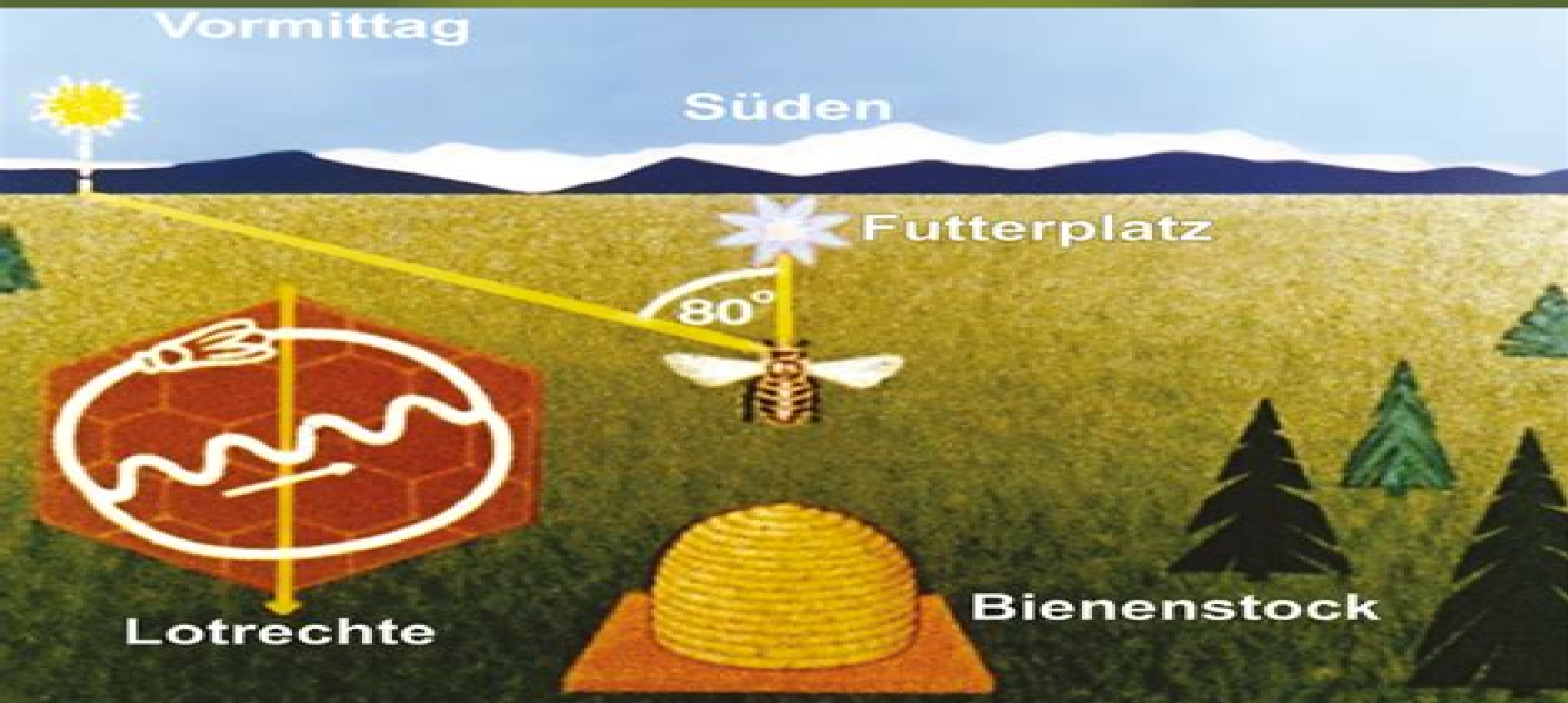


Entdeckung der Tanzsprache und Orientierung der Bienen

Die grundlegenden Entdeckungen des
Nobelpreisträgers Karl von Frisch



Tanzsprache Und Orientierung Der Bienen

Lars Chittka



Tanzsprache Und Orientierung Der Bienen:

Tanzsprache und Orientierung der Bienen Karl von Frisch, 2013-03-13 Seit mehr als 50 Jahren sind die Bienen in unserem Institut wie in der Zeit der Ferien am Wolfgangsee die Lieblingstiere meiner wissenschaftlichen Arbeit Ihr Farbensehen ihr Riechen und Schmecken und die Beziehungen ihrer Sinnesleistungen zur Blumenwelt ihre Sprache und ihr Orientierungsvermögen das war das ratselvolle Wunderland das zu immer weiterem Vordringen lockte All mählich haben sie uns aus der Schatzkammer ihres Daseins viele Neuigkeiten verraten Diese haften sich im Laufe der Jahre und verlangten immer dringender nach einer Besinnung und Übersicht Der Plan dieses Buch zu schreiben besteht daher schon lange Aber große Lücken in unseren Kenntnissen waren so storend wie die weißen Flecken für den Betrachter der alten Erdkarten Der Wunsch ein möglichst geschlossenes Bild zu geben rief immer wieder vom Schreibtisch zum Experiment um tieferen Einblick zu gewinnen und jede neue Einsicht stellt neue Fragen Ein Ende kommt nicht von selbst Man muß es schließlich setzen Ich war bemüht allgemein verständlich zu schreiben und hoffe daß auch noch in unserer Zeit die immer mehr zur Spezialisierung drängt und immer weniger Mußstunden kennt die Biene das Interesse weiterer Kreise fesseln kann Sie hat es durch Jahrtausende vermocht Mancher Unvollkommenheiten bin ich mir bewußt Nichts Besseres konnte ich mir wünschen als daß sie anderen als Anreiz dienen die Arbeit fortzuführen Dem Springer Verlag fühle ich mich für sein Entgegenkommen und die gute Ausstattung des Buches in Dankbarkeit verbunden München im März 1965 K v FRISCH

Inhaltsübersicht Einleitung **Tanzsprache und Orientierung der Bienen** Karl von Frisch, 1965 *Tanzsprache und Orientierung Der Bienen. The Dance Language and Orientation of Bees ... Translated by Leigh E. Chadwick. With Illustrations.* Karl von Frisch, Leigh Edward CHADWICK, 1967 *Die Intelligenz der Bienen* Randolf Menzel, Matthias Eckoldt, 2016-03-28 Faszination Honigbienen wie sie denken planen und fühlen Wir lieben die Bienen nicht nur weil sie uns Honig produzieren Sie gehören zu den wichtigsten und intelligentesten Nutztieren der Erde Ohne ihre Bestäubung stünde es schlecht um die Welternährung Und sie können noch viel mehr Ihr kleines Gehirn denkt plant zieht und trifft sogar Den bekannten Berliner Hirnforscher Randolf Menzel erstaunen sie nach fünf Jahrzehnten intensiver Forschung noch immer Endlich hat er zusammen mit Wissenschaftsjournalist Matthias Eckoldt sein gesammeltes Bienenwissen aufgeschrieben

Tanzsprache und Orientierung der Bienen. Mit 452 Textabbildungen, 1965 **Biological Rhythms** Jürgen Aschoff, 2013-03-09 Interest in biological rhythms has been traced back more than 2 500 years to Archilochus the Greek poet who in one of his fragments suggests it was obvious to recognize what rhythm governs man Aschoff 1974 Reference can also be made to the French student of medicine J J Virey who in his thesis of 1814 used for the first time the expression horloge vivante living clock to describe daily rhythms and to D C W Hufeland 1779 who called the 24 hour period the unit of our natural chronology However it was not until the 1930s that real progress was made in the analysis of biological rhythms and Erwin Bünning was encouraged to publish the first and still not outdated monograph in the field in

1958 Two years later in the middle of exciting discoveries we took a breather at the Cold Spring Harbor Symposium on Biological Clocks Its survey on rules considered valid at that time and Pittendrigh s anticipating view on the temporal organization of living systems made it a milestone on our way from a more formalistic description of biological rhythms to the understanding of their structural and physiological basis

