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1910

David J. Hagg

Issued January 17, 1910.

Ent. U. S. DEPARTMENT OF AGRICULTURE,
BUREAU OF ENTOMOLOGY—BULLETIN No. 81.

L. O. HOWARD, Entomologist and Chief of Bureau.

A LIST OF
WORKS ON NORTH AMERICAN ENTOMOLOGY.

Compiled for the use of students and other workers as well as for
those about to begin the collection and study of insects.

BY

NATHAN BANKS,
Assistant.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1910.

BUREAU OF ENTOMOLOGY.

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LETTER OF TRANSMITTAL.

UNITED STATES DEPARTMENT OF AGRICULTURE,
BUREAU OF ENTOMOLOGY,
Washington, D. C., October 19, 1909.

SIR: I have the honor to transmit herewith a manuscript, by Mr. Nathan Banks, an assistant in this Bureau, entitled "A List of Works on North American Entomology." Similar lists, by Mr. E. A. Schwarz and Mr. Nathan Banks, were published in 1888 and 1900 as Bulletin No. 19, old series, and Bulletin No. 24, new series, of this office. Since 1900 the number of publications on North American insects has greatly increased, so that Bulletin No. 24 is now very much out of date and there is a great demand among economic entomologists, students, and other workers for a new bulletin covering the same subject. I therefore recommend the publication of this manuscript as Bulletin No. 81, of the Bureau of Entomology.

Respectfully,

L. O. HOWARD,
Entomologist and Chief of Bureau.

HON. JAMES WILSON,
Secretary of Agriculture.

CONTENTS.

	Page.
Introduction	7
Comprehensive works most useful for the study of North American insects...	7
Bibliography	9
Systematic works on single orders of insects:	
Hymenoptera	10
Diptera	27
Siphonaptera	40
Lepidoptera	40
Coleoptera	51
Strepsiptera	79
Hemiptera	79
Thysanoptera	90
Anoplura	90
Orthoptera	90
Neuroptera (including Pseudoneuroptera)	97
Mallophaga	101
Thysanura	102
Myriapoda	103
Arachnida	104
Works on economic entomology	110
Works on medical entomology	112
The more important periodicals cited in this bulletin	113
How to obtain entomological books and pamphlets	117

A LIST OF WORKS ON NORTH AMERICAN ENTOMOLOGY.

INTRODUCTION.

This list of works on North American insects is a revision of Bulletin No. 24 (new series), together with the additional titles that have been published since the issuance of that bulletin (1900). These additions are very extensive in some of the orders; indeed, in many families the recent literature has completely replaced all that before treated of the family in this country. The appearance of Wytsman's *Genera Insectorum* has added many papers of the greatest importance to the systematist. The widening importance of entomology has shown that almost any group hitherto of little economic value may suddenly become of great importance. Therefore it is useful to keep posted on all systematic work.

This list is intended to aid the student in such systematic study as is now a necessary qualification for economic work.

A new chapter has been added, namely, titles of value in medical entomology.

COMPREHENSIVE WORKS MOST USEFUL FOR THE STUDY OF NORTH AMERICAN INSECTS.

SAY, THOMAS.—Complete writings on the entomology of North America; edited by J. L. Le Conte. 2 vols. New York, 1859.

Principally descriptions of new species; contains a glossary to entomological terms. Now out of print.

COMSTOCK, J. H.—A manual for the study of insects. Ithaca, N. Y., 1895.

PACKARD, A. S.—Guide to the study of insects. New York. Many editions. (First edition, Salem, 1869.)

———A text-book of entomology. New York, 1898.

Anatomy and morphology.

KELLOGG, V. L.—American insects. New York, 1905, pp. 674, many figures. Second revised edition, American Nature Series, 1908.

FOLSOM, J. W.—Entomology, with special reference to its biological and economic aspects. Philadelphia, 1906, pp. 485, many figures.

HOWARD, L. O.—The insect book. New York, 1901, pp. 428, pls. 48.

