

RECENT ENTOMOLOGICAL LITERATURE.

Asterisks indicate descriptions of new species of American insects, or of new genera.

PERIODICALS CITED.

2. Transactions, American Entomological Society, Philadelphia.
3. The American Naturalist, Boston.
4. The Canadian Entomologist, London, Ont.
5. Entomological News, Philadelphia.
6. Journal of the New York Entomological Society.
7. Bulletin of Division of Entomology, U. S. Dept. Agriculture.
10. Nature, London, Eng.
14. Proceedings, Zoological Society of London.
18. The Ottawa Naturalist.
38. Weiner Entomologische Zeitung.
65. La Feuille des Jeunes Naturalistes, Paris.
68. Science, New York City.
102. Proceedings, Entomological Society of Washington.
140. Biological Bulletin, Wood's Holl, Mass.
142. Invertebrata Pacifica, Havana.
143. Biometrika, Cambridge, Eng.
148. Bulletin, American Museum of Natural History, N. Y. City.
151. Quarterly Journal of Microscopical Science, London, Eng.
155. State College Bulletin, Pullman, Wash.
157. National Geographic Magazine, Washington, D. C.
158. Report, Bureau of Plant Industry, U. S. Dept. Agriculture.
159. Arkiv för Zoologi, Stockholm.
160. Popular Science Monthly, N. Y. City.
161. Transactions, Linnaean Society of London.

THE GENERAL SUBJECT.

Anon. The Reverend Jerome Schmitt [obit.], 5 Sept. **Banks, N.** Notes on the structure of the thorax and maxillae in insects, 102 vi, 149, pl. I. **P. P. C.** Robert McLachlan [obit.], 5 Sept. **Crampton, H. E.** (a) Variation and selection in Saturniid Lepidoptera, 140 May; (b) Experimental and statistical studies upon Lepidoptera: I. Variation and elimination in *Philosamia cynthia*, 143 Mar. and July. **Goury, G. et Guignon, J.** (a) Les insectes parasites des Renonculacées,

(fig.) 65 May; (b) Les insectes parasites des Berberidées, i, 65 Sept. **W. F. K. Robert McLachlan** (obit.) 10 June 2. **Kunze, R. E.** Protective resemblance, 5 Sept. **Shreve, F.** Some plants which entrap insects (ill.), 160 Sept. **Wesche, W.** The labial and maxillary palpi in Aptera, 161 ix, pt. 5.

See also Wickham under Coleoptera.

ECONOMIC ENTOMOLOGY.

Anon. The cotton boll weevil, 68 Oct. 7. The red ant versus the boll weevil, 157 June. **McCaw, W. D.** Walter Reed [Deals with mosquitoes in relation to yellow fever], 160 July.

See also Marlatt, under Hemiptera, and Cook and Wheeler, under Hymenoptera.

ARACHNIDA.

Lankester, E. R. The structure and classification of the Arachnida (reprint from Encyc. Britt., 10th ed.), 151 Sept. **Scheffer, T. H.** (a) Four new spiders from Kansas,* (b) The egg cocoon of the triangle spider, 5 Oct.

ODONATA.

Butler, H. The labium of the Odonata, 2 April. **Williamson, E. B.** (a) A new species of *Psolodesmus* from Formosa, 5 Sept.; (b) Additional dragonfly records for western Pennsylvania, 5 Oct.

NEUROPTERA.

Banks, N. Neuropteroid insects from New Mexico,* 2 April.

TRICHOPTERA.

Banks, N. Two new species of caddice-flies,* 102 vi, 140. [A new genus, *Glyphopsyche*, is described.] **Ulmer, G.** Ueber die von Herrn Prof. Yngve Sjostedt in Kamerun gesammelten Trichopteren,* 159 i, 411. [A new genus, *Protomacronema*, is described.]

ORTHOPTERA.

Caudell, A. N. (a) Some orthoptera taken at Moose Jaw, Assiniboia, 4 Aug. (b) On a collection of non-saltatorial orthoptera from Paraguay,* 6 xii, 179. [Two

new genera, *Paraleptynia* and *Ceraticus*, are described.] Rehn, J. A. G. (a) Notes on the orthoptera of the Keweenaw Bay region of Baraga co., Mich., 5 Sept., Oct.; (b) Two new species of North American *Stenopalmatinae*,* 5 Oct.

HEMIPTERA.

Heidemann, O. Notes on North American *Aradidae* with descriptions of two new species,* 102 vi, 161. Kirkaldy, G. W. Ueber Notonectiden, 38 vi, 93. Marlatt, C. L. The discovery of the native home of the San Jose scale in eastern China and the importation of its natural enemy, 160 Aug.

COLEOPTERA.

Aurivillius, C. Neue oder wenig bekannte Coleoptera Longicornia,* 159 i, 313. [The following new genera are described: *Coptoeme*, *Eugoides*, *Niphoparmena*, *Peritragus*, *Cyrtocris*.] Beyer, G. A few notes on *Brenthidae*, 6 xii, 168. Chittenden, F. H. (a) A species of the Tenebrionid genus *Latheticus* in the United States, 6 xii, 166; (b) On the species of *Sphenophorus* hitherto considered as *simplex* LeConte,* 102 vi, 127; (c) On the species of *Sphenophorus* hitherto considered as *placidus*, Say,* 102 vi, 130. Felsche, C. und d'Orbigny, H. Coprophagen der Ausbeute des Herrn Prof. Dr. Yngve Sjostedt,* 159 i, 399. [A new genus, *Pseudopedaria*, is proposed.] Hunter, W. D. and Hinds, W. E. The Mexican cotton boll weevil, 7 no. 45. Wickham, H. F. (a) Reduplication of the tarsus in *Hydrocharis*, 5 Sept.; (b) The influence of the mutations of the Pleistocene lakes upon the present distribution of *Cicindela*, 3 Sept.