The Dancing Bees Tania Munz,2016-05-10 A triumph of science writing a well crafted deeply researched story of politics ethics and the fascinating lives of humans and bees Jonathan Eig New York Times bestselling author We think of bees as being among the busiest workers in the garden admiring them for their productivity But amid their buzzing they are also great communicators and unusual dancers As Karl von Frisch 1886 1982 discovered during World War II bees communicate the location of food sources to each other through complex circle and waggle dances As Tania Munz shows in this exploration of von Frisch s life and research this important discovery came amid the tense circumstances of the Third Reich The Dancing Bees draws on previously unexplored archival sources in order to reveal von Frisch s full story including how the Nazi government in 1940 determined that he was one quarter Jewish revoked his teaching privileges and sought to prevent him from working altogether until circumstances intervened In the 1940s bee populations throughout Europe were facing the devastating effects of a plague just as they are today and because the bees were essential to the pollination of crops von Frisch s research was deemed critical to maintaining the food supply of a nation at war The bees as von Frisch put it years later saved his life Munz not only explores von Frisch s complicated career in the Third Reich she looks closely at the legacy of his work and the later debates about the significance of the bee language and the science of animal communication Will surely become a classic in the literature on the history of biology in the twentieth century Thomas D Seeley author of Honeybee Democracy *Botanists and Zoologists* Dean Miller,2014-01-01 In this volume a breakdown of the life and work of some of history s pioneers in the study of plants and animals are thoroughly explored It provides excellent biographical sketches for trailblazers in the sciences Articles are devoted to specific scientists covering their contributions to their field specifically addressing how their research discoveries and inventions impacted human understanding and experience This volume covers names from around the world and throughout the centuries with a chapter specifically devoted to the top scientific contributors of the 21st century

Bionics by Examples Werner Nachtigall,Alfred Wisser,2014-09-25 Bionics means learning from the nature for the development of technology The science of bionics itself is classified into several sections from materials and structures over procedures and processes until evolution and optimization Not all these areas or only a few are really known in the public and also in scientific literature This includes the Lotus effect converted to the contamination reduction of fassades and the shark shed effect converted to the resistance reduction of airplanes However there are hundreds of highly interesting examples that contain the transformation of principles of the nature into technology From the large number of these examples 250 were selected for the present book according to prehistory early history classic and modern time Most examples are new Every

example includes a printed page in a homogeneous arrangement The examples from the field modern time are joint in blocks corresponding to the sub disciplines of bionics

The Oxford Handbook of Animals in Classical Thought and Life Gordon Lindsay Campbell, 2014-08-28 The Oxford Handbook of Animals in Classical Thought and Life is the first comprehensive guide to animals in the ancient world encompassing all aspects of the topic by featuring authoritative chapters on 33 topics by leading scholars in their fields As well as an introduction to and a survey of each topic it provides guidance on further reading for those who wish to study a particular area in greater depth Both the realities and the more theoretical aspects of the treatment of animals in ancient times are covered in chapters which explore the domestication of animals animal husbandry animals as pets Aesop s Fables and animals in classical art and comedy all of which closely examine the nature of human animal interaction More abstract and philosophical topics are also addressed including animal communication early ideas on the origin of species and philosophical vegetarianism and the notion of animal rights

Novel Technological and Methodological Tools for the Understanding of Collective Behaviors Elio Tuci, Vito Trianni, Simon Garnier, Andrew King, 2020-01-23

The World History of Beekeeping and Honey Hunting Eva Crane, 1999-10-13 First published in 2000 This comprehensive book represents the first attempt to write a world history of people s use of social bees how bees nests were initially hunted for their honey and wax and later how the bees were kept in purpose made hives Evidence survives from early times in the form of artefacts pictures and written records and also human traditions of dealing with bees Since 1949 the author has had opportunities to travel in over sixty countries and to see traditional and modern hive beekeeping and also honey collection from nests She learned much that helped her to piece together some of the long history in the different continents

Animal Thinking Randolph Menzel, Julia Fischer, 2024-03-19 Experts from psychology neuroscience philosophy ecology and evolutionary biology assess the field of animal cognition Do animals have cognitive maps Do they possess knowledge Do they plan for the future Do they understand that others have mental lives of their own This volume provides a state of the art assessment of animal cognition with experts from psychology neuroscience philosophy ecology and evolutionary biology addressing these questions in an integrative fashion It summarizes the latest research identifies areas where consensus has been reached and takes on current controversies Over the last thirty years the field has shifted from the collection of anecdotes and the pursuit of the subjective experience of animals to a rigorous hypothesis driven experimental approach Taking a skeptical stance this volume stresses the notion that in many cases relatively simple rules may account for rather complex and flexible behaviors The book critically evaluates current concepts and puts a strong focus on the psychological mechanisms that underpin animal behavior It offers comparative analyses that reveal common principles as well as adaptations that evolved in particular species in response to specific selective pressures It assesses experimental approaches to the study of animal navigation decision making social cognition and communication and suggests directions for future research The book promotes a research program that seeks to understand animals cognitive abilities

and behavioral routines as individuals and as members of social groups Progress in Sensory Physiology ,2012-12-06

