

# Environmental Problem Solving

Psychosocial Barriers to Adaptive Change

**Alan Miller**



Springer

# Environmental Problem Solving Psychosocial Barriers To Adaptive Change

**Arthur Oyola-Yemaiel**



## **Environmental Problem Solving Psychosocial Barriers To Adaptive Change:**

**Environmental Problem Solving** Alan Miller, 2013-12-01 Human influences create both environmental problems and barriers to effective policy aimed at addressing those problems. In effect, environmental managers manage people as much as they manage the environment. Therefore, they must gain an understanding of the psychological and sociopolitical dimensions of environmental problems that they are attempting to resolve. In *Environmental Problem Solving*, Alan Miller reappraises conventional analyses of environmental problems using lessons from the psychosocial disciplines. He combines the disciplines of ecology, political sociology, and psychology to produce a more adaptive approach to problem solving that is specifically geared toward the environmental field. Numerous case studies demonstrate the practical application of theory in a way that is useful to technical and scientific professionals as well as to policy makers and planners. Alan Miller is Professor of Psychology at the University of New Brunswick.

**Environmental Problem Solving** Alan Miller, 2012-01-06 Human influences create both environmental problems and barriers to effective policy aimed at addressing those problems. In effect, environmental managers manage people as much as they manage the environment. Therefore, they must gain an understanding of the psychological and sociopolitical dimensions of environmental problems that they are attempting to resolve. In *Environmental Problem Solving*, Alan Miller reappraises conventional analyses of environmental problems using lessons from the psychosocial disciplines. He combines the disciplines of ecology, political sociology, and psychology to produce a more adaptive approach to problem solving that is specifically geared toward the environmental field. Numerous case studies demonstrate the practical application of theory in a way that is useful to technical and scientific professionals as well as to policy makers and planners. Alan Miller is Professor of Psychology at the University of New Brunswick.

Environmental Problem-solving A. Miller, 1982      Adaptive Management of Natural Resources George H. Stankey, 2005 This report reviews the extensive and growing literature on the concept and application of adaptive management. Adaptive management is a central element of the Northwest Forest Plan and there is a need for an informed understanding of the key theories, concepts, and frameworks upon which it is founded. Literature from a diverse range of fields including social learning, risk, and uncertainty, and institutional analysis was reviewed, particularly as it related to application in an adaptive management context. The review identifies opportunities as well as barriers that adaptive management faces. It concludes by describing steps that must be taken to implement adaptive management.

*Handbook of Globalization and the Environment* Khi V. Thai, Dianne Rahm, Jerrell D. Cogburn, 2017-09-25 Proponents of globalization argue that it protects the global environment from degradation and promotes worldwide sustainable economic growth, while opponents argue the exact opposite. Examining the local, national, and international impacts of globalization, the *Handbook of Globalization and the Environment* explores strategies and solutions that support healthy economic growth, protect the environment, and create a more equitable world. The book sets the stage with coverage of global environmental issues and policies. It explores international sustainable development, the evolution of

global warming policy transborder air pollution desertification space and the global environment and human right to water Building on this foundation the editors discuss global environmental organizations and institutions with coverage of the UN s role in globalization the trade environment nexus the emergence of NGOs and an analysis of the state of global environmental knowledge and awareness from an international and comparative perspective Emphasizing the effects of increasingly integrated global economy on the environment and society the book examines environmental management and accountability It addresses green procurement provides an overview of U S environmental regulation and the current range of voluntary and mandatory pollution prevention mechanisms in use explores a two pronged approach to establishing a sustainable procurement model and examines a collaborative community based approach to environmental regulatory compliance The book concludes with an analysis of controversial issues such as eco terrorism North South disputes environmental justice the promotion of economic growth through globalization in less developed countries and the ability of scientists to communicate ideas so that policy makers can use science in decision making

