# Association of Environmental and Resource Economists (AERE) 4<sup>th</sup> Annual Summer Conference

## June 3-5, 2015

## U.S. Grant Hotel, San Diego, California



AERE Summer Conferences—Excellence in academic programming and collegiality in destinations worth visiting



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Cover photo credit: Downtown View from Point Loma, Courtesy Joanne DiBona, SanDiego.org



**Welcome to the fourth Annual AERE Summer Conference** in beautiful San Diego! The AERE conferences have exceeded our expectations as places for presenting and debating exciting research—the San Diego conference promises to be this year's professional and social highlight! I wish all attendees a wonderful time.

I also want to express my deep appreciation to our San Diego Conference Organizing Committee, co-chaired by Mary Evans and Andrew Plantinga, with support from Susan Capalbo and Junjie Zhang, who have put together an outstanding program of Sponsored Sessions, General Sessions, Poster Session, and pre-conference workshop. Be sure to thank

them for many hours of effort. Enjoy the presentations from colleagues familiar to you but please also make sure to welcome the many graduate student presenters and attendees to our association and profession. Finally, a huge thank you is owed to the sponsors of our conference.

Vic Adamowicz, AERE President

**Welcome to San Diego!** We look forward to a thoughtprovoking and stimulating conference with papers presented on a wide range of topics in environmental and natural resource economics. We hope that this year's seaside setting will lead to a lively and engaging discussion of the cuttingedge research and policy issues in the our field.

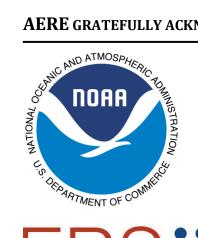
This conference takes a great deal of organization. It would not be possible without the assistance of several people putting in countless hours of work. We would like to thank our colleagues on the Organizing Committee—Susan Capalbo and Junjie Zhang—for their excellent work on all aspects of the program and in particular on the Poster Session. We would also like to thank Susanne Dieper and Lynn Van Norstrand (of Future Field Solutions), Dallas Burtraw (Treasurer), Vic Adamowicz (President) and Alan Krupnick (Past President) for their support. We extend a great deal of gratitude to Marilyn Voigt, without whom managing this complex process would not have been possible, and Adam Jorge for his careful work in helping us put together the program. Finally, we thank the AERE Board for the opportunity to organize the conference and to host AERE 2015.

Mary Evans and Andrew Plantinga Co-Chairs of the 4th Annual AERE Summer Conference 2015





## **AERE** GRATEFULLY ACKNOWLEDGES THE SUPPORT PROVIDED FOR THIS CONFERENCE BY:



National Oceanic and Atmospheric Administration U.S. Department of Commerce



Economic Research Service U.S. Department of Agriculture



The Brattle Group



**Industrial Economics** 

UCLA Luskin School of Public Affairs
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FOR INNOVATION

UCLA Luskin Center for Innovation



Professor Taylor is the Canada Research Chair in International, Energy and Environmental Economics at the University of Calgary, Alberta. He is also a Research Associate at the National Bureau of Economic Research (NBER) in both the International Trade and Investment, and Energy and Environmental Economics working groups and a fellow of the Beijer Institute of Ecological Economics. In addition, he is a CESifo associate and a research professor at the Ifo Institute, Germany.

In 2004, Professor Taylor's book "International Trade

and the Environment: Theory and Evidence" (joint with Brian Copeland) won the Doug Purvis Prize for its outstanding contribution to Canadian Economic Policy. In 2010, he was awarded an Honorary Doctorate by the University of Basel, Switzerland for his pioneering work on trade, the environment, and renewable resources. In 2014 Scott Taylor was named fellow to the Royal Society of Canada (RSC), the highest honor that can be attained by scholars, artists and scientists in Canada.

Professor Taylor's research focuses on the interaction of international markets, economic growth, and environmental outcomes. His most influential works examine how the level of pollution concentrations in major cities is affected by changes in industrial production brought about by international trade and/or economic growth. Other important work connects the health of biological resources such as fish and forest stocks to the pressures brought about by globalization. He has investigated the role natural resource collapses have played in the rise and fall of prehistoric societies, how growth and trade jointly determine environmental outcomes, and how access to international markets affects research, development, and long run growth.

