



USSEE 2009 CONFERENCE

science and policy for a sustainable future

United States Society for Ecological Economics

5th Bi-Annual conference

Science and Policy for a Sustainable Future

May 31 – June 3, 2009

American University

Washington, DC

* All Exhibits will be located in the Ward Circle Building Atrium

| Sunday, May 31, 2009 | Monday, June 1, 2009 | Tuesday, June 2, 2009 | Wednesday, June 3, 2009 |
|--|--|--|---|
| 9:30 – 12:00 Area Field Trips <i>(see agenda)</i> | 9:00 – 10:30 Pavan Sukhdev <i>Ward 2 (lecture hall)</i> | 9:00 – 10:30 Bill McKibben <i>Ward 1 (lecture hall)</i> | 9:00 – 10:30 Marina Bosi <i>Ward 2 (lecture hall)</i> |
| 12:30 – 2:00 Board Meeting <i>Ward 302</i> | Julie Nelson <i>Ward 1 (lecture hall)</i> | 10:30 – 11:00 Coffee Break - Ward Atrium | Dayna Baumeister <i>Ward 1 (lecture hall)</i> |
| 12:30 – 2:00 Registration - Ward Atrium | 10:30 – 11:00 Coffee break - Ward Atrium | 11:00 – 12:30 6 Parallel Sessions <i>Ward 3, 5, 6, 204, 303, Hurst 1</i> | 10:30 – 11:30 Board Meeting <i>Ward 302</i> |
| 2:00 – 3:30 Opening Panel <i>Ward 2 (lecture hall)</i> | 11:00 – 12:30 6 Parallel Sessions <i>Ward 3, 102,104 106, 302, 306</i> | 12:30 – 2:00 Lunch break | 10:30 – 11:00 Coffee break - Ward Atrium |
| 3:30 – 4:00 Coffee Break - Ward Atrium | 12:30 – 2:00 Lunch with Herman Daly <i>Mary Graydon Center</i> | Poster session – Ward 4 | 11:00 – 12:30 6 Parallel Sessions <i>Ward 3, 101, 105, 114, 201, 202</i> |
| 4:00 – 5:30 Paul Anastas <i>Ward 2 (lecture hall)</i> | 2:00 – 3:30 7 Parallel Sessions <i>Ward 3, 101, 102,104 106, 302, 306</i> | 2:00 – 3:30 7 Parallel Sessions <i>Ward 3, 5, 6, 203, 204, 303, Hurst 1</i> | 12:30 – 2:00 Lunch break |
| 6:00 – 8:00 Welcome Reception <i>Woods Brown Amphitheatre</i> | 3:30 – 4:00 Coffee Break - Ward Atrium | 3:30 – 4:00 Coffee Break - Ward Atrium | Poster session - Ward 4 |
| | 4:00 – 5:30 7 Parallel Sessions <i>Ward 3, 101, 102,104 106, 302, 306</i> | 4:00 – 5:30 7 Parallel Sessions <i>Ward 3, 5, 6, 203, 204, 303, Hurst 1</i> | 2:00 – 3:30 Closing Panel <i>Ward 2 (lecture hall)</i> |
| | 5:30 – 7:30 Open USSEE Membership Meeting - Ward 2 (lecture hall) | 6:00 – 9:00 Conference Banquet Peter May <i>Mary Graydon Center</i> | |
| | 6:00 – 8:00 Open House - Ward Atrium | | |

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Sunday, May 31, 2009

Area Field Trips

- 10:00 - 1:00 PM Guided walking tour of downtown DC and Smithsonian National Museum of American History
 - Meet in front of Ward Circle Building to walk to the Tenleytown- AU metro stop.
- 10:30 AM - 12:30 PM Green building and green commitments – A visit to the Finnish Embassy
 - Meet in front of Ward Circle Building to walk down to the Embassy

12:30 – 2 PM:

Registration

- Collect conference information, etc.
- *Ward Circle Building Atrium*

12:30 – 2 PM:

Board Meeting

- *Ward 302*

2:00 – 3:30 PM:

Opening Panel

Ecological Economics – Then and Now

- *Welcome:* Sabine O'Hara, President, USSEE
- *Chair:* Karin Limburg, State University of New York, Syracuse
- *Panelists:*
 - Robert Costanza, Gund Institute of Ecological Economics, Univ. of Vermont
 - John Gowdy, Rennselaer Polytechnic Institute
 - Beth Sawin, Sustainability Institute in Hartland, Vermont
 - Rashid Sumaila, University of British Columbia
- *Ward 2 (lecture hall)*

3:30 – 4:00 PM:

Coffee Break – Ward Atrium

4:00 – 5:30 PM:

Opening Keynote Speech

Introduction of speaker: Sabine O'Hara, President, USSEE

Green Chemistry: From Here to Sustainability

Julie Zimmerman - Assistant Professor, Department of Chemical Engineering, Environmental Engineering Program and the School of Forestry and Environment, Yale University

6:00 – 8:00 PM:

Welcome Reception: with Paul Anastas - Teresa and H. John Heinz III Professor in the Practice of Chemistry for the Environment, Yale University

- Appetizers, Wine, Beer
- Woods Brown Amphitheater

Monday, June 1, 2009

9:00 – 10:30 AM:

Opening and Welcome

Keynote Address

Introduction of speaker: Karin Limburg, State University of New York, Syracuse

The Importance Of Ecological Economics At This Time Of Global Economic Uncertainty

Pavan Sukhdev - Study Leader, TEEB & Project Leader, Green Economy Initiative (UNEP)

- *Ward 2 (lecture hall)*

Keynote Address

Introduction of speaker: Ellie Perkins

Between A Rock And A Soft Place: Ecological And Feminist Economics In Policy Debate

Julie Nelson - Associate Professor of Economics, University of Massachusetts Boston

- *Ward 1 (lecture hall)*

10:30 – 11:00 PM:

Coffee Break - Ward Atrium

11:00 – 12:30 PM:

Parallel Sessions

I. Understanding Decisions by Ecosystem Service Providers

- *Chair:* Valerie Esposito, University of Vermont
 - Matthew Cranford, Economics for the Environment, UK: Exploring A Two-stage Approach To Payments For Ecosystem Services
 - Seth Soman, Dickinson State University: An Agent Based Model For Predicting Agricultural Land Use Change And Provisioning Of Ecosystem Services
 - Valerie Esposito, University of Vermont: Conservation And Poverty Alleviation In Costa Rica's PES Program: Friends Or Foes?
 - Sarah Lewis, University of Arkansas: Stakeholder Perception Of And Willingness To Pay For Ecosystem Integrity
- *Ward 3*

II. US Climate Policy Solutions

- The Union of Concerned Scientists (UCS) will present its findings on practical solutions for climate change that meet stringent science-based targets for reductions in U.S. emissions of greenhouse gases
- *Chair:* Jasmin Ansar, UCS
- *Panelists:*
 - Douglas Boucher, Director, Tropical Forest and Climate Initiative, UCS
 - Rachel Cleetus, Climate Economist, UCS
- *Discussants:*
 - Dr. Michael Hannemann, University of California-Berkeley
 - Michael Wolosin, The Nature Conservancy
- *Ward 102*

III. Conservation and Human Welfare

- *Chair:* Robert Richardson, Michigan State University
 - Robert Richardson, Michigan State University: The Impact Of Wildlife Conservation On Rural Welfare In Zambia
 - Richard Rice, Conservation International, and Tom Hill, Maasailand Preservation Trust: Resolving Human Wildlife Conflict With Direct Economic Incentives For Conservation
 - Michael Masozera and Jon D. Erickson, University of Vermont: Bioregulation of Disease at the Landscape Scale: Analysis of the Human-Livestock-Wildlife Interface in Semi-Arid Ecosystems of East Africa
 - Margaret Calderon, University of the Philippines: Tourists' Willingness-to-pay For The Conservation Of A UNESCO World Heritage Site: The Case Of The Rice Terraces Of The Philippine Cordilleras
- *Ward 104*

IV. Decision Making in Natural Resource Management

- *Chair:* Thomas Buchholz, State University of New York, Syracuse
 - Bruce Hall and Steven Kraft, Southern Illinois University: [Legitimacy Issues In Three Illinois And Wisconsin Watersheds As Determined By Qualitative Data Analysis Of Focus Groups](#)
 - Thomas Buchholz, Valerie Luzadis, and Neil Patterson, SUNY-ESF: [Sustainable Electricity: Towards Assessing Future Options For An Iroquois Nation Based On Traditional Values](#)
 - Graham Cox, Audubon New York, and Jon Erickson, University of Vermont: [Survey Of Public Priorities As A Guide For Future Sustainable Investment Strategies In The Northern Forest](#)
 - Susana del Granado, SUNY-ESF: [Bolivia's Natural Gas: A Blessing Or A Curse? Analyzing Social Controversy Over The Potential Uses Of Natural Gas In Bolivia](#)
- *Ward 106*

V. Celebrating Herman Daly's Contribution to Ecological Economics

- This symposium celebrates Herman Daly's central contributions to ecological economics, on the occasion of his 70th birthday. The proposed session will invite speakers whose work directly engages with the central themes in Herman's oeuvre.
- *Chair:* Joshua Farley, University of Vermont
- *Panelists:*
 - Robert Costanza, University of Vermont
 - Deepak Malghan, Indian Institute of Management, Bangalore
 - Robert Goodland, World Bank
- *Ward 302*

