

# Refiguring Life Metaphors Of Twentieth Century Biology Wellek Library Lectures In Critical Theory

Refiguring Life Life Science in the Twentieth Century Short History of Biology from the Origins to the 20th Century The Man Who Saved Sea Turtles Paleobiology of the Polycystine Radiolaria Science Progress in the Twentieth Century Twentieth Century Century of the Gene Applied Cell and Molecular Biology for Engineers Journal of the history of biology Science in the 20th Century and Beyond Pamphlets on Biology Biological Field Stations of the World Romantic Biology, 1890–1945 Modernism, Science, and Technology The Biological Universe Literary Digest: a Repository of Contemporaneous Thought and Research as Presented in the Periodical Literature of the World Notable Twentieth-century Scientists The Literary Digest The Biological Sciences in the Twentieth Century Evelyn Fox Keller Garland E. Allen Alberto M. Simonetta Frederick R. Davis David Lazarus Evelyn Fox Keller Gabi Nindl Waite D. Reidel Jon Agar Homer Alexander Jack Maurizio Esposito Mark S. Morrisson Steven J. Dick Edward Jewitt Wheeler Emily J. McMurray Merriley Borell

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refiguring life begins with the history of genetics and embryology showing how discipline based metaphors have directed scientists search for evidence keller continues with an exploration of the border traffic between biology and physics focusing on the question of life and the law of increasing entropy in a final section she traces the impact of new metaphors born of the computer revolution on the course of biological research

keller shows how these metaphors began as objects of contestation between competing visions of the life sciences how they came to be recast and appropriated by already established research agendas and how in the process they ultimately came to subvert those same agendas refiguring life explains how the metaphors and machinery of research are not merely the products of scientific discovery but actually work together to map out the territory along which new metaphors and machines can be constructed through their dynamic interaction keller points out they define the realm of the possible in science drawing on a remarkable spectrum of theoretical work ranging from schroedinger to french psychoanalyst jacques lacan refiguring life fuses issues already prominent in the humanities and social sciences with those in the physical and natural sciences transgressing disciplinary boundaries to offer a broad view of the natural sciences as a whole moving gracefully from genetics to embryology from physics to biology from cyberscience to molecular biology evelyn fox keller demonstrates that scientific inquiry cannot pretend to stand apart from the issues and concerns of the larger society in which it exists

archie carr one of the greatest biologists of the twentieth century played a leading part in finding a new and critical role for natural history and systematics in a post 1950s world dominated by the glamorous science of molecular biology with the rise of molecular biology came a growing popular awareness of species extinction carr championed endangered sea turtles and his work reflects major shifts in the study of ecology and evolution a gifted nature writer his books on the natural history of sea turtles and their habitats in florida the caribbean and africa entertained and educated a wide audience carr s conservation ethic grew from his field work as well as his friendships with the fishermen who supplied him with many of the stories he retold so engagingly with archie carr as the focus the man who saved sea turtles explores the evolution of the naturalist tradition biology and conservation during the twentieth century

polycystine radiolaria are exclusively marine protists and are found in all ocean waters from polar regions to the tropics and at all water depths there are approximately 600 distinct described living species and several thousand fossil species of polycystines radiolarians in general and polycystines in particular have recently been shown to be a major component of the living plankton and important to the oceanic carbon cycle as fossils radiolarians are also fairly common and often occur in sediments where other types of fossils are absent this has made them very valuable for certain types of geologic research particularly estimating the geologic age of the sediments containing them and as guides to past oceanic water conditions as our current understanding of the biology and even taxonomy of the living fauna is still very incomplete evolutionary studies based on living polycystines are still rare however the common occurrence of numerous specimens for many species and in a wide variety of oceanic environments provides an excellent opportunity to study the processes of biologic evolution in the fossil record paleobiology of the polycystine radiolaria is the first major book on radiolarians to appear in the western literature since 2001 focusing on living and fossil siliceous shelled radiolarians it is notable for its emphasis not upon morphologic or taxonomic detail but on concepts and applications the book attempts to provide a balanced critical review of what is known