**Restoring Lands - Coordinating Science, Politics and Action** Herman Karl,Lynn Scarlett,Juan Carlos Vargas-Moreno,Michael Flaxman,2012-02-05 Environmental issues vast and varied in their details unfold at the confluence of people and place They present complexities in their biophysical details their scope and scale and the dynamic character of human action and natural systems Addressing environmental issues often invokes tensions among battling interests and competing priorities Air and water pollution the effects of climate change ecosystem transformations these and other environmental issues involve scientific social economic and institutional challenges This book analyzes why tackling many of these problems is so difficult and why sustainability involves more than adoption of greener cleaner technologies Sustainability as discussed in this book involves knowledge flows and collaborative decision processes that integrate scientific and technological methods and tools political and governance structures and regimes and social and community values The authors synthesize a holistic and adaptive approach to rethinking the framework for restoring healthy ecosystems that are the foundation for thriving communities and dynamic economies This approach is that of collective action Through their research and practical experiences the authors have learned that much wisdom resides among diverse people in diverse communities New collaborative decision making institutions must reflect that diversity and tap into its wisdom while also strengthening linkages among scientists and decision makers From the pre publication reviews Finally we have a book that explains how science is irrelevant without people It s people who decide when and how to use science not scientists This book gives us a roadmap for how to really solve complex problems It involves hard work and creating new relationships between scientists and the public that don t typically exist in our society John M Hagan Ph D President Manomet Center for Conservation Sciences

**Great Lakes** Velma I. Grover,Gail Krantzberg,2012-10-02 This edited volume while focusing on participatory governance in the Great Lakes basin of North America also gives a comparative perspective of the African Great Lakes The

book describes the actions taken at degraded locations along the Great Lakes in North America through Remedial Action Plans RAP and other mechanisms with an aim to highlight *Economics and Sustainability* Karl Bruckmeier, 2020-11-21 This textbook provides an overview of economic perspectives on sustainability It synthesises economic ecological and interdisciplinary sustainability research and by applying an integrated social ecological and economic framework demonstrates how this research can be improved and implemented in practice Split into three parts the book begins by introducing a range of topics forming the basis of knowledge needed to understand the varying sustainability discourses in economics ecology and interdisciplinary sustainability research Chapters cover the political context of sustainability the history of sustainability in European environmental discourses dating back to the seventeenth century as well as various problems and forms of interdisciplinary knowledge integration and synthesis in the sustainability process Part II reviews the core economic themes relevant to sustainable development including natural resource management environmental economics and ecological economics Also highlighted are often neglected issues such as conflicts disasters and interrelated crises on the way towards sustainability The chapters in Part III discuss the future of the sustainability process They argue for the necessity of overhauling the relationship between science and practice explore failures and the unforeseen difficulties of sustainability transformation and discuss how to enable a long term sustainability process that reaches into the distant future An innovative resource for a broad range of interdisciplinary programmes on sustainability The book will be an invaluable reference for master and PhD students instructors researchers and practitioners in sustainability governance

**General Technical Report PNW-GTR ,2005      *Ecology, Engineering, and Management* Michel J. G. van Eeten, Emery Roe, 2002-04-18** Ecology Engineering and the Paradox of Management is the first book that addresses and reconciles what many take to be the core paradox facing environmental decision makers and stakeholders How do they restore the environment while at the same time provide ever more services reliably from that environment including clean air water and energy for more and more people The book provides a conceptual framework empirical case analyses and organizational proposals to resolve the paradox be it in the US Europe or elsewhere Thus Ecology Engineering and the Paradox of Management has multiple audiences First are the key professions involved in the protection and improvement of ecosystems and in the provision and delivery of services from those ecosystems These include ecologists and other natural scientists such as conservation biologists climatologists forest scientists and toxicologists engineers as well as hydrologists environmental engineers civil engineers and line operators modeling and gaming experts managers planners and power agriculture and recreation communities Another audience includes university researchers in ecology conservation biology engineering the policy sciences and resource management Those interested in interdisciplinary approaches in these fields will also find the book especially helpful Finally those interested in the Everglades the Columbia River Basin San Francisco Bay Delta and the Green Heart of western Netherlands will find new insights here as the book provides a detailed

examination of the paradox in each of these cases      **Environmental Health Perspectives** ,2004      *Learning to manage a complex ecosystem* ,2006      **Environmental Realism** Kristan Cockerill,Melanie Armstrong,Jennifer Richter,Jordan G.

