
PSYCHE.

CAMBRIDGE, MASS., JULY-SEPT. 1881.

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PROCEEDINGS OF SOCIETIES.

CAMBRIDGE ENTOMOLOGICAL CLUB.

14 JAN. 1881. — 73rd meeting. This being the seventh annual and the fourth annual corporate meeting, an election of officers for the year was held, with the following result: *President*, E: Laurens Mark; *Secretary and Treasurer*, B: Pickman Mann; *Librarian*, Clifford Chase Eaton; *Executive Committee*, The President, Secretary and Treasurer, *ex officio*, and S: Hubbard Scudder, E: Payson Austin and E: Burgess; *Editor of Psyche*, B: Pickman Mann.

Mr. W: Trelease, Prof. Selim Hobart Peabody, and Mr. J: Sterling Kingsley were elected members.

The retiring president, E: Burgess, made, in place of an annual address, some remarks upon the internal structure of the head of the cockroach and grasshopper, illustrated by original drawings, which he had prepared for the second report of the United States Entomological commission.

The death of Mr. Edwin C: Prentiss, the compositor upon the third volume of PSYCHE, who had so faithfully carried on his business connection with the publication, was announced. [See PSYCHE, Oct. 1880 (12 Feb. 1881), v. 3, p. 128.]

11 FEB. 1881.—74th meeting. The fourth annual report of the Secretary and Treasurer, dated as of the January meeting, was read.

Five members have been elected during the past year. The present number of resident members is sixteen and that of non-resident members fifty-nine, an increase of three. Of 107 persons elected members, 5 have died and 27 have retired from various other causes. Thirteen principal communications have been presented by five members. The second volume of PSYCHE, except the indices, has been completed and distributed. The deficit upon the account of the first volume of PSYCHE is now \$76.64, and that upon the second volume \$126.16, with considerable expenses still to be incurred, leaving out of account the cash advanced toward defraying the expenses of the second volume by one of the members of the Club.

Owing to the arrangement made for the publication of the third volume, the deficit does not appear upon the Treasurer's books.

The permanent publication fund amounts to \$173.05.

The report of the Librarian shows the library to be in good condition, containing 799 publications exclusive of separate volume numbers. The principal source of accession has been as usual, by gift from individuals and societies, the Club having no funds with which to buy books. A card catalog of the works in the library is nearly completed.

(To be continued.)

GOSSE'S OBSERVATIONS ON THE BUTTERFLIES OF NORTH AMERICA.

GOSSE, whose popular writings on English natural history are well known, spent several years in Canada, a year in Alabama, and some time in Jamaica. He has recorded his out-door observations in these places in three distinct books, all of them now very rare, and to many scarcely known. That upon Jamaica covered the birds only; the others were of a more miscellaneous character and were entitled "The Canadian naturalist; a series of conversations on the natural history of Lower Canada" (London, 1840. 12+372 p., 12°); and "Letters from Alabama, U. S., chiefly relating to natural history" (London, 1859. 12+306 p., 16°). His residence in Canada was fixed at Sherbrooke, a short

distance north of the Vermont line, where he seems to have lived two or three years, about 1837. In Alabama, to which he went from Canada, he lived as a teacher on a plantation at Pleasant Hill, a little south of Selma, near the centre of the state; and his letters from here were written to a journal called the *Home friend*, and afterwards collected in the volume mentioned. A large portion of both books is devoted to entomology, and they are full of original observations. The list given below may be considered an index to his notes upon the butterflies, showing the species discussed, with references to pages and wood-cuts, and a brief memorandum of the scope of his observations. The names are those employed by him (with his peculiarities of spelling), and when the species intended is not at once clear to one familiar with the synonymy of our butterflies, the correct name is added in brackets. The references following the letter **C** are to the Canadian naturalist, those following **A** to the Letters from Alabama.

Hipparchia andromacha. **C**, 246. Fig. upper surface of imago; habits.—**A**, 122. Gamesome habits.—272. Taken 25 Aug.

Hipparchia alope. **A**, 55. Fig. under surface of imago.—203. Descr. imago; habits.

Hipparchia transmontana [*Satyroides eurydice*]. **C**, 247. Appeared about 15 July; description; flight.

Hipparchia gemma. **A**, 121. Appeared about 12 June.