- BANKS, N.—Directions for collecting and preserving insects. <Bul. 67, U. S. Nat. Mus., 1909, pp. 135.
- HYATT, A., and ARMS, J. M.—Insecta. No. VIII, Guides for science teaching. Boston, 1890.
- BURMEISTER, H. C. C.—Handbuch der Entomologie. Berlin, 1832–1855. 5 vols. I. Allgemeine Entomologie.
 The first volume treats of general entomology; Vol. II, part 1, of the Hemiptera; part 2, of Orthoptera; part 3, of Neuroptera; the remaining volumes of Coleoptera.
 The first volume has been translated by W. E. Shuckard, under the title, Manual of Entomology. 1 vol. London, 1836.
- WESTWOOD, J. O.—An introduction to the modern classification of insects, founded on the natural habits and corresponding organization of the different families. 2 vols. London, 1839–1840.
- KIRBY, W., and SPENCE, W.—An introduction to entomology. 4 vols. London, 1815–1826. Several later editions, some in two volumes.
- SHARP, D.—The Cambridge natural history; insects. 2 vols.: Vol. 1, 1895; vol. 2, 1899. London.
- KOLBE, H. J.—Einführung in die Kenntniss der Insekten. Berlin, 1893.
- KÜNCKEL D'HERCULAIS, J.—Les Insectes, les Myriopodes, et les Arachnides. Edition française, A. E. Brehm, Merveilles de la Nature. 2 vols. Paris, 1883.
- THE STANDARD NATURAL HISTORY.—Edited by J. S. Kingsley. Boston, 1884–1885.
 Volume II contains the insects, treated by the following authors: Hymenoptera, J. H. Comstock and L. O. Howard; Coleoptera, Geo. Dimmock; Lepidoptera, H. Edwards and C. H. Fernald; Diptera, S. W. Williston; Orthoptera, C. V. Riley; Hemiptera, P. R. Uhler; Neuroptera, A. S. Packard; Arachnida, J. H. Emerton.
- BIOLOGIA CENTRALI-AMERICANA.—Edited by T. Ducane Godman and Osbert Salvin. London, issued in parts. [Unfinished.]
 The different subjects, as far as published, may be secured by purchase from foreign book dealers.
- COWAN, F.—Curious facts in the history of insects. Philadelphia, 1865, pp. 396.
- COMSTOCK, J. H.—Insect Life. New York, 1897, pp. 349. New Edition, 1901.
- ISAAC, J.—Entomology in outline. <2nd Bien. Rep. Comm. Hort. Cal., f. 1905–1906, pp. 37–154, 1907.
- PACKARD, A. S.—Entomology for beginners. New York, 1892.

- HUNTER, S. J.—Elementary studies in insect life. Topeka, Kans., 1902.
- SMITH, J. B.—Explanation of terms used in entomology. Brooklyn Entomological Society, 1906.
- HANDLIRSCH, A.—Die fossilen Insekten, und die Phylogenie der rezenten Formen. Leipzig, 1908, 8 parts, many plates.

BIBLIOGRAPHY.

- HAGEN, H. A.—Bibliotheca entomologica. Die Litteratur über das ganze Gebiet der Entomologie bis zum Jahre 1862. Leipzig, 1862.
- TASCHENBERG, O.—Bibliotheca Zoologica. II, 1889; III, 1890. Leipzig.
- Dealing with the literature of entomology from 1861 to 1880; the first volume, under Carus and Engelmann, brought the subject down to 1861, duplicating Hagen's work.
- ZOOLOGICAL RECORD.—Published each year by the Zoological Society of London.
- BIBLIOGRAPHIA ZOOLOGICA.—Published in parts, in connection with the Zoologischer Anzeiger.
- SCUDDER, S. H.—Nomenclator zoologicus. <Bul. 22, U. S. Nat. Mus., 1882.
- Contains a universal index to the genera used in zoology down to 1880.
- WATERHOUSE, C. O.—Index zoologicus. London, 1902, pp. 421.
- Names of new genera from 1880 to 1900; thus a supplement to Scudder's work.
- CONCILIVM BIBLIOGRAPHICVM, ZURICH, SWITZERLAND, issues references on cards. One can purchase the cards on any particular group very cheaply.
- CURRENT LITERATURE is catalogued in several publications, notably Bulletin de la Société Entomologique de France, Zeitschrift für wissenschaftliche Insektenbiologie, Entomologische Litteraturblätter, and Zoologischer Anzeiger.
- HENSHAW, S.—Bibliography of American economic entomology. Parts I–V. <U. S. Dept. Agr., 1890–1896.
- Literature down to July 1, 1888.
- BANKS, N.—Bibliography of American Economic Entomology. Parts VI, VII, VIII. <U. S. Dept. Agr., 1898, 1901, 1905.
- Literature from June 30, 1888, to January 1, 1905.
- BIBLIOGRAPHY OF INSECTS OF THE WEST INDIES.—Report of Committee, Proceedings British Association for the Advancement of Science, 1888, pp. 1–28.