Professor Taylor's publications have appeared in the American Economic Review, Quarterly Journal of Economics, Review of Economic Studies, International Economic Review, Journal of International Economics, Journal of Environmental Economics and Management, Canadian Journal of Economics, and Resource and Energy Economics.

## KEYNOTE ADDRESS: "THE BEGINNING OF THE END OF THE FOSSIL FUEL ERA?"

Thursday, June 4, 2015 at 2:00 p.m. in the Presidential Ballroom

				Wednesday,	June 3, 2015				
7:00-8:30 am	Pre-conference	Pre-conference workshop check-in and breakfast, Executive Corridor							
8:30 am-5:00 pm	Pre-conference workshop, Field Experiments: Design, Methods and Applications, with Meredith Fowlie and Mushfiq Mobarak, Executive Room								
5:00-8:00 pm	Conference reg	Conference registration, Porte Cochere Entry (in hotel lobby)							
7:00-9:00 pm	Welcome recep	Welcome reception, Palm Court							
Thursday, June 4, 2015									
7:30-9:00 am	Continental bre	Continental breakfast and conference registration, Presidential Ballroom Foyer							
9:00-10:30 am	Parallel session	1							
	Congressional	Executive	Senate	Sycuan	Horton Room	Grant A	Grant B	Grant C	Grant D
	Room	Room	Room	Parlor					
	Pollution	Developing	Climate	Revealed	Growth and	Regulation	Transportation	Environment	Ecosystems I
	Control:	Contemporary	Change I	Preference I	the	and	1	and	
	Other	Guidelines for			Environment I	Compliance I		Development	
	Instruments I	Stated-						1	
		Preference							
		Valuation							
10:30-11:00 am		ck break, Grant Fo	yer and Preside	ntial Ballroom I	Foyer				
11:00 am-	Parallel session 2								
12:30 pm	Congressional	Executive	Senate	Sycuan	Horton Room	Grant A	Grant B	Grant C	Grant D
	Room	Room	Room	Parlor					
	Fisheries I	Sponsored	Revealed	Ecosystems	Technological	Political	Pollution	Trade and the	Forest
		Session 1: Field	Preference II	11	Change I	Economy and	Control: Taxes	Environment I	Resources I
		Experiments I				the			
						Environment			
12:30-12:45 pm	Break								
12:45-1:15 pm	Lunch, Presider	ntial Ballroom							
1:15-2:00 pm		rogram, Presidenti							
2:00-2:45 pm	Keynote addres	ss by Professor M.	Scott Taylor, "T	he Beginning o	f the End of the F	ossil Fuel Era?",	Presidential Ballro	om	
2:45-3:00 pm	Coffee break, Grant Foyer and Presidential Ballroom Foyer								

3:00-4:30 pm	Parallel session 3									
	Congressional Room	Executive Room	Senate Room	Sycuan Parlor	Horton Room	Grant A	Grant B	Grant C	Grant D	
	Employment and Distributional Effects of Environmental Policy	Sponsored Session 2: Evidence- based Ecosystem Management	Climate Change II	Stated Preference I	Spatial Analysis I	Revisiting the Energy Paradox and the Implications of Efficiency Standards: What do the Data say?	Agri- Environmental Policy I	Environment and Development II	Pollution Control: Other Instruments II	
5:00-8:00 pm	AERE board mee	eting (invitation or	nly), Vintage Rooi							
					ne 5, 2015					
7:30-8:30 am		akfast, Presidentia	l Ballroom Foyer							
8:30-10:00 am	Parallel session		1	I	T	T	1	1	I	
	Congressional Room	Executive Room	Senate Room	Sycuan Parlor	Horton Room	Grant A	Grant B	Grant C	Grant D	
	Health and the Environment	Sponsored Session 3: Big Data	Water Management I	Natural Disasters	Technological Change II	Climate Change and Agriculture	Non-renewable Resources	Environment and Development III	Environment and the Firm	
10:00- 10:30 am	Coffee and snac	k break, Grant Foy	ver and President	ial Ballroom For	yer	1	1	1		
10:30 am-	Parallel session	5								
12:00 pm	Congressional Room	Executive Room	Senate Room	Sycuan Parlor	Horton Room	Grant A	Grant B	Grant C	Grant D	
	Irreversibility, Risk and Uncertainty	Environmental Regulations and Employment	Water Management II	Air Pollution	Regulation and Compliance II	Climate Change III	Transportation II	Energy I	Forest Resources II	

