



# 18<sup>th</sup> Annual International Interdisciplinary Conference on the Environment

June 30<sup>th</sup> – July 3<sup>rd</sup>, 2012

Holiday Inn by the Bay

Portland, ME, USA

Sponsored by the  
Interdisciplinary Environmental Association (IEA)

*ieaonline.org*

**Dear Participant:**

***On behalf of the Interdisciplinary Environmental Association, we would like to welcome you to Portland, Maine and the 18<sup>th</sup> International Interdisciplinary Conference on the Environment. In 1984, the global human population hovered around 4.8 billion. The opening of the Montreal Protocol for signatures was still three years off. UNCED, the Rio Conference on the Environment, with its groundbreaking agreements on climate change, biodiversity, forests and the global agenda wouldn't take place until 1992. Key laws in the United States for environmental protection such as the Clean Water Act, the Clean Air Act and the Resource Conservation and Recovery Act were only a decade old. And Al Gore was still a U.S. Representative from Tennessee and not a Nobel Peace Prize, Oscar, Emmy and Webby award winner and Time Magazine's Person of the Year! Much has changed in the study of the environment, but at least one thing has held constant: the IICE!***

***Throughout all of the last 18 years, interdisciplinary environmental scholars of all stripes from the four corners of the Earth have known that the International Interdisciplinary Conference on the Environment was the best place to present cutting edge work on the Environment. This year's conference bears much in common with those earlier meetings despite unforeseen roadblocks unique to this gathering. From work drawing upon a natural science core to policy analyses to philosophical dissertations to considerations of the very academic foundations of teaching about the environment, this year's conference presents a wide spectrum of scholarship and a wide variety of opportunity for discussion and exchange. Your time at this conference will be well spent and your return great.***

***For those returning to the fold, well met and welcome. Though smaller than some of our past meetings (the poor economy hits most everyone), it is our hope you will find us still vital and active. If this is your first participation in our conference, we hope you will find our interdisciplinary approach interesting and rewarding. We hope you will consider joining the Interdisciplinary Environmental Association and help promote a holistic understanding of the causes of – and solutions to – the environmental problems that confront our world today.***

***Welcome again to Portland and the 18th International Interdisciplinary Conference on the Environment. We look forward to meeting – and learning from – each of you. I hope to have the chance to speak with each of you and to encourage your participation in the IICEs and the IEA for many years to come!***

**Best Regards,**

**Eric J. Fitch, Conference Chair**

**Kimberly Reiter, IEA President**

*Conference Overview:*

*Saturday June 30<sup>th</sup> – Afternoon Field Trip(s)*

*Odyssey Whale Watch <http://www.odysseywhalewatch.com/>*

*A short walk to the harbor brings one to Odyssey Whale Watch tours. Every day, their craft leave at 2:00 p.m. to sail out into Casco Bay and seek out whales not to hunt them as was once the norm out of the Bay, but to observe them in their majestic forms. Those interested can gather in the hotel lobby at 1:00 p.m. Please wear clothing suitable for being on the water; cooler conditions than on land at same time.*

***2012 Whale Watch Pricing: (Whale Watches are 4 Hours)***

*Adults \$48.00*

*Children (12 and under) \$38.00*

*Infants (2 and under) \$9.00*

*(If Whale Watching proves unappealing, there will be the Casco Bay Mail Run Cruise at the end of the conference).*

*7:00 p.m.-9:00 p.m. Welcome Reception*

*Oxford/Somerset Rooms – **Hors d'oeuvres/Light buffet***

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*Sunday July 1<sup>st</sup>:*

*Panels will be begin at 8:00 a.m. with the first concurrent session running from 8-9:30, there will be a break running for 15 min, the second session from 9:45-12:00 noon followed by Brunch, the third session of the day will run from 1:00 p.m. to 3:00 p.m and the 4th from 3:00-4:45p.m. , at 4:45 p.m. there will be a poster session that runs to 6:00 p.m. and a colloquium or last panels starting then. At 7:00 p.m. we will finish the day.*

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*Monday July 2<sup>nd</sup>*

*Panels will begin at 8:00 a.m. with the first concurrent session running from 8:00 a.m., with breaks running for 30 min, the President's Lunch at noon. Following lunch, there will be our first plenary speaker from 1-2:00 p.m. and a concurrent session from 2-3:30 followed at 4:00 p.m. by our second plenary speaker. Dinner on your own.*

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*On Tues. 3rd, we will have a workshop 8:30 a.m. to 9:45. The plan is to have the IEA business meeting from 10:00 to ? . Lunch will be on your own and we will have a break for everyone to explore Portland. Then whoever wants to take the Casco Mail Run ferry trip will gather at the docks at 2:00. We will end the conference with this field trip. You can find information on the ferry, the route and pricing at this webpage:*

*<http://www.cascobaylines.com/>*

*Full programs will be available at the reception Sunday evening and at Registration. Laptops and projectors will be available for Power Point Presentations, easels for posters.*