FAUNA ARCTICA.—Edited by Römer and Schaudinn, Jena. Entomological parts are: Collembola, by Schæffer, 1900; Lepidoptera, by Pagenstecher, 1901; Tenthredinidæ, by Kiaer, 1902; Hymenoptera, by Friese, 1902; Hemiptera, by Breddin, 1902; Acarida, by Tragardh, 1905; Araneæ, Opiliones, Chernetes, by Strand, 1906; Myriopoda, by Attems, 1906.

SYSTEMATIC WORKS ON SINGLE ORDERS OF INSECTS.

HYMENOPTERA.

I.—CATALOGUES.

CRESSON, E. T.—Catalogue of species and bibliography. Part 2 of Synopsis of the Hymenoptera of America, north of Mexico. Synopsis and catalogue. <Trans. Amer. Ent. Soc., Supplementary volume, 1887. Philadelphia, 1887.

DALLA TORRE, C. G. DE.—Catalogus Hymenopterorum. 10 vols. Leipzig, 1893–1900.

I, Tenthredinidæ; II, Cynipidæ; III, Ichneumonidæ, etc.; IV, Braconidæ; V, Chalcididæ and Proctotrupidæ; VI, Chrysididæ; VII, Formicidæ; VIII, Fossores; IX, Vespidae; X, Apidæ. Each volume can be purchased separately.

II. GENERAL WORKS ON CLASSIFICATION.

CRESSON, E. T.—Synopsis of the families and genera of the Hymenoptera, north of Mexico, together with a catalogue of the described species and bibliography. <Trans. Amer. Ent. Soc., supplementary volume, Part I, 1887.

The second part contains the Catalogue of Species and Bibliography.

LEPELETIER DE SAINT FARGEAU, COMPTE AMÉDÉE.—Histoire naturelle des insectes, Hyménoptères. 4 vols., Paris, 1836–1846, pls. 48. Fourth vol. by A. Brullé.

FOX, W. J.—A proposed classification of the fossorial Hymenoptera of North America. <Proc. Acad. Nat. Sci. Phila., 1894, pp. 292–307.

ASHMEAD, W. H.—Classification of the horntails and sawflies, or the suborder Phytophaga. <Can. Ent., 1898, pp. 142–148, 177–183, 205–213, 226–232, 249–257, 281–287.

——— Classification of the bees, or the superfamily Apoidea. <Trans. Amer. Ent. Soc., xxvi, pp. 49–100, 1899.

——— Superfamilies in the Hymenoptera and generic synopses of the families Thynnidæ, Myrmosidæ, and Mutillidæ. <Journ. N. Y. Ent. Soc., 1899, pp. 45–60.

ASHMEAD, W. H.—A classification of the entomophilous wasps, or the superfamily Sphegoidea. <Can. Ent., 1899, pp. 145–155, 161–174, 212–225, 238–251, 291–300, 322–330, 345–357.

——— Classification of the ichneumon flies, or the superfamily Ichneumonoidea. <Proc. U. S. Nat. Mus., xxiii, pp. 1–200, 1900.

——— Classification of the fossorial, predaceous, and parasitic wasps, or the superfamily Vespoidea. <Can. Ent., 1900, pp. 145–155, 185–188, 295–296; 1902, pp. 79–88, 131–137, 163–166, 203–210, 218–231, 268–273, 287–291; 1903, pp. 3–8, 39–44, 95–107, 155–158, 199–205, 303–310, 323–332; 1904, pp. 5–9.

——— Classification of the pointed-tailed wasps, or the superfamily Proctotrypoidea. <Journ. N. Y. Ent. Soc., 1902, pp. 240–247; 1903, pp. 28–35, 86–99.

——— Classification of the gall-wasps and the parasitic Cynipoids, or the superfamily Cynipoidea. <Psyche, 1903, pp. 7–13, 59–73, 140–155, 210–216.

——— Classification of the chalcid flies, or the superfamily Chalcidoidea. <Mem. Carnegie Mus., i, No. 4, pp. 531, pls. 9, 1904.

III.—MONOGRAPHS AND SYNOPSES.

TENTHREDINIDÆ AND UROCERIDÆ.

NORTON, E.—Catalogue of the described Tenthredinidæ and Uroceridæ of North America. <Trans. Amer. Ent. Soc., i, pp. 31–84, 193–280, 1867; ii, pp. 211–242, 321–367, 1868–1869.

Gives synoptic tables of genera and species of both families; the Uroceridæ are treated in Vol. II, pp. 349–367.

