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PRIMITIVE TO ADVANCED
SOCIALITY**

Wasps Social Insects

**George Williams Peckham, Elizabeth
Gifford Peckham**

Wasps Social Insects:

Neotropical Social Wasps Fabio Prezoto, Fabio Santos Nascimento, Bruno Corrêa Barbosa, Alexandre Somavilla, 2020-11-07 This book provides updated information on this intriguing and exciting group of insects Neotropical Social Wasps These insects have a particular biology and their colonies are formed by a few cooperative females living in either small or massive structured nests where stinging individuals organize their activities and defend their offspring Topics include evolutionary aspects biogeography post embryonic development community behavior and ecology economic importance and research methods The Social Insects Owain Westmacott Richards, 1961 **The Evolution of Social Wasps** James H. Hunt, 2007-03-27 Publisher description American Social Insects Charles Duncan Michener, Mary H. Michener, 1951 Preface This book concerns the lives of those insects that live in colonies and whose activities center about the queen tended by her six footed subjects Included also are the various insects that are parasites and associates of our principal subjects the bees ants wasps and termites as well as those that shed light on the origin and evolution of the colonial habits of these insects We do not intend that this book should be considered a contribution to science we hope rather that it will be an introduction to the behavior of social insects that will prove interesting to many and perhaps stimulate a few to learn more about these fascinating creatures Any of the groups of social insects would provide a worthwhile lifetime project for anyone wishing to enjoy an interesting study and at the same time make a valuable contribution to knowledge It is scarcely necessary to point out that such a study might also serve a practical purpose for many social insects are of great importance to man we need mention only the pollination and nectar gathering of bees the dissemination of pestiferous insects by ants and the destruction of property by termites We wish to thank the many persons who have provided us with photographic illustrations Their names are mentioned elsewhere but the time and trouble required for each photograph can scarcely be acknowledged We wish also to mention those who stimulated us to write this book the late Clyde Fisher and Dr Mon A Cazier Mary H Michener Charles D Minchener Lawrence Kansas **The Social Insects** William Morton Wheeler, 1928 *The Social Biology of Wasps* Kenneth G. Ross, Robert W. Matthews, 2018-08-06 In this edited collection 17 internationally known authorities bring together the results of recent research on the natural history ecology behavior morphology and genetics of wasps as they pertain to the evolution of social behavior The first part of the book opens with a review of the classification of the family Vespidae along with a revision of the subfamily Polistinae Seven subsequent chapters deal with the natural history and social biology of each of the major taxa of social and presocial vespids The second part of the book offers chapters on reproductive competition worker polyethism evolution of nest architecture of queen number and queen control and of exocrine glands population genetics the nutritional basis of social evolution and the nest as the locus of social life The final chapter is a comparative discussion of social behavior in the Sphecidae the only family of wasps besides the Vespidae in which well developed social behavior is known Providing a wealth of information about the

biology of wasps this comprehensive up to date volume will be an essential reference for entomologists evolutionary biologists behavioral ecologists ethologists and zoologists Contributors James M Carpenter David P Cowan Holly A Downing Raghavendra Gadagkar Albert Greene James H Hunt Robert L Jeanne Makoto Matsuura Robert W Matthews Hudson K Reeve Peter Frank Roseler Kenneth G Ross J Philip Spradbery Christopher K Starr Stefano Turillazzi John W Wenzel Mary Jane West Eberhard

The Insect Societies Edward O. Wilson, 1971 A study of insect sociology presenting individual investigations of wasps ants bees and termites and discussing caste behavior communication symbioses and other topics *Exploring the World of Social Insects* Hilda Simon, 1962

American Social Insects Charles Duncan Michener, 1951 *Social Insects and the Environment* C.A. Viraktamath, G.K. Veeresh, B. Mallik, 2023-10-09 This volume includes 370 papers presented by leading scientists at the 11th International Congress of IUSSI at Bangalore from August 5-11 1990 The papers which have been classified into 30 sections relate to the symposia papers of the Congress These cover various frontiers of research on social insects such as evolution of sociality polygyny social polymorphism kin recognition kin selection foraging strategies reproductive strategies biogeography and phylogenetics of bees and ants pollination ecology and management of pestiferous social insects The most important feature about these papers in this publication is that the results are presented in a crisp brief and precise manner Because of the brevity it has been possible to bring together in one publication almost all aspects of research on social insects from all parts of the world The time between presentation of papers at a Congress and publication has been avoided by publishing this volume on the eve of the Congress and this enables scientists to refer to the results immediately

Food Exploitation By Social Insects Stefan Jarau, Michael Hrncir, 2009-05-21 Omnipresent in virtually all terrestrial ecosystems and of undisputed ecological and economical importance the study of social insects is an area that continues to attract a vast number of researchers As a consequence a huge amount of information about their biology and ecology has accumulated Distilling this scattered information into a highly *Genomics, Physiology and Behaviour of Social Insects*, 2015-03-26 Physiology Behavior Genomics of Social Insects provides comprehensive information on the social insect groups described including new and unique reviews on emerging model social organisms The book's interdisciplinary approach integrates behavior genomics and physiology providing readers with great insights into the present state of a rapidly expanding area of research It also discusses areas where new research tools will bring hope to longstanding problems Provides the latest research on the genomics behavior and physiology of social insects Presents diverse and authoritative syntheses on the relationship between genomics physiology and the fascinating behavior of social insects Takes an in depth look of the current state of social insect research and its future path

Pheromone Communication In Social Insects Robert K Vander Meer, Michael D Breed, Mark Winston, Karl E Espelie, 2019-06-18 Bringing together for the first time prominent researchers in social insect pheromone communication including nestmate recognition this book looks at ants wasps bees and termites highlighting areas of convergence and divergence among these groups and identifying areas that

need further investigation Presenting broad synthetic overviews as well as species specific studies the volume will be useful to natural scientists ecologists and those interested in pest management as well as to anyone interested in the fascinating chemically mediated behavioral interactions of social insects

Lives of Social Insects Peggy Pickering Larson, Mervin W. Larson, 1968

Social Insects Pia Korsholm, 1982

Parasites in Social Insects Paul Schmid-Hempel, 1998-11-22 In addition the author develops new insights especially in his examination of the intricate relationships between parasites and their social hosts through the rigorous use of evolutionary and ecological concepts

Defensive Mechanisms in Social Insects Henry R. Hermann, 1984

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From Individual to Collective Behaviour in Social Insects J.M. Pasteels, Deneubourg, Fondation les treilles, 1987

Wasps, Social and Solitary George Williams Peckham, Elizabeth Gifford Peckham, 1905

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