

THE ENVIRONMENT & NATURAL HISTORY



FOR LOVE OF LAKES

MICHIGAN STATE UNIVERSITY PRESS

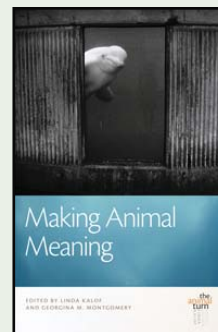
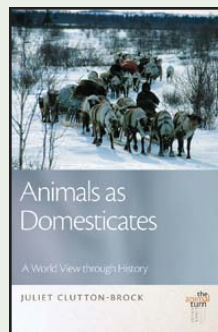
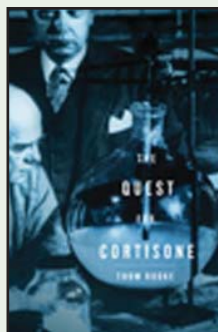
1405 SOUTH HARRISON, SUITE 25, EAST LANSING, MI 48823-5245 USA
MSUPRESS.MSU.EDU



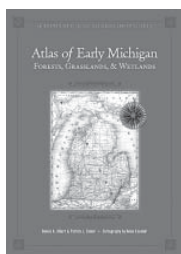
Michigan and the Great Lakes.....1-3
 Canada and the Arctic.....3
 Environment and Ecology.....3-4
 Natural History and Biology.....4-6
 Ocean Ecology.....6
 World Ecology and Environments.....6
 Forthcoming Titles.....6

MICHIGAN STATE UNIVERSITY PRESS is a member of the Green Press Initiative, committed to developing and encouraging ecologically responsible publishing practices. All new MSU Press books are printed on paper that is approved by the Forest Stewardship Council. Our books meet the minimum requirements established by the American National Standard for Information Sciences—permanence of paper for printed materials, ANSI Z39.48-1992 (R1997). We participate in the Library of Congress Cataloging in Publication Program, and are a member of The Society for Scholarly Publishing and the Association of American University Presses.

Featured Titles

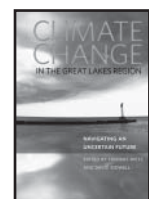


Michigan and the Great Lakes



Atlas of Early Michigan's Forests, Grasslands, and Wetlands: An interpretation of the 1816–1856 General Land Office Surveys

Dennis A. Albert and Patrick J. Comer
 Readers will be able to see what European explorers first saw as they settled Michigan: This book provides, in a modern, easy-to-use map book (or "gazetteer") the historical notes and maps of Michigan that were created by surveyors from the federal General Land Office (GLO) between 1816 and 1856. Each forest, wetland, or prairie type shown on the GLO maps is now illustrated with a photograph and briefly described. Illustrated with photographs, maps. References, index. Paper, 136 pp., 11" x 15½", 978-0-87013-831-7, \$29.95



Climate Change in the Great Lakes: Navigating an Uncertain Future

Thomas Dietz and David Bidwell, editors
 People living in the Great Lakes region are already feeling the effects of a changing climate. Shifts in seasonal temperatures and precipitation patterns could have dramatic impacts on the economy, ecology, and quality of life. In this illuminating and thorough volume, leading scholars address the challenge of preparing for climate change in the region, where decision makers from various sectors—government, agriculture, recreation, and tourism—must increasingly be aware of the need to incorporate climate change into their short- and long-term planning. Written by climate change scholars in North America, this outlines the major trends in the climate of the Great Lakes region, how humans might cope with the uncertainty of climate change impacts, and examples of on-the-ground projects that have addressed these issues. 49 B&W illustrations, notes, references. Cloth, 256 pp., 978-1-61186-012-2, \$39.95



Cold, Clear, and Deadly: Unraveling a Toxic Legacy

Melvin J. Visser
Cold, Clear, and Deadly is a mystery to discover the source of persistent organic pollutants (POPs) in cold northern waters ranging from the Great Lakes to the Arctic and the story of the evolution of its author: from a chemical and bioprocess scientist to the vice president in charge of a major company's corporate environmental division; to engaging in international research and travel. Illustrated, Index. Cloth, 160 pp., 978-0-87013-802-7, \$24.95



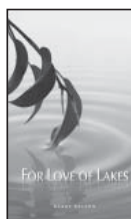
Evolution of the Great Lakes Water Quality Agreement

Lee Botts, Paul Muldoon
 Water quality concerns are not new to the Great Lakes. The 1909 Great Lakes Water Quality Agreement became a model to the world for environmental management across an international boundary and led to the successful lowering of phosphorus levels that saved Lake Erie and the rest of the Great Lakes ecosystem. Index, glossary, appendix. Dave Dempsey Environmental Studies Series. Paper, 7 x 10, 256 pp., 978-0-87013-752-5, \$34.95



Fish for All: An Oral History of Multiple Claims and Divided Sentiment on Lake Michigan

Michael J. Chiarappa, Kristin M. Szyllvian
Winner: Historical Society of Michigan Award of Merit
 Lake Michigan's fisheries have been divided by disputes from sport/commercial fishing, policy-making of state government, ecological changes, and the reclamation of treaty-rights fishing by Native Americans. *Fish for All* points to the evolving communication fisheries historians, fisheries anthropologists, scientists, and policymakers. 100 B/W photos. Cloth, 544 pp., 978-0-87013-634-4, \$49.95
 Paper, 544 pp., 978-0-87013-654-2, \$24.95



