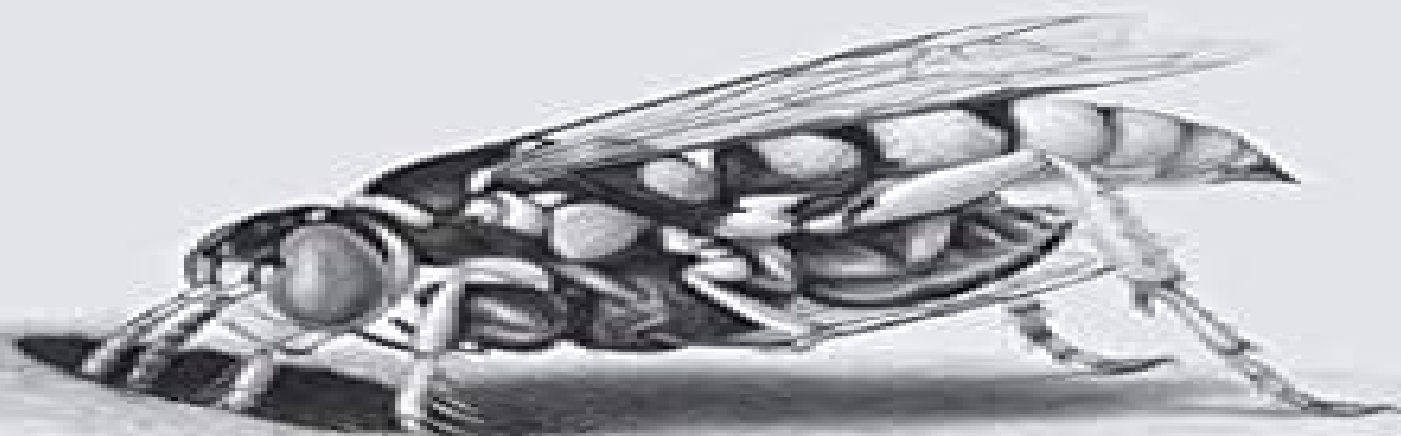


The Natural History and Behavior of North American Beewolves

HOWARD E. EVANS
and
KEVIN M. O'NEILL



Natural History And Behavior Of North American Beewolves

Carol Ann Kearns, James D. Thomson



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The Natural History and Behavior of North American Beewolves Howard E. Evans, Kevin M. O'Neill, 2019-05-15

Beewolves are a major group of solitary ground nesting wasps belonging to the genus *Philanthus* of the family Sphecidae. The common name beewolf derives from the females' practice of preying upon bees to obtain food for their young. This book brings together information on the biology of more than two thirds of the 34 North American species including much previously unpublished data; it is the first book on these wasps to provide extensive material on the behavior of both males and females.

Species of the zebratus group Howard Ensign Evans, 1988 The Sand Wasps Howard Ensign

EVANS, Kevin M. O'Neill, Howard Ensign Evans, 2009-06-30 Howard Evans was a brilliant ethologist and systematist describing over 900 species in over a dozen entomology and natural history books. Upon his death in 2002 he left behind an unfinished manuscript intended as an update of his classic 1966 work *The Comparative Ethology and Evolution of the Sand Wasps*. O'Neill Evans's former student and coauthor has completed and enlarged this work into a tribe-by-tribe species-by-species review of Bembicinae studies from the last four decades.

The Man who Loved Wasps Howard Ensign Evans, 2005 Four pop-up games in this book: The Golden Apple, Apollo, Python, Hades, Persephone, and Hermes the Monster Argus. Includes an attached 14-page reading book telling the stories of the myths, an integrated spinner and storage pocket. Educational and fun and perfect for traveling.

A Naturalist's Years in the Rocky Mountains Howard Ensign Evans, 2001 Twenty elegant essays examine animal behavior from hummingbirds to bumblebees, thicket ants to wrens, owls to woodrats to wasps.