VI. Pathways and Policies Towards Sustainable Fisheries and Marine Ecosystems

Part 1: Diagnosis of the Problems

- In this symposium, we expose the pathologies of current practices, and explore approaches that will restore, revive, and sustain ecosystem support for fisheries and other ecosystem services
- *Chair:* Karin Limburg, SUNY-ESF
- *Panelists:*
 - U. Rashid Sumaila, University of British Columbia: [Managing Fishery Resources For All Generations](#)
 - Glenn-Marie Lange, Environment Department, World Bank: [Economic Value Of Marine Ecosystem Services In Zanzibar: Implications For Marine Conservation And Sustainable Development](#)
 - Karin Limburg, SUNY-ESF: [Dramatic Declines In Diadromous Fishes: How Socio-economic Pathologies Lead To Lost Ecosystem Services](#)
- *Ward 306*

12:30 – 2:00 PM:

Lunch (Buffet) Speech

Introduction of Speaker: Sabine O'Hara

[From a Failed-Growth Economy to a Steady-State Economy](#)

Herman Daly, Professor, School of Public Policy, University of Maryland

- *Mary Graydon Center*

2:00 – 3:30 PM:

Parallel Sessions

I. Identifying and Valuing Ecosystem Services

- *Chair:* Spencer Phillips, The Wilderness Society
 - Ricardo Teixeira, Instituto Superior Técnico, Portugal: [Portuguese Millennium Assessment On Ecosystem Services Of Agriculture](#)
 - Andrea Ghermandi, Fondazione Eni Enrico Mattei: [The Economic Value Of Natural Versus Constructed Ecosystems: Evidence From A Meta-analysis](#)
 - Dave Batker, Earth Economics: [A New View Of The Puget Sound Economy](#)

- Spencer Phillips, The Wilderness Society: Getting What You Value From Public Lands: How Over-valuing Timber And Under-valuing Ecosystem Services Limits Stewardship Of Alaska's National Forests

○ Ward 101

II. Ecological Economics Theory Perspectives

- *Chair:* Valerie Luzadis, SUNY-ESF
 - Ida Kubiszewski, University of Vermont: Economics Of Information
 - Joshua Farley, University of Vermont: Energy, Economic Systems, Competition And Cooperation
 - Frederic Jennings, Ctr for Ecol Econ and Ethical Education: Planning Horizons As An Ordinal Entropic Measure Of Organization
 - Valerie Luzadis, SUNY-ESF: Sustainability Science And Entrepreneurship: Toward A New Paradigm For Planetary Stewardship
 - Nathaniel Springer, Rensselaer Polytechnic Institute: The Hartwick Rule: An Ecological Economic Perspective

○ Ward 102

III. Talking to the Media and Policymakers about the Economics of Climate Change

- The UCS will present a skills-building workshop to assist attendees of the USSEE conference in their communications with policy makers and media.
- *Chair:* Rachel Cleetus, Union of Concerned Scientists, UCS
- *Panelists:*
 - Liz Perera, UCS Washington representative
 - Aaron Huertas, Press Secretary, UCS

○ Ward 3

IV. Macro Energy Policy

- *Chair:* Melissa Chan, Harvard University
 - Shazeen Attari, Carnegie Mellon University: Preferences for Change: Do Individuals Prefer Voluntary Actions, Soft Regulations, Or Hard Regulations to Decrease Fossil Fuel Consumption?
 - Constantine Samaras and Ines Lima Azevedo, Carnegie Mellon University: Integrating Climate Economic Policy and Climate Infrastructure Policy
 - Melissa Chan, Harvard University: A Technology-Based Greenhouse Gas Reduction Strategy for 2030

○ Ward 104

V. Advances in Sustainability Indicators

- *Chair:* Brynhildur Davíðsdóttir, University of Iceland
 - Alexandra Marques, Instituto Superior Técnico, Portugal: Urban Environmental Responsibility
 - Alejandra Gonzalez Mejia, University of Cincinnati: Fisher Information As A Measure Of Sustainability In Metropolitan Statistical Areas
 - Brynhildur Davíðsdóttir, University of Iceland: Measuring Sustainable Energy Development (SED): Linking SED Indicators To Dynamics Of Change
 - Deepak Malghan, Indian Institute of Management, Bangalore: A Framework For Consistent Biophysical Metrics

○ Ward 106

VI. Social and ecological sustainability issues

- *Chair:* Maya Kocian, Earth Economics
 - Bernhard Gunter, Bangladesh Development Research: The Impact Of Development And Growth On Energy Use And Co2 Emissions: A Case Study For Bangladesh Until 2050
 - Sirisha Naidu, Wright State University: Green Is In: The Impact Of 'green' Policies On Social And Ecological Sustainability
 - Marina Vornovytsky: Inter-regional Inequalities And Environmental Degradation: Understanding The Political Economy Of Pollution Shifting

- Maya Kocian, Earth Economics: Ecological Economics In Ecuador
- o Ward 302

VII. Pathways and Policies Towards Sustainable Fisheries and Marine Ecosystems

Part 2: Prescriptions for sustainable fisheries and marine ecosystem management

- In this symposium, we expose the pathologies of current practices, and explore approaches that will restore, revive, and sustain ecosystem support for fisheries and other ecosystem services.
- *Chair:* Karin Limburg, SUNY-ESF
- *Panelists:*
 - John Gates, University of Rhode Island (Emeritus): The economic costs of deferred rebuilding: a case study for the Mid-Atlantic
 - Maja Schlueter, Princeton University: Managing Tradeoffs In The Use Of Aquatic Ecosystem Services
 - Kieran Kelleher, World Bank: Recovering The Sunken Billions
- o Ward 306