For Love of Lakes

Darby Nelson
 Forty-five percent of surveyed lakes and eighty percent of urban lakes do not meet water quality standards. This book documents our species' long relationship with lakes—their glacial origins, Thoreau and his environmental message, and the major perceptual shifts and advances in our understanding of lake ecology. B&W illustrations, notes, references, index. Paper, 224 pp., 978-1-61186-021-4, \$24.95



Fresh Water: Women Writing on the Great Lakes

Winner: Michigan Notable Book Award
 Alison Swan
 This is a collection of memoirs and essays by literary women writing about their own creative streams of consciousness, the fresh waters of the Great Lakes, and the region's many rivers. Contributors include Judith Minty, Alison Swan, and poet Diane Wakoski. Paper, 256 pp., 978-0-87013-789-1, \$26.95



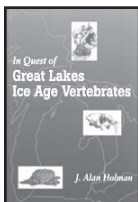
Great Lakes Fisheries Policy and Management - A Binational Perspective

Edited by C. Paola Ferreri, William W. Taylor
Great Lakes Fisheries Policy and Management focuses on the United States-Canada experience with shared fishery resources and our current understanding of the ecological, sociological, and policy issues that face Great Lakes fishery managers and policymakers in both countries. Notes, maps, bibliography, index. Cloth, 600 pp., 978-0-87013-483-8, \$59.95



The Holy Earth

Liberty Hyde Bailey
 Bailey—a gifted teacher, administrator, scientist, author, public servant, poet, and philosopher—is known as the Father of American Horticulture. In this facsimile edition, progressive and provocative, Bailey's seminal 1915 work calls on the individual to recognize the divine in the common land we occupy. His lectures and writings encouraged the application of science in horticulture and were influential in early efforts to protect the environment. Paper, 144 pp., 978-0-87013-832-4, \$14.95



In Quest of Great Lakes Ice Age Vertebrates
J. Alan Holman
This is the first book of its kind dealing with Ice Age fishes, amphibians, reptiles, birds, and mammals in the provinces and states surrounding the Great Lakes. The heart of the book is a species-by-species account of the Pleistocene vertebrates of the region, followed by an examination of the compelling problems of the Pleistocene relative to faunal interpretations. Illustrations, maps, charts, notes, index. Cloth, 9x12, 239 pp., 978-0-87013-591-0, \$59.95



Michigan State Parks
Claire V. Korn
More than a handbook, this has thumbnail descriptions of the history and attractions of 85 state parks in Michigan. Notes, Bibliography, index, photographs. Paper, 9x6, 194 pp., 978-0-87013-275-9, \$14.25



Michigan Wildlife Viewing Guide
Phil T. Seng and David J. Case
125 best locations for viewing Michigan wildlife. Full color photographs, Maps; brief descriptions of ecological concepts. Paper, 152 pp., 978-0-87013-350-3, \$9.95



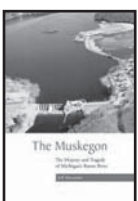
**Michigan's State Forests
A Century of Stewardship**
William B. Botti and Michael D. Moore
Michigan's 19th-century white pine stands were the finest the world has ever seen: Dense, parklike, more than 150 feet tall. Lumber became a mainstay of Michigan's economy as logging and railroad entrepreneurs became adept at harvesting, transporting, and processing pine logs. This abandoned, cutover, and often burned wilderness has been converted once again into highly productive and protected public lands. B/W photos, index, bibliography. Paper, 256 pp., 978-0-87013-780-8, \$29.95



**Modeling Archaeological Site Burial in Southern Michigan
A Geoarchaeological Synthesis**
G. William Monaghan and William A. Lovis
Compiled and synthesized data on deeply buried archaeological sites in southern Lower Michigan—the most comprehensive, single compendium for any region of the Great Lakes. This book examines relationships between regional and local scale fluvial system evolution and the processes resulting in the deep burial of archaeological sites. Index, maps, photographs. Book with CDROM: CD requires ArcView 3.2. Paper, 8.5 x 11, 278 pp., 978-0-87013-738-9, \$35.95

Of Related Interest - Forthcoming:

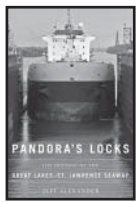
The Geoarchaeology of Lake Michigan Coastal Dunes
William A. Lovis, Alan F. Arbogast, and G. William Monaghan



**The Muskegon
The Majesty and Tragedy of Michigan's Rarest River**
Jeff Alexander
**Winner: Michigan Notable Book Award,
Winner: Historical Society of Michigan History Award
Winner: ForeWord Book of the Year Award**
The Muskegon River was used by French fur trappers in the 1600s, rich in white pine and developed during the lumber boom; there is now an effort to restore this mighty river's natural features. B/W photos, bibliography, index. Paper, 256 pp., 978-0-87013-786-0, \$24.95



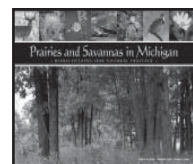
**On the Brink
The Great Lakes in the 21st Century**
Dave Dempsey
**Winner: Michigan Notable Book Award
Winner: Historical Society of Michigan Award of Merit**
The Great Lakes have served in recent decades as an early warning system for many emerging environmental problems. Contrasting the incomparable beauty and complexity of the Lakes, and the poetry, folklore, and citizen action they have inspired, with the disasters that short-sighted human folly has inflicted on the ecosystem, Dempsey makes this history both engaging and relevant to today's debates and decisions. Photographs. Paper, 288 pp., 978-0-87013-705-1, \$24.95