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 *Im Cockpit der Biene* Lars Chittka,2024-03-15 Wie

Intelligenz bei einem Tier nachweisen das nur wenige Wochen lebt Lars Chittka erz hlt uns unterhaltsam von den Wundern nat rlicher Intelligenz selbst bei winzigen Tieren Bienen entwickeln im Schwarm faszinierende F higkeiten sind aber auch als Individuen verbl ffernd intelligent Neue bahnbrechende Forschungen zeigen dass sie denken und f hlen dass sie Pers nlichkeit wenn nicht gar Bewusstsein besitzen Bienen z hlen erkennen menschliche Gesichter und nutzen Werkzeuge sie l sen Probleme durch Nachdenken und reagieren individuell auf u ere Reize Und das alles mit v llig anderen Sinnesorganen Dank ihres kompakten Nervensystems navigieren sie pr zise und speichern Informationen ihre Antennen sind multifunktional wie Schweizer Messer Das neue Standardwerk ber die Biene *Der Tanz der Bienen* Tania Munz,2018-09-27 Rund und Schw nzeltanz sind die faszinierende Sprache der Bienen Der Verhaltensforscher Karl von Frisch 1886 1982 entdeckte diese und andere St rken der fliegenden Insekten eine Pionierleistung die ihm 1973 den Nobelpreis einbrachte Mit *Der Tanz der Bienen* liegt nun die erste eingehende und meisterlich erz hlte Biografie ber den Ausnahmewissenschaftler vor Bienen sind beliebt wie nie zuvor Sie sind flei ige Honigproduzenten und unverzichtbare Pflanzenbest uber Seit Karl von Frisch wissen wir auch dass sie auf einzigartige Weise mittels einer Tanzsprache miteinander kommunizieren Geforscht hat von Frisch der eine j dische Gro mutter hatte unter den Nationalsozialisten Aufgrund des damaligen Bienensterbens stuften sie seine Arbeit als unverzichtbar ein und sahen von einer Suspendierung ab Von Frisch war nicht nur ein begeisterter sondern auch ein begeisternder Forscher der sein Wissen stets und gerne verst ndlich weitergab Tania Munz entwirft das emotionale Portr t eines h chst interessanten Menschen im Spannungsfeld zwischen einem Leben f r die Wissenschaft einer unglaublichen Entdeckung und den erschwerten Bedingungen im Zweiten Weltkrieg Advances in the Study of Behavior ,1991-05-02

Advances in the Study of Behavior *Biochemistry and Physiology of Visual Pigments* Helmut Langer,2012-12-06 This book is a report of a four day Symposium on the Biochemistry and Physiology of Visual Pigments which took place immediately after the VIth International Congress on Photobiology held in Bochum Federal Republic of Germany in August 1972 This

meeting which brought together about 50 investigators of various aspects of the visual process was devoted to the visual cells of both vertebrates and invertebrates Whereas the International Symposium on the Biochemistry of the Retina held at Nijmegen The Netherlands in 1968 had concentrated on vertebrate photoreceptors this Symposium dealt with invertebrate photoreceptors as well so that workers in each field could become acquainted with recent progress in the other area The papers presented at the Symposium were divided into six main topics to each of which a half day session was devoted The six parts of this book following the introductory lecture essentially correspond to these sessions In addition to the invited contributions the volume contains a number of short communications by other participants and two contributions by invited participants who were unable to attend The volume closes as did the Symposium with a General Discussion prepared and moderated by S L BONTING in which an attempt was made to integrate various new findings and to reconcile certain points of disagreement

Origins of Semiosis Winfried Nöth, 2011-07-22 No detailed description available for *Origins of Semiosis*

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