Hipparchia areolata. **A**, 121. Appeared about 12 June.

Hipparchia sosybius. **A**, 55. Fig. under surface of imago; habits; descr. imago.—272. Seen 25 Aug.

Hipparchia eurythris. **A**, 55. Fig. upper surface of imago; habits; descr. imago.

Hipparchia sp. [*alope* ♂?]. **A**, 203. Descr. imago; habits.

Danaus archippus. **C**, 262. Fig. under surface of imago; distribution; flight.—**A**, 78. Description.—185. Description of larva and pupa.—185-188. Metamorphoses of butterflies in general; chrysalis 8 days.

Limenitis arthemis. **C**, 220. Figs. larva,

pupa and under surface of imago.—221. Description of larva on elm; changes.—226. Butterfly from pupa about 1 July; description.—228. Seasons.—248. Sixteen seen together 5 July; growing scarce 15 July.—306. Seen 4 Sept.

Limenitis ursula. **A**, 123. Description; its resemblance to *arthemis*.—272. Seen 25 Aug.

Grafta c-aureum [*Polygonia interrogationis*]. **C**, 280. Larva on hop; pupa 11 days.—295. Pupa on grass.—323. Numerous 16 Oct., one that day from pupa.—334. Seen about 16 Oct.—**A**, 59. Seen 1 June.—272 (*interrogationis*). Seen 25 Aug.

Grafta c-album? [*Polygonia comma*]. **C**, 174. Taken about 22 May.—221. Larva on nettle.—226. Larva changed to pupa 1 July.—246. Butterfly appeared about 15 July, after 7 days in pupa.

Grafta progne? [*Polygonia faunus?*]. **C**, 96. Taken 15 April.—97. Brief description.—278. Reappeared about 16 Aug.

Grafta c-argenteum. **C**, 249. Larva on wild gooseberry; descr. of larva and pupa.—261. Pupa state 13 days.

Grafta sp. **C**, 84. Some species seen 12 April.—97. Five species distinguished.—305. Different species numerous 20 Sept.

Vanessa j-album. **C**, 96. Seen about 27 April.—97. Resemblance to English "tortoise shells."—247. Reappearance about 15 July; seasons.—323. Seen 16 Oct.

Vanessa fuscillata. **C**, 107. Common; found in Newfoundland; larva on nettle.—221. Larva on nettle.—226. Larva changed about 1 July.—248. A curious variety.

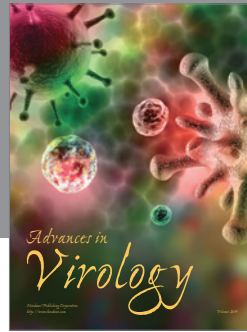
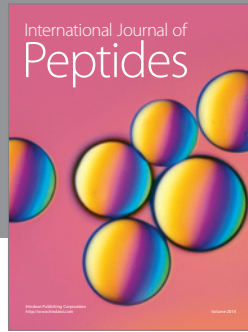
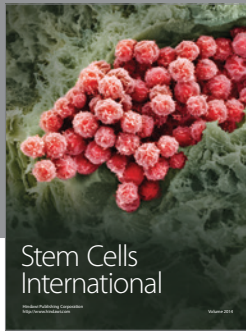
Vanessa antiopa. **C**, 96. Seen about 27 April.—97. Abundance.—261. Reappeared about 30 July.—294. Larva changing 1 Sept.—305. Numerous 20 Sept.—323. Seen 16 Oct.—334. Numerous about 16 Oct.—356. Pupa found 25 Dec. on wall of house.

Vanessa atalanta. **A**, 202. A great rarity here; found in Canada and Newfoundland.

Cynthia huntera. **A**, 78. Comparison with *C. cardui*.—148. Becoming common 1 July.—272. Taken 25 Aug.

Argynnis vanillae. **A**, 203. Appeared 12 July; description.—272. Taken 25 Aug.