Pandora's Locks: The Opening of the Great Lakes-St. Lawrence Seaway
Jeff Alexander
**Winner: Michigan Notable Book Award
Winner: Michigan Historical Society Award
Winner: Great Lakes Coalition Award
Winner: CHOICE Outstanding Academic Title Award**
The St. Lawrence Seaway was considered one of the world's greatest engineering achievements when it opened in 1959—a series of locks, canals, and dams that tamed the ferocious St. Lawrence River opened the Great Lakes to the global shipping industry. Photographs, maps, notes, references, index. Paper, 416 pp., 978-0-87013-872-0, \$19.95



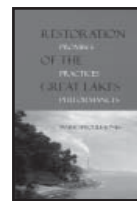
The Poisoning of Michigan
Joyce Egginton
**Winner: Midwest Book Award
Winner: AAUP Jacket & Cover Design Award**
The highly toxic PBB poisoning of Michigan remains the most widespread chemical contamination in U.S. history. This is an investigative journalist's account of the 1973 contamination of Michigan's dairy cattle with the highly toxic chemical PBB (polybrominated biphenyl). By the time the error was discovered, virtually all nine million residents of Michigan had been ingesting contaminated milk and meat for almost a year. A new introduction by the author and an afterword by three distinguished environmental scientists explain how the legacy of Michigan's poisoning lives on—and how equally toxic substitutes for PBB still invade our homes and lives. Notes, references, index. Paper, 368 pp., 978-0-87013-867-6, \$19.95



**Prairies and Savannas in Michigan
Rediscovering Our Natural Heritage**
Ryan P. O'Connor, Michael A. Kost, and Joshua G. Cohen
Prairies and savannas are a rare and unique part of Michigan's natural heritage. Once a significant portion of Lower Michigan's landscape, these have nearly vanished, along with numerous species that rely on the habitats they provide. *Prairies and Savannas* clearly describes the variety of natural habitats and noteworthy species found in each. Color photographs, maps, references, notes, index. Paper, 10x7, 152 pp., 978-0-87013-845-4, \$24.95



Public Gardens of Michigan
Miriam Easton Rutz
Foreword Magazine Book of the Year Finalist
Rutz uncovers the history, politics, and legacy of 34 of Michigan's public gardens, cemeteries, zoological parks, and breathtaking vistas. 165 color photos, Notes, Bibliography. Cloth, 108 pp., 11x11, 978-0-87013-627-6, \$34.95



**Restoration of the Great Lakes
Promises, Practices, and Performances**
Mark Sproule-Jones
This challenging study examines the history of the key uses of the Great Lakes, and the relative successes and failures of the institutions that govern the Lakes' resource management. Notes, bibliography, index. Paper, 144 pp. 978-0-87013-628-3, \$24.95



Shoreline: Seasons at the Lake
Elizabeth A. Schultz
Shoreline touches the reader on many levels: as a memoir,abiography,ahistory,andasastudyofnature, with a debt to Thoreau. Notes, color photographs. Cloth, 256 pp., 9 x 6, 978-0-87013-593-4, \$39.95

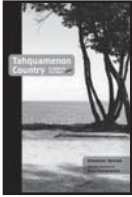


**Sixties Sandstorm
The Fight over Establishment of a Sleeping Bear Dunes National Park**
Brian C. Kalt
Sixties Sandstorm is not a book about dunes as much as it is a book about people and their government. The Dunes park fight is a case study of the politics, the 1961 legislative process, citizen response to the expanded role of government in the 1960s, and the rise of the environmental movement in America during that decade. Photographs, Notes, Bibliography. Paper, 224 pp., 978-0-87013-559-0, \$17.95



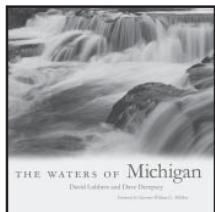
Sustaining Michigan

Edited by Richard W. Jelmer and Gary Sands
Sustaining Michigan links critical, cutting-edge scholarship to pressing issues facing Michigan's metropolitan communities and increases understanding of the key economic, environmental, social, and political reasons for why change is underway. Illustrations, notes, references.
 Paper, 480 pp., 978-0-87013-850-8, \$24.95



Tahquamenon Country A Look at Its Past

Sprague Taylor
 Much of Michigan's history is not contained in the grand stories of great personages involved in epic accomplishments. Rather, the state's history — and for that matter, the histories of the world and even our own families — is in truth of a local scale and in minute detail. Taylor writes of people whose lives were marked by this most majestic river and the land it sustained. Photographs, Notes.
 Paper, 152 pp., 978-0-87013-833-1, \$14.95



The Waters of Michigan

David Lubbers and Dave Dempsey
 Foreword by Governor William G. Milliken
 Combining the vision of internationally renowned photographer David Lubbers with the stewardship of environmentalist Dave Dempsey, this collection presents a truly unique view and understanding of waters of Michigan. 80 duotone illustrations, notes.
 Cloth, 96 pp., 11" x 11", 978-0-87013-830-0, \$29.95