Insect Defenses David L. Evans, Justin O. Schmidt, 1990-07-19 This work takes a fresh modern approach to investigate and explain the predator and prey relationships of insects and spiders, the major terrestrial fauna on earth. Devoted to broad and in-depth analysis of arthropod defenses against predators, the book's approach is both experimentally and theoretically based, with major emphasis on evolution, predator strategies and tactics, and prey defensive adaptations and behaviors. The authors explain such topics as cryptic and aposematic coloration, the conflict between sexual and survival needs, web spider prey choice, and evolution of prey counter defenses, predator-prey interactions, and the origins of intelligence, bird predatory tactics, and caterpillar defense strategies. Also examined is the use of timing for fitness and survival, evolutionary gamesmanship in the predatory bat-moth relationship, colony defense by paper wasps, startle as a defense by moths, aggregation as a defense, chemicals as defenses, plant chemicals as defenses, and venoms as defenses. The authors illustrate each topic with numerous specific, well-documented examples presented in a clear, readable style.

The Differences Between the Sexes R. V. Short, E. Balaban, 1994-08-04 In most animals, from bees to bison, house flies to humans, it is possible to see at a glance whether an individual is male or female. How and why have these differences in appearance and behaviour developed, and what are the nature and extent of the differences between men and women? This book reviews the latest molecular, genetic, hormonal, anatomical, and behavioural data in a wide range of species in a series of lively and highly

readable articles from the world's leading experts in this field. Such an overview has never before been attempted. It will have a wide appeal especially to undergraduates and graduates in the biological and medical sciences and will help to bridge the gap between those who study genes and molecules in the laboratory and those who study the behaviour of animals in the wild.

Behavioral Ecology of Insect Parasitoids Eric Wajnberg, Carlos Bernstein, Jacques van Alphen, 2008-04-30. Written by a team of leading international specialists. Behavioral Ecology of Insect Parasitoids examines the optimal behaviors that parasitoids exhibit in order to maximize long-term offspring production. It is an essential reference for research scientists and students studying these fascinating insects or for anyone involved in using parasitoids in biological control programs. Reviews topical issues including cutting-edge research on parasitoid decision making and the implications for biological control. Explores applications in other fields, provides information on the latest research methods and includes helpful case studies and statistical tools. Creates a deeper understanding of the link between behavioural strategies and host mortality resulting in more efficient selective pest management programs. Overall, this is a fascinating volume that provides a significant contribution to the literature on parasitoid insects. It goes a long way toward providing insights into numerous aspects of parasitoid behavior and will stimulate a diversity of future projects, something that should be the goal of any such text. I highly recommend Wajnberg et al. for all of those working on the biology or evolution of parasitoids. Palaios 2009.

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, 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.

Signalers and Receivers Michael D. Greenfield, 2002-02-28. In most terrestrial and aquatic habitats, the vast majority of animals transmitting and receiving communicative signals are arthropods. This book presents the story of how this important group of animals use pheromones, sound, vibration, and light for sexual and social communication. Because of their small to

minute body size most arthropods have problems sending and receiving acoustic and optical information each of which have their own severe constraints Because of these restraints they have developed chemical signaling which is not similarly limited by scale Presenting the latest theoretical and experimental findings from studies of signaling it suggests that close parallels between arthropods and vertebrates reflect a very limited number of solutions to problems in behavior that are available within the confines of physical laws **The Solitary Bees** Bryan N. Danforth,Robert L. Minckley,John L.

Neff,2019-08-27 The most up to date and authoritative resource on the biology and evolution of solitary bees which draws on new research to provide a comprehensive and authoritative overview of solitary bee biology offering an unparalleled look at these remarkable insects **Solitary Wasps** Kevin M. O'Neill,2001 Solitary Wasps Behavior and Natural History is the first general survey of the subject in more than 25 years and is the best place to turn for information about the biology and compelling behavior of these common insects Topics covered in Solitary Wasps Behavior and Natural History include classification of the solitary wasps and their relation to other Hymenoptera foraging and nesting behaviors mating and parental strategies thermoregulation natural enemies defensive strategies and directions for future research Jacket

Cognitive Ecology of Pollination Lars Chittka,James D. Thomson,2001-05-28 Important breakthroughs have recently been made in our understanding of the cognitive and sensory abilities of pollinators how pollinators perceive memorise and react to floral signals and rewards how they work flowers move among inflorescences and transport pollen These new findings have obvious implications for the evolution of floral display and diversity but most existing publications are scattered across a wide range of journals in very different research traditions This book brings together for the first time outstanding scholars from many different fields of pollination biology integrating the work of neuroethologists and evolutionary ecologists to present a multi disciplinary approach Aimed at graduates and researchers of behavioural and pollination ecology plant evolutionary biology and neuroethology it will also be a useful source of information for anyone interested in a modern view of cognitive and sensory ecology pollination and floral evolution *The Mechanistic Benefits of Microbial Symbionts*