CRESSON, E. T.—Catalogue of the Tenthredinidæ and Uroceridæ of North America. <Trans. Amer. Ent. Soc., viii, pp. 53–68, 1880.

A synonymical reference list of the species; the Uroceridæ are treated on pp. 66–67.

CAMERON, P.—Monograph of the British Phytophagous Hymenoptera. 2 vols. London, 1882–1885.

Contains an arrangement of the subfamilies and genera of Tenthredinidæ, which has been reproduced by Cresson in his general work of classification.

KONOW, W. F.—Fam. Tenthredinidæ. <Gen. Ins., Fasc. 29, pp. 176, pls. 3, 1905.

——— Fam. Siricidæ. <Gen. Ins., Fasc. 28, pp. 14, pl. 1, 1905.

——— Fam. Lydidæ. <Gen. Ins., Fasc. 27, pp. 27, pl. 1, 1905.

MACGILLIVRAY, A. D.—A study of the wings of the Tenthredinoidea, a superfamily of Hymenoptera. <Proc. U. S. Nat. Mus., xxix, pp. 569–654, pls. 24, 1906.

Table to the subfamilies.

MARLATT, C. L.—Revision of the Nematinae of North America, a subfamily of leaf-feeding Hymenoptera of the family Tenthredinidae. <Tech. ser. 3, Div. Ent., U. S. Dept. Agr., pp. 135, 1896.

MACGILLIVRAY, A. D.—New species of Tenthredinidae. with table of species of Strongylogaster and Monoctenus. <Can. Ent., 1894, pp. 324–328.

——— The American species of Priophorus. <Can. Ent., 1906, pp. 305–307.

——— New species of Tenthredo. <Journ. N. Y. Ent. Soc., 1897, pp. 103–108.

Table of part of genus.

——— The American species of Perineura. <Can. Ent., 1895, pp. 7–8.

——— A new genus and some new species of Tenthredinidae. <Can. Ent., 1909, pp. 345–362.

Table of Caliroa.

HARRINGTON, W. H.—Canadian Hymenoptera, No. 4. <Can. Ent., 1894, pp. 193–196.

Table of Monophadnus and part of Tenthredo.

ROHWER, S. A.—The sawfly genus *Cryptocampus* in Boreal North America. <Journ. N. Y. Ent. Soc., 1909, pp. 7–25.

DYAR, H. G.—The larvæ of the North American sawflies. <Can. Ent., 1895, pp. 337–344.

——— On the larvæ of certain Nematinae and Blennocampinae, with description of new species. <Journ. N. Y. Ent. Soc., 1898, pp. 121–138.

Tables to *Periclista*, *Isodyctium*, the larvæ of Blennocampinae, and Ashmead's table to genera of Blennocampinae.

BRADLEY, C. J.—The North American Oryssidae. <Trans. Amer. Ent. Soc., xxvii, pp. 317–318, 1901.

CYNIPIDÆ.

OSTEN SACKEN, C. R.—On the Cynipidæ of the North American oaks and their galls. <Proc. Ent. Soc. Phila., i, pp. 47–72, 1861–1863; additions and corrections, l. c., pp. 241–259.

OSTEN SACKEN, C. R.—Contributions to the natural history of the Cynipidæ of the United States. <Proc. Ent. Soc. Phila., II, pp. 33-49, 1863-1864; IV, pp. 331-380, 1865; Trans. Amer. Ent. Soc., III, pp. 54-64, 1870-1871.

Continuation of the foregoing paper, both containing valuable contributions to the classification of genera and species.

WALSH, B. D.—On dimorphism in the Hymenopterous genus *Cynips*; with an appendix, containing hints for a new classification of Cynipidæ, including descriptions of several new species inhabiting the oak galls of Illinois. <Proc. Ent. Soc. Phila., II, pp. 443-500, 1863-1864.

MAYR, G.—Die Genera der gallenbewohnenden Cynipiden. <20ter Jahresbericht der Communal-Oberrealschule im I. Bezirk. Wein, 1881.

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———Synopsis of the North American subfamilies and genera of Cynipidæ. <Trans. Amer. Ent. Soc., XIII, pp. 59-64, 1886.

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ASHMEAD, W. H.—On the cynipidous galls of Florida, with descriptions of new species and synopses of the described species of North America. <Trans. Amer. Ent. Soc., XIV, pp. 125-158, 1887.

GILLETTE, C. P.—A monograph of the genus *Synergus*. <Trans. Amer. Ent. Soc., XXIII, pp. 85-100, 1896.