Canada and the Arctic



A Century of Parks Canada, 1911–2011

Edited by Claire Campbell
 When Canada created Dominion Parks Branch in 1911, it became the first country in the world to establish an agency devoted to managing its national parks. Over the past century this agency, now Parks Canada, has been at the center of important debates about the place of nature in Canadian nationhood and relationships between Canada's diverse ecosystems and its communities. 44 B&W photos, 19 maps.
 Paper, 458 pp., 978-1-55238-526-5, \$34.95



Formidable Heritage, Manitoba's North and the Cost of Development

Jim Mochoruk
 Mochoruk shows how government and business worked together to transform what had been the exclusive fur-trading preserve of the Hudson's Bay Company into an industrial hinterland. He follows the many twisting paths established by developers and politicians as they chased their economic growth goal, and recounts the ultimate costs of development in economic, ecological, and political terms. B&W illustrations, maps.
 Paper, 256 pp., 978-0-88755-676-X, \$27.95



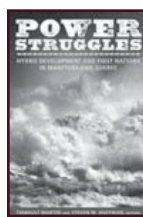
Guardians of the Wild A History of the Warden Service of Canada's National Parks

Robert Burns
 The Warden Service has been integral to Canada's National Parks from their earliest days. This is a study of real people and their trials, triumphs and tragedies. This book creates a complete history where before there existed only sketchy accounts of single individuals and incidents. 62 photographs.
 Paper, 390 pp., 978-1-55238-018-5, \$24.95



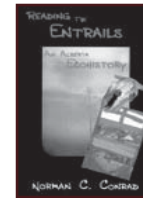
Places: Linking Nature, Culture, and Planning

J. Gordon Nelson
 In recent years, environmental conservation and sustainable development have become critical parts of the planning equation. However, most attempts to incorporate these considerations have focused too narrowly on specialized economic, geologic, biological, or other factors. The ABC Method links Abiotic, Biotic, and Cultural factors in a systematic and comprehensive analysis with the aim of achieving better understanding of and planning for the challenges facing places and the people living in them. Color photos, index.
 Paper, 520 pp., 978-1-55238-254-7, \$44.95



Power Struggles Hydroelectric Development and First Nations in Manitoba and Quebec

Edited by Thibault Martin
Power Struggles examines the evolution of agreements between hydro-corporations and First Nations in Quebec and Manitoba. Hydro Québec, at one time heavily criticized by Aboriginal leaders, scholars, and international institutions, has signed agreements that some have characterized as "groundbreaking" in establishing a new social contract between the state and First Nations. Conversely, Manitoba Hydro continues to develop "business-only partnerships" on a community-by-community basis, a controversial process. Maps, bibliography, index.
 Paper, 240 pp., 978-0-88755-705-7, \$34.95



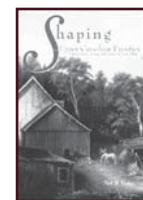
Reading the Entrails: An Alberta Ecohistory

Norman Conrad
 This controversial book vividly portrays the history of land and life in Alberta from the Ice Ages to the present. Before the fall of Imperial Rome, priests cast the guts of sacrificial animals on the temple floor, claiming to be able to divine the future from these entrails.
 Paper, 215 pp., 978-1-55238-012-3, \$19.95



Roughnecks, Rock Bits, and Rigs The Evolution of Oil Well Drilling Technology in Alberta, 1883-1970

Sandy Gow
 This is a comprehensive study of the evolution of drilling technology in Alberta, from the development of power sources and drill bit designs to the composition of drilling muds and the use of fishing tools. B/W photos and illustrations.
 Paper, 467 pp., 978-1-55238-067-3, \$44.95



Shaping the Upper Canadian Frontier Environment, Society and Culture in the Trent Valley

Neil S. Forkey
 Forkey makes a significant contribution to the growing body of work on environmental history. The Trent Valley's geography, prehistory, and native peoples (the Huron and the Mississauga) are discussed alongside the Anglo-Celtic migrations and "resettlement" of the area. Careful attention is devoted to the life and nature writings of Catherine Parr Trill.
 Cloth, 450 pp., 978-1-55238-049-9, \$34.95



What's All This Got to Do with the Price of 2'x4's?

Michael Apsey
 Apsey has seen firsthand the complexities of forest management. This is an insider's account that gives readers a new perspective on the competing tensions of conservation and international economics. With the perspective of someone who has served on both sides of the issue—industry and government—Apsey is in a unique position to advance timely recommendations for a system of forestry governance and offer a new approach to developing forest policy.
 Paper, 347 pp., 978-1-55238-188-5, \$34.95

Environment and Ecology



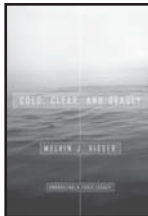
Arboriculture History and Development in North America

Richard J. Campana
 Arboriculture—the emphasis on keeping trees alive and healthy—has emerged only recently as a profession, however, the practices in use today are the culmination of decades of development. Beginning with a discussion of the origins of planting, transplanting, and pruning, Richard Campana provides a breadth and depth of understanding of how arboriculture has become an important force in modern ecology. Specific topics that are discussed include: the introduction of woody plants into North America; botanical gardens and arboreta; gypsy moths; Dutch elm disease; the Davey, Bartlett, and Asplundh tree experts; herbicides, insecticides and fungicides; pruning; fertilization; wound treatment; and cabling, bracing, and lightning protection.
 Cloth, 483 pp., 978-0-87013-497-5, \$39.95