of the biology ecology and fossil record of the group as well as their use in evolutionary biostratigraphic and paleoceanographic research full chapters on the history of study and molecular biology are the first ever in book form written for an audience of advanced undergraduate to doctoral students as well as for a broad range of professionals in the biological and earth sciences paleobiology of the polycystine radiolaria summarizes current understanding of the marine planktonic protist group polycystine radiolaria both in living and fossil form

in a book that promises to change the way we think and talk about genes and genetic determinism evelyn fox keller one of our most gifted historians and philosophers of science provides a powerful profound analysis of the achievements of genetics and molecular biology in the twentieth century the century of the gene

a guide to the fundamentals and latest concepts of molecular and cell biology bridging the gap between biology and engineering applied cell and molecular biology for engineers uses clear straightforward language to introduce you to the cutting edge concepts of molecular and cell biology written by an international team of engineers and life scientists this vital tool contains clinical focus boxes and applications boxes in each chapter to link biology and engineering in today s world to help grasp complex material quickly and easily a glossary is provided applied cell and molecular biology for engineers features clear descriptions of cell structures and functions detailed coverage of cellular communication in depth information on cellular energy conversion concise facts on information flow across generations a succinct guide to the evolution of cells to organisms inside this biomedical engineering guide biomolecules energetics components of the cell cell morphology cell membranes cell organelles enzyme kinetics steady state kinetics enzyme inhibition cellular signal transduction receptor binding apoptosis energy conversion cell metabolism cell respiration cellular communication direct local long distance cellular genetics dna and rna synthesis and repair cell division and growth cell cycle mitosis stem cells cellular development germ cells and fertilization limb development from cells to organisms cell differentiation systems biology

science in the twentieth century and beyond provides a much needed overview of the history of science from 1900 to the present day it is the first book to survey modern developments in science during a century of unprecedented change conflict and uncertainty the scope is global and it covers a wide range of disciplines including life sciences information sciences as well as aspects of mathematics engineering and technology and medicine back cover

in this book esposito presents a historiography of organicist and holistic thought through an examination of the work of leading biologists from britain and america he shows how this work relates to earlier romantic tradition and sets it within the wider context of the history and philosophy of the life sciences

from quantum physics and genetics to psychology and the social sciences from the development of atomic weapons to the growing mass media of film and radio the early 20th century was a period of intense scientific and technological change modernism science and technology surveys the scientific contexts of writers from h g wells and gertrude stein to james joyce and virginia woolf and the ways in modernist writers responded to these paradigm shifts introducing key concepts from science studies and their implications for the study of modernist literature the book includes chapters covering the physical sciences mathematics life sciences social sciences and pseudosciences including a timeline of key developments and guides to further reading this is an essential guide to students and researchers studying the topic at all levels

throughout the twentieth century from the furor over percival lowell s claim of canals on mars to the sophisticated search for extraterrestrial intelligence otherworldly life has often intrigued and occasionally consumed science and the public does biological law reign throughout the universe are there other histories religions and philosophies outside of those on earth do extraterrestrial minds ponder the mysteries of the universe the attempts to answer these often asked questions form one of the most interesting chapters in the history of science and culture and the biological universe is the first book to provide a rich and colorful history of those attempts during the twentieth century covering a broad range of topics including the search for life in the solar system the origins of life ufos and aliens in science fiction steven j dick shows how the concept of extraterrestrial intelligence is a world view of its own a biophysical cosmology that seeks confirmation no less than physical views of the universe

in this companion to the volume on physical sciences nearly 400 bandw illustrations chronicle the development of biological sciences in the 20th century included are photographs of people equipment experiments in progress and work settings as well as reproductions of manuscript pages optical and electronic micrographs paintings sketches and cartoons the chapters each with a brief introduction are arranged in sections that cover the state of the field at the beginning of the period experimental methods the transformation of natural history into such disciplines as paleontology embryology and ecology the life processes such as structure molecular biology and the origin of life research on humans applications to social needs and an overview of the field and its effects annotation copyrighted by book news inc portland or

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