

ATTACK **ON** the ARMY ANTS

How one of the largest, most complex, and most aggressive organisms on the planet was captured.

Text by BRIAN L. FISHER Photography by DONG LIN



THE PLAN WAS SIMPLE: JET down to Trinidad, track down a nest of a million army ants, suck them up in a vacuum cleaner and, twelve hours later, install them in a 500-square-foot glass arena back in San Francisco.

For eight months we had been negotiating all the permits and design issues of this innovative project. No one had ever attempted to keep army ants alive for a whole year in captivity. The escape-proof cages were built and tested. Cricket farms were standing by, ready to begin shipping the 15,000 crickets a week necessary to feed the colony.

Then, on April 2, two weeks before departure, the airline called and said they had canceled our flights. They had reviewed our request and concluded it was too great a risk to fellow passengers to share a plane with a million voracious

insects. Their research had revealed that army ants can kill a horse and they would not accept the responsibility. Despite my assurance that there would be no horses on the plane, they were adamant.

Ants are one of the great success stories in the history of terrestrial life. There is nowhere you can live and not meet an ant. If you took all the humans alive today and then gathered up all the world's ants, they would be roughly equal in weight.

Ants are the only lifeform that competes with humans for dominance. Ants are rulers of their tiny, hidden world, a world near our feet that most of us ignore—unless you are a kid or have a house infested with the ubiquitous Argentine ants. But these overlooked creatures are essential for healthy habitats. They are the glue that holds many an ecosystem together.

The dominant, big bad wolf of the ant family are the army ants—the Huns and

Tartars of the insect world. The majority of army ants are subterranean like those belonging to the genus *Neivamyrmex*, found in Northern California. Our objective, however, was to capture the spectacular South American species *Ectophasia bartholffi*, which nests and forages above ground. Army ants never hunt alone, but instead dispatch a pack of cooperative, leaderless hunters to locate and overwhelm prey. They run down and attack their victims en masse, and use their cooperative skills to dismember creatures often much larger than themselves and carry their booty home.

This contrasts with other types of ants which first send out individual scouts to locate food sources and only later recruit additional help. Because these wolf packs sweep clean all prey within range, army ants must continually migrate to new foraging locales and never construct permanent nests. Instead, they form bivouacs, temporary, above-ground nests made out of their own bodies. They link legs together, creating a tightly woven mesh of bodies and legs that form chambers for the brood and queen. They also link legs when traveling to make bridges to cross streams and to fill in gaps in the trails.

Capturing a single army ant is very different than capturing an entire colony. Individually, they can only inflict an irritating sting, but as a group, they become a pack of remorseless hunters. It's this behavior that caught the attention of the airline agent and grounded our mission. Reports of army ants killing horses, or needing flamethrowers to control their rampage, as in the story of "Leiningen vs. the Ants," are exaggerations, but they are based on a modicum of truth.

THE ARMY ANT DISPLAY WAS TO BE the star exhibit of the California Academy of Sciences' new building, due to open in less than a month. Over the previous eight months we had met with inspectors from the California Department of Food and Agriculture (CDFA) and U.S. Department of Agriculture (USDA) who had guided us through their complicated requirements. The ants had to be 100 percent contained. If a single ant specimen were found outside the containment facility, we would be shut down and the ants

Army Ants Attack

Arturo Cuomo



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Army Ants Attack Clint Twist,2006 Aimed at children aged 5 8 years old this is one title in a range of books which offers youngsters a fun fascinating extreme close up perspective on the insect kingdom Their habitats life cycles eco systems and antics are investigated **I Wonder What It's Like to Be an Ant** Erin M. Hovanec,1999-12-15 Explores the body life and environment of the ant and its importance in nature **1,001 Facts that Will Scare the S#*t Out of You** Cary McNeal,2010-04-18 A compendium of 1 001 facts about food human behavior health drug use the weather animals and more

How come? How so? That's how strange creatures live Rekha Shipurkar,2008-01-01 Watch out There are strange creatures around Did you know that there is a sea creature that looks like a Portuguese battleship Can you name a creature that is both a plant and an animal This book transports you to an enchanting world of strange animals up close and personal

