

PROCEEDINGS OF THE CLUB.

The 263d meeting (also the Annual Meeting) of the Cambridge Entomological Club was held in the rooms of the Appalachian Mountain Club on Tuesday, January 15, 1907, at 7.45 p. m., with President Field in the chair and twelve members present.

Officers for 1907 were elected as follows: H. H. Newcomb, President; F. C. Bowditch, Treasurer; C. A. Frost, Secretary; A. C. Sampson and L. W. Swett, members at large of Executive Committee.

After the election of officers, the retiring President gave a very interesting address on the Mating of Saturniid Moths. The priority in emergence of the male imago was well illustrated by curves plotted from records of various species.

Mr. Frank A. Bates told of his observations on the Japanese moth, *Cnidocampa flavescens*, recently found abundantly in parts of Dorchester.

Meeting adjourned at the usual hour.

The 264th regular meeting was held in the rooms of the Appalachian Mountain Club on Tuesday, February 19, 1907, with President Newcomb in the chair and twelve members present. The President presented to the Club a gavel made from the stair-railing of Faneuil Hall, the wood being over two hundred years old. . . .

A drawing of an abnormal spider, sent in by Mr. Emerton, was shown. The specimen was taken at Long Island, Portland, Maine, and was a female *Drassus saccatus* with one male palpus.

The topic announced for discussion, Rare Insects of Eastern Massachusetts, was next taken up by President Newcomb who exhibited specimens of *Pieris proto-dice*, *Lepisesia flavofasciata*, *Citheronia sepulcralis*, *Terias lisa*, and as his rarest capture, *Pamphila ocola*, a southern skipper not recorded north of southern Pennsylvania. He took this insect in Milton in a secluded meadow not accessible to traffic. Mr. Sampson remarked that he had taken seven specimens of *Terias lisa* in Sharon in one season.

Mr. Rogers exhibited *Paonias astylus*, *Conservula anodonta*, *Euthyatira pudens*, *Feralia jocosa*, *Homoptera benesignata*, *Plusia balluca*, *Zeuzera pyrina*, *Euptoieta claudia*, and a bred specimen of *Laertias philenor*, all from Medford, Mass. *Zeuzera pyrina* was also reported from Jamaica Plain and Dorchester by Mr. Low and Mr. Lucas respectively. Mr. Frost reported the capture of a male of the same species in Medford on July 1, 1903, at light.

Mr. E. J. Smith sent in a long list of rare Lepidoptera which he had captured in Natick.

Mr. Johnson showed a box of rare Diptera, most of them from the southern part of Mass.

Mr. Frost exhibited a specimen of *Cicindela purpurea*, variety *audubonii*, a black form not recorded, so far as he knew, from New England or the eastern part of the U. S. It was taken in October, 1904, at Framingham, Mass., and was the only one in about five hundred specimens taken during that year. He showed a green form of *purpurea* approaching the western variety *graminea*, and a specimen of *C. scutellaris*, variety *unicolor*, an immaculate aberration taken among a large number of the variety *rugifrons* at Framingham, Mass. He also showed a specimen of *Prionus pocularis* from the same locality, and one of *Stromatium pubescens* taken at light in Bedford, Mass., by L. W. Swett.

The 256th regular meeting was held at the usual place on Tuesday evening, March 19, 1907, with President Newcomb in the chair and nine members and one visitor present

Mr. Johnson spoke of the summer meeting in Boston of the Entomological Society of America, and read a letter from Professor J. H. Comstock in regard to it. Suggestions for entertaining the Society were discussed by the members.

Mr. Field gave a very interesting talk on the subject of Experimental Entomology. He reviewed some of the recent literature of the subject, and exhibited a number of books. Mr. Field commented on the frequent use made of insects in the investigations of biologists, and the important contributions to entomology made by scientists who did not call themselves entomologists.

President Newcomb started a discussion of mimicry in insects, arguing that the oft-quoted mimicry of *Anosia plexippus* by *Limenitis archippus* is a fallacy. He had experimented by feeding plexippus to a golden robin and also to blue jays in captivity, and said that these birds had shown no hesitation about eating the insect. Several members expressed a doubt that the attacks of birds upon butterflies were sufficiently frequent to bring about such a case of mimicry.

Mr. Johnson exhibited a specimen of a wingless Tipulid, *Chionea valga* Harris, taken by Mr. Emerton on the snow at Jackson, N. H.¹

Mr. Sampson spoke of the tenacity of life of lepidopterous larvae under certain conditions. He had recently sent eggs of *Hemileuca maia* to Arizona, and they had hatched soon after arrival. Then they were returned, and having no food for them he placed them in a cold room, where the last one died at the end of three weeks. He also told of a larva of *Automeris budleyi* that had lived five weeks after the last moult without any food, and died without pupating.

¹ See Psyche, XIV, p. 41, April, 1907.

Meeting adjourned at the usual time.

A special meeting of the Club was held at the usual place and time Thursday evening, March 28, 1907. President Newcomb was in the chair and there were eleven members and four visitors present.

Mr. H. H. Lyman of Montreal, the guest of the Club, read a paper on *Thecla calanus* and *I. edwardsii*. He held the two to be distinct and well marked species and gave the bibliography, synonymy, and description of the two species. The chief difference between them, he said, was in the extra mesial band of the under side of the secondaries. He exhibited a series of each species and pointed out the differences to the members.

Dr. Fernald, State Entomologist, from Amherst College, was unexpectedly the guest of the Club and addressed the meeting upon several subjects. He told of some pupa-grafting experiments which were performed under his direction by a Japanese student at the College. Nearly all the pupae so treated lived and the imagoes emerged, but in a crippled or undeveloped condition. Dr. Fernald also told of the capture of an abnormal *Papilio turnus* at Orono, Maine, many years ago. It had normal fore wings but no hind wings and its flight was very peculiar.

A discussion of freezing of insects, and freak forms, followed among the members.

Mr. Emerton exhibited some bottles of Neuroptera from Three mile Island, Lake Winnepesaukee, N. H., which were named by Prof. Needham.

Mr. Field spoke of his experiments on selection of color by pupating larvae of *Vanessa antiopa* and gave some results of his work.

Adjourned at 9:50.

C. A. FROST, *Secretary.*



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