

## Ants At Work How An Insect Society Is Organized

Ants at Work Organization of Insect Societies Caste and Ecology in the Social Insects Annual Report of the Entomological Society of Ontario First Annual Report on the Noxious Insects for the Province of Ontario Food Exploitation By Social Insects Sociobiology The Entomologist Proceedings of the Entomological Society of Washington Annual Report – Entomological Society of Ontario The Insect Societies Insect Life Insect Life ... Journal of the Society of Arts The Transactions of the Entomological Society of London Chambers's Encyclopaedia Transactions of the Illinois State Horticultural Society and the Illinois Fruit Council for the Year ... Report of the Commissioner of Agriculture and Arts Annual Report of the Secretary of the State Horticultural Society of Michigan Transactions and Proceedings and Report of the Philosophical Society of Adelaide, South Australia Deborah M. Gordon Jürgen Gadau George F. Oster Entomological Society of Ontario Entomological Society of Ontario Stefan Jarau Edward O. Wilson Entomological Society of Ontario Edward O. Wilson United States. Bureau of Entomology Entomological Society of London (1833–1933) Illinois State Horticultural Society Ontario. Department of Agriculture Michigan State Horticultural Society

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South Australia *Deborah M. Gordon* *Jürgen Gadau* *George F. Oster* *Entomological Society of Ontario* *Entomological Society of Ontario* *Stefan Jarau* *Edward O. Wilson* *Entomological Society of Ontario* *Edward O. Wilson* *United States. Bureau of Entomology* *Entomological Society of London (1833–1933)* *Illinois State Horticultural Society* *Ontario. Department of Agriculture* *Michigan State Horticultural Society*

a stanford professor redefines how nature organizes itself based on nearly two decades of research in the arizona desert in a revolutionary book that maintains that the ant queen is not in charge there are no leaders 14 line drawings

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

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

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

when this work was first published it started a tumultuous round in the age old nature versus nurture debate it shows how research in human genetics and neuroscience has strengthened the case for biological understanding of human nature

list of members in v 1 3 5 14

a study of insect sociology presenting individual investigations of wasps ants bees and termites and discussing caste behavior communication symbioses and other topics

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