Okie,2017-03-29 This interdisciplinary book challenges current approaches to environmental problems that perpetuate flawed but deeply embedded cultural beliefs about the role of science and technology in society The authors elucidate and interrogate a cultural history of solutionism that typifies expectations that science can should and will reduce risk to people and property by containing and controlling biophysical phenomena Using historical analysis eco evolutionary principles and case studies on floods radioactive waste and epidemics the authors show that perceived solutions to environmental problems generate new problems leading to problem solution cycles of increasing scope and complexity The authors encourage readers to challenge the ideology of solutionism by considering the potential of language social action and new paradigms of sustainability to shape management systems This book will appeal to scholars in multi and interdisciplinary fields such as Environment Studies Environmental Science Environmental Policy and Science Technology and Society Studies

**Research Paper PNW.** ,1978      **Environmental Anthropology** Helen Kopnina,Eleanor Shoreman-Ouimet,2013-07-18 This volume presents new theoretical approaches methodologies subject pools and topics in the field of environmental anthropology Environmental anthropologists are increasingly focusing on self reflection not just on themselves and their impacts on environmental research but also on the reflexive qualities of their subjects and the extent to which these individuals are questioning their own environmental behavior Here contributors confront the very notion of natural resources in granting non human species their subjectivity and arguing for deeper understanding of nature and wilderness beyond the label of ecosystem services By engaging in interdisciplinary efforts these anthropologists present new ways for their colleagues subjects peers and communities to understand the causes of and alternatives to environmental destruction This book demonstrates that environmental anthropology has moved beyond the construction of rural small group theory entering into a mode of solution based methodologies and interdisciplinary theories for understanding human environmental interactions It is focused on post rural existence health and environmental risk assessment on the realm of alternative actions and emphasizes the necessary steps towards preventing environmental crisis      **Issues in Bioethics and the Concept of Scale** William Andrew Cook,2008 Issues in Bioethics and the Concept of Scale arose from the author s deep and committed interest in ecology moral philosophy and medicine and how they are interrelated William A Cook expands on the recognition that spatial and temporal scale characteristics are factors in the understanding and modeling of ecological systems and in decision making around ecological and environmental issues and introduces this dynamic to the field of bioethics The concept of scale from hierarchy theory as it is used in ecology to deal with the complexity and interrelationships of systems is explored and identified as a factor and potential source of conflict in the field of bioethics This notion of scale is conceptually useful for considering the complexity of some bioethical issues      Ensuring Greater Yellowstone's Future Susan Gail

Clark,2008-10-01 Drawing on extensive conservation experience in the greater Yellowstone region Susan G Clark outlines the leadership and policy issues associated with managing greater Yellowstone s natural resources and asseses the successes and failures of those who have worked there toward sustainability over the past 40 years

**Quantifying Environmental Impact Assessments Using Fuzzy Logic** Richard B. Shepard,2006-10-14 Environmental impact assessments are required for a wide range of projects throughout the world These assessments have increasingly involved complex political decision making and incorporated values and beliefs of both stakeholders and interested parties However the results are often ineffective because values and beliefs are not easily quantifiable and decisions are considered subjective This analysis recognizes these problems and proposes practical methods based on fuzzy logic that will enable people preparing assessments to define terms and quantify opinions and input so that they are agreed upon by all involved parties Fuzzy logic also quantifies the complex environmental economic and social conditions that are present and are predicted by project alternatives The author places special emphasis on the types of issues that frequently arise in NEPA environmental assessments and environmental impact statements and in similar regulations that are used in jurisdictions regionally and internationally The new methods are intended to reduce the time and cost of assessments while producing justifiable results First issues related to current environmental impact assessment methods are discussed Then the book discusses how lessons learned from computational intelligence can address these problems It describes how a systematic logical approach to environmental assessment can be applied to a variety of complex situations Finally the design and implementation of a more objective and powerful assessment is demonstrated through a worked example Explanations of computational intelligence techniques and discussions of helpful software are intended to benefit those people actually preparing and using environmental assessments in language that makes the process transparent and transferable to all types of systems

