



SHAKING THE TREE



READINGS FROM
nature
IN THE
HISTORY OF LIFE

EDITED BY
Henry Gee



Shaking The Tree Readings From Nature In The History Of Life

Ron Amundson



Shaking The Tree Readings From Nature In The History Of Life:

Shaking the Tree Henry Gee, 2000-05 Nature has published news about the history of life ever since its first issue in 1869 in which T H Huxley Darwin's bulldog wrote about Triassic dinosaurs In recent years the field has enjoyed a tremendous flowering due to new investigative techniques drawn from cladistics a revolutionary method for charting evolutionary relationships and molecular biology Shaking the Tree brings together nineteen review articles written for Nature over the past decade by many of the major figures in paleontology and evolution from Stephen Jay Gould to Simon Conway Morris Each article is brief accessible and opinionated providing shoot from the hip accounts of the latest news and debates Topics covered include major extinction events homeotic genes and body plans the origin and evolution of the primates and reconstructions of phylogenetic trees for a wide variety of groups The editor Henry Gee gives new commentary and updated references Shaking the Tree is a one stop resource for engaging overviews of the latest research in the history of life on Earth

The Changing Role of the Embryo in Evolutionary Thought Ron Amundson, 2005-03-14 In this book Ron Amundson examines two hundred years of scientific views on the evolution development relationship from the perspective of evolutionary developmental biology evo devo This perspective challenges several popular views about the history of evolutionary thought by claiming that many earlier authors had made history come out right for the Evolutionary Synthesis The book starts with a revised history of nineteenth century evolutionary thought It then investigates how development became irrelevant with the Evolutionary Synthesis It concludes with an examination of the contrasts that persist between mainstream evolutionary theory and evo devo This book will appeal to students and professionals in the philosophy and history of science and biology

Shaking the Tree Henry Gee, 2000-05 Nature has published news about the history of life ever since its first issue in 1869 in which T H Huxley Darwin's bulldog wrote about Triassic dinosaurs In recent years the field has enjoyed a tremendous flowering due to new investigative techniques drawn from cladistics a revolutionary method for charting evolutionary relationships and molecular biology Shaking the Tree brings together nineteen review articles written for Nature over the past decade by many of the major figures in paleontology and evolution from Stephen Jay Gould to Simon Conway Morris Each article is brief accessible and opinionated providing shoot from the hip accounts of the latest news and debates Topics covered include major extinction events homeotic genes and body plans the origin and evolution of the primates and reconstructions of phylogenetic trees for a wide variety of groups The editor Henry Gee gives new commentary and updated references Shaking the Tree is a one stop resource for engaging overviews of the latest research in the history of life on Earth

Rise of the Dragon Henry Gee, 2001-11 Over the past decade fossil finds from China have stunned the world grabbing headlines and changing perceptions with a wealth of new discoveries Many of these finds were first announced to English speakers in the journal Nature Rise of the Dragon gathers together sixteen of these original reports some augmented with commentaries originally published in Nature's News and Views section Perhaps the best

known of these new Chinese fossils are the famous feathered dinosaurs from Liaoning Province which may help end one of the most intense debates in paleontology whether birds evolved from dinosaurs But other finds have been just as spectacular such as the minutely preserved to the cellular level animal embryos of the 670 million year old Duoshantuo phosphorites or the world's oldest known fish from the Chengjiang formation in southwestern Yunnan Province Rise of the Dragon makes descriptions and detailed discussions of these important finds available in one convenient volume for paleontologists and serious fossil fans