12:00-1:30 pm	Poster Session and boxed lunch, Presidential Ballroom and Foyer								
1:30-3:00 pm	Parallel session 6								
	Congressional Room	Executive Room	Senate Room	Sycuan Parlor	Horton Room	Grant A	Grant B	Grant C	Grant D
	Pollution Control: Other Instruments III	Sponsored Session 4: Field Experiments II	Fisheries II	Climate Change IV	Growth and the Environment II	Stated Preference II	Pollution Control: Tradable Permits I	Trade and the Environment II	Ecosystems III
3:00-3:15 pm	Coffee break, Grant Foyer and Presidential Ballroom Foyer								
3:15-4:45 pm	Parallel session 7								
	Congressional Room	Executive Room	Senate Room	Sycuan Parlor	Horton Room	Grant A	Grant B	Grant C	Grant D
	International Environmental Agreements	New Applications of Spatial Analysis to Climate Change Issues	Water Pollution	No session	Spatial Analysis II	Pollution Control: Tradable Permits II	Agri- Environmental Policy II	Energy II	Forest Resources III

## **PROGRAM CONTENTS**

PRE-CONFERENCE WORKSHOPp. 10	
WELCOME RECEPTION p. 10	
PARALLEL SESSION 1 p. 10	
PARALLEL SESSION 2 p. 15	
KEYNOTE ADDRESS AND AERE AWARDS PROGRAM	
PARALLEL SESSION 3 p. 20	
PARALLEL SESSION 4 p. 25	
PARALLEL SESSION 5 p. 29	
Poster Session p. 34	
PARALLEL SESSION 6 p. 36	
PARALLEL SESSION 7 p. 40	
PROGRAM COMMITTEE p. 45	
Floor Plan for U.S. Grant Hotel p. 47	
LIST OF CONFERENCE PARTICIPANTS	

## Presenters are listed in the program in boldface type.

### Information on General Sessions:

General Sessions are 90 minutes each and typically include 4 papers. General Sessions do not have discussants. Each presenter will have 15-18 minutes for his/her presentation, followed by 2-4 minutes of audience questions and answers (Q&A). Each paper (presentation and Q&A) is allocated no more than 22 minutes, which will be strictly enforced by the session chair.

### Information on Sponsored Sessions:

Each Sponsored Session has 3 papers. Sponsored Sessions have discussants. Each presenter will have about 15 minutes for his/her presentation, followed by 8 minutes for the discussant and 7 minutes for audience questions and answers (Q&A). Each paper (presentation, discussion, and Q&A) is allocated no more than 30 minutes, which will be strictly enforced by the session chair.

### WEDNESDAY, JUNE 3, 2015

8:00 – 8:30 am	WORKSHOP BREAKFAST	Executive Room
8:00 – 10:00 am	CHECK-IN FOR PRE-CONFERENCE Workshop	Executive Corridor
8:30 am – 5:00 pm	Pre-conference Workshop Field Experiments: Design, Methods, and Applicatio Meredith Fowlie, University of California, Berkeley Mushfiq Mobarak, Yale University	
7:00 – 9:00 pm	WELCOME RECEPTION	Palm Court
5:00 – 8:00 pm	CONFERENCE REGISTRATION	Porte Cochere Entry
TH	IURSDAY, JUNE 4, 2015	
7:30 – 9:00 am	CONTINENTAL BREAKFAST ANDPresCONFERENCE REGISTRATION	sidential Ballroom Foyer
	PARALLEL SESSION 1	
9:00 – 10:30 am	Pollution Control: Other Instruments 1 Chair: Brian C. Murray, Duke University	Congressional Room
	A Proximate Mirror: Greenhouse Gas Rules and St the U.S. Clean Air Act Dallas Burtraw, Resources for the Future; <b>Karen I</b> <b>the Future</b> ; Sophie Pan, Resources for the Future; Resources for the Future	Palmer, Resources f
	Incentives and Additionality in Energy Efficiency S <b>Benjamin Gilbert, University of Wyoming</b> ; Jaco of Tennessee; Kevin Novan, University of Californi	b LaRiviere, Universi
	Energy Efficiency and Intensity Standards Harrison Fell, Colorado School of Mines; <b>Daniel K</b> <b>Colorado Boulder</b> ; Daniel Steinberg, National Res	-
	Regulating Existing Power Plants under the U.S. Cl Consequences of Current Choices	lean Air Act: Future

