subviolaceous, slightly dusky at apex, nervures brown, stigma and costa honey-yellow; antennae brown above; scutellum with an acute spine; metathorax rugulose, posterior angles prominent; abdomen smooth and shining, first segment with promineat stigmatic tubercles. Length $5 \frac{1}{2}$ lines. Hab.-Ottawa (Billings); London (Saunders). Coll. Aci. Ent. Soc.
3. Banchus canadensis.-Male and female. Ferruginous, dark on head and thorax ; face except central stripe, front except two black spots behind antennae, broad posterior orbits, line on collar, two lines on mesothorax dilated anteriorly, tegulae, line beneath, scutellum, spot on postscutellum, transverse subangular band on metathorax, spot on each side, elongate spot on pleura, four anterior coxae beneath, trochanters, spot on posterior coxae behind, four anterior femora in front, their tibiae and tarsi, basal half of posterior tibiae, base of their tarsi, and apical margin of abdominal segments, broadest on second and third, yellow; antennae blackizh, pale at base beneath; central dark stripe of mesothorax, sometimes black; scutellum with a short acute tubercle in male, scarcely visible in female; wings yellowish-hyaline, nervures brown, stigma and costa pale honey-yellow ; tips of posterior tibiae sometimes blackish ; abdomen polished, compressed at apex, which is truncate in male, pointed in female. Length $4 \frac{1}{2}-5$ lines. .
Hab.-Ottawa (Billingz); London (Saunders). Coll. Am. Ent. Soc.
4. Arotes amoenus. -Female, Black, shining ; face, orbits, broad behind, mouth, broad annulus on antennae. large mark on each side of prothorax, margins of mesothoracic lobes, tegulae, spot beneath, scutellum, large trilobed mark at tip of metathorax, a round spot on the flanks, large mark on each side of pleura, indented with black anteriorly, four anterior legs, spot on posterior coxae above and beneath, their trochanters, tips of their femora, basal third or half of their tibiae, their tarsi except claws, and a narrow apical fascia on all the abdomiual segments, pale yellow or yellowish-white; wings hyaline, the extreme apex fuscous, nervures black, second recurrent nervure not uniting with the transverse cubital nervure; four anterior femora black behind ; first abdominal segment with a prominent sub-basal tooth beneath; venter yellowish, the long acute ventral valve blackish; ovipositor longer than body, rufous, sheaths black. Length $6 \frac{1}{2}-7 \frac{1}{2}$ lines. Male of a brighter yellow; antennae longer than body, yellow, only its basal half above, black; posterior cozae yellow with a black line above and within, their femora black above, sxcept tips, sometimes only the extreme base of their tibiae are yellowish ; the abdominal fasciae are broader, and the basal segment has a central yellow stripe more or less abbreviated behind, and sometimes reduced to a sub-basal spot. Length $5 \frac{1}{2} 6 \frac{1}{2}$ lines.

IIab.-London (Saunders); Grimsby (Pettit). Coll. Am. Ent. Soc. This is a handsome and conspicuous species.
5. Arotes formosus.-Male. Differs from amoenus by the yellowish markings being much paler and less developed; the antennae are black at extreme apex both above and beueath, the sides of the thorax are almost entirely black ; the superior wings have a fuscous spot at extreme tip, and the
second recurrent nervure unites with the transverse cubital nervure, by which character it may be readily distinguished from amoenus. Length $5 \frac{1}{2}$ lines.

## Hab.-Ottawa (Billinge). Coll. Am. Ent. Soc.

6. Colbocentrus Petriti.-Female. Black, somewhat shining; wings yellowish-hyaline, nervures black, houev-yellow at base, areolet small, triangular, petiolated ; legs honey-yellow, coxae and posterior tibiae black, posterior tarsi yellow, dusky at base ; abdomen broad at apex, which is compressed and shining ; ovipositor as long as body. Length $6 \frac{1}{2}$ lines.

Hal.-Grimsby, C. W. (Pettit). Coll. Am. Ent. Soc. in this genus the last ventral segment is long and lanceolate, as in Arotes, but which has the areolet of anterior wings wanting.