**Towards the Formation of a Sustainable South Florida** Arthur Oyola-Yemaiel,2000 This dissertation examines the sociological process of conflict resolution and consensus building in South Florida Everglades Ecosystem Restoration through what I define as a Network Management Coordinative Interstitial Group NetMIG The process of conflict resolution can be summarized as the participation of interested and affected parties stakeholders in a forum of negotiation I study the case of the Governor s Commission for a Sustainable South Florida GCSSF that was established to reduce social conflict Such conflict originated from environmental disputes about the Everglades and was manifested in the form of gridlock among regulatory government agencies Indian tribes as well as agricultural environmental conservationist and urban development interests The purpose of the participatory forum is to reduce conflicts of interest and to achieve consensus with the ultimate goal of restoration of the original Everglades ecosystem while cultivating the economic and cultural bases of the communities in the area Further the forum aims to formulate consensus through envisioning a common sustainable community by providing means to achieve a balance between human and natural systems Data were gathered using participant observation

and document analysis techniques to conduct a theoretically based analysis of the role of the Network Management Coordinative Interstitial Group NetMIG I use conflict resolution theory environmental conflict theory stakeholder analysis systems theory differentiation and social change theory and strategic management and planning theory The purpose of this study is to substantiate the role of the Governor s Commission for a Sustainable South Florida GCSSF as a consortium of organizations in an effort to resolve conflict rather than an ethnographic study of this organization Environmental restoration of the Everglades is a vehicle for recognizing the significance of a Network Management Coordinative Interstitial Group NetMIG namely the Governor s Commission for a Sustainable South Florida GCSSF as a structural mechanism for stakeholder participation in the process of social conflict resolution through the creation of new cultural paradigms for a sustainable community

*Protection Strategy against Spruce Budworm* David A. MacLean, 2020-01-15 Spruce budworm *Choristoneura fumiferana* Clem outbreaks are a dominant natural disturbance in the forests of Canada and northeastern USA Widespread severe defoliation by this native insect results in large scale mortality and growth reductions of spruce *Picea* sp and balsam fir *Abies balsamea* L Mill forests and largely determines future age class structure and productivity The last major spruce budworm outbreak defoliated over 58 million hectares in the 1970s 1980s and caused 32 43 million m<sup>3</sup> year of timber volume losses from 1978 to 1987 in Canada Management to deal with spruce budworm outbreaks has emphasized forest protection spraying registered insecticides to prevent defoliation and keep trees alive Other tactics can include salvage harvesting altering harvest schedules to remove the most susceptible stands or reducing future susceptibility by planting or thinning Chemical insecticides are no longer used and protection strategies use biological insecticides *Bacillus thuringiensis* B t or tebufenozide a specific insect growth regulator Over the last five years a 30 million research project has tested another possible management tactic termed an early intervention strategy aimed at area wide management of spruce budworm populations This includes intensive monitoring to detect hot spots of rising budworm populations before defoliation occurs targeted insecticide treatment to prevent spread and detailed research into target and non target insect effects The objective of this Special Issue is to compile the most recent research on protection strategies against spruce budworm A series of papers will describe results and prospects for the use of an early intervention strategy in spruce budworm and other insect management

## Whispering the Secrets of Language: An Psychological Journey through **Environmental Problem Solving Psychosocial Barriers To Adaptive Change**

In a digitally-driven earth wherever monitors reign supreme and quick communication drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within words usually go unheard. However, situated within the pages of **Environmental Problem Solving Psychosocial Barriers To Adaptive Change** a interesting literary treasure pulsating with raw feelings, lies a fantastic journey waiting to be undertaken. Penned by an experienced wordsmith, that wonderful opus encourages viewers on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within ab muscles material of each word. Within the emotional depths with this emotional evaluation, we will embark upon a sincere exploration of the book is key subjects, dissect its interesting writing fashion, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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web the lost years they spend at sea which can be up to 20 years largely remain a mystery to us 5 they can be ginormous marine turtle species vary greatly in size the smallest kemp s ridley measure around 70cm long and weigh up to 40kg whilst the leatherback can reach up to 180cm long and weigh 500kg

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