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———The species of *Biorhiza*, *Philonix*, and allied genera and their galls. <Bul. Amer. Mus. Nat. Hist., XXVI, pp. 243-256, 1909.

———Some North American Cynipidæ and their galls. <Bul. Amer. Mus. Nat. Hist., XXVI, pp. 277-281, 1909.

Treats of *Eumayria*, *Belonocnema*, *Solenozopheria*, and *Compsodryœnus*.

EVANIIDÆ.

SCHLETTERER, A.—Die Hymenopteren-Gruppe der Evaniiden. <Ann. k. k. Naturh. Hofmuseums, Wien, iv, pp. 107–180, 289–338, 373–546, 1889.

KIEFFER, J. J.—Fam. Evaniidæ. <Gen. Ins., Fasc. 2, pp. 13, pl. 1, 1902.

BRADLEY, C. J.—The Evaniidæ of America, north of Mexico. <Trans. Amer. Ent. Soc., xxviii, pp. 319–330, pl. 1, 1901.

Treats only of the Aulacinae.

———The Evaniidæ, ensign-flies; an archaic family of Hymenoptera. <Trans. Amer. Ent. Soc., xxxiv, pp. 101–194, pls. 11, 1908.

ICHNEUMONIDÆ.

FOERSTER, A.—Synopsis der Familien und Gattungen der Ichneumonen. <Verh. naturh. Ver. preuss. Rheinl. u. Westphal., xxv, pp. 135–221, 1868. Aachen.

BERTHOUMIEU, V.—Subfam. Ichneumoninae. <Gen. Ins., Fasc. 18, pp. 87, pls. 2, 1904.

SZEPLIGETI, V.—Fam. Ichneumonidae. Gruppe Ophioninae. <Gen. Ins., Fasc. 34, pp. 71, pls. 2, 1905.

SCHMIEDEKNECHT, O.—Subfam. Pimplinae. <Gen. Ins., Fasc. 62, pp. 120, pls. 2, 1907; Subfam. Cryptinae. <Gen. Ins., Fasc. 75, pp. 165, pls. 4, 1908.

NORTON, E.—Catalogue of our species of Ophion, Anomalon, Paniscus, and Campoplex. <Proc. Ent. Soc. Phila., i, pp. 357–368, 1863.

Synoptic arrangement of the North American genera and species of the subfamily Ophioninae.

CRESSON, E. T.—Descriptions of North American Hymenoptera in the collection of the Entomological Society of Philadelphia. <Proc. Ent. Soc. Phila., iii, pp. 131–196, 1864.

Consists chiefly of a synopsis of the North American species of the genus Ichneumon.

———A list of the Ichneumonidae of North America, with descriptions of new species. <Trans. Amer. Ent. Soc., i, pp. 289–312, 1867; ii, pp. 89–114, 1868–1869.

———Descriptions of new species belonging to the subfamily Pimplariae found in America, north of Mexico. <Trans. Amer. Ent. Soc., iii, pp. 143–172, 1870–1871.

Tabulates the genera Pimpla, Polysphincta, Glypta, Arenetra, Lampronota, Xylonomus, and Odontomerus, with a list of all species.

CRESSON, E. T.—Notes on the species belonging to the subfamily Ichneumonides found in America, north of Mexico. <Trans. Amer. Ent. Soc., vi, pp. 129–212, 1877.

A synopsis of the genera and species of the subfamily Ichneumoninae.

DAVIS, G. C.—A review of the Ichneumonid subfamily Tryphoninae. <Trans. Amer. Ent. Soc., xxiv, pp. 193–348, 1897.

——— A monograph of the tribe Bassini. <Trans. Amer. Ent. Soc., xxii, pp. 17–30, 1895.

——— Two new species of *Clistopyga*. <Ent. News, 1895, pp. 198–199.

Contains table of species.

ASHMEAD, W. H.—Descriptions of new Ichneumonidæ in the collection of the U. S. National Museum. <Proc. U. S. Nat. Mus., xii, pp. 387–451, 1900.

Tables of *Eristicus*, *Cryptus*, *Hemiteles*, *Orthopelma*, and *Limneria*.

FELT, E. P.—Synopsis of certain genera of the Ophionini. <19th Rep. N. Y. State Ent., Bul. 76, N. Y. State Mus., pp. 97–125, pls. 2, 1904.

BRADLEY, C. J.—The genus *Platylabus* Wesmael. <Can. Ent., 1903, pp. 275–283.

