

# NATURE as the LABORATORY

Darwinian Plant Ecology  
in the German Empire, 1880–1900



Eugene Cittadino

# Nature As The Laboratory Darwinian Plant Ecology In The German Empire 1880 19

**David C. Lindberg, Peter J.  
Bowler, Ronald L. Numbers, Roy Porter**

## **Nature As The Laboratory Darwinian Plant Ecology In The German Empire 1880 19:**

*Nature as the Laboratory* Eugene Cittadino, 2002-08-15 A 1990 account of the botanical reform movement and its pioneering contribution to ecological science      The Evolution of American Ecology, 1890-2000 Sharon E. Kingsland, 2005 In the 1890s several initiatives in American botany converged The creation of new institutions such as the New York Botanical Garden coincided with radical reforms in taxonomic practice and the emergence of an experimental program of research on evolutionary problems Sharon Kingsland explores how these changes gave impetus to the new field of ecology that was defined at exactly this time She argues that the creation of institutions and research laboratories coupled with new intellectual directions in science were crucial to the development of ecology as a discipline in the United States The main concern of ecology the relationship between organisms and environment was central to scientific studies aimed at understanding and controlling the evolutionary process Kingsland considers the evolutionary context in which ecology arose especially neo Lamarckian ideas and the new mutation theory and explores the relationship between scientific research and broader theories about social progress and the evolution of human civilization By midcentury American ecologists were leading the rapid development of ecosystem ecology and society in the postwar context foreshadowing the environmental critiques of the 1960s As the ecosystem concept evolved so too did debates about how human ecology should be incorporated into the biological sciences Kingsland concludes with an examination of ecology in the modern urban environment reflecting on how scientists are now being challenged to produce innovative responses to pressing problems The Evolution of American Ecology 1890 2000 offers an innovative study not only of the scientific landscape in turn of the century America but of current questions in ecological science      The Coevolutionary Process John N. Thompson, 1994-11-15 Traditional ecological approaches to species evolution have frequently studied too few species relatively small areas and relatively short time spans In The Coevolutionary Process John N Thompson advances a new conceptual approach to the evolution of species interactions the geographic mosaic theory of coevolution Thompson demonstrates how an integrated study of life histories genetics and the geographic structure of populations yields a broader understanding of coevolution or the development of reciprocal adaptations and specializations in interdependent species Using examples of species interactions from an enormous range of taxa Thompson examines how and when extreme specialization evolves in interdependent species and how geographic differences in specialization adaptation and the outcomes of interactions shape coevolution Through the geographic mosaic theory Thompson bridges the gap between the study of specialization and coevolution in local communities and the study of broader patterns seen in comparisons of the phylogenies of interacting species      Renaming Plants and Nations in Japanese Colonial Korea Jung Lee, 2025-04-10 This book studies a striking example of intensely negotiated colonial scientific practice the case of botanical practice in Korea during the Japanese colonisation from 1910 to 1945 The shared aim of botanists who encountered one another in colonial Korea to practise modern Western botany is

successfully revealed through analysis of their fieldwork and subsequent publications By exploring the variations in what that term should mean and the politically charged nature of the interactions between both imperial and colonial players it reveals how botanists of the region created to a form of scientific practice that was neither clearly Western nor particularly modern It shows how the botany that evolved in this context was a product of colonially resourced globally connected practice immersed in intertwined traditions rather than simply a copy of modern Western botany Utilizing extensive primary sources this book will be of interest to students and scholars of the history of science colonial Korean history and environmental history

Animal Attractions Elizabeth Hanson,2018-06-05 On a rainy day in May 1988 a lowland gorilla named Willie B stepped outdoors for the first time in twenty seven years into a new landscape immersion exhibit Born in Africa Willie B had been captured by an animal collector and sold to a zoo During the decades he spent in a cage zoos stopped collecting animals from the wild and Americans changed the ways they wished to view animals in the zoo Zoos developed new displays to simulate landscapes like the Amazon River basin and African forests Exhibits similar to animals natural habitats began to replace old fashioned animal houses But such displays are only the most recent effort of zoos to present their audiences with an authentic experience of nature Since the first zoological park opened in the United States in Philadelphia in 1874 zoos have promised their visitors a journey into the natural world And for more than a century they have been popular places for education and recreation every year more than 130 million Americans go to zoos to look at the animals and enjoy a day outdoors The first book length history of American zoos *Animal Attractions* examines the meaning of nature in the city by looking at the ways zoos have assembled and displayed their animal collections Situated literally and culturally in the American middle landscape zoos are concrete expressions of longstanding tensions between wildness and civilization science and popular culture education and entertainment In their efforts to promote nature appreciation they reveal much about how our culture envisions the natural world and the human place in it and how these ideas have changed