- Argynnis columbina*. **A**, 148. Description; rare.—272. Taken 25 Aug.
- Argynnis cybele*. **C**, 261. Distinguished from *A. aphrodite*.
- Argynnis aphrodite?* **C**, 228. Common 1 July; description.
- Melitaea myrina*. **C**, 192. Appeared about 10 June; description; definition of "fritillaries"; seasons; habits.—290. Abundant on thistles, 1 Sept.
- Melitaea phaeton*. **C**, 227. Figs. butterfly; taken about 30 June; description.
- Melitaea tharos*. **C**, 219. Appeared about 20 June; description.—**A**, 59. Common.—272. Taken 25 Aug.
- Libythea motya*. **A**, 204. Description.
- Thecla mopsus*. **A**, 148. Description; common.
- Thecla hyperici*. **A**, 213 note. Probably identical with *Th. favonius*.
- Thecla poeas*. **A**, 52. Fig. upper surface of butterfly.—171. Description; habits; first seen 3 July.
- Thecla falacer*. **A**, 37. Habits and flight.
- Polyommatus lucia*. **C**, 123. Seen 10 May; flight and habits.—150. Female taken 20 May.—247. Does not hibernate.
- Polyommatus pseudargiolus*. **A**, 144. Description; pugnacious habits.
- Thecla comyntas*. **A**, 272. Taken 25 Aug.
- Lycaena phlaeas*. **C**, 219. Its beauty; appeared about 20 June.—221. Variety taken in September; eggs.
- Colias eubule*. **A**, 38. Flew to flower in hand.—212. Still plentiful on 1 Aug.—272. Taken 25 Aug.
- Colias coesonia*. **A**, 53. Description.
- Colias philodice*. **C**, 184. Appeared from 25 May to 1 June; seasons; description of white variety.—223. Congregates.—247. Butterfly does not hibernate.—262. Congregates.—323. Numerous 16 Oct.
- Colias diara* [*Nathalis iole?*]. **A**, 53. Description.
- Xanthidia delia*. **A**, 213. Recently appeared 1 Aug.—272. (*Colias*.) Taken 25 Aug.
- Xanthidia tucunda*. **A**, 212. Common in May and June, not yet disappeared 1 Aug.; description; distinction from *X. delia*; Boisduval's error about it.
- Colias nicippæ*. **A**, 53. Found in gardens.—272. Taken 25 Aug.
- Pontia oleracea*. **C**, 123. Seen 10 May.—247. Butterfly does not hibernate.
- Papilio philenor*. **A**, 77. Description; habits.—148. Becoming scarce 1 July.—272. Taken 25 Aug.
- Papilio troilus*. **A**, 78. Description; rare.—148. Becoming common 1 July.—272. Taken 25 Aug.
- Papilio turnus*. **C**, 183. Fig. under surface of butterfly; appeared 25 May—1 June; habits; distribution.—194. Abundant 10 June; habits.—195. Reared; imprisoned ♀ does not attract ♂.—223. Congregates.—261. Disappeared about 15 July.—293. Habits of caterpillar; food plants.—**A**, 122 (*glaucus*). Description; habits.—202 (*turnus*). Noticed.
- Papilio calchas*. **A**, 169. Description; becoming common 3 July.—272. Taken 25 Aug.
- Papilio thoas*. **A**, 170. Description; habits.
- Papilio ajax*. **A**, 51-53. Figs. larva, pupa and under surface of imago; description.—148. Nearly all gone 1 July.
- Papilio asterius*. **C**, 184. Found in Newfoundland and southern states; not met with in Canada. **A**, 78. Numerous; description.
- Eudamus tityrus*. **A**, 61. Flight.—85-87. Caterpillar; nest; cocoon; pupa 13 days; habits of butterfly.—272. Taken 25 Aug.
- Eudamus bathylius*. **A**, 272. Taken 25 Aug.
- Thymele brizo*. **C**, 184. Appeared 25 May—1 June; not common; flight.
- Hesperia catullus*. **A**, 204. Description.
- Hesperia orcus?* [*Hesperia tessellata*]. **A**, 272. Taken 25 Aug.
- Pamphila paniscus?* [*Heteropterus mandan*]. **C**, 219. One taken about 20 June.
- Hesperia phylaeus*. **A**, 204. Description.
- Pamphila peckius*. **C**, 193 (*Hesperia*). Appeared about 10 June; characteristics of skippers.—228 (*Pamphila*). Abundant 1 July.
- Pamphila otho?* **A**, 272. Taken 25 Aug.
- Pamphila cernes*. **C**, 228. Abundant 1 July.
- Pamphila* sp. **A**, 272. Taken 25 Aug.



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