What Good Are Bugs? Insects in the Web of Life Gilbert WALDBAUER,Gilbert Waldbauer,2009-06-30 This book the first to catalogue ecologically important insects by their roles gives us an enlightening look at how insects work in ecosystems what they do how they live and how they make life as we know it possible Waldbauer combines anecdotes from entomological history with insights into the intimate workings of the natural world describing the intriguing and sometimes amazing behavior of these tiny creatures As entertaining as it is informative this charmingly illustrated volume captures the full sweep of insects integral place in the web of life **The Guests of Ants** Bert Hölldobler,Christina L.

Kwapich,2022-07-19 Pulitzer Prize winner Bert H lldobler and behavioral ecologist Christina Kwapich reveal a universe of behavioral mechanisms whereby invaders known as myrmecophiles break into ant colonies By decoding ants sophisticated communication systems these invaders disguise themselves as friendly suppress ant aggression and feast on colony resources The Genesis Beast Gerald Lattocha Jr,2022-12-05 The reading of Will Smythe s will was supposed to be a somber event In his youth Will had almost disavowed his relatives and decided to have a reading of his will before he died of cancer It should have been noticed that Will s intent was anything but honorable but upon signing of the will it would be revealed just how far Will would go to reach immortality Unknown to Will s guests he had a deadly secret Now the guests would have to find a way to beat the mysterious and ferocious Genesis Beast So what form will the Genesis Beast be next A crocodile A T Rex It was a creature that could turn into any form of prehistoric carnivore and generate its optimum hunting environment So would the guests survive this horrible creature or would they all succumb to the nature of the beast and give William his total immortality Can they find a way to beat it Only by reading this story can one discover this outcome and find out the thrilling outcome of a good versus evil plot What is Migration? John Crossingham,Bobbie Kalman,2002 From whales and deer to butterflies and eels animals migrate to breed feed stay warm find water and even sleep Animals follow paths passed on for generations ensuring the survival of their species Discover the amazing treks of the Arctic tern the salmon and the Canada goose **Dangerous Creatures Of The Tropical Rainforests** Helen Bateman,Jayne

Denshire,2005-07-30 Describes dangerous animals that live in the rain forest how they survive why they might be endangered and what we can do **1000 Facts Insects , Tropical Forests** Michael Allaby,2006 Describes the tropical rain forest biome including climate geology geography and biodiversity **Adventures among Ants** Mark W. Moffett,2010-05-05 Intrepid international explorer biologist and photographer Mark W Moffett the Indiana Jones of entomology takes us around the globe on a strange and colorful journey in search of the hidden world of ants In tales from Nigeria Indonesia the Amazon Australia California and elsewhere Moffett recounts his entomological exploits and provides fascinating details on how ants live and how they dominate their ecosystems through strikingly human behaviors yet at a different scale and a faster tempo Moffett s spectacular close up photographs shrink us down to size so that we can observe ants in familiar roles warriors builders big game hunters and slave owners We find them creating marketplaces and assembly lines and dealing with issues we think of as uniquely human including hygiene recycling and warfare **Adventures among Ants** introduces some of the world s most awe inspiring species and offers a startling new perspective on the limits of our own perception Ants are world class road builders handling traffic problems on thoroughfares that dwarf our highway systems in their complexity Ants with the largest societies often deploy complicated military tactics Some ants have evolved from hunter gatherers into farmers domesticating other insects and growing crops for food **Novel Aspects of Insect-Plant Interactions** Pedro Barbosa,Deborah K. Letourneau,1988-10-07 Presents the first efforts to explore ecological interactions between insects and plants across several trophic levels with special focus on mediation of complex interactions by plant allelochemicals First section looks at effects of plant allelochemicals on predator prey and host parasitoid interactions Second section reveals the role of microorganisms as mediators of interactions between insects and plants Third section unifies and extends current theory to examine the effects of allelochemicals on the second and third trophic levels Final section traces the physiological effects of plant allelochemicals in animal behavior population regulation maintenance of mimicry systems and evolution of host range **The Gingerbread Kingdom II** Gary McKenzie,2008-11 In the darkened depths of Chocolate Crunch Canyon an elderly bat woman named Countess Bella looks into her Crystal Gumball and sees the destruction of the Gingerbread Kingdom After years of banishment she returns to Cinnamon Towne to warn King Otto the Gingerbread King about the approaching darkness Who could cause such trouble You guessed it Queen Beatrice is back and this time she enlists the help of the unpredictable McFly But what is the secret of the Sour Zone that McFly is keeping Can Jay and his friends save the kingdom again Welcome back to the wonderful world of The Gingerbread Kingdom Join all the colorful characters from the first book along with some new ones as this magical adventure continues

