

Advances in INSECT PHYSIOLOGY

GENOMICS, PHYSIOLOGY AND BEHAVIOUR OF
SOCIAL INSECTS



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Social Insects Volume I

William Morton Wheeler



Social Insects Volume I:

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

Social Insects, 1953 *Social Insects V2* Henry Hermani, 2012-12-02 Social Insects Volume II is essentially a continuation and review of topics covered in Volume I The main focus of this volume is on the systematic of eusocial hymenoptera and the closely associated realms of presocial insects and social non insectan arthropods Consisting of five major chapters this volume starts with the chapter on the enemies and defense mechanisms of termites Several mechanisms are discussed in this chapter such as defense by the nest workers and soldiers Chapter 3 focuses on presocial insects and a comparison of parental care without nests and based on nests Chapter 4 discusses the sociality of Arachnida and emphasizes the patterns and evolution of sociality in Arachnida particularly spiders Two chapters discuss the social hymenoptera including its defensive mechanisms and its systematics This volume will be of great help to students and professionals in the field of entomology biology and zoology

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

Social Insects V3 Henry Hermani,2012-12-02 Social Insects Volume III emphasizes the insect symbionts that represent a very complex group of organisms with very diverse habits This volume primarily focuses on various types of bees and their sociality This book consists of four major chapters where the first chapter represents the conclusion of discussion on social insect phenomena The three remaining chapters discuss in detail the biology of the featured eusocial insects Chapter 1 includes a discussion on insects and other arthropods The following chapters focus on various types of bee including bumble bees honey bees and stingless bees Chapter 2 focuses on the behavior and ecology of bumble bees whereas Chapters 3 and 4 discuss in detail the different biological aspects of honey and stingless bees respectively Topics include the evolution of sociality colony caste differentiation and distribution of these species Students and researchers interested in the study of bees will find this book very valuable

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

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

American Social Insects Charles Duncan Michener,1951

Information Processing in Social Insects Claire Detrain,Jean L. Deneubourg,Jacques M. Pasteels,2012-12-06 Claire Detrain Jean Louis Deneubourg and Jacques Pasteels Studies on insects have been pioneering in major fields of modern biology In the 1970 s research on pheromonal communication in insects gave

birth to the discipline of chemical ecology and provided a scientific frame to extend this approach to other animal groups. In the 1980s the theory of kin selection which was initially formulated by Hamilton to explain the rise of eusociality in insects exploded into a field of research on its own and found applications in the understanding of community structures including vertebrate ones. In the same manner recent studies which decipher the collective behaviour of insect societies might be now setting the stage for the elucidation of information processing in animals. Classically problem solving is assumed to rely on the knowledge of a central unit which must take decisions and collect all pertinent information. However an alternative method is extensively used in nature problems can be collectively solved through the behaviour of individuals which interact with each other and with the environment. The management of information which is a major issue of animal behaviour is interesting to study in a social life context as it raises additional questions about conflict cooperation trade offs. Insect societies have proven particularly open to experimental analysis one can easily assemble or disassemble them and place them in controllable situations in the laboratory.

Social Insects: Their Origin And Evolution William Morton Wheeler, 1994
 Contents The Scope and Meaning of the Social Among the Insects The Origin of the Terebrantia and Aculeata The Evolution of Wasps The Evolution of Bees The Evolution of Ants The Evolution of Termites Polymorphism Polymorphism continued The Social Medium and *Trophallaxis* The Evolution of the Guests and Parasites of the Social Insects The Evolution of the Social Parasites Conclusions

American Beetles, Volume I Jr., Ross H. Arnett, Michael C. Thomas, 2000-12-28 A thorough update of Arnett's *The Beetles of the United States*. *American Beetles Volumes I and II* cover the genera of beetles that occur in Alaska Canada and the contiguous United States. Built on the foundation of the original work and almost completely rewritten with contributions from more than 60 coleopterists these volumes describe each fa

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 unharmed 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.

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

Ants and Other Social Insects Cecilia Venn,2000 Questions and answers explore the world of social insects with an emphasis on ants

Ants and Other Social Insects World Book,2016 What does an ant nest look like Why do honey bees dance How can you tell the difference between a termite and an ant Read this book to find out

Volume 1: Morphology and Systematics (Archostemata, Adephaga, Myxophaga, Polyphaga partim) Rolf G. Beutel,Richard Leschen,2011-12-22 This book is the first of four volumes in the Handbook of Zoology series which treat the systematics and biology of Coleoptera With approximately 350 000 described species Coleoptera are by far the most species rich order of insects and the largest group of animals of comparable geological age The beetle volumes will meet the demand of modern biologists seeking to answer questions about Coleoptera phylogeny evolution and ecology This first Coleoptera volume covers the suborders Archostemata Myxophaga and Adephaga and the basal series of Polyphaga with information on world distribution biology morphology of all life stages including anatomy phylogeny and comments on taxonomy

Social Evolution in Ants Andrew F.G. Bourke,Nigel R. Franks,2019-12-31 Biologists since Darwin have been intrigued and confounded by the complex issues involved in the evolution and ecology of the social behavior of insects The self sacrifice of sterile workers in ant colonies has been particularly difficult for evolutionary biologists to explain In this important new book Andrew Bourke and Nigel Franks not only present a detailed overview of the current state of scientific knowledge about social evolution in ants but also show how studies on ants have contributed to an understanding of many fundamental topics in behavioral ecology and evolutionary biology One of the substantial contributions of Social Evolution in Ants is its clear explanation of kin selection theory and sex ratio theory and their applications to social evolution in insects Working to dispel lingering skepticism about the validity of kin selection and more broadly of selfish gene theory Bourke and Franks show how these ideas underpin the evolution of both cooperation and conflict within ant societies In addition using simple algebra they provide detailed explanations of key mathematical models Finally the authors discuss two relatively little known topics in ant social biology life history strategy and mating systems This comprehensive up to date and well referenced work will appeal to all researchers in social insect biology and to scholars and students in the fields of entomology behavioral ecology and evolution

Economic Impact and Control of Social Insects S. Bradleigh Vinson,1986

Applied Developmental Psychology Frederick J Morrison,Catherine Lord,Daniel P. Keating,2013-10-22 Applied Developmental Psychology Volume 2 is a collection of papers from different

experts in the field of psychology in an attempt to put forth a vision of psychology as a developmental science through its applications in different studies The book covers topics such as essentialism and populational psychology comprehension and comprehension monitoring and theoretical and applied issues in the use of binaural sensory aids by blind infants and children Also covered are topics such as the effects of maternal employment on young children and the subtypes of developmental dyslexia The text is recommended to psychologists especially those who would like to research on how the field can be viewed as a developmental science

A Study of History: Volume I: Abridgement of Volumes I-VI Arnold J. Toynbee, 1987
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