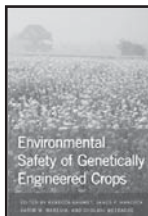
Biocultural Diversity and Indigenous Ways of Knowing: Human Ecology in the Arctic

Karim-Aly Kassam
This book deals with contemporary issues such as climate change, indigenous knowledge, and the impact of natural resource extraction. It is a narrative of community-based research, in the service of the communities for the benefit of the communities. 6 maps (1 foldout), 6 tables, 19 figures. Paper, 288 pp., 978-1-55238-253-0, \$34.95



Cold, Clear, and Deadly: Unraveling a Toxic Legacy

Melvin J. Visser
Winner: AAUP Excellence for Book Jacket Design
Cold, Clear, and Deadly is a mystery to discover the source of persistent organic pollutants (POPs) in cold northern waters ranging from the Great Lakes to the Arctic and the story of the evolution of its author: from a chemical and bioprocess scientist to the vice president in charge of a major company's corporate environmental division; to engaging in international research and travel. Illustrated, Index. Cloth, 160 pp., 978-0-87013-802-7, \$24.95



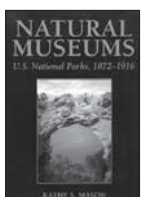
Environmental Safety of Genetically Engineered Crops

Edited by Rebecca Grumet, James F. Hancock, Karim M. Maredia
Since the mid-1990s, when the technology was first introduced, the cultivation of genetically engineered (GE) crops has grown exponentially. In the U.S. alone, adoption rates for transgenic cotton, corn, and soybeans are between 70–90%. Across the globe, 14 million farmers grow GE crops in more than twenty countries. Yet many countries are discussing and debating the use and adoption of GE technology because of concerns about their impact on the environment and human health. Now, in this comprehensive handbook, a team of international experts present the scientific basis for GE crops, placing them in the context of current agricultural systems, and examining the potential environmental risks posed by their deployment. An integrated approach to an increasingly hot and globally debated topic, the book considers the past, present, and future of GE crops, and offers an invaluable perspective for regulation and policy development. 7x10, b&w photos, notes, references, index. Cloth, 400 pp., 978-1-61186-008-5, \$49.95



Film and the American Moral Vision of Nature: Theodore Roosevelt to Walt Disney

Ronald B. Tobias
With his square, bulldoggish stature, signature rimless glasses, and inimitable smile — part grimace, part snarl — Theodore Roosevelt was an unforgettable figure, imprinted on the American memory through photographs, the chiseled face of Mount Rushmore, and, especially, film. At once a hunter, explorer, naturalist, woodsman, and rancher, Roosevelt was the quintessential frontiersman, a man who believed that only nature could truly test and prove the worth of man. A documentary he made about his 1909 African safari embodied aggressive ideas of masculinity, power, racial superiority, and the connection between nature and manifest destiny. These ideas have since been reinforced by others — Jesse “Buffalo” Jones, Paul Rainey, Martin and Osa Johnson, and Walt Disney. Using Roosevelt as a starting point, filmmaker and scholar Ronald Tobias traces the evolution of American attitudes toward nature, attitudes that remain, to this day, remarkably conflicted, complex, and instilled with dreams of empire. 7x10, B&W photos, notes, references, index. Cloth, 320 pp., 978-1-61186-001-6, \$39.95



Natural Museums: U.S. National Parks, 1872-1916

Kathy S. Mason
The earliest national parks were viewed as natural museums—monuments to national grandeur that would edify visitors. *Natural Museums* examines the ideas of park monumentalism, “worthlessness,” and national significance, as well as the parks’ roles as wilderness preserves and recreational centers. Black & White Illustrations. Paper, 128 pp., 978-0-87013-711-2, \$24.95



Protected Areas and the Regional Planning Imperative in North America: Integrating Nature, Conservation, and Sustainable Development

Edited by Gordon Nelson, J. C. Day, Lucy M. Sportza, James Loucky, and Carlos Vasquez
This timely collection of essays that presents new protected area theory, method, and practice reinforces this theme of regional planning. Tables and figures. Paper, 408 pp., 978-0-87013-673-3, \$39.95



Tools for Environment Management: A Practical Introduction and Guide

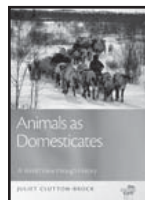
Edited by Dixon Thompson
Thompson presents a set of 22 environmental management tools that can be applied to a local, national, and international situation. Each tool is described using specific examples, in addition to highlighting legal requirements and standards, and how best to apply each tool. Figures, tables, index. Cloth, 478 pp., 978-0-88953-289-2, \$62.95



Transboundary Policy Challenges in the Pacific Border Regions of North America

James Loucky
Transboundary Policy Challenges advances transborder environmental research and discusses sensible policy directions with particular focus on critical areas of international concern and engagement: land and water use planning; regional growth management; trade and transportation corridors; environmental education; and travel and tourism. Contributors to the volume represent a range of disciplines, as well as institutions in Canada, the United States, and Mexico. Maps. Paper, 240pp., 978-155238-223-3, \$34.95