Christon J. Hurst,2016-05-24 This volume summarizes recent advances in our understanding of the mechanisms that produce successful symbiotic partnerships involving microorganisms It begins with a basic introduction to the nature of and mechanistic benefits derived from symbiotic associations Taking that background knowledge as the starting point the next sections include chapters that examine representative examples of coevolutionary associations that have developed between species of microbes as well as associations between microbes and plants The authors conclude with a section covering a broad range of associations between microbes and invertebrate animals in which they discuss the spectrum of hosts with examples ranging from bryozoans and corals to nematodes arthropods and cephalopods Join the authors on this journey of understanding Van Nostrand's Scientific Encyclopedia Douglas M. Considine,Glenn D. Considine,2013-12-11

Advancements in science and engineering have occurred at a surprisingly rapid pace since the release of the seventh edition

of this encyclopedia Large portions of the reference have required comprehensive rewriting and new illustrations Scores of new topics have been included to create this thoroughly updated eighth edition The appearance of this new edition in 1994 marks the continuation of a tradition commenced well over a half century ago in 1938 Van Nostrand s Scientific Encyclopedia First Edition was published and welcomed by educators worldwide at a time when what we know today as modern science was just getting underway The early encyclopedia was well received by students and educators alike during a critical time span when science became established as a major factor in shaping the progress and economy of individual nations and at the global level A vital need existed for a permanent science reference that could be updated periodically and made conveniently available to audiences that numbered in the millions The pioneering VNSE met these criteria and continues today as a reliable technical information source for making private and public decisions that present a backdrop of technical alternatives

Evolution of the Insects David Grimaldi, Michael S. Engel, 2005-05-16 Insects are the most diverse group of organisms in the 3 billion year history of life on Earth and the most ecologically dominant animals on land This book chronicles for the first time the complete evolutionary history of insects their living diversity relationships and 400 million years of fossils Whereas other volumes have focused on either living species or fossils this is the first comprehensive synthesis of all aspects of insect evolution The book is illustrated with 955 photo and electronmicrographs drawings diagrams and field photos many in full colour and virtually all of them original The book will appeal to anyone engaged with insect diversity professional entomologists and students insect and fossil collectors and naturalists *Choice*, 2001

Recent Publications in Natural History, 1987 **The Natural History of Bumblebees** Carol Ann Kearns, James D. Thomson, 2001 In *The Natural History of Bumblebees* biologists Carol A Kearns and James D Thomson give amateurs and professionals alike the basic knowledge to pursue the joys of observing and investigating these attractive and amenable subjects Packed with information on bumblebee colonies bee honeypots bee development foraging behavior as well as instructions for maintaining bumblebees in captivity this lively and colorful book also includes an easy to use photographic field guide to aid in the identification of over fifty species of North American bumblebee virtually every known species on this continent Until now even the basic identification of North American bumblebees has been through the use of highly technical regional keys *The Natural History of Bumblebees* fills a gap in the literature and provides amateur enthusiasts educators and scholars the information to develop their own projects in bumblebee biology Kearns and Thomson also provide detailed instructions for constructing simple equipment that facilitates bee wrangling the handling tagging studying and raising of bumblebees They present suggestions for research projects and identify areas of incomplete knowledge requiring further research This book is an invaluable reference for students and scholars of native pollinators and an indispensable resource for naturalists gardeners and anyone who has ever been fascinated by the flight of the bumblebee **Handbook of Biological Control** T. W. Fisher, Thomas S. Bellows, L. E. Caltagirone, D. L. Dahlsten, Carl B. Huffaker, G. Gordh, 1999-09-20

For many years the use of chemical agents such as pesticides and herbicides has been effective in controlling the many varieties of pests that infest both agricultural crops and backyard gardens. However, these pests are gradually becoming resistant to these agents because the agents themselves are acting as selective factors, making the pests better and better able to resist and persist. As a result, the use of biological controlling agents is increasing. This book is a comprehensive and authoritative handbook of biological control.

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