Time Traveler Michael Novacek, 2003-03-15 True stories of fossil hunting adventures around the globe from a world class field scientist and a highly entertaining writer The American Scholar Michael Novacek a world renowned paleontologist who has discovered important fossils on virtually every continent is an authority on patterns of evolution and on the relationships among extinct and extant organisms Time Traveler is his captivating account of how his boyhood enthusiasm for dinosaurs became a lifelong commitment to vanguard science He takes us with him as he discovers fossils in his own backyard in Los Angeles then goes looking for them in the high Andes the black volcanic mountains of Yemen and the incredibly rich fossil badlands of the Gobi Desert Wherever Novacek goes he searches for still undiscovered evidence of what life was like on Earth millions of years ago Along the way he has almost drowned been stung by deadly scorpions been held at gunpoint by a renegade army and nearly choked in raging dust storms Fieldwork is very demanding in a host of unusual dramatic sometimes hilarious ways and Novacek writes of its alluring perils with affection and discernment But in addition to being an enthralling adventure story Time Traveler makes sense of many complex themes about dinosaur evolution continental drift mass extinctions new methods for understanding ancient environments and the evolutionary secrets of DNA in fossil organisms Includes photos and illustrations A superb introduction to paleontology Edward O Wilson An engaging book that gives us an excellent sense of the way paleontologists have arrived at their world shaking conclusions The New York Times Book Review Novacek offers a spellbinding natural history of our planet as well as the equally fascinating story of how he fell into the profession Publishers Weekly

Transformative Paleobotany Michael Krings, Carla J. Harper, N. Ruben Cuneo, Gar W. Rothwell, 2018-07-14 Transformative Paleobotany Papers to Commemorate the Life and Legacy of Thomas N Taylor features the broadest possible spectrum of topics analyzing the structure function and evolution of fossil plants microorganisms and organismal interactions in fossil ecosystems e.g. plant paleobiography paleoecology early evolution of land plants fossil fungi and microbial interactions with plants systematics and phylogeny of major plant and fungal lineages biostratigraphy evolution of organismal interactions ultrastructure Antarctic paleobotany The book includes the latest research from top scientists who have made transformative contributions Sections are richly illustrated well conceived and characterize and summarize the most up to date understanding of this respective and important field of study Features electronic supplements such as photographs diagrams tables flowcharts and links to other websites Includes in depth illustrations with diagrams flowcharts and photographic plates many in color for enhanced utility tables and graphs

The Decline and Fall of the Human Empire Henry Gee, 2025-03-18 By the award winning author of A Very Short History of Life on Earth a history of humanity on the brink of decline A Next Big Idea Club Must Read Selection We are living through a period that is unique in human history For the first time in more than ten thousand years the rate of human population growth is slowing down In the middle of this century population growth will stop and the number of people on Earth will start to decline fast In this provocative book award winning science writer Henry Gee offers a concise brilliantly told history of our species and argues that we are on a rapid one way trip to extinction The Decline and Fall of the Human Empire narrates the dramatic rise of humanity how a scattered range of small groups across several continents eventually inbred interacted fought established stable communities and food supplies and began the process of dominating the planet The human story is relatively brief the oldest fossils of H Sapiens date to approximately 300 000 years ago yet the spread of our species has been unstoppable until recently As Gee demonstrates our population has peaked and is declining our environment is becoming inimical to human life in many locations our core resources of water arable land and air are diminishing and new diseases simmering conflicts and ambiguous technologies threaten our collective health Can we still change our course Or is our own extinction inevitable There could be a way out but the launch window is narrow Unless Homo sapiens establishes successful colonies in space within the next two centuries our species is likely to stay earthbound and will have vanished entirely within another ten thousand years bringing the seven million year story of the human lineage to an end With assured narration dramatic stories and his signature sprightly humor Henry Gee envisions new opportunities for the future of humanity a future that will reward facing challenges with ingenuity foresight and cooperation *Evolution* ,

Fossils at a Glance Clare Milsom, Sue Rigby, 2013-04-16 Fossils provide a powerful tool for the study of the nearly 4 billion year history of life and its role in the evolution of Earth systems They also provide important data for evolutionary studies and contribute to our understanding of the extinction of organisms and the origins of modern biodiversity Fossils At A Glance is written for students taking an introductory level course in paleontology Short chapters introduce the main topics in the modern study of fossils The most important fossil groups are discussed from microfossils through invertebrates to vertebrates and plants followed by a brief narrative of life on Earth Diagrams are central to the book and allow the reader to see most of the important data at a glance Each topic covers two pages and provides a self contained suite of information or a starting point for future study This second edition has been thoroughly revised and brought up to date It includes new line diagrams as well as photographs of selected fossils **Complex and Adaptive Dynamical Systems** Claudius