Biologically-Inspired Computing for the Arts: Scientific Data through Graphics Ursyn, Anna,2012-04-30 This book comprises a collection of authors individual approaches to the relationship between nature science and art created with the use of computers discussing issues related to the use of visual language in communication about biologically inspired

scientific data visual literacy in science and application of practitioner s approach Provided by publisher *Animal Life in Groups* Toney Allman,2009 Living in groups has been an animal survival strategy for millions of years *Animal Life in Groups* explores the social lives of bees meerkats monkeys and other animals and insects with a special emphasis on how different groups compare to one another and how living with others benefits individuals From hives to more complex cultures the intricacies of community living are both fascinating and instructive about the evolution of behavior cooperation intelligence and emotions

Beekeeping: A Compressive Guide to Bees and Beekeeping D.P. Abrol,2013-07-01 This book shall serve as a reference book for students teachers and researchers and for all those interested in bees and beekeeping This book will be useful to all those who wish to make beekeeping their hobby or as profession entrepreneurs and even layman Besides the information provided in this book will be useful to pollination biologists students teachers scientists of agriculture animal behaviour botany conservation biology ecology entomology environmental biology forestry genetics plant breeding horticulture toxicology zoology seed growers and seed agencies It will be highly useful to motivate the young generation to fascinating world of honeybees and adopt beekeeping as a profession Book as a guide for their problems evolving strategies

X-Venture Titanoboa: Coils of Doom ,2020-09-23 Its the mighty Amazon for the X VENTURE Xplorers after a logger reports an attack by what seems to be a giant prehistoric snake Soldiering through mosquitoes sweltering heat and stifling humidity the team seeks the source of the terrifying truth But things take a sinister turn when they find traces of the creatures meals not all of which are animal in origin Will the mystery of the supersized serpent be solved Or will our heroes shuffle off this mortal coil Slither in and find out

Behavioral Mechanisms in Evolutionary Ecology Leslie Real,1994-11-30 The first book length exploration of behavioral mechanisms in evolutionary ecology this ambitious volume illuminates long standing questions about cause and effect relations between an animal s behavior and its environment By focusing on biological mechanisms the sum of an animal s cognitive neural developmental and hormonal processes leading researchers demonstrate how the integrated study of animal physiology cognitive processes and social interaction can yield an enriched understanding of behavior With studies of species ranging from insects to primates the contributors examine how various animals identify and use environmental resources and deal with ecological constraints as well as the roles of learning communication and cognitive aspects of social interaction in behavioral evolution Taken together the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation mating and dispersal *Behavioral Mechanisms in Evolutionary Ecology* shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution

Jungle Bride Vickie Foster,2025-01-29 *Jungle Bride* plunges readers into the depths of the Amazon Rainforest where a young woman sets off on a bold journey with her veteran missionary husband Through her eyes you ll witness the stunning beauty of the jungle face the

challenges of befriending hostile nomads and find genuine humor as she navigates life as a young American woman with her seasoned missionary husband in the midst of the Amazon's steamy wilderness. Their mission is to save small groups of nomads from annihilation. With humor and heart, this story skillfully weaves together the harsh realities of jungle life with a deep spiritual quest. Dive into *Jungle Bride* and be inspired by a true odyssey of the soul.

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