*Conference Chair,  
Eric J. Fitch*

## *Sunday Schedule July 1<sup>st</sup>*

*Registration: Vermont Room 7:30 a.m. – 3:00 p.m.: Lobby Level (2<sup>nd</sup> Floor) Back Hallway – Conference Center*

### *Concurrent Session 1: Connecticut Room 8:00 a.m - : 9:30 a.m*

*Dr. Kimberly Reiter - Presenter & Panel Moderator  
Department of History, Stetson University*

*Dr. Jeffrey L. Roberg  
Dept. of Political Science, Carthage College*

*Dr. Penny Seymour  
Dept. of Psychological Science and the Neuroscience Program, Carthage College*

*A Round Table Proposal: Teaching Environmental Ethics and Responsibilities Through Short-Term Study Abroad Courses*

*Discussant: Kevin Hickey*

### *Concurrent Session 2: New Hampshire Room: 8:00 a.m. – 9:30 a.m.*

*Philippa Wells - Presenter & Panel Moderator:  
University of Ballarat, Sydney, Australia*

*Corporations and Sustainability: how shifting social attitudes towards sustainability are changing standards and scope of corporate governance*

*Hannah Dean  
Dept. of Environmental, Earth and Oceanic Sciences, University of Massachusetts, Boston*

*Local Authority in the Context of Coastal Marine Spatial Planning in the Northeast Region of the U.S.*

*Godfrey Roberts  
New York University*

*Population and Environment: Challenges Ahead*

*Michael Reiter: Discussant*

*Break: 9:30 a.m. – 10:00 a.m.: Vermont Room*

### Concurrent Session 3: Connecticut Room 10:00 a.m. – 11:30 a.m.

*Peter Beck - Presenter & Panel Moderator  
St. Edward University, Austin, TX*

*Does experiential student learning lead to sustainable lifestyles outside the classroom?*

*Shane Epting  
University of North Texas*

*Embedded Normativity and the Scope of Responsibility for Environmental Remediation and Restoration Policy: The Question of Environmental Racism in Vieques, Puerto Rico*

*Gordon Steinhoff  
University of Southern Utah*

*Ecological Integrity and Biodiversity*

*Discussant: Mai Kuha*

### Concurrent Session 4: New Hampshire Room 10:00 a.m – 11:30 a.m.

*Brenda Bushell – Presenter & Panel Moderator*

*Momoko Ozawa & Brenda Bushell  
University of the Sacred Heart, Tokyo, Japan*

*Women's Enterprise in Nepal: Profile, Problems and Prospects*

*Yuko Ushiki  
Tokyo City University, Yokohama, Japan*

*Design and Practice of an Environmental Education Program in Nepal*

*Discussant: Penny Seymoure*

*Brunch: 12:00 noon.- 1:00 p.m.*

### Concurrent Session 5: Connecticut Room: 1:00 p.m. – 2:30 p.m.

*Eric Houk, Presenter and Moderator  
College of Agriculture , California State University, Chico*

*Lessons Learned While Preparing an Interdisciplinary Grant Proposal to Examine a "Wicked" Environmental Problem*

*Greg Cronin*

*University of Colorado – Denver*

*Aquaponics: Growing Fish and Vegetables Together with Minimum Impact*

*Charlotte Dohrn  
Pomona College*

*A Case Study of Small Scale Coffee Production: Coffee Farming as a Potential Toll for Environmental Conservation and Community Development in the Rural Minas Gerais, Brazil*

*Discussant: Jeffrey Roberg*

***Concurrent Session 6: Connecticut Room: 1:00 p.m.- 2:30 p.m.***

*Paul Barresi - Presenter & Panel Moderator*

*Isa Kwabe  
Dept. of Geography and Environmental Management, University of Abuja, Nigeria*

*"Rapid Appraisal of Urban Green Spaces in Enugu Metropolis, Nigeria"*

*Wieslaw Walankiewicz and Mateusz Szymura  
University of Natural Sciences and Humanities  
Siedlce, Poland*

*Talking About Bialowieza Forest: recent problems regarding dead wood in protected lands*

*Discussant: Philippa Wells*

*Break: 2:30 p.m. to 3:00 p.m.*

***Concurrent Session 7: New Hampshire Room: 3:00 p.m.- 4:30 p.m.***

*Gesa Beckmann, Bridie McGreavy, Karen Hutchins  
University of Maine, Department of Communication and Journalism &  
The Margaret Chase Smith Policy Center*

*Linking Knowledge with Action for Sustainable Solutions: Learning Organization Research Models in an Interdisciplinary Sustainability Science Portfolio*

*Discussant: Eric Fitch*

***Concurrent Session 8: Connecticut Room: 3:00 p.m. – 4:30 p.m.***

*Susan Gill – Presenter and Panel Moderator  
Stroud Water Research Center, Avondale, PA, USA*

John Fraiser  
Stroud Water Research Center, Avondale, PA, USA

The Passion of the Schist

Pooja Kanwar  
University of Vermont

An Ecological Risk Assessment and Multi-jurisdictional Analysis of the Kaipara Harbour

Julianna Diaz

Discussant: Shane Epting

**Poster Session: Vermont Room 5:00-6:00 p.m.**

Diana Black  
Department of Art and Design – University of Wisconsin – Stevens Point