*Reader's Guide to the History of Science* Arne Hessenbruch,2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

The European Origins of Scientific Ecology Pascal Acot,2021-01-07 Over the last few decades historians of scientific ecology have brought to light the role of the European scientists who have laid the basic cornerstones of modern ecology between the end of the eighteenth century and the beginning of the twentieth century The foundations of geobotany were laid by Alexander von Humboldt 1769 1859 Augustin Pyramus de Candolle 1778 1841 Alphonse Jules Dureau de la Malle 1777 1857 Gaston Bonnier 1853 1922 and Charles Flahault 1852 1935 biocenotics by Erasmus Darwin 1731 1802 Charles Lyell 1797 1875 Pierre Fran ois Verhulst 1804 1849 Charles Darwin 1809 1882 Karl Moebius 1825 1908 Charles Valentine

Riley 1843 1895 and François Alphonse Forel 1841 1912 agrochemistry and microbiology by Justus von Liebig 1803 1873 Jean Baptiste Boussingault 1802 1887 and Stanislas Winogradski 1856 1953 the taxonomy of communities by August Heinrich Grisebach 1813 1879 Anton Kerner von Marilaun 1831 1898 Alphonse de Candolle 1806 1893 and Charles Flahault and anthropogeography by Karl Ritter 1779 1859 Elisée Reclus 1830 1905 and Friederich Ratzel 1844 1904 Together they created the conditions that with Eugenius Warming 1841 1924 gave birth to the autonomous discipline of scientific ecology thirty years after the German biologist Ernst Haeckel 1834 1919 had christened this new branch of biology Up to now the writings of these scientists have been scattered in various publications that were often not accessible which made a comparative study almost impossible There was thus a need to bring together the primary sources in their original form pagination and language whenever possible a version of the text has been made available in a second language as well They are gathered here in two volumes in an analytical framework that aids in understanding their relevant historical context and significance To deal with the complex multidisciplinary roots of the history of ecology Pascal Acot has brought together a group of historians with authoritative knowledge of the field's various sub branches without ever losing sight of ecology's relationship to the broader history of biology and the environmental sciences

*Sergei Vinogradskii and the Cycle of Life* Lloyd Ackert, 2012-10-29 This is one of those biographies that provide a window onto the broader understanding of science in its social and cultural context Using Sergei Nikolaevich Vinogradskii's career and scientific research trajectory as a point of entry this book illustrates the manner in which microbiologists chemists botanists and plant physiologists inscribed the concept of a cycle of life into their investigations Their research transformed a longstanding notion into the fundamental approaches and concepts that underlay the new ecological disciplines that emerged in the 1920s The book presents a reconstruction of significant episodes of Vinogradskii's laboratory practices and the role of theory in their development It paints the broader picture of the history of ecology microbiology and soil science and how these are uniquely united through the concept of the cycle of life

**Stations in the Field** Raf De Bont, 2015-03-20 Modern zoological research aims to study the animal in its own dwelling place Otto Zacharias a German plankton specialist and former science journalist made this claim in 1905 More than hundred years later it might sound surprising When we think of sites of animal research that symbolize modernity the first places that come to mind are not too far from Zacharias's example the parts of inland lakes favored by freshwater plankton The period around 1900 after all witnessed the rise of grand urban research institutes that housed industrial type laboratories filled with mercury pumps new fangled microscopes galvanometers electric centrifuges gas motors and spectrometers Yet Zacharias belonged to a group of zoologists who were establishing a novel way of studying nature in the field They developed what ecologists today describe as place based research It focuses on complex systems of interacting organisms usually through studies over long periods of time in a natural field context This was a modern approach and as such it needed modern infrastructure the field station Beginning in the 1870s a growing number of

biological field stations were founded first in Europe and later elsewhere around the world. Thousands of zoologists received their training and performed their research at these sites. By revealing the intricate activities that enabled them to perform science in the animal's dwelling place, Raf de Bont is the first to give this history of how life scientists were brought closer to living nature.

