

**JOINT ANNUAL MEETING
AGRICULTURAL & APPLIED
ECONOMICS ASSOCIATION (AAEA)**

**CANADIAN AGRICULTURAL
ECONOMICS SOCIETY (CAES)**

**WESTERN AGRICULTURAL ECONOMICS
ASSOCIATION (WAEA)**

**July 25-27 2010
Denver, Colorado**

AERE SESSIONS

***designates presenter**

Session A: Advances in Nonmarket Valuation

Subject Code: Environmental and Nonmarket Valuation

Session Summary: Considers both conceptual and empirical topics of concern in the area of non-market valuation. Fundamental issues are considered regarding the choice of functional-form specification and the treatment of preference uncertainty. Papers also investigate the use of sales versus appraised land values for hedonic estimates of farmland and alternative ways of presenting ecological information in stated-preference surveys.

Moderator: Joseph A. Herriges, Iowa State University (jaherrig@iastate.edu)

Presentation Title: Model Uncertainty and Recreation Demand

Author(s): Babatunde O. Abidoye,* Iowa State University (babidoye@iastate.edu), Joseph A. Herriges
Discussant: Shan Ma

Presentation Title: Capturing Preference Uncertainty Using Elicited Choice Probabilities

Author(s): Subhra Bhattacharjee,* Iowa State University (subhra@iastate.edu), Joseph A. Herriges, Catherine L. Kling
Discussant: Robert J. Johnston

Presentation Title: Hedonic Valuation of Farmland Using Sale Prices Versus Appraised Values

Author(s): Shan Ma,* Michigan State University (mashan1@msu.edu), Scott M. Swinton
Discussant: Babatunde O. Abidoye

Presentation Title: Indices of Biotic Integrity in Stated Preference Valuation of Aquatic Ecosystem Services

Author(s): Robert J. Johnston,* Clark University (rjohnston@clarku.edu), Eric T. Schultz, Kathleen Segerson, Elena Y. Besedin
Discussant: Subhra Bhattacharjee

Session B: Conservation and Ecosystem Services

Subject Code: Environmental and Nonmarket Valuation

Session Summary: The complexity of ecosystem science presents consumers and planners with an unfamiliar yet important suite of nonmarket goods. This session includes theoretical and empirical research on the economics of conservation. The first paper examines how providing ecological information influences willingness to pay for ecological restoration. The second paper empirically analyzes the effectiveness of payments for ecosystem services to prevent deforestation and contrasts payments with traditional regulation. The third paper furthers the literature on reserve site selection by modeling the endogeneity of land prices in a dynamic setting. The last paper addresses interpretations of optimal stopping problems in resource economics.

Moderator: David C. Finnoff, University of Wyoming (Finnoff@uwyo.edu)

Presentation Title: The Effects of Ecological Information Provision on Preferences for Ecosystem Restoration

Author(s): Yohei Mitani,* University of Colorado (mitani@colorado.edu)
Discussant: Kathy Baylis

Presentation Title: The Role of Payment for Environmental Services Versus Regulation in Preventing Deforestation: A Case Study of the Monarch Butterfly Conservation Fund

Author(s): Kathy Baylis,* University of Illinois Urbana-Champaign (baylis@illinois.edu), Jordi Honey-Roses, Isabel Ramirez-Ramirez
Discussant: Yohei Mitani

Presentation Title: Does Ignoring Dynamic Price Effects In Reserve Design Models Lead to Suboptimal Reserves? A Two-Period Linear Integer Site Selection Model

Author(s): Sahan Dissanayake,* University of Illinois Urbana-Champaign (sdissan2@illinois.edu), Hayri Önal
Discussant: Graham A. Davis

Presentation Title: The Economics of Optimal Stopping

Author(s): Graham A. Davis,* Colorado School of Mines (gdavis@mines.edu), Robert D. Cairns
Discussant: Sahan Dissanayake

**Session C: Advances in Renewable Resource
Economics and Management**

Subject Code: Natural Resource Economics

Session Summary: Illustrates current trends in renewable resource economics including the spatial dimensions of resources, the possibility of self-governance, and the links between renewable and nonrenewable resources. The first paper explores the need for spatially heterogeneous regulation of ground water pumping with an application to Nebraska. The second paper uses program evaluation to test whether self-management of Korean coastal fisheries benefits individual fishermen. The third paper models a spatially complex aquifer with heterogeneous users and derives a tax rule to induce socially optimal extraction. The fourth paper examines how renewable energy capacity constraints affect non-renewable resource use and resulting GHG emissions.

