

BIBLIOGRAPHICAL RECORD.

Authors and Societies are requested to forward their works to the Editor at the earliest date possible. We ask our readers to inform us of the publication especially of those works which are not generally consulted by entomologists.

B. Pickman Mann,

(Continued from page 28.)

* 71. TOWNEND GLOVER. Manuscript notes from my Journal, or Illustrations of insects, Native and Foreign. Diptera or Two-winged flies. Washington D C. 1874. written by Townend Glover Transferred & printed, from stone by Jas. F. Gedney 4to. pg. III, plates I-XII, pl. A (each with a page of explanation), pg. 120, printed only on one side of the sheet. [Not published. Only 45 copies printed for gratuitous distribution.]

a. Introduction, p. I-III. b. Figures of about 340 imagos, 160 young, 30 habitations and numerous details of about 400 species, pl. I-XII. c. Anatomical details of 86 genera, pl. A. d. Arrangement of Families, p. 1. e. Alphabetical list of the Families and Genera of Diptera mentioned in this work, with Synonyms. Habitat, Food, etc., p. 2-59. f. Alphabetical List of Predaceous or Parasitic Diptera, the larvae or perfect flies of which destroy other Insects, p. 60-62. g. Alphabetical List of Vegetable & Animal Substances &c., inhabited, injured, or destroyed by Diptera, p. 63-78. h. Alphabetical List of Insects of other Orders either destroying Diptera or destroyed by them, p. 79-85. i. Alphabetical List of names of Authors, & of Authorities quoted, p. 86-89. j. Abbreviations used in this work, p. 90. k. Alphabetical List of some of the principal Genera &c. of Diptera with derivation of names, p. 91-93. l. Alphabetical list of the species of Diptera and other Orders. Fungi &c. with derivation of names, p. 94-100. m. Supplement. 1. Remedies, p. 101-111. n. Alphabetical list of Insects &c. mentioned in Report on Remedies, p. 112. o. Synoptical Tables [of divisions and families], p. 113-118. p. Definition of terms, p. 118. q. Addenda, p. 119-120. r. Notes, p. 120.

* 72. THOMAS BELT. The Naturalist in Nicaragua: A Narrative of a Residence at the Gold Mines of Chontales; Journeys in the Savannas and Forests. With Observations on Animals and Plants in reference to the Theory of Evolution of Living Forms. With map and [about 40] illustrations, London, Murray, 1874. 8vo. pg. xvi, 403.

Habits of many insects of all orders, especially *Eciton* and *Cecodoma* spp.; insects attacking and insects defending plants and animals; mutual adaptations of insects and plants; edible insects protected by mimicry and inedible ones by display; use of the secretions of Homoptera; instincts and

reasoning powers; migrations; characteristics of the Nicaraguan fauna; habitat of tropical animals during the glacial period; similarity of fresh water animals all over the world; natural and artificial selection; bearing of epidemics on the origin of species.

* 73. The *Annals and Magazine of Natural History*, ser. 4, vol. xiii, contain the following, and Nos. 74, 75.

a. Seudder's *On some recent remarks* [etc.] reprinted [see No. 4 of this Record], p. 186-188. b. Notice of Belt's *The Naturalist in Nicaragua* (1874) [Habits of *Oecoloma* and *Eciton* spp.; relations between insects and plants; mimicry], p. 246-249. c. Notice of Thomas' *Synopsis of the Acrididæ of North America* (1873) [Oviposition of *Caloptenus*; classification of Orthoptera; synoptical table of (2) subfamilies and (8) groups of Acrididæ; statistics of species], p. 322-324.

* 74. F. W. HUTTON. *The Geographical Relations of the New-Zealand Fauna*. pp. 91-94, 96-98, 100.

Genera of insects common to New Zealand and North America.

* 75. FREDERICK SMITH. A Revision of the genera *Epi-charis*, *Centris*, *Eulema*, and *Euglossa*, belonging to the family *Apidæ*, section *Scopolipedes*. pp. 318-322, 357-373, 440-446.

Describes each genus and 48 (30 new) species; enumerates 115 species, of which 28 (18 described, 15 new) are North American.