3:30 – 4:00 PM: **Coffee Break** - Ward Atrium

4:00 – 5:30 PM: **Parallel Sessions**

I. Linking Ecosystem Production to Economic Benefits

- *Chair:* Alexander Macpherson, EPA
 - Alexander Macpherson, EPA: Ecological Production Functions: A Theoretical And Practical Exploration
 - Lisa Wainger, University of Maryland: Spatially Heterogeneous Production Functions: Concepts And Applications To Prioritizing Restoration
 - Matt Weber, EPA: Valuation Challenges Of Riparian Restoration In A Dynamic Decision Support Context: What Could Possibly Go Wrong?
- *Discussant:*
 - Randy Bruins, EPA
- o Ward 3

II. Perspectives on Ecological Economics Education

- *Chair:* Bernardo Aguilar-Gonzalez, Fundacion Neotropica
 - Valerie Esposito, University of Vermont: Developing A Critical, Ecologically Civically Literate (CECI) Ecological Economics Graduate: The Use Of Service-learning In Ecological Economics Education
 - Juha Hiedanpaa, Finnish Game and Fisheries Res: Of Wolf And Man: Learning Reasonable Valuation
 - Bernardo Aguilar-Gonzalez, Fundacion Neotropica: Radical Political Ecology And Ecological Economic Education: A Critical Reflection Of 10 Years Of Experience At Prescott College
- o Ward 101

III. Perspectives on Climate Change Mitigation and Adaptation

- *Chair:* John Gowdy, Rensselaer Polytechnic Institute
 - Marsha Walton, NYSERDA: The Effect of Local Climate Change Impact Information on Attitudes About Climate Change Policy
 - Philip Sirianni, SUNY Binghamton: Contemporary Fairness Vs. Historical Justice – A Normative Analysis of Regional Greenhouse Gas Emissions
 - Michael O’Hara, Colgate University: What Can Monetary Policy Tell Us About Dealing With Climate Change?
 - John Gowdy, Rensselaer Polytechnic Institute: Climate Change Economics In The Long Run
- o Ward 102

IV. Carbon Trading: Regulatory and Voluntary Emission Reductions Approaches

- *Chair:* Jonathan Dowds, University of Vermont
 - Joshua Farley, University of Vermont: Revenue Generation And Distributional Impacts Of The Vermont Common Assets Trust: The Case Of Atmospheric Carbon Dioxide Absorption Capacity
 - Jonathan Dowds, University of Vermont: Inefficiencies And Perverse Incentives In Greenhouse Gas Cap-and-trade Schemes: The Case Of Electric Sector Caps And Electric Vehicles
 - MD Shammin, Oberlin College: Embodied Carbon Emissions By Us Households: Missing Emissions And Equity Impacts Of Calculators Used In Carbon Offsets
 - Ivan Valencia, University of Maryland: Ecotourism, Air Travel And Climate Change: Addressing Trade-offs Between Development And Environment With Changes In Tourists' Length Of Stay
- *Ward 104*

V. Global Economic Value of Coastal/Marine Ecosystems and the Impact of Climate Change

- This study will assess and map the economic value of coastal and marine ecosystems and to predict the potential impact of climate change on these services at a global scale.
- *Chair:* Rosimeiry Portela, Conservation International
- *Panelists:*
 - Rashid Sumaila, Vicky Lam, and William Cheung, University of British Columbia: Fisheries Under Climate Change
 - Andrea Ghermandi, Giulia Macagno, and Paulo Nunes, Eni Enrico Mattei Foundation (FEEM): Tourism and Recreation Under Climate Change
 - Nalini Rao, Rosimeiry Portela, and Jose-Luis Izursa, Conservation International: Shoreline and Coastal Protection Under Climate Change
- *Ward 106*

VI. Our Time is Now: Financial Crisis and Generating Ecological Economics Policy for this Administration (Session 1)

- This two-day workshop aims to engage the participants to plaster together a framework populated by ecological economic policy solutions to implement an ecological economics paradigm shift.
- *Chair:* David Batker, Earth Economics
- *Panelists:*
 - Herman Daly, University of Maryland
 - Leonardo Burlamanqui
 - Thea Lee
- *Ward 302*

VII. Regional and urban studies of sustainable development

- **Session 1: Case Studies in the Americas**
- *Chair:* Carol Franco Billini, University of Vermont
 - Carol Franco Billini, University of Vermont: Developing A Comprehensive Measure Of Subjective Well-being In The Dominican Republic
 - Eneida Campos, Federal University of Sao Joao del Rei, Brazil: Payment For Ecosystem Services (pse) Schemes In Developing Countries: Potential Of Implementation In Nazareno City, Brazil
 - Gary Kleppel, SUNY Albany: Sustainable Development Of Rural Landscapes In Upstate New York – A View From The Trenches
 - Anna Stewart, SUNY ESF: Developing An Integrated Socio-ecological Model Of Dengue Fever Transmission
- *Ward 306*

