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A contribution towards knowledge of the world literature regarding Braconidae

(Hymenoptera: Braconidae)

This bibliography¹ of articles, containing information regarding Braconidae in the broad sense (including Aphidiidae, Alysiidae and Paxylommatidae), is the result of maintaining reference cards over a span of many years. While over 8,000 titles are presented, the compiler is under no illusion to the effect that the listing is complete. On the contrary, he has the rather disturbing feeling that a substantial portion of literature concerning hosts, biology, etc., of the members of the family is not included. Whenever one is dealing with a group of parasitic forms, such as the Braconidae, titles mean little. For example, a paper titled to indicate that it deals with the ecology of a certain beetle or moth may include much that was previously unrecorded regarding one of the parasites. In addition, the Braconidae are world-wide in distribution, abundant, of considerable economic value and its members have a wide range of hosts. This means that in order to obtain a complete list of titles one would have to examine the periodicals, books, Experiment Station and Government Reports, Bulletins, Circulars, Technical Papers and comparable items in the field of entomology for all political areas and in all languages. Such a task is obviously an impossibility for one individual. However, in this very fact lies the justification for assembly and publication of bibliographies such as that presented below, because a knowledge of the world literature regarding Braconidae can only result from a final pooling of the efforts of many individuals.

During the years while the list of titles was being accumulated I have been the recipient of many favors. Librarians at the University of Wisconsin and Washington State University have aided me greatly. Numerous individuals have generously contributed separates of their papers. The Division of Insects of the Smithsonian Institution (U.S. National Museum) permitted me to go through their card files on Hymenoptera in 1939 and again in 1963 and to utilize their library and reprint files. The National Agricultural Library of the U.S. Department of Agriculture allowed me to copy many articles which were not available otherwise.

The bibliography, which is based primarily upon DALLA TORRE and the systematic portion of the Zoological Record, is thought to be rather complete from the taxonomic point of view. Many references have been drawn from the Review of Applied Entomology (which was examined in its entirety), the Bibliography of Agriculture of the U.S. Department of Agriculture Library, Biological Abstracts and the subject section of the Zoological Record. Considerable use was also made of HAGEN's *Bibliotheca Entomologica*, HORN and SCKENK-LING's *Index Litteraturae Entomologicae*, the *Index of American Economic Entomology* and the *Union List of Serials*. In addition, numerous entomological periodicals have been searched, volume by volume, for information concerning members of the family. Naturally, it has not been possible to look at all of the references found but to date over 6,000 of them have been obtained through gift, purchase or duplication. While information has been drawn from many sources, responsibility for errors must rest upon the compiler.

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The abbreviations of titles of periodicals follow (so far as they could be found) those given in the World List of Scientific Periodicals, fourth edition, 1963, for letters A through E and the third edition, 1952 for subsequent letters, except that „Journ.“ is used instead of „J.“

The author would greatly appreciate receiving information concerning titles regarding Braconidae which are not included, information giving more complete data for titles where he has been unable to obtain the full data for citation, and having errors called to his attention.

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Summary

A contribution toward knowledge of the world literature dealing with members of the Hymenopterous family Braconidae is presented for use by investigators of the family, individuals working in the field of biological control, persons dealing with the genetics of *Habrobracon*, and those interested in the general fields of parasitology, population dynamics and ecology of beneficial insects.

Zusammenfassung

Die vorliegende Arbeit leistet einen Beitrag zur Kenntnis der gesamten Literatur über die Arten der Hymenopterenfamilie Braconidae. Sie ist für Forscher vorgesehen, die diese Familie untersuchen, für Wissenschaftler, die auf dem Gebiet der biologischen Schädlingsbekämpfung tätig sind oder sich mit der Genetik der Gattung *Habrobracon* befassen, sowie für alle, die allgemein an den Gebieten der Parasitologie, der Populationsdynamik und der Ökologie nützlicher Insekten interessiert sind.

Резюме

Предлагаемая работа является вкладом в изучение всей литературы о представителях семейства Braconidae, отряда Hymenoptera. Работа представляет интерес для исследователей, изучающих это семейство, для ученых, работающих над вопросом биологической борьбы с вредителями или изучающих генетику рода *Habrobracon*, а также для ученых, работающих над общими вопросами паразитологии, движения популяций и экологии полезных насекомых.