This inne species is respectfully dedicated to Johnson Pettit, Esq., of Grimsby, to whom 1 am indebted for many specimens of Canadian Hymenoptera.
7. Rhyssa canadensis.-Fcmale. Black, shining ; anterior orbits, interrupted on each side of antennae, palpi and tegulae white; antennae brownish at tip and beneath ; mesothorax coarsely transversely rugose; metathorax with a broad, deep, longitudinal chaunel on the disk; wings hyaline, faintly stained with yellowish, nervures black, pale at base, as well as extreme base of stigma, areolet minute, petiolated, sometimes reduced to a mere point; legs bright honey-yellow, tips of all the tarsi, extieme tips of posterior femora, and base and apex of their tibiae, fuscous, middle of tibiae pale ; abuomen long, miuutely transversely aciculate; ovipositor longer than body, piceous, sheaths black. Length 7-8 lines.

Mal.- Quebec (Couper). Coll. Am. Ent. Soc. Mr. Couper informs me that this insect was found " boring into a pine tree."
s. Ephialtes macer. -Female. Slender, black, shining, with short, thin, glittering, cinereous pile; cheeks and sides of thorax polished; clypeus reddish ; palpi whitish ; metathorax with a shallow central channel ; tegulae, and sometimes a short line in front, whitish; wings hyaline, beautifully iridescent, nervures brown, areolet triangular ; legs honey-jellow, front cozae, except dusky spot in front, their trochanters, and apex of four posterior trochanters, whitish ; tips of posterior femora, their tibiae and tarisi more or less dusky, the tibiae more or less pale at middle and within, and sometimes the middle tibiae and tarsi are varied with dusky, the posterior coxae in one specimen are dusky behind; abdomen long, cylindrical, surface uneven, densely punctured and somewhat shining, subpubpscent, posterior margin of the segments unevenly transversely wrinkled, first segment shorter than second, the second to fifth one-third longer than wide; ovipositor twice, sometimes nearly four times longer tban body, very slender, rufous, sheaths
black. Length 45 lines; with ovipositor 11-19 lines. Male has antennae brown, pale beneath; legs paler than in female, the anterior coxae and trochanters white, posterior legs more or less obfuscated, base of their tibiae and of their tarsi white ; abdomen with first segment about as long as second, with two longitudinal ridges, most prominent at base. Length $2 \frac{1}{2}-3$ lines.
Hab.-Ottawa (Billings) ; London (Saunders). Coll. Am. Ent. Soc. This is the smallest and most slerder of our North American species.
9 Perithous pledralis.-Female. Black, shining ; anterior orbits. basal margin of clypeus, mandibles, palpi, scape beneath, tip of scutellum, spot beneath posterior wing, arched line on tip of metathorax, four anterior coxse, all the trochanters, anterior legs in tront, and posterior margin of abdominal segments, interrupted laterally by a dusky spot, white ; scutellum, pleura, sometimes the anterior portion of mesothorax, tibiae, and posterior coxae, honeyyellow; antennae brownish ; wings hyaline, iridescent, nervures brown, pale at base, as well as a spot at base of stigma; tibiae and tarsi whitish, tips of posterior femora, a line on outside of all the tibiae, encircling the apex of posterior pair, and tips of tarsal joints, blackish; segments of abdomen shining, with a lateral blister-like elevation on each, two basal segments with thick coarse punctures, remainder with sparse punctures; ovipositor longer than body. liength $4 \frac{1}{2} \cdot 6 \frac{1}{2}$ lines.

Hab. -Grimsby, C. W. (Pettit). Coll. Am. Ent. Soc. Closely resemoles the European $P$. mediator, but differs in the ornamentation of the legs.
10. Arenetra canadensis.-Male. Deep black, densely and coarsely punctured; head, thorax and base of lege, thickly clothed with short black pubescence, most dense on the head; antennae long, slender; wings hyaline, nervures black, areolet small, triangular, subpetiolate; apex of femora, the tibiae and tarsi dull testaceous, posterior pair pale fuscous; abdomen narrow, subdepressed, shining at tip, apical margin of third and following sesments with a very narrow pale fascia. Length 5 lines.