* 76. The *Transactions of the Entomological Society of London* for the year 1874, as far as p. 328, contain the following, and Nos. 77, 78.

a. Synonymy of some N. A. species of *Apatura* (by A. G. Butler), *Proc.*, p. iii. b. Migrations of *Doryphora decem-lineata* and means against it, *Proc.*, p. v.

* 77. H. W. BATES. Supplement to the *Longicorn Coleoptera of Chontales, Nicaragua*. p. 219-236.

Enumerates 37 (26 new) species of 29 (2 new) genera, making a total of 309 species; also describes two new species from South America and one from Jamaica. [See these *Transactions*, 1872, p. 163-238.]

* 78. F. SMITH. *Monograph of the Genus Xylocopa*, Latr. p. 247-302.

Treats of 123 (30 new) species, 18 (7 new) of which occur in N. A.

* 79. HERMAN STRECKER. *Lepidoptera, Rhopaloceres and Heteroceres, Indigenous and Exotic; with Descriptions and Colored Illustrations*. Nos. 1-11. Reading, Pa., 1872-1874. 4to. pg. 100, with 11 plates (i-xi), containing 179 figures.

Title; advertisement. 168 (32 new) N. A. and one exotic species described, and the following figured: 9 (1 new) *Papilio*, 3 *Pieris*, 1 *Colias*, 3

Anthocharis, 3 Melitaea, 1 Grapta, 1 Chionobas, 3 (1 new) Satyrus, 17 Lycaena, 9 (1 new) N. A. and 1 European Smerinthus, 1 new Platysamia, 44 (13 new) Catoxyla, including a Monograph of the 9 known N. A. species of Smerinthus, and a List of the 73 described N. A. species of Lycaena. Synonymic and other notes upon 22 species; position of Eudryas; notes on Anticosti Lepidoptera, on Polar Lepidoptera and on Northern Lepidoptera. [Exchange and purchase lists on the covers.]

* 80. The Entomologist's Monthly Magazine, vol. x, from p. 169, contains the following, and Nos. 81 to 84.

a. Synonymy of "Apatura Herse" and "Apatura Lycaon" (by A. G. Butler), pp. 216, 235. b. Notice of Strecker's Lepidoptera, Rhopaloceres and Heteroceres, Indigenous and Exotic, parts 1-6 (1872-1873), p. 233.

* 81. R. M'LACHLAN. Note concerning *Acanthaclisis americana* Drury. p. 210.

Probable discovery of the types of Drury's *Myrmeleon americanum* and *Libellula Titia*. *A. americana* = ? *A. fallax*.

* 82. R. M'LACHLAN. Notes on some Odonata, &c., in the Collection of the Royal Dublin Society. p. 227-228.

Georgia specimens from Abbot; specimens from Museum Leskeanum.

* 83. THOMAS E. BEAN. Occurrences of Diurnal Lepidoptera at Galena, Illinois, 1871-73. p. 248-251.

Calendar and food-plants in part of "44" [43] species enumerated.

* 84. H. W. BATES. New Species of Cicindelidæ. p. 261-269.

Describes 16 (5 Central American) n. spp.; enumerates 11 C. A. spp.

* 85. The Canadian Entomologist, vol. vi, as far as p. 120, contains the following, and Nos. 86 to 114.

a. Editorial, p. 1-2. b. Suggestion of a compromise in questions of nomenclature (by James Behrens), p. 18-19. c. Inquiries respecting *Agrotis fennica*; cyanide of potassium as a killing material (by Geo. Norman), p. 19. d. Petition for assistance (by G. R. Crotch), p. 20. e. Description of the larva of *Papilio brevicaula* (by W. H. Edwards), p. 20. f. Parasites (? *Pteromalus puparum*) in chrysalids of *Pieris rapae*; others in *Grapta progne* (by W. Couper), p. 37. g. *Colias philodice* var., *Limenitis ephestion* var.?; *Grapta comma*, *Cynthia cardui*, *C. atalanta* and second brood of *L. ephestion* at Portland (by H. H. L.), p. 38. h. Annual Meeting of the London Branch of the Entomological Society of Ontario [*Papilio thoas* and *Philampelus satellitia* (taken at Amherstburg)], p. 38-39. i. Obituary notice of Dr. F. E. Melsheimer (by J. L. LeConte), p. 39-40. j. Organization of the Montreal Branch Entom. Soc. Ontar., p. 59. k. Notice of Dr. S. V. Summers' projected Entomological Collecting Tour, pp. 59, 80. l. *Pieris rapae* at Dunn, Haldimand Co., Ont., (by F. C. L.), p. 60. m. *Vanessa*