Gros, 2008-01-01 Helping us understand our complex world this book presents key findings in quantitative complex system science Its approach is modular and phenomenology driven Examples of phenomena treated in the book include the small world phenomenon in social and scale free networks life at the edge of chaos the concept of living dynamical systems and emotional diffusive control within cognitive system theory Each chapter includes exercises to test your grasp of new material

Written at an introductory level the author provides an accessible entry for graduate students in physics mathematics and theoretical computer science **Ingrained** Lesley Head, Jennifer Atchison, 2016-05-23 Plants are fundamental players in human lives underpinning our food supply and contributing to the air we breathe but they are easy to take for granted and have received insufficient attention in the social sciences This book advances understanding of human plant relations using the example of wheat Theoretically this book develops new insights by bringing together human geography biogeography and archaeology to provide a long term perspective on human wheat relations Although the relational more than human turn in the social sciences has seen a number of plant related studies these have not yet fully engaged with the question of what it means to be a plant The book draws on diverse literatures to tackle this question advancing thinking about how plants act in their worlds and how we can better understand our shared worlds Empirically the book reports original ethnographic research on wheat production processing and consumption in a context of globalisation drought and climate change and traces the complex networks of wheat using a methodology of following it and its people The ethnobotanical study captures a number of moments in the life of Australian wheat on the farm at the supermarket in the lives of coeliac sufferers in laboratories and in industrial factories This study demands new ways of thinking about wheat geographies going beyond the rural landscape to urban and industrial frontiers and being simultaneously local and global in perspective and connection

The Ancestor's Tale Richard Dawkins, Yan Wong, 2010-12-16 One of the most brilliant scientists of our age gives us his definitive work a synthesis of his comprehensive vision of life THE ANCESTOR S TALE is a pilgrimage back through time a journey on which we meet up with fellow pilgrims as we and they converge on our common ancestors Chimpanzees join us at about 6 million years in the past orang utans at 14 million years as we stride on together a growing band The journey provides the setting for a collection of some 40 tales Each explores an aspect of evolutionary biology through the stories of characters met along the way The tales are interspersed with prologues detailing the journey route maps showing joining lineages and life like reconstructions of our common ancestors THE ANCESTOR S TALE represents a pilgrimage on an unimaginable scale our goal is four billion years away and the number of pilgrims joining us grows vast ultimately encompassing all living creatures At the end of the journey lies something remarkable in its simplicity and transformative power the first humble replicating molecules *The Genealogical Science* Nadia Abu El-Haj, 2012-01-13 The Genealogical Science analyzes the scientific work and social implications of the flourishing field of genetic history A biological discipline that relies on genetic data in order to reconstruct the geographic origins of contemporary populations their histories of migration and genealogical connections to other present day groups this historical science is garnering ever more credibility and social reach in large part due to a growing industry in ancestry testing In this book Nadia Abu El Haj examines genetic history s working assumptions about culture and nature identity and biology and the individual and the collective Through the example of the study of Jewish origins she explores novel cultural and political practices that are emerging as genetic

history's claims and facts circulate in the public domain and illustrates how this historical science is intrinsically entangled with cultural imaginations and political commitments. Chronicling late nineteenth to mid twentieth century understandings of race, nature and culture, she identifies continuities and shifts in scientific claims, institutional contexts and political worlds in order to show how the meanings of biological difference have changed over time. In so doing, she gives an account of how and why it is that genetic history is so socially felicitous today and elucidates the range of understandings of the self, individual and collective, this scientific field is making possible. More specifically, through her focus on the history of projects of Jewish self-fashioning that have taken place on the terrain of the biological sciences, *The Genealogical Science* analyzes genetic history as the latest iteration of a cultural and political practice now over a century old.