DIPTERA.

Adams, C. F. Notes on and descriptions of North American Diptera,* 155 ii, 433. [26 new species are described and tables to the species of the following genera are given: *Xylophagus*, *Chrysopila*, *Leptis*, *Icterica*, *Urellia*, *Limosina*.] Aldrich, J. M. The genus *Psilopus* of authors, 4 Aug. Brimley, C. S. and Sherman, F., Jr. List of the *Tabanidae* (Horse-flies) of North Carolina, 5 Oct. Coquillett, D. W. (a) New Diptera from India and Australia, 102 vi, 137; (b) New North American Diptera,* 102 vi, 166. [Four new genera — *Bibiodes*, *Diactrodes*, *Metapogon* and *Sinobththalmus* — and 53 new species are described.] Dyar, H. G. (a) The larva of *Culex punctor* Kirby, with notes on an allied form, 6 xii, 169, pl. IX; (b) brief notes on mosquito larvae, 6 xii, 172. Dyar, H. G. and Knab, F. Diverse mosquito larvae that produce similar adults, 102 VI.

Eckel, L. The resin-gnat and three parasites, 140 May. **Felt, E. P.** and **Young, D. B.** Importance of isolated rearings from Culicid larvae, 68 Sept. 2. **Knab, F.** The epistomal appendages of mosquito larvae, 6 xii, 175, pl. X. **Ludlow, C. S.** Mosquito notes,* 4 Aug. **Osburn, R. C.** The Diptera of British Columbia, II, 4 Aug. **Portevin, G.** Contribution au catalogue des Diptères de Normandie, 65 July. **Villeneuve, Dr.** (a) Contribution au catalogue des Diptères de France, I, cont., 65 June, Aug. **Webster, F. M.** The so-called human flea, *Pulex irritans*, infesting the opossum, *Didelphys virginiana*, 4 Aug.

LEPIDOPTERA.

Barnes, W. New species of North American Lepidoptera,* 4 Aug. **Busck, A.** A new name for the Tineid genus, 6 xii, 177. [For *Brackenridgia* Busck, preoccupied, the name *Paraclemensia* is proposed.] **Druce, H.** Descriptions of some new species of butterflies belonging to the family *Erycinidae* from tropical South America,* 14 Aug. [2 pl. in color.] **Dyar, H. G.** (a) Two new forms of *Oeneis* Hubner,* 102 vi, 142; (b) two notes on Tineid moths, 6 xii, 178; (c) Notes on synonymy and larvae of *Pyralidae*,* 102 vi, 158. [A new genus, *Cacotherapia*, is described.] **Lathy, P. I.** A contribution towards the knowledge of the Lepidoptera-Rhopalocera of Dominica, B. W. I., 14 Aug. **Schaus, W.** New species of American Heterocera,* 2 April. **Taylor, G. W.** The *Geometridae* in The Moth Book, 4 Aug.

See also Crampton, under The General Subject.

HYMENOPTERA.

Ashmead, W. H. Descriptions of new Hymenoptera from Japan,* 6 XII, 146. [A new genus, *Cerapterocerooides*, is described.] **Brues, C. T.** A new species of *Ecitipora*,* 5 Sept. **Cameron, P.** New Hymenoptera mostly from Nicaragua,* 142 I, 46. **Cockerell, T. D. A.** Some little-known bees of the genus *Colletes*, 5 Oct. **Cook, O. F.** (a) An enemy of the cotton boll weevil, 158 no. 78; (b) Report on the habits of the kelep, or Guatemalan cotton boll weevil ant, 7 no. 49; (c) Pupation of the kelep ant, 68 Sept. 2. **Embleton, A. L.** On the anatomy and development of *Comys infelix* Embleton, a hymenopterous parasite of *Lecanium hemisphaericum*, 161 ix, pt. 5. **Fielde, A. M.** (a) On the artificial creation of mixed nests of ants; (b) Effects of light-rays on an ant, 140 May; (c) Observations on ants in their relation to temperature and submergence, 140 Aug.; (d) Portable ant-nests, 140 Sept. **Fullgren, A.** On some Hymenoptera Aculeata from the Cameroons, 159 i, 425. [A new genus, *Aeluroides*, is described and fig

ured.] Kieffer, J. J. (a) Descriptions of some new Hymenoptera from California and Nevada,* 142 I, 41; (b) Beschreibung neuer Proctotrypiden und Evaniiden,* 159 i, 525. [Among the new species described are 11 from Texas, 2 each from Wis., Ill., and N. J., and 1 from Nev. and Mex.] Picard, F. Note sur l'instinct du *Pompilus viaticus*, 65 May. Swenk, M. H. A new *Colletes*.* 5 Sept. Viereck, H. L. (a) Additions to Sphegoidea; (b) The North American cuckoo-wasps of the genus *Parnopes*,* 2 April; (c) A bee visitor of *Pontederia* (pickerel-weed),* 5 Sept. [n. g., *Conohalicoides*, n. sp.]; (d) The American genera of the bee family *Dufouroides*,* 5 Oct. [New genera, *Nechalictoides*, *Cryptohalictoides*.] Viereck, B. L. and Cockerell, T. D. A. The *Philanthidae* of New Mexico, II,* 6 xii, 129. [Tables of species are given and 19 new species are described.] Viereck, H. L. et al. Synopsis of bees of Oregon, Washington, British Columbia and Vancouver, III,* 4 Aug. Wheeler, W. M. (a) The ants of North Carolina, 148 xx, art. XXVI; (b) on the pupation of ants and the feasibility of establishing the Guatemalan kelep or cotton weevil ant in the United States, 68 Sept. 30.

See also Eckel, under Diptera.



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