



Revision Of The Sawfly Family Orussidae

Entomological Society of Washington

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the Entomological Society of Washington text.

Revision Of The Sawfly Family Orussidae:

A Revision of the Sawfly Family Orussidae for North and Central America (Hymenoptera--Symphyta, Orussidae) Woodrow Wilson Middlekauff, 1983 **A Revision of the Sawfly Family Orussidae for North and Central America**

(Hymenoptera--Symphyta, Orussidae) Woodrow Wilson Middlekauff, 1983 *A Revision of the Sawfly Family Orussidae for North and Central America (Hymenoptera--Symphyta, Orussidae)* Jerry A. Powell, Woodrow Wilson Middlekauff, 1983

Revision of the Genus Enallagma of the United States West of the Rocky Mountains and Identification of Certain Larvae by Discriminant Analysis (Odonata:Coenagrionidae) Rosser W. Garrison, 1984 **A Revision of the Jumping Spider**

Genus Habronattus F.O.P.-Cambridge (Araneae, Salticidae), with Phenetic and Cladistic Analyses Charles E. Griswold, 1987 Cladistic Analysis of North American Platynini and Revision of the Agonum Extensicolle Species Group

(Coleoptera, Carabidae) James Kenneth Liebherr, 1986-01-01 Cladistic analysis based on internal male female reproductive characters and external characters is used to group exemplar taxa in the carabid tribe Platynini A classification key to genera in North America and a key to species groups of Agonum in North America north of Mexico are presented The Agonum extensicolle species group comprises seven species A cyanope Bates A extimum Liebherr n sp A parextimum Liebherr n sp A texanum LeConte A extensicolle Say A decorum Say A elongatum Dejean Analyses of infraspecific geographic variation show 1 A texanum is biometrically uniform over the center of its range whereas individuals from outlying populations deviate in several measurements 2 A extensicolle is a variable species with clinal changes in biometry and color occurring across its range 3 A decorum is polymorphic for color and setation and clinally variable in biometric characters Across the group flight apparatus development is inversely correlated with the amount of genetic heterogeneity measured by starch gel electrophoresis Electrophoretic qualitative morphological and biometric data are used to estimate phylogenetic relationships in the A extensicolle group The electrophoretic and morphological data produce compatible estimates of phylogeny The biometric data are incompatible with the other data and are judged less useful for estimation of affinities Distributional data are utilized in conjunction with the proposed phylogeny to investigate speciation events in the group The principal mechanism is allopatric speciation brought about by vicariance across the lowlands of southeastern Arizona the Cochise filter barrier A second pattern involves a peripheral isolate of Antillean stock diverging on the Florida peninsula A third speciation event involves a habitat shift in which a lowland desert form produced a species which now inhabits the pine oak zone in the Sierra Madre Occidental The area taxon relationships are compared with those in other groups Based on an electrophoretic clock calibrated using data from Drosophila the timing of the initial speciation event in the group is estimated at 6 12 million years b p Other speciation events occurred throughout the Pliocene and Pleistocene with the most recent divergence of A decorum and A elongatum estimated at less than two million years b p **A Revision of the Sawfly Family Orussida for North and Central America (Hymenoptera: Symphyta, Orussidae)** Woodrow W. Middlekauff, 1983 The

Cerambycidae of North America, Part VII, No. 1 Earle Gorton Linsley, John A. Chemsak, 1984-01-01 This volume concludes the taxonomy and classification of the family Cerambycidae of America north of Mexico This part includes the remainder of the subfamily Lamiinae tribes Acanthocinini Cyrtinini Saperdini Phytoeciini Tetraspini and Hemilophini The 32 genera and 138 species are all fully described with keys included to separate all taxa Complete synonymical bibliographies are presented along with 54 illustrations

Bees of the New Genus Ctenoceratina in Africa, South of the Sahara (Hymenoptera: Apoidea) Howell V. Daly, 1988-01-01 The African continent has a rich fauna of insects many of which are unstudied This monograph treats one such group known as the small carpenter bees Thirteen biological species in a new genus are described and a key for identification and details of their nests and natural enemies are given

Advances in Parasitic Hymenoptera Research Virendra Kumar Gupta, 1988

Entomology University of California, 1991

An Introduction to the Study of Insects Donald Joyce Borror, Charles A. Triplehorn, Norman F. Johnson, 1989 This text uses a taxonomic approach to introduce students to the science of entomology Extensive use of identification keys acquaints students with all the families of insects in the United States and Canada and provides means for students to identify 95% or more of the insects found occurring in North America

University of California Publications in Entomology University of California, Berkeley, 1984

University of California Publications in Entomology, 1994

Proceedings of the Entomological Society of Washington Entomological Society of Washington, 2017 List of members in v 1 3 5 14

Recent Publications in Natural History, 1983

Hymenoptera of the World Canada. Agriculture Canada. Research Branch, 1993 This publication is the result of a course on identification of Hymenoptera given three times since 1985 at the Centre for Land and Biological Resources Research The considerable interest in these courses indicated the need for a comprehensive identification guide to all extant families of Hymenoptera The main emphasis is on family identification using the keys which are complemented by family sketches The sketches include a taxonomic diagnosis to supplement the keys a summary of the biology the size and distribution and important literature references

Bulletin of the Entomological Society of America Entomological Society of America, 1985

The Cumulative Book Index, 1984 A world list of books in the English language

Esakia, 1990

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