BIOLOGY OF

NON-CHORDATES FATIK BARAN MANDAL, 2017-11-01 The second edition of the book is an elaborated and updated version of the title *Invertebrate Zoology* which was published in the year 2012. In addition to the detailed description of representative genus of each of the major groups, the text provides latest developments in zoology and other related life science disciplines. This book, now with a different title in the second edition, gives an account of 36 phyla in comparison of 12 phyla explained in the first edition. NEW TO THE SECOND EDITION Explains phyla such as Placozoa, Myxozoa, Nemertea, Gnathostomulida, Micrognathozoa, Cyclophora, Xenoturbellida, Acoelomorpha, Orthonectida, Rhombozoa, Gastrotricha, Kinorhyncha, Loricifera, Priapulida, Nematoda, Nematomorpha, Acanthocephala, Entoprocta, Sipuncula, Echiura, Pentastomida, Onychophora, Tardigrada, Brachiopoda, and Chaetognatha in the light of recent studies. Discusses contemporary accounts on adaptive morphology, anatomy and physiology including diversity in the mode of locomotion, nutrition, respiration and reproduction in major groups. Emphasizes life cycle pattern of representative genus with well illustrated diagrams. Provides Short and Long answer questions at the end of each chapter along with references.

Science Education: A Global

Perspective Ben Akpan, 2016-08-03 *Science Education: A Global Perspective* is global both in content and authorship. Its 17 chapters by an assemblage of seasoned and knowledgeable science educators from many parts of the world seek to bring to the fore current developments in science education and their implications. The book thus covers a wide range of topics in science education from various national and international perspectives. These include the nature of science, science and religion, evolution, curriculum and pedagogy, context based teaching and learning, science and national development, socially responsible science education, equitable access for women and girls in science and technology education, and the benefits of science education research. It ends on an optimistic note by looking at science education in 50 years time with a recommendation among others for stakeholders to take the responsibility of preparing children towards a blossoming science education sector in an anticipated future world. This book is suitable for use by discerning researchers, teachers, undergraduate and postgraduate students in science education and policy makers at all levels of education. Other educationalists and personnel in science and technology vocations will also find it interesting and useful as the reader

motivated approach has guided the presentation of ideas Science Education A Global Perspective is a rich compendium of the components of science education in context practice and delivery Dr Bulent Cavas Professor of Science Education Dokuz Eylul University Buca Izmir Turkey President Elect International Council of Associations for Science Education ICASE This book will be of immense relevance for current and future global strides in training and research in science education Surinder K Ghai Chairman Sterling Publishers Pvt Ltd New Delhi India This book provides a refreshing insight into the current status and future direction of science education It will be very useful to researchers those pursuing undergraduate and post graduate courses in science education and all other personnel involved in the policy and practice of science education Dr Bennoit Sossou Director Country Representative UNESCO Regional Office in Abuja Nigeria *The Foundations of Cognitive Archaeology* Marc A. Abramiuk, 2012 In The foundations of cognitive archaeology Marc Abramiuk proposes a multidisciplinary basis for the study of the mind in the past arguing that archaeology and the cognitive sciences have much to offer one another Abramiuk draws on relevant topics from philosophy biological anthropology cognitive psychology cognitive anthropology and archaeology to establish theoretically founded and empirically substantiated principles of a discipline that integrates different approaches to mind related archaeological research Publisher description