Hal.-London, C. W. (Saunders). Coll, Am. Ent. Soc. Very closely allied to A. nigrita, Walsh, which has the pubescence less dense, and whitish.
11. Lissonota rufipes.-Female. : lack, somewhat shining; legs rufous, the coxae, trochantera, and posterior tibiae and tarsi black ; middle tibiae and tarsi sometimes dusky; wings dusky hyaline, iridescent, nervures black, areolet small, petiolated; abdomen shining at tip; ovipositor longer than body; body densely punctured, most sparse on abdomen. Length $4 \frac{1}{2}$ lines.

Hab.-Grimsby, C. W. (Pettit). Coll. Am. Eut. Soc.
12. Lissonota frigida.-Female. Black; head and thorax densely punctured, opaque; abdomen shining, delicately punctured, polished at apex; wings dusky hyaline, iridescent, areolet triangular, not petiolated; legs, includ-
ing coxae, and abdomen except base of first and the two or three apical segments, rufo-ferruginous; four posterior trochanters and posterior tibiae and tarsi fuscous; ovipositor as long as body. Length 32 lines.

Hab.-Ottawa (Billings); London (Saunders). Coll. Am. Ent. Soc.
13. Lissonota brunnea. - Female. Entirely brownish ferruginous, subopaque, four anterior legs paler ; body covered with dense punctures; anterior orbits, mouth and tegulae, yellowish; wings yellowish-hyaline, neivures black, areolet small, petiolated; ovipositor as long as body, rufopiceous. Length 5-5 $\frac{1}{2}$ lines.

Hab.-Ottawa, C. W. (Billings). Coll. Am. Ent. Soc.
14. Xorides vittifrons.-Female. Black, shining ; anterior orbits, face except upper margin, spot on base of mandibles, palpi, liné on collar, lateral margin of mesothorax, spot on scutellum, another on post-scutellum, tegulae, and narrow fascia on apical margin of each segment of abdomen, abbreviated laterally on basal segments, white ; wings hyaline, nervures black; lega, including coxae, boney-yellow ; anterior pair and apot on base of posterior cozae above, yellowish; apex of posterior femora, their tibiae and the four posterior tarsi, fuscous; mesothorax transversely rugose, middle lobe very prominent ; metathorax rugulose, sub-pubescent; ovipositor as long as body, slender, reddish, sheaths black. Length 9 lines.

Hab.-London, C. W. (Saunders). Coll. Am. Fnt. Soc. The white spot on the face is more or less indented with black above, and sometimes completely divided longitudinally by a black line; the posterior lega, except coxae, are sometimes more or less obfuscated, with the extreme base of their tibiae pale.
15. Echthrus niger.--Fumale. Deep black, sub-opaque, mesothorax shining; tip of labrum, annulus on antennae, tegulae, and the dilated anterior tibiae in front, white; legs tinged with piceous; wings hyaline, faintly dusky at tips, nervures black ; metathorax rugose, elevated on the disk; ovipositor longer than body, reddish, sheaths black, whitish at tip within. Length $7 \frac{1}{2}$ lines. Male.-Smaller and very slender, shining ; antennae entirely black, nearly as long as the body; lateral margin of face, tip of labrum, spot on clypeus, spot beneath eyes, tegulae, tips of anterior femora, and a line on outside of all the tibiae, white. Length 6 lines.

Hab.-Ottawa, C. W. (Billings). Coll. Am. Ent. Soc. Very closely allied to the European E. reluctator, but readily distinguished by the white tegulae. -
16. Ecthrus abdominalis.-Female. Black, sub-opaque ; antennae with a broad whitish annulus ; wings hyaline, tinged with yellowish, nervures black, atigma reddish; palpi, legs and abdomen, rufous; tegulae reddish; ovipositor
as long as the body, reddish; metathorax as in the preceding species. Length 6 lines. Male.-Much slenderer than female, with lateral margin of face, scape of antennae beneath, and tegulae, pale ; antennae entirely black; posterior tibiae dusky, their tarsi pale; abdomen petiolated, long, thickened toward apex. Length $5 \frac{1}{2}$ lines.

Hab.-Ottawa, C. W. (Billings). Coll, Am, Ent. Soc.