Moderator: Craig Bond, Colorado State University
(Craig.Bond@colostate.edu)

Presentation Title: The Regulation of a Spatial and Dynamic Externality: Tradable Ground-Water Permits for the Protection of Instream Flows

Author(s): Yusuke Kuwayama* University of Illinois Urbana-Champaign (ykuwaya2@illinois.edu), Nicholas Brozović

Discussant: TBD

Presentation Title: Does Self Management in Fisheries Enhance Profitability? Examination of Korea's Coastal Fisheries

Author(s): Hirotsugu Uchida,* University of Rhode Island (uchida@uri.edu), Emi Uchida, Jung-Sam Lee, Jeong-Gon Ryu, Dae-Young Kim

Discussant: Min Wang

Presentation Title: A Simple Mechanism for a Complex Aquifer

Author(s): Glenn Sheriff,* National Center for Environmental Economics, EPA
(sheriff.glenn@epa.gov), Stergios Athanassoglou,

Tobias Siegfried, Woonghee Tim Huh

Discussant: Yusuke Kuwayama

Presentation Title: Impacts of Renewable Resource R&D: The Role of Capacity Constraints

Author(s): Min Wang,* Iowa State University
(wangmin@iastate.edu), Jinhua Zhao

Discussant: Hirotsugu Uchida

Session D: Issues in Climate Change and Biofuels

Subject Code: Resource & Environmental Policy
Analysis

Session Summary: Addresses issues in climate change with emphasis on the interaction with agriculture and biofuels. The first paper explores the effects of biofuels on food prices using general equilibrium. The second paper examines how capacity constraints affect the price path of oil when the availability of renewable fuel sources imply that a larger share should be extracted immediately. The third paper examines the link between carbon prices, conversion of cropland into forests, and crop prices in a rational expectations framework. The fourth paper tests whether Nigerian families use migration to hedge against income shocks from weather-induced agricultural profit variability.

Moderator: David Zilberman, University of California Berkeley (zilber11@berkeley.edu)

Presentation Title: Interactions Between Food Prices, Energy Markets, and Biofuel Policies: A General Equilibrium Analysis.

Author(s): Christian Langpap, Oregon State University
(Christian.langpap@oregonstate.edu), JunJie Wu*

Discussant: Jerome Dumortier

Presentation Title: The Green Paradox and the Capacity Building Decision

Author(s): Marc Gronwald,* Institute for Economic Research (gronwald@ifo.de), Markus Zimmer

Discussant: Valerie Mueller

Presentation Title: Agricultural Production in the Context of Rational Expectations and Greenhouse Gas Policies

Author(s): Jerome Dumortier,* Iowa State University
(jofd@iastate.edu)

Discussant: JunJie Wu

Presentation Title: Migratory Responses to Climate Change in Northern Nigeria

Author(s): Valerie Mueller,* International Food Policy Research Institute (v.mueller@cgiar.org), Andrew Dillon, Sheu Salau

Discussant: Marc Gronwald

Session E: Pollution Control and Voluntary Programs

Subject Code: Resource & Environmental Policy Analysis

Session Summary: Includes papers that focus on pollution control through voluntary programs. Specific topics covered include the following: environmentally friendly technical change in small and medium sized firms from an innovation systems perspective; mechanisms to promote greater compliance with ambient levels of pollution; participation in and effectiveness of EPA's 33/50 program to reduce toxics emissions; and the effectiveness of such programs for inducing adoption of environmental technology.