6:00 PM:

Open House

Networking amongst conference participants

- *Snacks, etc.*
- *Ward Atrium*

Tuesday, June 2, 2009

9:00 – 10:30 AM:

Keynote speech

Introduction of speaker: Sabine O'Hara

The Most Important Number in the World

Bill McKibben

- *Ward 1 (lecture hall)*

10:30 – 11:00 AM:

Coffee break - *Ward Atrium*

11:00 – 12:30 PM:

Parallel Sessions

I. Incorporating Ecosystem Services into National Measures of U.S. Wealth and Human Well-being

- *Chair:* Iris Goodman, EPA
 - Dave Batker, Earth Economics: Earth Economics: Replacing The Gdp With Science-based Measures For 21st Century Economic Policy
 - Robert Costanza, University of Vermont: Misuse Of The GDP And The Need For New Measures Of Progress
 - Paul Ringold, EPA: Potential For National Ecosystem Services Indicators Reporting Based On A National Ecosystem Services Survey
- *Ward 3*

II. Why We Must Share a Positive Externality: Rent

- *Chair:* Jeffrey Smith, President, Forum on Geonomics
 - Joshua Farley, University of Vermont: Vermont's Common Asset Trust: A Practical Application Of Georgist Ecological Economics
 - Bill Batt: Georgist Economics And Ecological Economics
 - Gary Flomenhoft, University of Vermont: An Inventory Of Potential Economic Rent On Common Assets In Vermont
 - Jeffrey Smith, Forum on Geonomics: Land, The Missing Link: Rent As Indicator And Path To Energy Efficiency, Sustainable Development, Stable Population, Participatory Democracy, And Income Parity
- *Ward 5*

III. Using Integrated Assessment Modeling in Climate Change Mitigation Policy

- *Chair:* Seth Baum, Pennsylvania State University
 - Seth Baum, Pennsylvania State University: Discounting and Beyond: Interpreting the Ethics in Climate Change Economics
 - Emily McKenzie, World Wildlife Fund: Using Integrated Assessment in Real-World Climate Change Decisions
 - Richard Howarth, Dartmouth College: Characterizing Uncertainty in Integrated Assessment: Methods and Implications
 - Ines Lima Azevedo, Carnegie Mellon University: Uncertainty in Energy Efficiency Projections: Implications for Energy and Climate Policies
- *Ward 6*

IV. Policies for Sustainable Agriculture and Social Justice: Combating Climate Change, Promoting Decentralization and Full Employment

- In this panel we will explore how alternative policies that support less-intensive agricultural methods in certain parts of the world can be used to achieve different policy objectives
- *Chair:* Fatma Gul Unal, Bard College at Simon's Rock

- *Panelists:*
 - Charalampos Konstantinidis, University of Massachusetts Amherst: Organic Farming And The Revitalization Of The Countryside: The Cases Of Greece And Austria
 - Hasan Tekguc, University of Massachusetts Amherst: Chasing Co-benefits Of Ghg Emission Reduction In Livestock Sector
 - Andrew Barenberg, University of Massachusetts Amherst: Food-for-work Programs In Ethiopia: A Model Of A Sustainable Employer Of Last Resort Programs?
- *Ward 204*

V. Bringing Biophysical Economics into the Classroom

- *Chair:* Karl Seeley, Hartwick College
- *Panelists:*
 - Susana del Granado, SUNY-ESF
 - Whitney Lash, SUNY-ESF
 - Anna Stewart, SUNY-ESF
- *Ward 303*

VI. Management of fisheries and common pool resources

- *Chair:* Stephen Jordan, EPA
 - Diane Vernizeau, Université de Bretagne Occidentale, France: The Icelandic Fisheries Management System As An Example For Eu Fisheries: Legal Aspects And Constraints
 - Alessandro Tavoni, Advanced School of Economics in Venice: Water Management And Equity-driven Ostracism – Maintenance Of Cooperation In A CPR Subject To Variable Resource And Social Conditions
 - Stephen Jordan, EPA: From Patch To Province: Linking Local Production Functions To Regional Ecosystem Services And Values
- *Hurst 1*

12:30 – 2:00 PM:

Lunch Break

- Self-supplied

Speed Talk Session (Brief presentations/posters)