## LUMINOUS LARVE.

We have received the following note from Baron Osten Sacken, of New York, on the subject of our larva : -
"A luminous larva is mentioned in your No. 4, p. 30. Is it not the larva of Melanactes, described and figured by me in the Pro. Ent. Society, Phil. 1862, p. 125, Tab. i. fig. 8, under the name of 'Unknown larvae?'
"At that time I was uncertain about the genus of the larvae, as well as about the fact of their being luminous. But in a notice which was published in the same proceedings subsequently I communicate the fact, that 1 found the same larva alive, that it is luminous, and that it probably belongs to the genus Melanactes.
"The latter article I cannot refer to now, as I have not the book at hand. But it may be found in the Proc. Ent. Soc. Phil., in owe of the years after 1862, in the form of a letter read at one of the meetings of the Society.

> "R. Osten Sacken"

The notice referred to we have found in the Pro. Ent. Soc. Phil., Vol. iv. No. 2, in the minutes of a meeting of the Society held on April 10, 1865 (p. 8). The Baron, after referring to his paper and figure in 1862, states that, "Last September Mr. J. Carson Brevoort was fortunate enough to find one of the large larvae near West Point, N. Y., under a stone. The specimen is three inches long, and belongs to the same species as that which I had figured. In the dark, this larva emits a soft green light, shining principally through the sides of the body and the venter; on the back it appears only in the intervals between the horny segments. The whole length of the larva being thus illuminated in the dark, when it moves briskly about, it is a most beautiful object. The larva is still alive, although I have little hopes that it will undergo its transformation in captivity. But l have not the slightest doubt now that it belongs to Melanactes, the more so as this genus, in Dr. LeConte's arrangement, is placed in the same subtribe (Corymbitini) with Pyrophorus. At the time when I first described this larva, all the large specimens which I possessed came from the South (Arizona, New Mexico, Louisiana), and I was not aware that such specimens could be found in the Middle States, and as the largest Melanactes occurs in the latter States, this made me doubt that the larva could belong to that genus. The discovery of
the larva in the State of New York removes this doubt. Since it is settled that the larva is an elaterideous one, its structure only gains in interest. As I have shown in my paper, it has more the character of the Lampyridae than of the Elateridue, and, remarkably enough, it has very little resemblance to the larva of Pyrophorus. The latter reproduces the common type of the Elateridae, and is very like the larva of Alaus."

Our larva, of which we gave a description in No. 1, p. 2 (this description had probably not come under the notice of Baron Osten Sacken when he wrote to us), corresponds very closely in structure and luminosity to the Melencuctes larva above referred to, and..we now believe, is a species of that genus. It chiefly differs from that described by Baron Osten Sacken in size, being only 1.50 in . in length, coloration, and in being less convex above. The friend who brought me the sperimen states that he had frequently seen these "glow-worms" before on his farm, so I trust some more will turn up. next year, and that I may have the good fortune to rear a specimen.

The larval exuvia sent us by Mr. Couper (vide No. 4, p. 29), is believed by Dr. LeConte to belong to Photinus borealis, Randall ; its luminosity has not yet been ascertained.

On the 3 rd of September, 186S, in the damp misty evening, we captured in a wooded valley close to a little stream, a larva whose anal segments were brilliantly and steadily luminous; a few weeks later we received a similar larva from Mr. James Angus, of West Farms, N. Y., which he found in a path on the night of the 15 th of October, being attracted to it by its light; a few days after he found another of the same species under a stone, which also emitted light when kept till evening. These specimens have been determined by Dr. LeConte to belong to the common Photuris penasylvanica, DeGeer; the larva and beetle are figured in the October number of the American Naturalist, p. 432.

We are very much obliged to our correspondents for the kind assistance they have given us in the investigation of this, to us, interesting subject.Ed. C. E.

## LONDON BRANCH, EN FOMOLOGICAL SOCIETY, CANADA.

## monthly meeting.

The regular monthly meeting of this Branch of the Society was held on Friday, October 20th, at $8 o^{\prime}$ clock, p. m., at the residence of Mr. Charles Chapman. Six members were present. The minutes having been read and signed, the Rev. R. H. Starr was duly elected a member.

Messrs. Saunders and Reed were appointed:a committee to confer with the Church of Eagland Young Men's Association, as to giving an Entomological Entertainment under the auspices of the Association.

The members expressed the great pleasure it gave them to welcome back to London their esteemed friend and former President, the Rev. G. MI Innes, who has been in Quebec for the last four years.