BRUES, C. T.—Descriptions of new ant-like and myrmecophilous Hymenoptera. <Trans. Amer. Ent. Soc., xxix, pp. 119–128, pl. 1, 1903.

Table of *Pezomachus*.

DAVIS, G. C.—A study of the genus *Meniscus*. <Can. Ent., 1894, pp. 321–324.

HARRINGTON, W. H.—Two new species of Canadian Pimplinae. <Can. Ent., 1891, pp. 132–134.

Tables to *Xorides* and *Xylonomus*.

——— Canadian Hymenoptera No. 2. <Can. Ent., 1893, pp. 29–32. Synopsis of *Coleocentrus* and *Ecthrus*.

HERTZOG, P. H.—A new *Euceros*. <Ent. News, 1909, pp. 245–246.

SCHMIEDEKNECHT, O.—*Opuscula Ichneumonologia*. Blankenburg im Thüringen.

Very useful in classification; 22 fascicles now issued.

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KIEFFER, J. J.—Fam. Stephanidæ. <Gen. Ins., Fasc. 77, pp. 10, pl. 1., 1909.

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CRESSON, E. T.—List of the North American species of the genus *Aleiodes*, Wesmael. <Trans. Amer. Ent. Soc., ii, pp. 377–382, 1868–1869.

- RILEY, C. V.—On North American Microgasters, with descriptions of new species. <Trans. St. Louis Acad. Sci., iv, No. 2, 1881.
- MARSHALL, T. A.—Monograph of the British Braconidæ. Part I. <Trans. Ent. Soc. London, 1885, pp. 1–280, pls. I–IV.
Marshall's classification is that reproduced by Cresson in his Synopsis.
- ASHMEAD, W. H.—Synopsis of the Hormiinae of North America. <Trans. Amer. Ent. Soc., xx, pp. 39–44, 1893.
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- SZÉPLIGETI, V.—Fam. Braconidæ. <Gen. Ins., Fasc. 22, a & b, pp. 253, pls. 3, 1904.
- ASHMEAD, W. H.—Descriptions of new Braconids bred by Prof. A. D. Hopkins. <Can. Ent., 1893, pp. 67–79.
Tables of species of *Spathius* and *Cænophanes*.
- Descriptions of new Braconidæ in the collection of the U. S. National Museum. <Proc. U. S. Nat. Mus., x, pp. 611–671, 1888.
Tables of *Aphidius* and *Lysiphlebus*.
- BRUES, C. T.—North American species of *Aphæreta*. <12th Rep. Ent. Minn., 1908, p. 196.

TRIGONALIDÆ.

- SCHULZ, A.—Fam. Trigonalidæ. <Gen. Ins., Fasc. 61, pp. 24, pls. 3, 1907.

See also paper by Melander and Brues under Chrysididæ.

CHALCIDIDÆ.

- FOERSTER, A.—Synoptische Uebersicht der Familien und Gattungen in den beiden Gruppen der Chalcididæ Spin. und Proctotrupii Latr. <Jahresber. d. höheren Bürgerschule in Aachen, 1856.
- CRESSON, E. T.—Synopsis of the North American species belonging to the genera *Leucospis*, *Smicra*, and *Chalcis*. <Trans. Amer. Ent. Soc., iv, pp. 29–60, 1872–1873.
- HOWARD, L. O.—Descriptions of North American Chalcididæ from the collections of the U. S. Department of Agriculture and of Dr. C. V. Riley, with biological notes [first paper], together with a list of the described North American species of the family. <Bul. 5, Div. Ent., U. S. Dept. Agr., Washington, 1885.
- A generic synopsis of the Hymenopterous family Chalcididæ. <Ent. Amer., i, pp. 197–199, 215–219; ii, pp. 33–38, 1885–1886.

- HOWARD, L. O.—Revision of the Aphelininæ of North America. <Tech. Ser. 1, Div. Ent., U. S. Dept. Agr., pp. 44, 1895.
- On the Bothriothoracine insects of the United States. <Proc. U. S. Nat. Mus., xvii, pp. 605–613, 1896.
- On some new parasitic insects of the subfamily Encyrtinæ. <Proc. U. S. Nat. Mus., xxi, pp. 231–248, 1898.
Revision of *Aphycus*.
- On the aphis-feeding species of *Aphelinus*. <Ent. News, 1908, pp. 365–367.
- On some American phytophagic Eurytominae. <Tech. Ser. 2, Div. Ent., U. S. Dept. Agr., 1896.
A synopsis of *Isosoma* and allies.
- ASHMEAD, W. H.—A revised generic table of the Chalcidinae. <Ent. Amer., 1888, pp. 87–88.
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HOW TO OBTAIN ENTOMOLOGICAL BOOKS AND PAMPHLETS.