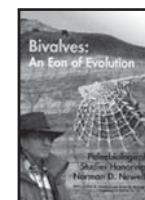
Natural History and Biology



Animals as Domesticates: A World View through History

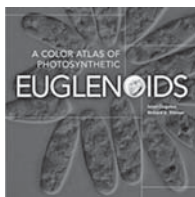
Juliet Clutton-Brock
Since their origin in the Early Cambrian age, bivalve molluscs have evolved Drawing on the latest research in archaeozoology, archaeology, and molecular biology, *Animals as Domesticates* traces the history of the domestication of animals around the world. From the llamas of South America and the turkeys of North America, to the cattle of India and the Australian dingo, this fascinating book explores the history of the complex relationships between humans and their domestic animals. With expert insight into the biological and cultural processes of domestication, Clutton-Brock suggests how the human instinct for nurturing may have transformed relationships between predator and prey, and she explains how animals have become companions, livestock, and laborers. The changing face of domestication is traced from the spread of the earliest livestock around the Neolithic Old World through ancient Egypt, the Greek and Roman empires, South East Asia, and up to the modern industrial age. B&W photos, maps, notes, references, index, 7 x 10. Cloth, 200 pp., 978-1-61186-028-3, \$44.95

Of Related Interest: Making Animal Meaning: Taxonomy, Ecology, Techniques, and Management
Edited by Linda Kalof and Georgina M. Montgomery



Bivalves, an Eon of Evolution: Paleobiological Studies Honoring Norman D. Newell

Foreword by Stephen Jay Gould
Paul Johnston
Since their origin in the Early Cambrian age, bivalve molluscs have evolved a remarkable variety of forms that reflect their diverse habits through the Phanerozoic Eon. An international group of authors draw on diverse aspects of both fossil and living bivalves, including their form, functional morphology, morphogenesis, taphonomy, shell microstructure, cladistic relationships, biostratigraphic distributions, and molecular sequences. The result is an authoritative and comprehensive collection of studies. 270 photographs and illustrations. Paper, 481 pp., 978-1-55238-004-8, \$44.95

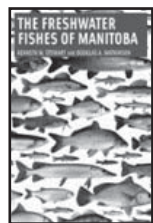


A Color Atlas of Photosynthetic Euglenoids

Ionel Ciugulea and Richard E. Triemer

Winner: Phycological Society of America Award

This brilliantly illustrated atlas provides a simple visual tool to help identify photosynthetic euglenoids, flagellated single-celled organisms. The atlas provides basic background information such as the history of the various genera, notes on where they can be found, what the cells look like, and the internal and external structures that can be used to identify species. A dichotomous key provides a simple means to identify each of the genera, and a full glossary defines all of the scientific terms used in the text. The main body of the book consists of high resolution color plates of each of the species, organized by genus. The photographs on each plate illustrate the main features used to identify each organism, such as size and body shape, flagellar length, pellicle structure, type of chloroplast, shape, and arrangement of mucocysts. Profusely illustrated with color photographs, high-resolution color images. Glossary, notes, references, index. Cloth, 11x11, 232 pp., 978-0-87013-879-9, \$89.95



The Freshwater Fishes of Manitoba

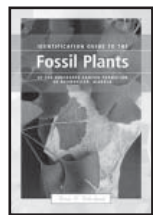
Kenneth Stewart and Douglas Watkinson

Manitoba's ninety-three fish species give it the third most diverse fish population in Canada. Each species is accurately depicted in detailed color photographs and map, with descriptions of physical characteristics, spawning and feeding habits, distribution, habitat, ecological role, and economic importance.

Over 150 color photographs.

Cloth, 276 pp., 978-0-88755-176-5, \$49.95

Paper, 276 pp., 978-0-88755-678-4, \$26.95

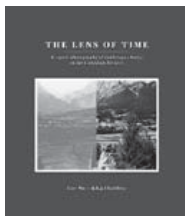


Identification Guide to the Fossil Plants of the Horseshoe Canyon Formation of Drumheller, Alberta

Kevin Aulenback

Plant fossils help scientists reconstruct the natural surroundings that supported the growth and evolution of dinosaurs - their food sources and habitat. This is an easy-to-use guide to identifying cretaceous fossil plant finds. 800 color & B/W illust. Index.

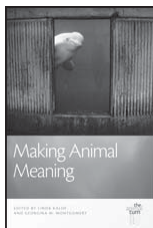
Paper, 396 pp., 978-1-55238-247-9, \$34.95



The Lens of Time A Repeat Photography of Landscape Change in the Canadian Rockies

Cliff White and E. J. (Ted) Hart

Working with historic photographs, White has retraced the steps of the original photographers and taken new shots in the same locales, a technique known as "repeat photography." Comparing these images side-by-side, the authors show the dramatic changes to the Rockies landscape that have occurred over the years. Vintage Color & B/W Photographs. Oversize Paper 12 x 9, 200 pp., 978-155238-237-0, \$69.95



Making Animal Meaning Taxonomy, Ecology, Techniques, and Management

Edited by Linda Kalof and Georgina M. Montgomery
An elucidating collection of ten original essays, *Making Animal Meaning* reconceptualizes methods for researching animal histories and rethinks the contingency of the human-animal relationship. The vibrant and diverse field of animal studies is detailed in these interdisciplinary discussions, which include voices from a broad range of scholars and have an extensive chronological and geographical reach. These exciting discourses capture the most compelling theoretical underpinnings of animal significance while exploring meaning-making through the study of specific spaces, species, and human-animal relations. A deeply thoughtful collection — vital to understanding central questions of agency, kinship, and animal consumption — these essays tackle the history and philosophy of constructing animal meaning. B&W photos, map, notes, references, index. 7x10. Cloth, 312 pp., 978-1-61186-016-0, \$44.95