Topics in Ecological Valuation, Theory, and Education

- Karin Limburg, SUNY-ESF: The Good, The Bad, And The Algae: Perceiving Ecosystem Services And Disservices Generated By Zebra And Quagga Mussels
- Randall Bruins, EPA: Estimating Ecosystem Service Changes As A Precursor To Modeling
- Mateo Cordier, Université Libre de Bruxelles, Belgium: "Economic-Environmental" Foresight Modeling In Support Of The Integrated Management Paradigm. A Framework Based On Green Accounting
- Joe Mourad, Georgetown University: A New Mathematical Approach To The Problem Of Impredicativity And Its Application To Ecological Economics As A General Paradigm And A Potential Framework For Quantitative Models
- Luís Fernando Lourenço, Centro Universitário SENAC, Brazil: Environmental Valuation Of Air Quality In The Municipality Of São Paulo, Brazil: Preliminary Results
- Toshiaki Ohkura and Ryunosuke Hamada, NRIC/NIAES, Japan: Reality And Value Of Natural Resources Inventory (NRI) – How Do We Identify The Status And The Capacity Of Our Planet Earth?
- Jeffrey Frank, University of Vermont: The Elasticity Of Happiness: Assessing Subjective Well-being Using Anchoring Vignettes Surveys
- David Proben, University of Vermont: Trust the Land: An Evolution Of Land Management And Business Structures For The Future
- *Ward 4*

2:00 – 3:30 PM:

Parallel Sessions

I. Regional and distributional analyses of ecosystem services

- *Chair:* Randy Bruins, EPA
 - Yi Wang, Guangdong University of Business Studies, China: Theories And Models Of Ecological Compensation Between Eastern And Western Regions In China
 - Will Turner and Keith Lawrence, Conservation International: Global Conservation And The Alleviation Of Poverty
 - Dave Batker, Earth Economics: Ecological Economics In Asia
 - Steve Wilcox, Natural Resources Conservation Service, USDA: Ecosystem Conservation in Costa Rica's Osa Peninsula: Assessing the Potential of Community-Based Trail Systems:
- *Ward 5*

II. Frontiers of biophysical economics

- *Chair:* Karl Seeley, Hartwick College
 - Karl Seeley, Hartwick College: The Creation Of Value And The Recession Of 2007-?
 - Kent Klitgaard, Wells College: 'Green Deal': Biophysical Economics And The Current Recession
- *Ward 6*

III. Climate Mitigation and Adaptation Case Studies

- *Chair:* Whitney Lash, SUNY-ESF
 - Brynhildur Davidsdottir, University of Iceland: Economic Evaluation of Sectoral Objectives of Mitigating Greenhouse Gas Emissions in Iceland
 - Whitney Lash, SUNY-ESF: Using Ecosystem-Level Climate Change Modeling in Forest Management: A Case Study of Cyrilla Racemiflora in the Luquillo Mountains, Puerto Rico
 - Varun Dutt, Carnegie Mellon University: How Do We Perceive Carbon Dioxide Lifetimes?
- *Ward 203*

IV. Assessing Agricultural Sustainability

- *Chair:* Seth Soman, Dickinson State University
 - Tatiana Valada, Instituto Superior Técnico, Portugal: Irrigated Agriculture: Assessing Sustainability
 - Seth Soman, Dickinson State University: Trade-offs Among Ecosystem Services And Agricultural Commodities At The Farm Level
 - Ricardo Teixeira, Instituto Superior Técnico, Portugal: Sustainability Assessment Of Sown Biodiverse Pastures
 - Brian Gross, UC Berkeley: A New Method For Valuing Crop Pollination
- *Ward 204*

V. Rethinking trade and environment: a policy agenda for NAFTA

- This panel will serve as a roundtable among ecological economists and members of civil society who will discuss the need to reform NAFTA to make it more environmentally sustainable and provide specific proposals for reform
- *Chair:* Kevin Gallagher, Boston University and Global Development and Environment Institute, Tufts University
- *Panelists:*
 - Tim Wise, Global Development and Environment Institute, Tufts University
 - Steve Charnovitz, George Washington University Law School
 - Margrete Strand, Sierra Club
 - Mark Linscott, Office of the United States Trade Representative
- *Ward 3*

VI. New Methods for and Critiques of Valuation

- *Chair:* Michele Friend, George Washington University
 - Josef Baum, Indust. Reg. Eco. Research, Austria: How To Measure And Compare Sustainability? - Implemented Concepts Of Measuring Sustainability In China In Comparison With EU Countries
 - Eneida Campos, Federal University of Sao Joao del Rei, Brazil: The Willingness To Work Voluntarily (www) As A Valuation Methodology Of The Ecosystem Services: Assumptions And Construct Validity In Atlantic Forest (Brazil)
 - Michele Friend, George Washington University: A Logic For The Measurement Of Entropy Production In Ecological Systems
 - Kenneth Hermele, University of Lund, Sweden: The Use And Misuse Of Reductionist Measures Of The Nature-economy Interface
- *Ward 303*

VII. Political Ecology and Governance

- *Chair:* Bernardo Aguilar-Gonzalez, Fundacion Neotropica
 - Olga Mashkina, Finnish Environment Institute: Interplay Between Environmental Research And Governance In The Transnational Projects – Cases Of European Research Area Instruments
 - Travis Reynolds, University of Washington: Institutional Determinants Of Success Among Forestry-based Carbon Sequestration Projects In Sub-Saharan Africa
 - Bernardo Aguilar-Gonzalez, Fundacion Neotropica: "Tamagringo": Preliminary Ideas For A Political Ecology Analysis Of Us Amenity Migrants To Costa Rica
- *Hurst 1*