Comparatively few of the works treating of the classification of North American insects have been published as separate books; but such as have been so published, if of recent date, can be obtained through the regular book trade. By far the greater number of the monographs and synopses mentioned in the preceding pages have been published in scientific periodicals and transactions of scientific societies. These periodicals and transactions can be obtained through the societies which publish them and through the publishers; but, in the case of transactions, single volumes, and more especially single papers, are seldom sold, and the older volumes are likely to be out of print. Moreover, the expense attending the purchase of all of the periodicals containing the publications on a given order of insects will be so great as to put them beyond the reach of most entomologists. The custom of placing at the disposal of authors a number of separate copies of their papers overcomes this difficulty to some extent and creates a small supply. Thus it often happens that a person interested can obtain a copy of a scientific paper by addressing the author personally. Many of these separate copies also get into the possession of dealers in second-hand books, and can be purchased from them. The American Entomological Society, Philadelphia, Pa., the Entomological Society of Washington, and a few other societies here and in Europe offer for sale from their duplicates many of these authors' extras, and in some cases publish lists. There are, moreover, certain business establishments which make a specialty of the sale of works and pamphlets on natural history, including entomology, and it is chiefly through these dealers that the student is enabled to secure the larger portion of the works. All of those publishing catalogues of entomological books and pamphlets are included in the following list:

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 Von Zahn & Jaensch, Waisenhausstrasse 10, Dresden, Germany.
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A not inconsiderable portion of the North American literature on the classification of insects has been published by the General Government through various channels, and foremost among them are the Smithsonian Institution, the U. S. Department of Agriculture, the U. S. National Museum, the U. S. Geological and Geographical Survey, and the reports of the various surveys of the Territories. Many of these publications are distributed free of cost to anyone applying for them; while others are sold at a moderate price to cover the cost of publication. Many of them are out of print, and can only be obtained through natural history book dealers.

The state reports of Lintner and Forbes may be obtained from the secretaries of the respective state agricultural societies at Albany, N. Y., and Springfield, Ill., while the reports of the entomologists of the state experiment stations can be obtained from the directors of the respective stations. The older reports of the state entomologist of Missouri and the state entomologists of Illinois (Walsh, Le Baron, and Thomas) are all out of print and can only be obtained by purchase from second-hand dealers. The same may be said of the well-known and often quoted reports of Fitch, which were published with the old volumes of the Transactions of the New York State Agricultural Society.

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INDEX.

	Page.		Page.
Acanthocoridae	82	Corylophidae	61
Acarina	108-110	Crabronidae	23
Acridiidae	95-97	Cryptophagidae	63
Acroceridae	35	Cucujidae	63
Aleyrodidae	88-89	Culicidae	29-30
Andrenidae	24-27	Cupesidae	69
Anoplura	90	Cydnidae	81
Anthicidae	76-77	Cynipidae	12-13
Anthomyiidae	38	Dascyllidae	65
Anthophila	24-27	Dealers in entomological books and pamphlets	117-118
Aphididae	87-88	Dermestidae	63
Apidae	24-27	Dexiidae	38
Arachnida	104-110	Dictynidae	105
Aradidae	82	Diptera	27-40
Aranear	105-107	Dolichopodidae	35
Arctiidae	44-45	Drassidae	105
Arthrogastra	107-108	Dysderidae	105
Ascalaphidae	100	Dytiscidae	57
Asilidae	33-34	Economic entomology	110-112
Attidae	106-107	Elateridae	66
Belostomatidae	83	Embiidae	97
Bembecidae	21	Emesidae	83
Bibliography of entomology	9-10	Empididae	35-36
Blattidae	92-93	Endomychidae	62
Blepharoceridae	30	Entomological books and pamphlets, how to obtain them	117-118
Bombycidae	45-46	Epeiridae	105-106
Bombyliidae	34-35	Ephemeridae	98
Braconidae	15-16	Ephydriidae	39-40
Brenthidae	79	Erotylidae	62
Bruchidae	74	Eumenidae	23
Buprestidae	67	Evaniidae	14
Byrrhidae	65	Forficulidae	92
Capsidae	83	Formicidae	19
Carabidae	56-57	Fulgoridae	86
Cecidomyiidae	29	Geometridae	48
Cephaloidae	75	Gryllidae	93-94
Cerambycidae	71-72	Gyrinidae	57-58
Cercopidae	86	Haliplidae	57
Chalcididae	16-18	Helomyzidae	39
Chernetidae	108	Hemerobiidae	100
Chironomidae	30	Hemiptera	79-90
Chrysididae	18-19	Heterocera	43-51
Chrysomelidae	72-74	Heteroceridae	65
Chrysopidae	100	Heteroptera	79-84
Cicadidae	84	Hippoboscidae	40
Cicindelidae	56	Histeridae	63-64
Cioidae	69	Homoptera	84-90
Cistelidae	75	Hydrophilidae	58
Cleridae	68	Hymenoptera	10-27
Coccidae	89-90	Ichneumonidae	14-15
Coccinellidae	61-62	Jassidae	84-85
Coleoptera	51-79	Lagriidae	75
Colydiidae	62-63	Lampyridae	67
Coniopterygidae	100	Larridae	21-22
Conopidae	36-37	Lathridiidae	64-65
Coreidae	81		
Corisidae	84		