**Evolution by Association** Jan Sapp, 1994-09-15 In this comprehensive history of symbiosis theory, the first to be written, Jan Sapp masterfully traces its development from modest beginnings in the late nineteenth century to its current status as one of the key conceptual frameworks for the life sciences. The symbiotic perspective on evolution, which argues that higher species have evolved from a merger of two or more different kinds of organisms living together, is now clearly established with definitive molecular evidence demonstrating that mitochondria and chloroplasts have evolved from symbiotic bacteria. In telling the exciting story of an evolutionary biology tradition that has effectively challenged many key tenets of classical neo-Darwinism, Sapp sheds light on the phenomena, movements, doctrines, and controversies that have shaped attitudes about the scope and significance of symbiosis. Engaging and insightful, *Evolution by Association* will be avidly read by students and researchers across the life sciences.

**Empire Forestry and the Origins of Environmentalism** Gregory Allen Barton, 2002-10-17 What we now know of as environmentalism began with the establishment of the first empire forest in 1855 in British India, and during the second half of the nineteenth century over ten per cent of the land surface of the earth became protected as a public trust. Sprawling forest reservations, many of them larger than modern nations, became revenue-producing forests that protected the whole household of nature. Rudyard Kipling and Theodore Roosevelt were among those who celebrated a new class of government foresters as public heroes. Imperial foresters warned of impending catastrophe, desertification, and global climate change if the reverse process of deforestation continued. The empire forestry movement spread through India, Africa, Australia, New Zealand, Canada, and then the United States to other parts of the globe. Gregory Barton's study looks at the origins of environmentalism in a global perspective.

**Geographies of Science** Peter Meusburger, David Livingstone, Heike Jöns, 2010-06-14 This collection of essays aims to further the understanding of historical and contemporary geographies of science. It offers a fresh perspective on comparative approaches to scientific knowledge and practice as pursued by geographers, sociologists, anthropologists, and historians of science. The authors explore the formation and changing geographies of scientific centers from the sixteenth to the twentieth centuries and critically discuss the designing of knowledge spaces in early museums, in modern laboratories, at world fairs, and in the periphery of contemporary science. They also analyze the interactions between science and the public in Victorian Britain, interwar Germany, and recent environmental policy debates. The book provides a genuine geographical perspective on the production and dissemination of knowledge and will thus be an important point of reference for those interested in the spatial relations of science and associated fields. The Klaus Tschira Foundation supports diverse symposia, the essence of which is published in this Springer series. [www.kts.villa-bosch.de](http://www.kts.villa-bosch.de)

**Highland Sanctuary** Christopher Allan

Conte, 2004 Highland Sanctuary unravels the complex interactions among agriculture herding forestry the colonial state and the landscape itself Conte's study illuminates the debate over conservation arguing that contingency and chance the stuff of human history have shaped forests in ways that rival the power of nature *The Floracrats* Andrew Goss, 2011-02-01 Situated along the line that divides the rich ecologies of Asia and Australia the Indonesian archipelago is a hotbed for scientific exploration and scientists from around the world have made key discoveries there But why do the names of Indonesia's own scientists rarely appear in the annals of scientific history In *The Floracrats* Andrew Goss examines the professional lives of Indonesian naturalists and biologists to show what happens to science when a powerful state becomes its greatest and indeed only patron With only one purse to pay for research Indonesia's scientists followed a state agenda focused mainly on exploiting the country's most valuable natural resources above all its major export crops quinine sugar coffee tea rubber and indigo The result was a class of botanic bureaucrats that Goss dubs the floracrats Drawing on archives and oral histories he shows how these scientists strove for the Enlightenment ideal of objective universal and useful knowledge even as they betrayed that ideal by failing to share scientific knowledge with the general public With each chapter Goss details the phases of power and the personalities in Indonesia that have struggled with this dilemma from the early colonial era through independence to the modern Indonesian state Goss shows just how limiting dependence on an all powerful state can be for a scientific community no matter how idealistic its individual scientists may be **Biology Takes Form** Lynn K. Nyhart, 1995-10-15 Morphology the study of form is often regarded as a failed science that made only limited contributions to our understanding of the living world Challenging this view Lynn Nyhart argues that morphology was integral to the life sciences of the nineteenth century *Biology Takes Form* traces the development of morphological research in German universities and illuminates significant institutional and intellectual changes in nineteenth century German biology Although there were neither professors of morphology nor a morphologists society morphologists achieved influence by colonizing niches in a variety of disciplines Scientists in anatomy zoology natural history and physiology considered their work morphological and the term encompassed research that today might be classified as embryology systematics functional morphology comparative physiology ecology behavior evolutionary theory or histology Nyhart draws on research notes correspondence and other archival material to examine how these scientists responded to new ideas and to the work of colleagues She examines the intertwined histories of morphology and the broader biological enterprise demonstrating that the study of form was central to investigations of such issues as the relationships between an animal's structure and function between an organism and its environment and between living species and their ancestors **Field Life** Jeremy Vetter, 2016-11-01 *Field Life* examines the practice of science in the field in the Great Plains and Rocky Mountains of the American West between the 1860s and the 1910s when the railroad was the dominant form of long distance transportation Grounded in approaches from environmental history and the history of technology it emphasizes the material basis of

