

National Association of Environmental Professionals



ENVIRONMENTAL PRACTICE



ENVIRONMENTAL PRACTICE

Journal of the National Association of Environmental Professionals

Editors-in-Chief

Kelly Tzoumis, PhD (Lead) James A. Montgomery, PhD DePaul University

Managing Editor

Dan Carroll DePaul University

Editorial Office

DePaul University 2352 N. Clifton Ave. Room 130 Chicago, IL 60614 (phone) 773-325-2298 (email) dcarro17@depaul.edu **ADVISORY BOARD**

Walter F. Baber, PhD

California State University, Long Beach

Charles Bartsch ICF International

Kristan Cockerill, PhD Appalachian State University

Thomas R. Cuba, PhD, CEP, CLM

Delta Seven, Inc.

J. Marshall Eames, PhD Loyola University

Eric G. Haenni, PhD

Franciscan University of Steubenville

Peter Meyer, PhD The E.P. Systems Group, Inc.

Robert A. Michaels, PhD, CEP RAM TRAC Corporation

John F. Munro, PhD Munro Policy Associates

Robert C. Paehlke, PhD

Trent University

Robert L. Perry, PhD The University of Texas of the

Permian Basin

Bruce Piasecki, PhD The AHC Group, Inc.

Gary S. Silverman, PhD Bowling Green State University

Zachary Smith, PhD Northern Arizona University

Dorceta Taylor, PhD University of Michigan

Environmental Practice (ISSN 1466-0466) is a quarterly journal published by Cambridge University Press for the National Association of Environmental Professionals in cooperation with the Department of Public Policy Studies, DePaul University, Chicago, IL 60614. Information for contributors appears in March issues and on the journal's Web site at www.journals.cambridge.org/jid_enp.

Environmental Practice is the successor to *The Environmental Professional*, which appeared from 1979 to 1997. *Environmental Practice* honors the fine traditions established by *The Environmental Professional* while simultaneously opening new avenues of discussion on environmental issues. For more information about the NAEP, please visit www.naep.org.

Subscription Information: *Environmental Practice* is published quarterly in March, June, September, and December. Annual subscription rates for Volume 15 (2013): Annual institutional subscription rates (print and electronic): US \$413.00 in the US, Canada, and Mexico; UK £229.00 + VAT elsewhere. Institutional electronic only: \$318.00 in the US, Canada, and Mexico; UK £170.00 + VAT elsewhere.

Publishing and Advertising Offices: Cambridge University Press, 32 Avenue of the Americas, New York, NY 10013-2473, USA; and (outside the US, Canada, and Mexico) Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, England.

Copyright © 2013 National Association of Environmental Professionals

All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopying or otherwise, without permission in writing from the National Association of Environmental Professionals. This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. Organizations in the USA registered with CCC may copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to CCC of the per copy fee of US \$20.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 1466-0466/11 \$20.00. ISI Tear Sheet Service, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to supply single copies of separate articles for private use only.

Printed in the United States of America.

Application to mail at periodical rate is pending in New York, NY, and additional mailing offices. Postmaster: send address changes in the USA, Canada, and Mexico to *Environmental Practice*, Subscription Department, Cambridge University Press, 100 Brook Hill Drive, West Nyack, NY 10994-2133.

CONTENTS

PRESIDENT'S MESSAGE	185
LETTER FROM THE GUEST EDITOR	186
LETTER FROM THE EDITOR	188
RESEARCH ARTICLES: China and the European Union: Emerging Partners in Global Climate Governance?	190
RESEARCH ARTICLES: Coastal Flood-Risk Management Practice in Tai O, a Town in Hong Kong	201
RESEARCH ARTICLES: China's External Environmental Policy: Understanding China's Environmental Impact in Africa and How It Is Addressed	220
RESEARCH ARTICLES: Case Study: Collaborative Governance as a Tool for Natural Resource Management in China and the United States	228
RESEARCH ARTICLES: Rent-Seeking Obstacles to Changing Environmental Practices and Sustainable Public Procurement in China	240
RESEARCH ARTICLES: Water Shortage, Food Security, and Virtual Water in China	253
ENVIRONMENTAL REVIEWS AND CASE STUDIES: Diplomats and Refugees: Panda Diplomacy, Soft "Cuddly" Power, and the New Trajectory in Panda Conservation	262
ENVIRONMENTAL REVIEWS AND CASE STUDIES: Transfer or not Transfer? It is a Question: The Challenges to and Solutions for the Transfer Procedure of Suspected Environmental Pollution Criminal Cases	271
ENVIRONMENTAL REVIEWS AND CASE STUDIES: Limitations and Challenges of Provincial Environmental Protection Bureaus in China's Environmental Data Monitoring, Reporting and Verification	280
ENVIRONMENTAL REVIEWS AND CASE STUDIES: Contextualization of National Parks in the Nature Conservation Scheme in China: A Case Study of Pudacuo National Park in Yunnan Province	293
ENVIRONMENTAL REVIEWS AND CASE STUDIES: Trade and the Environment Debate: Recent Developments and Implications for China	313
RESEARCH ARTICLES: Preparing for China's "Urban Billion"—Policy Implications and Potential for International Cooperation	323
ENVIRONMENTAL REVIEWS AND CASE STUDIES: Latest Developments in Chinese Environmental Law	339
ENVIRONMENTAL REVIEWS AND CASE STUDIES: Is the Returning Farmland to Forest Program a Success? Three Case Studies from Sichuan	350
	RESEARCH ARTICLES: China and the European Union: Emerging Partners in Global Climate Governance? RESEARCH ARTICLES: Coastal Flood-Risk Management Practice in Tai O, a Town in Hong Kong RESEARCH ARTICLES: China's External Environmental Policy: Understanding China's Environmental Impact in Africa and How It Is Addressed RESEARCH ARTICLES: Case Study: Collaborative Governance as a Tool for Natural Resource Management in China and the United States RESEARCH ARTICLES: Rent-Seeking Obstacles to Changing Environmental Practices and Sustainable Public Procurement in China RESEARCH ARTICLES: Water Shortage, Food Security, and Virtual Water in China Environmental Reviews and Case Studies: Diplomats and Refugees: Panda Diplomacy, Soft "Cuddly" Power, and the New Trajectory in Panda Conservation ENVIRONMENTAL REVIEWS AND CASE STUDIES: Transfer or not Transfer? It is a Question: The Challenges to and Solutions for the Transfer Procedure of Suspected Environmental Pollution Criminal Cases ENVIRONMENTAL REVIEWS AND CASE STUDIES: Limitations and Challenges of Provincial Environmental Protection Bureaus in China's Environmental Data Monitoring, Reporting and Verification ENVIRONMENTAL REVIEWS AND CASE STUDIES: Contextualization of National Parks in the Nature Conservation Scheme in China: A Case Study of Pudacuo National Park in Yunnan Province ENVIRONMENTAL REVIEWS AND CASE STUDIES: Trade and the Environment Debate: Recent Developments and Implications for China RESEARCH ARTICLES: Preparing for China's "Urban Billion"—Policy Implications and Potential for International Cooperation ENVIRONMENTAL REVIEWS AND CASE STUDIES: Latest Developments in Chinese Environmental Law ENVIRONMENTAL REVIEWS AND CASE STUDIES: Is the Returning Farmland to Forest