Of Related Interest:

**Animals as Domesticates:
A World View through History**
by Juliet Clutton-Brock



Martes: Taxonomy, Ecology, Techniques, and Management

Edited by Gilbert Proulx

Martes: martens, fishers, and sables. In 1995, The Second International Martes Symposium, discussed the state of knowledge about mammals of the genus *Martes*, which includes martens, fishers, and sables. 31 technical papers on diverse aspects of these small carnivores. Paper, 496 pp., 978-0-7732-5372-8, \$34.95



The Natural History of the Lewis and Clark Expedition

Edited by Raymond Darwin Burroughs

First published in 1961, this was the first work to discuss in detail the contributions to America's natural history made by the Corps of Discovery (1804-1806), or the Lewis and Clark Expedition, as it is popularly known. Burroughs tallied the quantity of game killed and consumed during the course of the expedition. This paperback edition contains the entire original text, as well as a new introduction by Lewis and Clark scholar Robert Carriker.

Paper, 340 pp., 978-0-87013-389-3, \$19.95



A New Era for Wolves and People Wolf Recovery, Human Attitudes, and Policy

Marco Musiani, Luigi Boitani, and Paul Paquet

This amazing book analyzes the crucial relationship between human ethics, attitudes, and policy and management of wolf populations in Europe and North America. 24 color photographs, maps. Paper, 224 pp., 978-1-55238-270-7, \$29.95



The Quest for Cortisone

Thom Rooke

In 1948, when "Mrs. G.," hospitalized with debilitating rheumatoid arthritis, became the first person to receive a mysterious new compound — cortisone — her physicians were awestruck by her transformation from enervated to energized. After eighteen years of biochemical research, the most intensively hunted biological agent of all time had finally been isolated, identified, synthesized, and put to the test. And it worked. But the discovery of a long-sought "magic bullet" came at an unanticipated cost in the form of strange side effects. This fascinating history recounts the discovery of cortisone and pulls the curtain back on the peculiar cast of characters responsible for its advent, including two enigmatic scientists, Edward Kendall and Philip Hench, who went on to receive the Nobel Prize. The book also explores the key role the Mayo Clinic played in fostering cortisone's development, and looks at drugs that owe their heritage to the so-called "King of Steroids."

Notes. Paper, 284 pp., 978-1-61186-033-7, \$24.95



Seed Testing: Principles and Practices

Sabry G. Elias, Miller B. McDonald,

Lawrence O. Copeland, and Riad Z. Baalbaki

An essential reference for students, seed technologists, researchers, and seed industry personnel, this comprehensive guide outlines the most widely performed modern seed quality tests, explores the principles behind them, the history of seed testing, why seeds are tested and when, and sampling, sub-sampling, seed laboratory management, accreditation, and seed quality assurance programs. The authors describe statistical applications to seed testing and tolerances, and they provide a detailed morphological and structural description of seed formation and development. The book examines the testing of genetic traits and transgenic seeds, including DNA and protein genetic purity tests, and cultivar purity identification for conventional seeds. In addition to the most common seed purity and viability tests, tests for seed and seedling vigor, seed-borne diseases and seed moisture determination are also discussed. Color images, notes, references, index.

Cloth, 364 pp., 8.5 x 11, 978-1-61186-039-9, \$174.95



A Very Remarkable Sickness: Epidemics in the Petit Nord, 1670-1846

Paul Hackett
The area between the Great Lakes and Lake Winnipeg, bounded on the north by the Hudson Bay lowlands, is known as the "Petit Nord," a critical communication and transportation hub for the North American fur trade for over 200 years. Although new diseases had first arrived in the New World in the 16th century, by the end of the 17th century shorter transoceanic travel time meant that a far greater number of diseases survived the journey from Europe and were still able to infect new communities. These acute, directly transmitted infectious diseases — including smallpox, influenza, and measles — would be responsible for a monumental loss of life and would forever transform North American Aboriginal communities. Historical geographer Hackett meticulously traces the diffusion of these diseases from Europe through central Canada to the West. The trade carried throughout the Petit Nord by Hudson Bay Company ships, and the travel nexus at the Red River Settlement, all provided prime breeding ground for the introduction, incubation, and transmission of acute disease. Hackett's analysis of evidence in fur-trade journals and oral history yields a comprehensive picture of where, when, and how the staggering impact of these epidemics was felt. B&W illustrations, maps.
Paper, 280pp., 978-0-88755-659-3, \$24.95



The War on Weeds in the Prairie West: An Environmental History

Clinton L. Evans
Energetic and accessible, this is the first complete environmental history of four centuries of weeds and agricultural development in western Canada. 8 color & 23 B/W images.
Paper, 327 pp., 978-1-55238-029-1, \$29.95