Moderator: Madhu Khanna, University of Illinois Urbana-Champaign (khanna1@uiuc.edu)

Presentation Title: From Innovation System Perspective: Environmentally Friendly Technical Change and Small and Medium Sized Enterprises

Author(s): Pinar C. Geylani,* Duquesne University (geylanip@duq.edu), Bahar C. Erbas
Discussant: Gregory Colson

Presentation Title: Multiple Receptor Ambient Monitoring and Firm Compliance With Environmental Taxes Under Budget and Target Driven Regulatory Emissions

Author(s): Gregory Colson,* University of Georgia (gcolson@uga.edu), Luisa Menapace
Discussant: Pinar C. Geylani

Presentation Title: Impact of EPA's Voluntary Pollution Prevention 33/50 Program on Facility Participation and Emissions

Author(s): Martina Vidovic,* Rollins College (mvidovic@rollins.edu), Neha Khanna
Discussant: Xiang Bi

Presentation Title: Spatial Determinants of Pollution Prevention: Role of Mandatory Regulations and Voluntary Program Participation

Author(s): Xiang Bi,* University of Illinois Urbana-Champaign (xiangbi2@illinois.edu), Madhu Khanna
Discussant: Martina Vidovic

Session F: Topics in Environmental Economics

Subject Code: Resource & Environmental Policy Analysis

Session Summary: Addresses both theoretical and applied issues in environmental economics. The first paper theoretically models trade in waste between the developed and developing world. The second paper uses a panel data set of recycling rates in Japan to test the effect of newly introduced unit-based pricing schemes. The third paper uses a cross-section of firms to estimate what characteristics increased the probability to participate in a voluntary electricity demand management program. The fourth paper uses a panel data set to establish the relationship between ozone exposure and livestock mortality rates, which is required to set the optimal secondary standard for ozone.

Moderator: Sean Cash, University of Wisconsin (scash@wisc.edu)

Presentation Title: Estimating the Sustainability of Unit-Based Pricing Using Panel Data: Household Waste Reduction and Promotion of Sorting Recyclables

Author(s): Takehiro Usui,* Soka University (usui@soka.ac.jp)
Discussant: Shunsuke Managi

Presentation Title: Determinants of Trade in Recyclable Wastes Between Developing and Developed Countries

Author(s): Shunsuke Managi,* Yokohama National University (managi.s@gmail.edu), Keisaku Higashida
Discussant: Takehiro Usui

Presentation Title: Business Participation in Electricity Demand Management Programs

Author(s): J. Mark Leonard,* University of Nebraska Omaha (mleonard@unomaha.edu), Christopher Decker
Discussant: Nicholas Z. Muller

Presentation Title: The Impact of Ozone Air Pollution On Livestock Mortality in the United States

Author(s): Nicholas Z. Muller,* Middlebury College (nmuller@middlebury.edu)
Discussant: J. Mark Leonard

**Session G: AAEA Centennial: Environmental and
Resource Economics**

Subject Code: Natural Resource Economics,
Environmental and Nonmarket Valuation,
Resource & Environmental Policy
Analysis

Session Summary: This session celebrates the 100th anniversary of the AAEA by showcasing the many contributions of agricultural economists and agricultural economics to the field of environmental and resource economics. The first paper reviews topics at the interface of agricultural economics and natural resource economics, including land management, adoption of conservation technologies, institutions for water resource allocation, management of pests and livestock diseases, and valuation of and policies to promote biodiversity conservation. The second paper reviews topics at the interface of agricultural economics and environmental economics, including nonmarket valuation, incentive design, and joint determination.

Moderator: Charles F. Mason, University of Wyoming
(Bambuzlr@uwyo.edu)

Presentation Title: Natural Resource Economics and
Conservation: Contributions of Agricultural Economics
and Agricultural Economists
Author(s): Erik Lichtenberg, James Shortle, James
Wilén, and David Zilberman,* University of California,
Berkeley (zilber11@berkeley.edu)

Discussant: Kenneth E. McConnell, University of
Maryland, College Park (tmccconnell@arec.umd.edu)

Presentation Title: Environmental Economics: How
Agricultural Economists Helped Advance the Field
Author(s): Catherine L. Kling,* Iowa State University
(ckling@iastate.edu), Kathleen Segerson, and Jason F.
Shogren

Discussant: John Loomis, Colorado State University
(jloomis@lamar.colostate.edu),