Mr. Saunders exhibited specimens of the Trea Cricket, Decanthus nirpus, with examples of their destructive work on raspberry canes, and the young wood of plum trees; this insect deposits its large eggs in a row in the centre of the twig or cane, and thus weakens it so as to cause it to break off from the weight of foliage in early spring.

A copy of the first two parts of Mr. E.iwards' excellent work on the Butterties of North America was also on the table, the plates of which were much admired.

## A MUSIOAL LARVA.

LY E. B. REED, LONDON, ONTARIO.

On September 10, 1868, during one of our regular Monday morning excursions, I captured on a beech tree, a short distance from London, a larva which I judged to belong to the Smerinthian genus. Its chief peculiarity, to which I wish to call attention, was its power of emitting a singing noise when hanaled or disturbed. The noise was similar to that produced by that pretty little begetle so common in our gardens, Lema trilineata. This is the only instance of a musical larva that I have met with, nor do I remember to have ever scer any mention in entomological books of a similar case. I should be glad to know, Mr. Editor, if yoü, or any of your correspondents, have ever noticed this musical power is any larva? or if you can explain the manner in which the noise is produced. My specimen was full grown, and in a couple of days duly passed into the pupa stage under the earth in a Hower-pot, which I duly deposited in my winter box that I keep buried in my garden, but to my great disappointment it shared the fate of most of the Smerinthian larvae I have ever attempted to rear, and although it survived the winter, it failed to reach maturity. I subjoin a description of this larva, as possibly some of your correspondents may recognise it.

Length $1 \frac{1}{2}$ inches. Bndy tapering anteriorly.
Head large, triangular; of a deep shining green color, with lateral yellow stripes, a reddish spot at the apex ; a paler green and granulated on the back of the head behind the stripes. Mandibles olack.

Body apple-green, thickly covered with small greenish-yellow granulations ; the anterior segments semi-transparent; on each side seven faint greenishyellow oblique stripes edged anteriorly with large granulations, the central atripes having a reddish tinge, the last stripe wider than the rest and terminating at the base of the caudal horn ; the latter at an angle of $20^{\circ}$, racurved backwards, purplish red and thickly granulated; the anal plate with
a central elongated black patch with a larger granulation on each side. Stigmata amall, round, and dull red.

Under surface slightly paler than the upper, with a darker central line.
Feet pale green, spotted with red ; prolegs greenish, semi-transparent.
Note by Ed. C. E.-This description corresponds very nearly to that of the larva of Smerinthus exccecatus, by Mr. Lintner (Pro. E. S. Phil. iii., p. 665). We have never ourselves met with any Lepidopterous larva that emitted sounds; the imago of Sesia thysbe is described by Dr. Gibb (Can. Nat. and Geol. 1859, p. 122) as giving forth a loud and most striking note, "something like the squeaking of a mouse or a bat," which he attributes to the action of the respiratory organs. The well-known European Death'sbead moth (Acherontia atropos) emits a somewhat similar noise, even before leaving the pupa case, as well as afterwards; Kirby \& Spence state further (letter xxiv.), that "its caterpillar, if disturbed at all, draws back rapidly, making at the same time a rather loud noise, which has been compared to the crack of an electric spark."

## MISCELLANEOUS NOTES.

Double Broods.-If others take as much pleasure in reading your little Journal as I do, possibly my mite of information may be acceptable. Mr. W. Saunders has asked a question, in the concluding part of his paper, No 2, for November, although I cannot give an answer, yet I believe I can throw a little light upou the subject. In the summer of 1865 I fed upon the potato the larva of Macrosila seleus, G. \& R. (Sphinx 5•maculata), which came out of the ehrysalis in August. I then made record of the fact which to our entomologists was new. The following year I also raised upon the potato Macrosila carolina, Clems., a pair of which came out in September. The same year I also raised from larva Hemileuca maia, Walk. (Saturnia maia, Harr.), part of the brood coming out in October, and one deformed specimen in the following May. Miss. O. Guild, of Walpole, Mass., a close and careful observer and a reliable naturalist, informs me that her experience with the last named species is, that of the same brood of larvae all going into the chrysalis nearly at the same time, part come out in October and others not until the following October, some lying in the chryaaiis one year longer than others. I have been puzzled to account for their seeming irregularities, but as instances of the fact increase, conclude it is a provision of nature that our lack of knowledge only makes it strange. In Mr. B. Billings' article in the same number of your paper he enquires if Melitoea phaeton may not be double brooded. Mr. Scuddor, in his list of butterflies of New England, says, "I have taken the caterpillar just ready to change, upon the barberry
in the middle of May; does the larva hibernate ?" He also savs, "it is very rare in Mass." (1863). I with many others had been in anxious search for this beautiful butterfly up to 1866 without success, except in the extreme southern part of the State; now all of a sudden in this year (1866) they were found in their special localities, low and swampy meadows, quite plentiful, and have continued still more plentifnl (from June 17 to July 8) to the present time. Dr. Harris collected in this vicinity from about 1825, and with a few exceptions never had met with it.