scientific fieldwork joining together the human labor that produced knowledge with the natural world in which those practices were embedded Four distinct modes of field practice which were shared by different field science disciplines proliferated during this period surveys lay networks quarries and stations and this book explores the dynamics that underpinned each of them Using two diverse case studies to animate each mode of practice as well as the making of the field as a place for science *Field Life* combines textured analysis of specific examples of field science on the ground with wider discussion of the commonalities in the practices of a diverse array of field sciences including the earth and physical sciences the life and agricultural sciences and the human sciences By situating science in its regional environmental context *Field Life* analyzes the intersection between the cosmopolitan knowledge of science and the experiential knowledge of people living in the field Examples of field science in the Plains and Rockies range widely geological surveys and weather observing networks quarries to uncover dinosaur fossils and archaeological remains and branch agricultural experiment stations and mountain biological field stations

*Scientific Credibility and Technical Standards in 19th and early 20th century Germany and Britain* Jed Z. Buchwald, 2012-12-06 The articles in this first volume of ARCHIMEDES explicitly and intentionally cross boundaries between science and technology and they also illuminate one another The first three contributions concern optics and industry in 19th century Germany the fourth concerns electric standards in Germany during the same period the last essay in the volume examines a curious development in the early history of wireless signalling that took place in England and that has much to say about the establishment and enforcement of standard methods in a rapidly developing technology that emerged out of a scientific effect Historical work over the last few decades has shown that technology cannot be characterized simply or even usually as applied science The beliefs the devices and the natural objects that are created or discovered by scientists often play altogether minor roles in the construction of technologies Taking this realization as a given the essays in *Scientific Credibility and Technical Standards* effectively argue that we must now seek to go beyond it we must also begin to think carefully about the role that science actually did play when it was explicitly deployed by technologists

*Birth of Scientific Ecology* Patrick Matagne, 2024-03-19 This book presents a biography of the Danish botanist Eugen Warming As the author of a treatise on ecology that brought him international recognition he was able to inspire the first generation of 20th century European and American ecologists His innovative approach to nature and his Arctic and tropical missions heralded the birth of a new science and an ecological awareness As a professor at several Scandinavian universities during a period of intense debate and controversy over evolutionary theories Eugen Warming vigorously asserted his convictions *Birth of Scientific Ecology* presents the image of a man of knowledge and power recognized by his contemporaries as a founder of ecology and a player in the ecological project of the Kingdom of Denmark at a time when the empires were clashing

**The Cambridge History of Science: Volume 6, The Modern Biological and Earth Sciences** David C. Lindberg, Peter J. Bowler, Ronald L. Numbers, Roy Porter, 2003 This book in the highly



respected Cambridge History of Science series is devoted to the history of the life and earth sciences since 1800. It provides comprehensive and authoritative surveys of historical thinking on major developments in these areas of science on the social and cultural milieus in which the knowledge was generated and on the wider impact of the major theoretical and practical innovations. The articles are written by acknowledged experts who provide concise accounts of the latest historical thinking coupled with guides to the most important recent literature. In addition to histories of traditional sciences the book covers the emergence of newer disciplines such as genetics, biochemistry and geophysics. The interaction of scientific techniques with their practical applications in areas such as medicine is a major focus of the book as is its coverage of controversial areas such as science and religion and environmentalism.

**The Uses of Life** Robert Bud, 1994-05-27. This book shows for the first time how modern biotechnology grew out of this century's hopes for a new relationship between biology and engineering. Long before recombinant DNA these promised a new kind of technology. By exploring the rich and surprisingly overlooked complex of prophesies, industrial and scientific development and government programs the book sheds new light on the expectations now held for biotechnology. A world wide view covering developments not just in America but also in Europe and Japan uncovers surprising links. This makes possible a coherent story to supersede the historical notes which have been available until now. This first history of biotechnology provides a readable and challenging account that will appeal to anyone interested in the development of this key component of modern industry.

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