Capitalist Alternatives Paul Dragos Aligica, Vlad Tarko, 2014-11-20 The book's objective is to explore the challenge of thinking methodically in a theoretically and empirically informed way about alternative forms of capitalism What are the most effective ways to conceptualize the existing models of capitalism that have captured the public imagination and are currently floating around in the public debate How can one mobilize empirical analysis and theory in thinking about the realm of possibilities and about the future of economic order but avoid the twin perils of scientism and historicism This book is an attempt to respond to these and related challenges First it delves into the substantive aspect of the debate taking a closer look at a set of particular forms and models of capitalism that are currently discussed both in mass media and in academic circles as plausible or at least possible alternatives to the status quo Crony State Regulatory and Entrepreneurial Capitalisms By elaborating and clarifying those models it engages in a heuristic exercise that leads to a better understanding of the task of conceptualizing and assessing in a theoretically informed way the diversity of forms of capitalism Second the book takes a step further looking at the epistemic theoretical and methodological dimensions of the discussion What is involved more precisely in our classifying and theorizing of capitalist systems and their historical evolution What is the epistemic basis for building plausible conjectures about the future evolution of an economic system What are the logical and methodological parameters of our endeavors that deal with economic systems or with the problem of continuity and change in comparative economic systems Offering an original approach to the problem of alternative forms of capitalism this book will be of great interest to scholars working in the field of comparative political economy **Reproductive Biology of Plants** Kishan Gopal Ramawat, Jean-Michel Méridon, K. R. Shivanna, 2014-02-20 Reproductive biology is the basis of species improvement and a

thorough understanding of this is needed for plant improvement whether by conventional or biotechnological methods This book presents an up to date and comprehensive description of reproduction in lower plants gymnosperms and higher plants It covers general plant biology pollination pollen pistil interaction post fertilization changes and seed dormancy

Computational Intelligence Kurosh Madani,António Dourado Correia,Agostinho Rosa,Joaquim Filipe,2011-04-08 The present book includes a set of selected extended papers from the first International Joint Conference on Computational Intelligence IJCCI 2009 held in Madeira Portugal from 5 to 7 October 2009 The conference was composed by three co located conferences The International Conference on Fuzzy Computation ICFC the International Conference on Evolutionary Computation ICEC and the International Conference on Neural Computation ICNC Recent progresses in scientific developments and applications in these three areas are reported in this book IJCCI received 231 submissions from 35 countries in all continents After a double blind paper review performed by the Program Committee only 21 submissions were accepted as full papers and thus selected for oral presentation leading to a full paper acceptance ratio of 9% Additional papers were accepted as short papers and posters A further selection was made after the Conference based also on the assessment of presentation quality and audience interest so that this book includes the extended and revised versions of the very best papers of IJCCI 2009 Commitment to high quality standards is a major concern of IJCCI that will be maintained in the next editions considering not only the stringent paper acceptance ratios but also the quality of the program committee keynote lectures participation level and logistics

Economic and Ecological Significance of Arthropods in Diversified Ecosystems Akshay Kumar Chakravarthy,Shakunthala Sridhara,2016-10-20 Arthropods are invertebrates that constitute over 90% of the animal kingdom and their bio ecology is closely linked with global functioning and survival Arthropods play an important role in maintaining the health of ecosystems provide livelihoods and nutrition to human communities and are important indicators of environmental change Yet the population trends of several arthropods species show them to be in decline Arthropods constitute a dominant group with 1 2 million species influencing earth s biodiversity Among arthropods insects are predominant with ca 1 million species and having evolved some 350 million years ago Arthropods are closely associated with living and non living entities alike making the ecosystem services they provide crucially important In order to be effective plans for the conservation of arthropods and ecosystems should include a mixture of strategies like protecting key habitats and genomic studies to formulate relevant policies for in situ and ex situ conservation This two volume book focuses on capturing the essentials of arthropod inventories biology and conservation Further it seeks to identify the mechanisms by which arthropod populations can be sustained in terrestrial and aquatic ecosystems and by means of which certain problematic species be managed without producing harmful environmental side effects This edited compilation includes chapters contributed by over 80 biologists on a wide range of topics embracing the diversity distribution utility and conservation of arthropods and select groups of insect taxa More importantly it describes in

detail the mechanisms of sustaining arthropod ecosystems services and populations It addresses the contribution of modern biological tools such as molecular and genetic techniques regulating gene expression as well as conventional indigenous practices in arthropod conservation The contributors reiterate the importance of documenting and understanding the biology of arthropods from a holistic perspective before addressing conservation issues at large This book offers a valuable resource for all zoologists entomologists ecologists conservation biologists policy makers teachers and students interested in the conservation of biological resources

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