

# Social insects - Types, Examples with Social life, Importance, Advantages



# Social Insects

**Henry Hermani**

## **Social Insects:**

**The Social Insects** William Morton Wheeler,2015-12-22 Originally published in 1928 this volume by a world authority on the subject sums up our knowledge of the social insects It inquires what are the social insects and what it is that makes us call them social Terebrantia aculeata wasps bees ants and termites are discussed in a succession of chapters showing how they have evolved to how great an extent they have developed and what are the peculiarities of their evolution Polymorphism the Social Medium Guests and Parasites of the Social Insects are other subjects discussed in this fascinating book

*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

Biology and Evolution of Social Insects Johan Billen,1992

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

**Information Processing in Social Insects**

Claire Detrain,J. L. Deneubourg,Jacques M. Pasteels,1999 The book provides a first comprehensive overview of both experimental and theoretical research on information processing in insect societies Its purpose is to make the reader familiar with the methodology and ways of thinking followed by scientists at the leading edge of the field The book is aimed at postgraduate students and researchers working on social insects and insects that live in groups as well as any reader interested in behavioural ecology communication and social organization

**Social Insects** Wolf Engels,2012-12-06

**Evolution of Castes in Insects** I BERNHARD RENSCH The evolution of organisms in the succession of generations has been primarily achieved through the appearance of new hereditary variants with minor deviations along with the development of stable structures and functions Harmful mutants were eradicated either immediately or in the subsequent generations through the process of natural selection while unharful or advantageous ones usually survived As this process continued many new races and species developed which possessed structures and functions of a rational nature and which became increasingly independent from their environment These evolutionary tendencies were also promoted through either geographical ecological physiological or genetical isolation of populations In some phylogenetic lines there occurred an increase in the number of cells due to additional cellular divisions in the morphogenesis of structures This opened up the possibility for the development of the division of labour within cellular groups leading to more complicated and consequently more successful functions of tissues and organs A further advancement in the adaptation of a species to its environment was made possible through specialization for certain functions of whole individuals or groups of individuals

**The Biology of Social Insects**

Michael D. Breed,Charles D. Michener,Howard E. Evans,2019-06-25 In this book internationally known experts provide a comprehensive view of current knowledge of social insect biology including much previously unpublished

information Particular emphasis is given to the relationships between social insects and humans sections are devoted to economically important social insects pollination foraging and the role of insects in ecosystems and agroecosystems The authors also discuss communication behavior and caste within insect colonies A special section focuses on the neurobiology of social insects A series of papers considers the presocial insects which live in family groups but without caste differences Also well represented are the fields of sociobiology and the origins and evolution of social behavior The book will be valuable to agricultural scientists as well as to entomologists sociobiologists ecologists ethologists and natural historians

Endocrinologists and neurobiologists will also find important new material    **Social Insects V1** Henry

Hermani,2012-12-02 Social Insects Volume I is a part of a four volume discourse and collection of research on insect sociobiology This volume covers the modern theory with certain concepts of insect sociality particularly through genetic behavioral and evolutionary pathways This book consists of eight chapters which mostly deal with the sociality of insects and other aspects The first chapter provides an introduction to the subject of insect sociality Topics in this chapter include definition of sociality types of social insects and insect sociobiology The next chapter focuses on the origin and evolution of insect sociality and discusses the theories of origin of sociality The following chapters discuss the aspects of social insects in terms of antiquity and territoriality Caste differentiation and division of labor is also emphasized as well as the genetics of sociality The last two chapters deal with the larvae of the social hymenoptera and the social and evolutionary significance of social insect symbionts This volume is a good reference for students and teachers in the study of entomology zoology and biology    *Interindividual Behavioral Variability In Social Insects* Robert L. Jeanne,2019-04-09 This book represents

empirical studies of some aspect of the phenomenon of variability in social insect behavior It illustrates the range of ways colony members can differ from one another and interprets the variability in terms of the external environment social context or individual experience    *The Social Insects* Owain Westmacott Richards,1961    **Social Insect Populations** M. V.