	Page.		Page.
Lepidoptera	40-51	Psyllidæ	87
Leptidæ	33	Pterophoridae	49
Locustidæ	94-95	Ptinidæ	68-69
Lucanidæ	69	Pulicidæ	40
Lycosidæ	106	Pyralidæ	48-49
Lygæidæ	82	Pyrochroidæ	77
Malachlidæ	68	Pythidæ	75
Mallophaga	101-102	Raphidiidæ	100
Mantidæ	93	Reduviidæ	82
Masaridæ	23	Rhipiceridæ	65
Medical entomology	112-113	Rhipiphoridae	76
Melandyridæ	76	Rhopalocera	42-43
Mellinidæ	23	Rhynchophora	77-79
Meloidæ	77	Rhyssodidæ	63
Membracidæ	87	Saldidæ	83
Micropezidæ	38	Sapromyzidæ	39
Midaidæ	34	Sapygidæ	20
Mimesidæ	22	Sarcophagidæ	37
Monommidæ	76	Scaphidiidæ	61
Monotomidæ	64	Scarabæidæ	69-71
Mordellidæ	75-76	Scatophagidæ	39
Muscidæ	38	Scenopinidæ	32
Mutillidæ	19-20	Sciomyzidæ	39
Mycetophagidæ	63	Scelliidæ	20
Mycetophilidæ	29	Scolytidæ	79
Myriapoda	103	Scorpionidæ	107
Myrmeleonidæ	100	Scydmænidæ	58
Nabidæ	82	Sesiidæ	44
Naucoridæ	83	Sialidæ	99
Nemestrinidæ	34	Silphidæ	58
Nepidæ	83	Simuliidæ	30
Neuroptera (including Pseudoneuroptera)	97-101	Siphonaptera	40
Nitidulidæ	64	Solpugidæ	107
Noctuidæ	46-48	Sphegidæ	20-21
Notonectidæ	84	Sphingidæ	44
Nycteribiidæ	40	Staphylinidæ	59-60
Nyssonidæ	22	Stephanidæ	15
Odonata	98-99	Stratiomyidæ	32
Ædemeridæ	75	Strepsiptera	79
Æstridæ	37	Syrphidæ	36
Ortalidæ	38	Tabanidæ	32
Orthoptera	90-97	Tachinidæ	37
Oscinidæ	39	Tenebrionidæ	74
Orhniidæ	75	Tenthredinidæ	11-12
Panorpidæ	100	Termitidæ	97
Parnidæ	65	Tettigoniidæ	85-86
Pediculidæ	90	Tineidæ	50-51
Pemphredonidæ	23	Tipulidæ	31
Pentatomidæ	81	Theraphosidæ	105
Periodicals	113-117	Therevidæ	34
Perlidæ	98	Theridiidæ	103
Phalacridæ	61	Thomisidæ	193
Phalangidæ	108	Thripidæ	20
Phasmidæ	93	Throscidæ	63
Philanthidæ	22	Thysanoptera	90
Phoridae	36	Thysanura	102-103
Phymatidæ	82	Tortricidæ	49-50
Pipunculidæ	36	Trichoptera	101
Platypezidæ	36	Trichopterygidæ	60
Pompilidæ	20	Trigonalidæ	16
Proctotrypidæ	18	Trogositidæ	64
Pselaphidæ	59	Trypetidæ	38-39
Psocidæ	98	Uroceridæ	11-12
Psychodidæ	31	Vespidæ	23-24
		Zygænidæ	44

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A list of works on North American entomo