Lake Michigan Song: Connecting to Place by Visualizing the Changing Ecotone of Northern Lake Michigan

Gesa Beckmann/University of Maine  
Leuphana University of Lüneburg, Germany/

Guidance for a Sustainable Indicator System: A Case Study of Sustainable Community Development for Lüneburg, Germany

Dinner on your own

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**Monday Schedule:**

**Concurrent Session: New Hampshire Room: 8:00 a.m.-9:30 a.m.**

Charles S. Simpson – Presenter & Panel Moderator  
State University of New York at Plattsburg

Sacrificing Nature: Gold Mining on Indigenous Lands in Oaxaca, Mexico

Hussein El Kersh  
The American University of Cairo, Dept. of Mechanical Engineering

Towards Sustainability Through Innovation

Hayelom Temanu  
Dept. of Environmental Science ; UNESCO-IHE Institute for Water Education



## Concurrent Session: New Hampshire Room: 8:00 a.m. – 9:30 a.m.

Mai Kuha, Presenter & Panel Moderator  
Ball State University, Muncie, IN

### Conceptualizing Growth and its Alternatives: The Role of Metaphor

Manita Shrestha  
Tokyo Gajugei University

### Livelihood-based Environmental Education in Endogenous Development of Nepal -Survey Based on Biogas Technology

Juliet Landler  
University of Technology Sydney, NSW, AU

### Interactions between Engineers and Architects in Environmental Design Teams

Robert Sanford, Travis Wagner, and Joseph Staples  
University of Southern Maine, Portland, ME

### Environmental Science/Studies departments as models for sustainable adaptations to changing times in higher education.

## Break 9:30 a.m. – 10:00 a.m.

## Concurrent Session: Connecticut Room: 10:00 a.m. – 11:30 a.m.

Eric Fitch – Presenter & Moderator  
Marietta College Biology & Environmental Science Dept.  
Marietta, OH, USA

### Can Sustainability Achieve the Same Status or Greater as Environmental Science or Environmental Studies?

Amriah Buang  
School of Social, Development and Environmental Studies  
Universiti Kebangsaan, Bangi, Selangor, Malaysia

### Combating Environmental Pollution Through Hydrogen Technologies: Prospects of Public Acceptance

Thomas Ward  
Urban Studies and Planning  
California State University, Northridge

Adoption and Diffusion of Pollution Prevention Technologies in the U.S. Wood Furniture Industry  
Designed to Reduce VOC Emissions

*President's Luncheon: 12:00 noon – 1:00 p.m.*

*Plenary Presentation: 1:30 p.m. -3:00 p.m.*

*Christopher R. Sauer,  
President & CEO,*

*Ocean Renewable Power Company, LLC.  
120 Exchange Street, Suite 508  
Portland, ME 04101*

***(207) 772-7707***

[info@oceanrenewablepower.com](mailto:info@oceanrenewablepower.com)

*Renewable ocean energy*

*Break: 3:00 p.m. – 4:00 p.m.*

*Plenary Presentation 2: 4:00 p.m.- 5:15 p.m.  
Sebastian Belle*

*Maine Aquaculture Association  
Box 148, Hallowell, Maine. 04347*

[Maineaqua@aol.com](mailto:Maineaqua@aol.com)

*The Development and Implementation of Best Management Practices Designed to Mitigate and Reduce the Environmental Impacts of Aquaculture; Maine, A Case Study.*

*Dinner on your Own*

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***Tuesday July 3<sup>rd</sup>:***

***Workshop: 8:00 a.m. – 9:30 a.m. Connecticut Room***

***Applying Epidemiologic Reasoning to Environmental Problems***

*A workshop taught by Matthew Gribble for the Interdisciplinary Environmental Association*

**Purpose:** *To introduce causal inference concepts from epidemiology, including confounding, mediation, and effect modification, which have wide applicability for many environmental problems. This workshop will teach participants how to draw causal diagrams such as DAGs (directed acyclic graphs) and use these diagrams to help decide which variables should be included in a multivariable statistical analysis, and which variables if adjusted for in a multivariable analysis would lead to biased conclusions. We will practice using these tools by interactively applying them to scenarios posed by participants.*

**Timeline:** *20 minutes introduction of concepts, 40 minutes workshop practicum of participants drawing causal diagrams for problems in their own environmental interest areas.*

*IEA Annual Business Meeting: 10:00 a.m. – 12:00 noon: Vermont Room*

*Casco Ferry Mail Run: Gather in Lobby @ 1:00 p.m., proceed to docks or meet at ferry dock @ 1:30 p.m.*

*Conference Concludes*

*Notes: If you are interested in getting the full conference abstracts, send Eric Fitch an e-mail ([fitch@marietta.edu](mailto:fitch@marietta.edu)). He will be compiling them into a file over the next month and will send you a copy when done.*

*The Registration Desk will be open Sunday and Monday mornings at the beginning of business. If there is anything that you need help with, please come to me and I'll try to make things work. Thanks, Eric Fitch*