Brian,2013-10-22 Social Insect Populations focuses on observations on the populations of social insects including egg production nesting characteristics and food collection The book first underscores the evolution of social life and organization and control of social insect populations The text also ponders on the numbers and density of social insect populations as well as methods of estimation numbers in colonies and density and biomass Egg production stationary populations nest size productivity and survival are discussed The manuscript discusses reproduction and brood periodicity of social insect populations Discussions focus on reproduction by single and group of queens and reciprocity among bees wasps and ants The text also examines nest sites and shelters mating structures and food collection of social insects Discussions focus on food supply intergeneric competition predators and parasites and population regulation among bees wasps termites and ants The book is a dependable reference for readers interested in the study of social insect populations    *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 Social Insects M. V. Brian, 2012-12-06

Here is a guide to the ecology of social insects It is intended for general ecologists and entomologists as well as for undergraduates and those about to start research on social insects even the experienced investigator may find the comparison between different groups of social insects illuminating Most technical terms are translated into common language as far as can be done without loss of accuracy but scientific names are unavoidable Readers will become familiar with the name even though they cannot visualize the animal and could reflect that only a very few of the total species have been studied so far References too are essential and with these it should be possible to travel more deeply into the vast research literature still increasing monthly When I have cited an author in another author's paper this implies that I have not read the original and the second author must take responsibility for accuracy Many hands and heads have helped to make this book I thank all my colleagues past and present for their enduring though critical support and I thank with special pleasure E M Evesham who fashioned the diagrams Free D J Stradling and P E C Darlington who supplied photographs D Y Brian and R A Weller who were meticulous on the linguistic side and G Frith and R M Jones who collated the references List of plates 1 Fungus combs of *Acromyrmex octospinosus* and *Macrotermes michaelseni* 13 2 Mouthparts of larval *Myrmica*

**Social Insects V4** Henry Hermani, 2012-12-02 Social Insects Volume IV is the last installment of a four volume treatise and is dedicated to the discussion on wasps and ants Comprised of four chapters this volume focuses on the sociality of various types of ants as their group has very diverse habits The first chapter describes the general biology and behavior of social wasps and discusses the cyclical populations nest associates and communal defense of wasps Chapter 2 introduces the broad and general overview of the biology of ants including their behavior food collection and nest construction Chapters 3 and 4 present the biology of army and fungus ants respectively This volume also explains how ants are defined and identified including their colony composition and behavior As with the previous volumes this volume seeks to be of service to students researchers and scientists in various fields of research particularly entomology social biology zoology and biological science

**Caste and Ecology in the Social Insects** George F. Oster, Edward O. Wilson, 2020-03-31 In this pathbreaking and far reaching work George Oster and Edward Wilson provide the first fully developed theory of caste evolution among the social insects Furthermore in studying the effects of natural selection in generally increasing the insects ergonomic efficiency they go beyond the concentration of previous researchers on the physiological mechanisms of the insects and turn our attention instead to the scale and efficiency of the insects division of labor Recognizing that the efficiency of the insect colony is based

on a complex fitting of the division of labor to many simultaneous needs including those imposed by the distribution of resources and enemies around the nest Professors Oster and Wilson are able to construct a series of mathematical models to characterize the agents of natural selection that promote particular caste systems The social insects play a key role in the subject of sociobiology because their social organization is so rigid and can be related to genetic evolution Because of this important consideration the authors work has consequences not only for entomology but also for general evolutionary theory

*Parasites in Social Insects* Paul Schmid-Hempel, 2019-12-31 This book analyzes for the first time how parasites shape the biology of social insects the ants wasps bees and termites Paul Schmid Hempel provides an overview of the existing knowledge of parasites in social insects Current ideas are evaluated using a broad database and the role of parasites for the evolution and maintenance of the social organization and biology of insects is carefully scrutinized 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 Schmid Hempel identifies gaps in our knowledge about parasites in social insects and uses models to develop new questions for future research In addition issues that are usually considered separately such as division of labor genetics immunology and epidemiology are placed in a common framework to analyze two of the most successful adaptations of life parasitism and sociality This work will appeal not only to practitioners in the fields of behavioral ecology and sociobiology but also to others interested in host parasite relationships or in social organisms such as apiculturists struggling to overcome the problems arising from mite infestations of honeybee colonies

**Defensive Mechanisms in Social Insects** Henry R. Hermann, 1984      **The Social Insects** William Morton Wheeler, 1928      **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 **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

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