3:30 – 4:00 PM:

Coffee break - Ward Atrium

4:00 – 5:30 PM:

Parallel Sessions

I. ARIES, Artificial Intelligence for Ecosystem Services: a new tool for ecosystem assessment and planning

- *Chair:* Marta Ceroni, University of Vermont
 - Ferdinando Villa, University of Vermont: A Demonstration Of The Aries System
 - Kenneth Bagstad, University of Vermont: Linking Spatial Data And Ecological Knowledge To Map Ecosystem Services Provision, Use, And Benefit Flows
 - Marta Ceroni, University of Vermont: Conservation Planning And Management Using Aries
- *Ward 3*

II. Ecological Footprint: Issues and Applications

- *Chair:* Robert Herendeen, University of Vermont
 - Alexandra Marques, Instituto Superior Técnico, Portugal: Sustainability Assessment Of Traditional Solar Salt
 - James Pittman, Earth Economics: Industrial Footprint Of The Paper And Pulp Industry
 - Robert Herendeen, University of Vermont: Indicators Of Indirectness (e.g., Ecological Footprint) When Cross-boundary Flows Are Accounted For
- *Ward 5*

III. Alternative Energy Options and Policy Analysis

- *Chair:* Barry Solomon, Michigan Technological University
 - Barry Solomon, Michigan Technological University: Biofuels and Sustainability
 - Tatiana Valada, Instituto Superior Técnico, Portugal: Life Cycle Analysis of Bioethanol Versus Gasoline
 - John Sherwell: Windpower Opportunities and Barriers: Experiences From the Mid-Atlantic
 - Gautam Sethi, Bard College: Wind Energy and Property Values: Moving From Speculation to Understanding

- Fernando Machado, State University of Campinas, Brazil: Alternative Energy Options and Policy Analysis

o *Ward 6*

IV. Economic Growth and Alternatives

- *Chair:* Jonathan Harris, Global Development & Environment Institute, Tufts University
 - Peter Victor, York University, Canada: Managing Without Growth. Slower By Design, Not Disaster
 - Jonathan Harris, Tufts University: Population, Resources, And Energy In The Global Economy: A Vindication Of Herman Daly's Vision
 - Joshua Farley, University of Vermont: Addressing The Financial Crisis: An Ecological Economics Approach

o *Ward 203*

V. Regional and Urban Studies of Sustainable Development Session 2: Case Studies in High Growth Economies in Asia

- *Chair:* Bernardo Aguilar-Gonzalez, Fundacion Neotropica
 - Giuseppina Siciliano, School for Advanced Studies in Venice: Rural Development Policies And Sustainability. The Case Of Chongming Island, China
 - Kazunori Tanji, Keio Univ, Japan: An Analysis Of Dependency And Eco-efficiency About Water Consumption And Environmental Loads By Interregional Trade In China

o *Ward 204*

VI. Ethics and Economics

- *Chair:* Robert Richardson, Michigan State University
 - Jack Manno, SUNY-ESF: Utilizing An Ee And Evolutionary Concept Of Commoditization To Understand Oppression
 - Frederic Jennings, Ctr for Ecol Econ and Eth Edcn: Complexity And Complementarity: A Horizontal Economics Of Conscience
 - Sylvie Ferrari, University of Bordeaux, France: Nature Ethics And Sustainable Development: Reflections On Hans Jonas' Precautionary Principle
 - Richard Weisskoff, University of Miami: Mudslide Prevention And Earthquake Recovery In Southern Peru

o *Ward 303*

VII. Our Time is Now: Financial Crisis and Generating Ecological Economics Policy for this Administration (Session 2)

- This two-day workshop aims to engage the participants to plaster together a framework populated by ecological economic policy solutions to implement an ecological economics paradigm shift.

- *Chair:* David Batker, Earth Economics

- *Panelists:*

- Herman Daly, University of Maryland
- Leonardo Burlamanqui
- Thea Lee

o *Hurst 1*

6:00 – 9:30 PM:

Conference Banquet (Buffet Dinner)

President's Address

Introduction of speaker: Sabine O'Hara, President, USSEE

Peter May, President, ISSEE

o *Mary Graydon Center*

Wednesday, June 3, 2009

9:00 – 10:30 AM:

Keynote speaker

Introduction of speaker: Jonathan Harris, Tufts University

The Global Carbon Market: Good for Climate Change, Great for Development

Mariana Bosi - World Bank

- *Ward 2 (lecture hall)*

Keynote speaker

Introduction of speaker: Trista Patterson, USFS

Taking Stock of Nature's Value System: Ecology, Economics, and Life's Principles

Dayna Baumeister - Co-Founder, Biomimicry Guild

- *Ward 1 (lecture hall)*

10:30 – 11:30 AM:

Board Meeting

- *Ward 302*

10:30 – 11:00 AM:

Coffee break - Ward Atrium

11:00 – 12:30 PM:

Parallel Sessions

I. Ecosystem Services in US Federal Agencies: ACES forum

- *Chair:* Greg Arthaud and Trista Patterson, USFS

- *Panelists:*

- Greg Arthaud, National Program Leader for Economics Research, USDA Forest Service
- Sally Collins, USDA
- Iris Goodman, U.S. Environmental Protection Agency
- Carl D. Shapiro, U.S. Geological Survey
- Penny Firth, NSF
- Marc Ribaud, USDA

- *Ward 3*

II. Teaching Ecological Economics in Secondary School and Early College Settings

- This workshop will introduce interactive techniques for teaching ecological economics in high school and early college settings. Activities will address: the relationship between environment and the economy; assumptions underlying 'conventional' and ecological economics; the commons, ideology, and privatization; entropy, economics and energy use; GDP, GPI and community indicators; policies to promote sustainability

- *Chair:* Susan Santone, Creative Change Educational Solutions, Michigan

- *Ward 101*

III. Carbon Trading: Incentives for Biological Sequestration

- *Chair:* Paula Swedeen, Swedeen Consulting

- Ricardo Teixeira, Instituto Superior Tecnico, Portugal: Economic Incentives for Carbon Sequestration in Grassland Soils: An offer You Cannot Refuse
- Paula Swedeen, Swedeen Consulting: Alternatives to offsets for Forest Carbon Sequestration
- Asim Zia, University of Vermont: Post-Kyoto Climate Change Governance Regime: Analyzing Ethical and Statistical Dilemmas in the "Fair" Allocation of Green House Gas Emission Allowances

- *Ward 105*

IV. Agricultural sustainability and food security

- *Chair:* Abhijit Banerjee, Northeastern Illinois University

- Abhijit Banerjee, Northeastern Illinois University: Towards A New Green Revolution In India: Organic Farming, Sustainability And Food Security In The 21st Century

- Geophrey Sikei, Egerton University, Kenya: Labour Allocation Determinants To Activities For Forest Adjacent Rural Households: The Case Of Kakamega Forest, Western Kenya

o Ward 114

V. Consumption and Economic Welfare

- *Chair:* Julianne Mills, Ohio State University
 - David Courard-Hauri, Drake University: Overconsumption And Consumer Obligation: How Do We Think About Our Things When We Aren't Using Them?
 - Julianne Mills, Ohio State University: Prosperity, Consumption, And The Environmental Kuznets Curve: Implications For Global Forest Conservation
 - Kenneth Bagstad, University of Vermont: The Genuine Progress Indicator As A Measure Of Regional Economic Welfare: A Case Study For Northeast Ohio

o Ward 201

VI. Faith, Ecology, Economy

- *Chair:* Theresa Polk
- *Panelists:*
 - Marie Dennis, Director, Maryknoll Office for Global Concerns
 - John Mateyko, Convener, Real World Economy Network: Economic Violence, Economic Politics, and the Movement Toward a Moral Economy

o Ward 202

12:30 – 2:00 PM:

Lunch Break

- Self-supplied

Speed Talk Session (Brief presentations/posters)

Topics in Climate Change, Energy, Resources, and Growth

- Ines Lima Azevedo, Carnegie Mellon University: How Much Carbon Can I Save? How Much Carbon Have I Saved? Evaluating the Cost Effectiveness of U.S. Household Carbon Mitigation Strategies under Carbon Factor Uncertainty
- Melissa Chan, Harvard University: The Total Cost Of Continued U.S. Coal Mining: Expected Private And Environmental Costs
- Brynhildur Davidsdottir, University of Iceland: The Economic and Environmental Implications of Technological Transitions: Moving to a Low Carbon Society in Iceland
- Geophrey Sikei, Egerton University, Kenya: Rural Households' Response to Fuelwood Scarcity around Kakamega Forest, Western Kenya
- Guillaume Peron, Institut Universitaire Européen de la Mer: The Production System of Aquaculture: Constraints Bound to the Integration of Soyabean Meal and Fishmeal
- Ivan Valencia, University of Maryland: Can Taxicabs Be A Bridge Between Private Automobiles And Public Transportation In The U.S.?
- George Atisa, Florida International University: Economic Assessment of Best Management Practices in the Mara River Basin: Toward Implementing Payment for Watershed Services (PWS)
- Whitney Lash, SUNY-ESF: A Comparative Temporal Analysis Of Food Self-sufficiency In Bolivia, Costa Rica, The Dominican Republic, And Ecuador

o Ward 4

2:00 – 3:30 PM:

Closing Panel

Ecological Economics – Staying the Course or Course Correction?

- *Moderator:* Sabine O'Hara, President, USSEE
 - *Panelists:*
 - Jon Erickson, University of Vermont
 - Richard Howarth, Dartmouth College
 - Ellie Perkins, York University
- o Ward 2 (lecture hall)