C- ["G-"] *album* from N. W. coast of British America (by W. H. Edwards), p. 60. n. Notice of No. 1 of The Cincinnati Quarterly Journal of Science, p. 77; of vol. i, pts. 8 and 9 of Stretch's Illustr. Zyg. and Bomb. N. A. [see above, No. 42], p. 77-78; of Packard's Cat. Final. Cat., No. 2 [see above, No. 1], p. 78. o. Presentation of a testimonial gold medal to Mr. Riley, p. 78-79. p. Soot as a means of destroying the Phylloxera; supposed distinctness of the root-lice and leaf-lice, p. 79-80. q. Announcements; Notice of No. 4 of the Bull. Buff. Soc. Nat. Sci. [see above, Nos. 19-25], p. 98-100. r. Protective instinct of *Catocala relicta* (by R. Bunker), p. 100. s. Scudder's The Preservation of Caterpillars by Inflation, reprinted [see this Record, No. 59], p. 107-111, fig. 20-27. t. Annual Meeting of the Montreal Branch Entom. Soc. Ontar., p. 118. v *Dysarcus mediastina* not N. American, but Australian (by R. H. Stretch), p. 119. v. *Platysamia columbia* raised from cocoon at Montreal (by C. W. Pearson), p. 119. w. Notice of Lintner's Entom. Contr. No. II [see above, No. 26]; of Grote's List of the Noctuidae of N. A. (1874); of No. 1 of Psyche (1874); of Edwards' Butterflies of N. A., vol. ii, pt. 1 (1874), p. 120.

* 86. WM. SAUNDERS. On some of our Common Insects. 11. The Tiger Swallow Tail — *Papilio turnus*, Linn. p. 2-5, fig. 1-2.

Description of imago (fig.), egg, larva (fig.); habits.

* 87. T. G. GENTRY. The Use of Aphis-excretion and Benefit derived therefrom. p. 5-8.

Use of honey-dew as food for the young Aphides and to change ants from destroyers to protectors.

* 88. V. T. CHAMBERS. Micro-Lepidoptera (continued from vol. v.) pp. 8-11, 49-52, 72-77, 96-97.

Enumerates 14 (9 new) species of 10 (7 new) genera; habits of *Bupalis matutella*?, *Aeaea ostryaeda*.

* 89. FRANCIS WALKER. The Families of Diptera. p. 11-12.

Thoughts on fleas; synopsis of sub-families of Mycetophilidae.

* 90. A. R. GROTE. Notes on Noctuidae. p. 13-16.

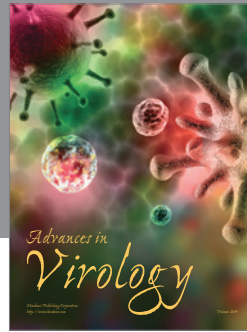
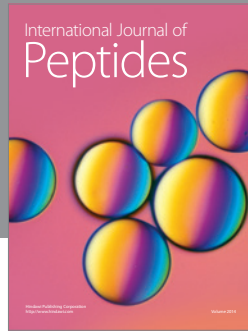
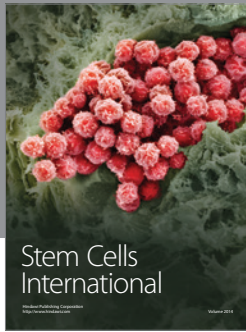
Enumerates 10 spp.; describes as new 1 *Agrotis*, 1 *Luperina*, 1 *Hadena*.

* 91. W. V. ANDREWS. Entomological Readings, Suggestive and Reflective. p. 16-17.

Indefiniteness of species; parthenogenesis of *Faeces imperialis*.

* 92. S. H. SCUDDER. The Food-plants of European Butterflies. p. 21-25 [continued p. 126-127.]

About 179 plants cited about 323 times as food of 101 butterflies.



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