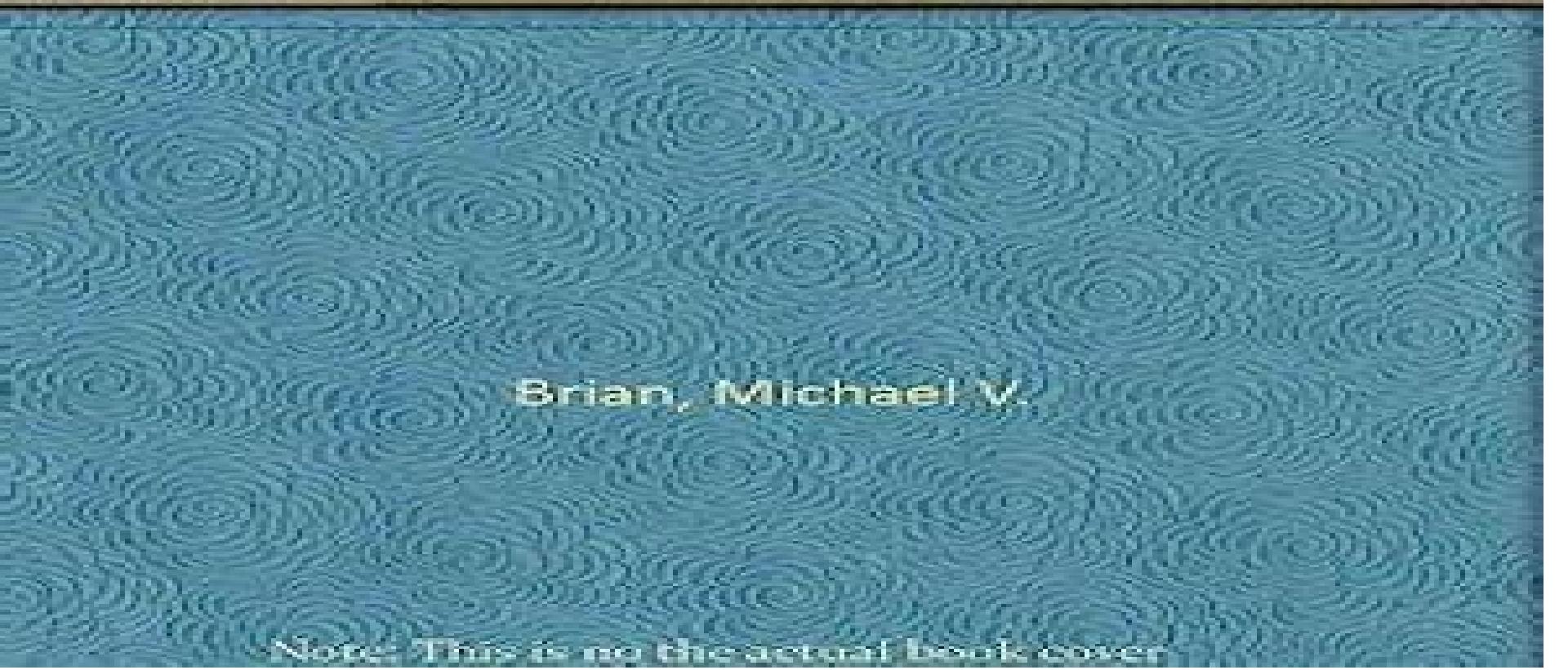


# Social Insects: Ecology and Behavioural Biology



Brian, Michael V.

# Social Insects Ecology And Behavioral Biology

**Thomas E. Rinderer**

## **Social Insects Ecology And Behavioral Biology:**

*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 michaelsoni* 13 2

Mouthparts of larval *Myrmica*    **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

**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

**Organization of Insect Societies** Jürgen Gadau, Jennifer Fewell, 2009-02-28 In this landmark volume an international group of scientists has synthesized their collective expertise and insight into a newly unified vision of insect societies and what they can reveal about how sociality has arisen as an evolutionary strategy. Jürgen Gadau and Jennifer Fewell have assembled leading researchers from the fields of molecular biology, evolutionary genetics, neurophysiology, behavioral ecology and evolutionary theory to reexamine the question of sociality in insects. Recent advances in social complexity theory and the sequencing of the honeybee genome ensure that this book will be valued by anyone working on sociality in insects. At the same time the theoretical ideas presented will be of broad ranging significance to those interested in social evolution and complex systems

**Bee Genetics and Breeding** Thomas E. Rinderer, 2013-09-03 Bee Genetics and Breeding provides an overview of the state of knowledge in bee genetics and breeding. The book is organized into two parts. Part I deals with the scholarly issues of bee genetics. It is intended as a reference source for students of both bees and

genetics It could also serve as a text for university courses in bee genetics Topics discussed include the evolution of eusocial insects geographical variability and classification of honey bees and behavioral and biochemical genetics of honey bees Part II deals more specifically with the practical issues of bee breeding The discussions include the quantitative genetics of honey bees ways to define and measure honey bee characteristics so that the best parents for honey bee stock improvement programs can be selected and mating designs This section contains sufficient guidance for bee breeders to initiate or improve breeding programs Apiculturalists generally will find this part especially interesting since the quality of their own bee stock depends on the skills and knowledge of the breeders who produce their queens