The World of Wolves: New Perspectives on Ecology, Behaviour and Management

Edited by Marco Musiani, Luigi Boitani, Paul Paquet
The grey wolf is one of the world's most polarizing and charismatic species. Respected, adored, or held in awe by many as an icon of wilderness, wolves have also sparked fear and hatred when they have come into conflict with human presence. *The World of Wolves* offers a fresh and provocative look at current trends in wolf and wildlife management. Representative case studies highlight the existing inter connections between wolves, their prey, their habitat, their ecosystems, and people, as well as the role of science in policy formation and wolf management. 40 color photos, 33 figures, 12 maps, 10 pencil drawings.
Paper, 432 pp., 978-1-55238-269-1, \$34.95

Ocean Ecology



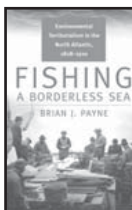
Breaking Ice: Renewable Resource and Ocean Management in the Canadian North

Edited by Fikret Berkes
The pace of technological, social, and environmental change in Canada's Arctic has profound effects on its management and policy decisions. The fifteen papers in this volume result from a project undertaken by the Oceans Management Research Network that examines carefully the nature of Arctic environmental evolution and sustainability. Tables, maps, drawings.
Paper, 496 pp., 978-1-55238-159-5, \$44.95



Fisheries and Uncertainty: A Precautionary Approach to Resource Management

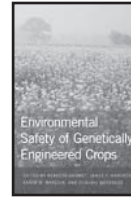
Daniel Gordon
Recent catastrophes in Atlantic fisheries resource management have important national and international implications that we would ignore at our peril. A fundamental reorientation of the economics of fisheries management is needed.
Paper, 194 pp., 978-1-895176-68-1, \$24.95



Fishing a Borderless Sea: Environmental Territorialism in the North Atlantic, 1818-1910

Brian J. Payne
Nova Scotia Fishermen, from hundreds of villages along the coastline of Atlantic Canada and New England, played essential roles in the construction of legal authority that granted or denied access to profitable fisheries, and environmental stewardship. Maps.
Paper, 176 pp., 978-0-87013-874-4, \$29.95

World Ecology and Environment



Environmental Safety of Genetically Engineered Crops

Edited by Rebecca Grumet, James F. Hancock, and Karim M. Maredia
Since the mid-1990s, when the technology was first introduced, the cultivation of genetically engineered (GE) crops has grown exponentially. In the U.S. alone, adoption rates for transgenic cotton, corn, and soybeans are between 70-90%. Across the globe, 14 million farmers grow GE crops in more than twenty countries. Yet many countries are discussing and debating the use and adoption of GE technology because of concerns about their impact on the environment and human health. Now, in this comprehensive handbook, a team of international experts present the scientific basis for GE crops, placing them in the context of current agricultural systems, and examining the potential environmental risks posed by their deployment. B&W photos, notes, references, index.
Cloth, 400 pp., 7 x 10, 978-1-61186-008-5, \$49.95



Flow of Life in the Atmosphere: An Airscape Approach to Understanding Invasive Organisms

Scott A. Isard and Stuart H. Gage
In this new ground-breaking work, Scott Isard and Stuart Gage look at the importance of anticipating consequences of the aerial flow of biota as new strategies to understand and manage our environment. A sound understanding of the biological and meteorological interactions that govern the movement of organisms in the atmosphere is a prerequisite to the development of successful management strategies for terrestrial ecosystems. Inflows and outflows of organisms to and from habitats can be as important as birth and death rates in regulating the dynamics of populations. Isard and Gage focus on predicting events that destabilize relationships among organisms and between populations and their environment. Charts and graphs.
Paper, 304 pp., 978-0-87013-550-7, \$38.95



Galapagos: A Natural History (2nd Edition)

Michael H. Jackson
The easy-to-use, illustrated text details the natural history of plants and animals found in the Galapagos Islands. An annotated list of dominant plants according to vegetation zone is included. Index, glossary, tables.
In English: Paper, 335 pp., 978-1-895176-40-7, \$29.95
In Spanish: Paper, 335 pp., 978-1-895176-80-3, \$29.95



Global Bioethics: Building on the Leopold Legacy

Van Rensselaer Potter
Potter defined the term "bioethics" in 1970 and chose to use the term "Global Bioethics" in 1988, to describe a new philosophy that sought to integrate biology, ecology, medicine, and human values. Bioethics is often linked to environmental ethics and stands in sharp contrast to biomedical ethics. Potter's definition of bioethics from *Global Bioethics* is, "Biology combined with diverse humanistic knowledge forging a science that sets a system of medical and environmental priorities for acceptable survival."
Paper, 203 pp., 978-0-87013-264-3, \$13.00

Forthcoming



The Geoarchaeology of Lake Michigan Coastal Dunes

William A. Lovis, Alan F. Arbogast, and G. William Monaghan
October 2012
Notes, References, index, maps, charts & graphs, B&W photographs
Paper, 288pp., 8.5 x 11, 978-1-61186-051-1, \$35.95



Great Lakes Fisheries Policy and Management: A Binational Perspective, Second Edition

Edited by William W. Taylor, Abigail J. Lynch, and Nancy J. Leonard
December 2012
Notes, maps, bibliography, index
Cloth, 500pp., 7 x 10, 978-1-61186-024-5, \$81.95



MICHIGAN STATE UNIVERSITY PRESS
1405 S. Harrison Rd., Suite 25 East Lansing, MI 48823-5245 USA
www.msupress.msu.edu

THE ENVIRONMENT & NATURAL HISTORY