CONTRIBUTORS 367

Mission Statement for Environmental Practice

Aims and Scope

Environmental Practice is the official journal of the National Association of Environmental Professionals (NAEP). The central purpose of Environmental Practice is to provide an open forum to NAEP members and other concerned individuals for the discussion and analysis of significant environmental issues. Research Articles and Environmental Reviews and Case Studies appearing in Environmental Practice are peer reviewed and aim for the highest standards of professional quality.

Environmental Practice is a source for continuing professional renewal and development. It aims to serve men and women at all stages of their careers, from initial training through mid- and senior-levels. Environmental work is an exciting, dynamic field, and Environmental Practice strives to match that pace with lively and timely commentary on the critical issues of the day. Environmental Practice aims to provide authoritative discussion on issues of wide interest to the international community of environmental professionals.

Professionals from many different disciplinary backgrounds, working in many different arenas, are faced with

developing imaginative approaches for the practical resolution of a wide variety of environmental problems. *Environmental Practice* provides a comprehensive outlet for the publication of such interdisciplinary findings. This publication actively seeks breadth of viewpoint and method because it holds that solutions to environmental problems are often to be found in understanding the linkages among issues previously considered separate. Periodically, *Environmental Practice* will devote its pages to selected topics of special concern to a significant segment of the readership.

Priority for publication is given to articles that offer insightful views on the importance and interpretation of results from an interdisciplinary perspective. Reports of findings should go beyond a laboratory analysis, a field experiment, a philosophical discussion, or a theoretical modeling, for example, and discuss the implications of the findings for public policy or professional practice. Environmental Practice seeks especially to publish studies that link data and findings in science and technology with issues of public policy, health, environmental quality, law, political economy, management, and the appropriate standards for expertise. Many publications achieve excellence through tightly focused specialization, but in contrast Environmental Practice seeks its accomplishments through the promotion of excellent research and writing on the common interests among different kinds of specialists.

Join the Dialog

The central purpose of *Environmental Practice* is to provide a forum for the discussion and analysis of significant environmental topics. An important part of this discussion is the "Letters to the Editor" section that appears in occasional issues of *Environmental Practice*.

The editors welcome your comments and insights on articles appearing in this or other issues of the journal.

Call for papers for publication in the scholarly journal:

ENVIRONMENTAL PRACTICE

The Journal of the National Association of Environmental Professionals

Special issue on **ECOLOGICAL ECONOMICS** vol. 16 no. 3 (September 2014)

Due to the economic drivers underlying resource use, economic knowledge is an essential component of sustainability. Indeed, economic studies have moved to the forefront of sustainable ecosystem management and recent research has focused on quantifying the monetary benefit of ecosystem services like pollination, water filtration, and carbon storage. This special issue of Environmental Practice will deal with some of the recent work in the field of ecological economics.

We invite manuscripts that touch on an array of themes, but are especially interested in articles that deal with:

- valuing natural resources or ecosystems
- integrated ecologic-economic modeling
- using ecological economics to inform conservation
- case-studies where methods to replace GDP have been implemented at state and local levels
- application of ecological economics in the preparation of environmental assessments (EAs) and environmental impact statements (EISs)
 - communicating ecological economics in the undergraduate curriculum
 - communicating ecological economics by fostering sustainable behavior at different scales

We welcome a variety of perspectives and submissions from scholars, practitioners, and students.

> Deadline for submittals is February 15, 2014 to dcarro17@depaul.edu

Sample issues of the journal can be found at:

http://journals.cambridge.org/action/ displayJournal?jid=ENP

Guidelines for publication can be found at: http://journals.cambridge.org/action/ displayMoreInfo?jid=ENP&type=ifc

The editorial office of Environmental Practice is located at DePaul University.

For questions, please contact Dan Carroll, Managing Editor, at 773-325-2298, or by email at dcarro17@depaul.edu



NAEP CAMBRIDGE UNIVERSITY PRESS