**The Corsini Encyclopedia of Psychology and Behavioral Science, Volume 4** W. Edward Craighead,Charles B. Nemeroff,2002-11-11 A complete reference to the fields of psychology and behavioral science Volume 4 is the final volume in The Corsini Encyclopedia of Psychology and Behavioral Science series Providing psychologists teachers researchers and students with complete reference for over 1 200 topics across four volumes this resource is invaluable for both clinical and research settings Coverage includes conditions assessments scales diagnoses treatments and more including biographies on psychologists of note and psychological organizations from across the globe The Third Edition has been updated to reflect the growing impact of neuroscience and biomedical research providing a highly relevant reference for the highest standard of care

**Caste and Ecology in the Social Insects** George F. Oster,Edward O. Wilson,1978 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

**The Ants** Bert Hölldobler,Edward O. Wilson,1990 This landmark work is a thoroughgoing survey of one of the largest and most diverse groups of animals on the planet Hölldobler and Wilson review in exhaustive detail virtually all topics in the anatomy physiology social organization ecology and natural history of the ants

**Encyclopedia of Animal Behavior**,2019-01-21 Encyclopedia of Animal Behavior Second Edition Four Volume Set the latest update since the 2010 release builds upon the solid foundation established in the first edition Updated sections include Host parasite interactions Vertebrate social behavior and the introduction of overview essays that boost the book's comprehensive detail The structure for the

work is modified to accommodate a better grouping of subjects Some chapters have been reshuffled with section headings combined or modified Represents a one stop resource for scientifically reliable information on animal behavior Provides comparative approaches including the perspective of evolutionary biologists physiologists endocrinologists neuroscientists and psychologists Includes multimedia features in the online version that offer accessible tools to readers looking to deepen their understanding

**Urban Insects and Arachnids** William H. Robinson,2005-04-14 This account provides the first comprehensive coverage of the insect and other arthropod pests in the urban environment worldwide Presented is a brief description biology and detailed information on the development habits and distribution of urban and public health pests There are 570 illustrations to accompany some of the major pest species The format is designed to serve as a ready reference and to provide basic information on orders families and species The species coverage is international and based on distribution in domestic and peridomestic habitats The references are extensive and international and cover key papers on species and groups The introductory chapters overview the urban ecosystem and its key ecological components and a review of the pests status and modern control strategies The book will serve as a professional training manual and handbook for the pest control professionals regulatory officials and urban entomologists It is organized alphabetically throughout

*Social Evolution in Ants* Andrew F.G. Bourke,Nigel R. Franks,1995-11-05 Biologists have long been intrigued and confounded by the complex issues in the evolution and ecology of the social behaviour of insects The self sacrifice of sterile workers in ant colonies has been particularly difficult for evolutionary biologists to explain This text presents an overview of the current state of scientific knowledge about social evolution in ants and shows how studies on ants have contributed to an understanding of many fundamental topics in behavioural ecology and evolutionary biology

Behavioural Biology Abstracts ,1992

*Ecological Planning and Design* Richard L. Meier,1988

Ecology ,1994

*The Behavioural Ecology of Ants* J.H. Sudd,N.R. Franks,2013-03-09 This book is concerned with two problems how eusociality in which one individual forgoes reproduction to enhance the reproduction of a nestmate could evolve under natural selection and why it is found only in some insects termites ants and some bees and wasps Although eusociality is apparently confined to insects it has evolved a number of times in a single order of insects the Hymenoptera W Hamilton s hypothesis that the unusual haplodiploid mechanism of sex determination in the Hymenoptera singled this order out still seems to have great explanatory power in the study of social ants We believe that the direction indeed confinement of social altruism to close kin is the mainspring of social life in an ant colony and the alternative explanatory schemes of for example parental manipulation should rightly be seen to operate within a system based on the selective support of kin To control the flow of resources within their colony all its members resort to manipulations of their nestmates parental manipulation of offspring is only one facet of a complex web of manipulation exploitation and competition for resources within the colony The political intrigues extend outside the bounds of the colony to insects and plants which have mutualistic relations with ants In eusociality some individuals sterile workers

do not pass their genes to a new generation directly Instead they tend the offspring of a close relation in the simplest case their mother    The Ecology of Social Behavior C. N. Slobodchikoff,1988-05-28 The chapters in this book discuss and summarize the ecological factors affecting and effecting the formation of animal social groups and thereby address one of the central issues confronting researchers and students in sociobiology The objectives are to review what is known about the impact of ecological factors in the formation and maintenance of social groups Numerous examples have been drawn from a variety of phyla    *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

**Nourishment and Evolution in Insect Societies** James H. Hunt,Christine A. Nalepa,1994    **Annals of the Entomological Society of America** ,2002    *Directory of Environmental Life Scientists* Institute of Ecology,1974

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