It is possible that in some instances they may be double bronded. but 1 have never met with it out of its special season.-Phillp S. Sprague, 141 Broadway, South Boston, Mass.

Occurrence of Deilephila lineata in England.-Tn the September and October numbers of the Entomologists' Monthly Magazine (London, Eng) there are numerors accounts of the capture of this handsome syhinx in various parts of England. Is this the same species as that taken in this country, or is it the European D. livornica, the D. lineata of Fabricius' later works, and of Stephens?

## EXCBANGES.

Colroptera.-I am desirous of exchanging Coleoptera, as Iam forming a collection of North American Coleoptera, and wish to get every species from every part of North America in which it may be found. If you can put me in the way of any Canadian collectors who wish to exchange, I should be very much obliged. I have at present a collection of about 2,000 species, mostly from New England, N. Y., Penn., D. C., and Mich.,-very few Northern or Western species, and am desirous of making arrangements to get such. E. P. Austran, Cambridge, Mass.

Hymenoptrra.-Mr. E. T. Cresson, of Philadelphia-whose valuable paper, contaiuing original, nitherto unpublished descriptions, of new Canadian species of this order, we print on a previous page-begs to inform the Entomologists of Canada that he will be glad to determine specimens of Canadian Hymenoptera for any one who will send a duplicate set, duly numbered to correspond with their cabinet specimens, to the care of Jobnson Pettit, Esq, Grimsby, Ont., who will forward them to him. He will debcribe all the new species thus received in the Canadian Entomologisl. There is a peculiar fauna in this country of which he would like to get a good collection so as to make the species known to science.

We trust that all our Canadian readers will send on what undetermined Hymenopiera they have, and make a point of collecting diligently in this interesting orciur next year.-Ed. C. E.

## NEW ENTOMOLOGICAL WORKS.

The Butterflies of North Anerica; with colored drawings and descriptions. By Wm. H. Edwards. Philadelphia: The American Entomological Society. Part 2, August, 1868. Price \$2.
The second part of this magnificent work, to which we have already drawn attention, is now before us. It contains five beautifully colored plates, and descriptive letter press; the species figured (none of which are Canadian) are Argynnis callippe, Boisd., taken in California; A. hesperis, Edw., from Colorado; Colias Alexandra, Edw., from Empire City, Colorado, "high up in the mountains, near the Snowy Range;' C. Helena, Edw., from Mackenzie's River; Ct. Christina, Edw., from Slave River; C. Behrii, Edw., from among the Yo Semite Mountains, California, at an elevation of about 10,000 feet above the sea; Apaturch Alicia, Edw. (new species), from New Orleans.

## BOOKS RECEIVED.

Proceedings of the Boston Society of Natural History. Taken from the Society's Hecords. Vol. xii., Oct. 7 and Nov. 4, 1868.
The Maine Farmer. Augusta, Me., Nov. 7, 14, 1868.
From Prof. Townend Glover, Washington, D. C., a series of his admirably executed plates on the cotton plant and the insects injuring it, and on Diptera, \&c., in all forty-three plates. A valuable addition to the, at present, small library of the Society; and for which we beg the author to accept our best thanks.

## TO CORRESPONDENTS.

Rev. L. P., Port Neuf, P. Q.-The following are all of your Coleoptera that we are able to letermine as yet; we shall endeavour to have the rest named for you shortly. (3) Oxytelus sculptus, Grav. (5) Hylastes pinifex, Fitch. (6) Hylastes? (7) Dinoderus substriatus, Payk. (9) Tacyporus jocosus, Say. (10) Dibolia aerca, Mels. (11) Paria 4 notata, Say. (12) Haltica? (14) Pterostichus lucublandus, Say. (15) we take to be an Amara, not a Pierostichus; the species of this genus are very difficult to determine; your specimen differs from all in our cabinet.
V. S. C., Covington, Ky.-Your letter was received after our article on "Iuminous Larvie" was in type. The specimen enclosed which, you say, when taken last June, was laminous, and had power to put out its fire at will, is the larva, we think, of a Photuris, but differsnt from any that we have. Your common fire-fly is, you state, Photinus centrato, Say; it is not taken in Canada, our commonest phosphorescent species being Photuris pennsylvanica, DeGeer. Stainton's "Manual," vol. ii. (London, Van Voorst, 1859, price 10s.), contains a synopsis of the genera and species of British Micro-Lepidoptera; his "Entomolo-
gist's Companion" (Van Voorst, 3s.), is a manaal on: the Tineina: the most complete work is his "Natural History of the I'ineina" (Van Voorst, 12s. 6d. each vol.), which is published in annual volumes since $1 S \tilde{j} 6$. American species and genera are described by Dr. Clemens in the Pro. Acad. Nat. Sci. Phil. 1S59, pp. 256 and 317 ; 1860, pp. 4, 161, 203, 345, and 433; and also in the Pro. Ent. Soc. Phil. We do not know of any work on the Miero-Homoptera. We can supply you with the Cosk you require, but how shall we send it? The charges by express would be more than double its value for so small a quantity; by lost it would have to go at letter rates, as there is no Parcels l'ost between the two countries.

Sunscmirtions to vol. i. have been received from the following :-E P. A., Cambridge, Mass.; H.'F. B., Waterbury, Conn.; Miss E. R. C., Amherstbang, Ont. (per Mr. Need), and Dr. A. S. P., jun., Salem, Mass. (2 copies, for the library of Bowdoin Coll., Brunswick, Me., and the Portland Soc. Nat. Bistory).

Leitrers Received.-E. T. C, Philad. (3. Many thanke); Prot. T. G., Washington, D. C.; 1)r. J. L. LeC., Philada.; S. H. S., Boston, Mass.; Dr. (i. H. H., Philada.; 13. 1). W., Fock Island, Ill.; T. R., Montreal (with 1. O. O.); J. A., West Furms, N. Y. (the box has not yet arrived, but we have caused the express agents to make enquiries respecting it).

Sueet Cork. - We have now on hand a large supply of sheet cork, imported from the English manufacturer. Ordinary thickness for cabinets, 16 cents per square fnot; extra thick for travelling boxes, 24 cents do. The former can be sent to any place in Canada by parcels post at the rate of $12 \frac{1}{2}$ cents per 6 feet; the latter 121 cents per 3 feet.

Tife Canadian Entumolugist is publighed on the 1ith of each month by the Entomological Eucicty of Canada. In consequence of the new Postal Law, which Eequires pre-payment of all Pericuicals after January 1, 1S69, we are constrained to make a slight change in the rates of subscripticn, as follows:-
To memhers of the Socicty, gratie.
To non-members (in Canada) 56 cents per :ol., post-jaid; two copies to one address $\$ 1$.
To subscribers in the United States, 62 cents per volume, free of Canada postage. The ordinary $\mathbf{E}$. S. fractional currency may be sent.

To subscribers in Great Eritain, 3 shillings per volume, post-paii. The anount may be sent in stamps.
Extra copies 5 cents each, 50 cents per dozen.
The American Entomulugist ( El ) and the Canadian Entouolugist ( 30 cents), will be furnished, post paid, for one dollar and twenty-five cents ( $(1.25$ ) per annum.
N. B.-Correspondence is invited respecting the habits, localities, occurrence, icc. of inecets, as this journal is in:tended to be a medium for the recording of observations made in all farts cif the country, insects for identification uill be gladly attended to and returned when desired. Any contributions to the publication fund will be thankfully received and gratefully acknowledged.

All communications, renittances and exchanges should be aduressed to "Tur: Rev. C. J. S. bertuene, . redit, Ont., Canala."