**Brian C. Murray, Duke University**; Billy Pizer, Duke University; Martin Ross, Duke University

9:00 – 10:30 am	DEVELOPING CONTEMPORARY GUIDELINES FOR STATED Executive Room PREFERENCE VALUATION Chair: Robert Johnston, Clark University					
	Introduction: The Need for Contemporary Stated-Preference Guidelines Michael Hanemann, Arizona State University					
	Guidelines for Design and Testing of Stated-Preference Scenarios <b>Vic Adamowicz, University of Alberta</b>					
	Guidelines for the Analysis and Interpretation of Stated-Preference Data <b>Trudy Cameron, University of Oregon</b>					
	Procedures to Enhance and Evaluate Stated-Preference Validity <b>Robert J. Johnston, Clark University</b>					
	Guidelines for the Reporting and Use of Stated-Preference Estimates <b>Kevin J. Boyle, Virginia Tech</b>					
	Panel Discussion Moderator: <b>Catherine Kling, Iowa State University</b>					
9:00 – 10:30 am						
9.00 - 10.30 am	CLIMATE CHANGE I Senate Room Chair: Alice Favero, Georgia Institute of Technology					
9.00 - 10.30 ani	Chair: Alice Favero, Georgia Institute of Technology Optimal Regulation of Carbon and Co-pollutants with Spatially					
9.00 - 10.30 alli	Chair: Alice Favero, Georgia Institute of Technology					
9.00 - 10.30 alli	Chair: Alice Favero, Georgia Institute of Technology Optimal Regulation of Carbon and Co-pollutants with Spatially Differentiated Damages <b>Christine Crago, University of Massachusetts, Amherst</b> ; John					
9.00 - 10.30 all	Chair: Alice Favero, Georgia Institute of Technology Optimal Regulation of Carbon and Co-pollutants with Spatially Differentiated Damages <b>Christine Crago, University of Massachusetts, Amherst</b> ; John Stranlund, University of Massachusetts, Amherst Global Warming as a Non-uniform Public Bad: the Differential Game Model Revisited					

9:00 – 10:30 am	REVEALED PREFERENCE I Sycuan Parlor Chair: Adam Domanski, National Oceanic and Atmospheric Administration					
	A Test of Proximity as a Proxy for Environmental Exposure in Hedonic Models <b>Taro Mieno, University of Minnesota</b> ; John Braden, University of					
	Illinois at Urbana-Champaign; Laura Taylor, North Carolina State University					
	Learning in a Hedonic Framework: Valuing Brownfield Remediation Lala Ma, University of Kentucky					
	Social-Ecological Dynamics of Aquatic Species Invasions on a Lake-Rich Landscape					
	Katherine Zipp, Penn State University; David Lewis, Oregon State University; William Provencher, University of Wisconsin-Madison					
	Assessing Economic Benefits Associated with Reductions in Marine Debris at Southern California Beaches: a Random Utility Travel Cost Model					
	Christopher Leggett, Statistics and Economics Consul Industrial Economics, Inc.; Timothy Haab, Ohio State Bailey, Industrial Economics, Inc.; Jason Landrum, Ur for International Development; Adam Domanski, Na Atmospheric Administration	University; Ryan nited States Agency				
9:00 – 10:30 am	GROWTH AND THE ENVIRONMENT I Chair: Don Fullerton, University of Illinois	Horton Room				
	Environmental Policy and Structural Environmental <b>Christos Makridis, Stanford University</b>	Change				
	Demographic Change, the One-Child Policy, and Climate Change Mitigation in China <b>Da Zhang, Massachusetts Institute of Technology</b> ; Valerie Karplus, Massachusetts Institute of Technology; Sebastian Rausch, ETH Zurich					
	Environmental Engel Curves Arik Levinson, Georgetown University; <b>James O'Brie</b> <b>College</b>	en, Gettysburg				
	A Model of the Model: Unpacking CGE Results on Lea Policy Kathy Baylis, University of Illinois; <b>Don Fullerton, U</b> Daniel Karney, Ohio University	-				

9:00 – 10:30 am	REGULATION AND COMPLIANCE I Grant A Chair: Valerie Karplus, Massachusetts Institute of Technology
	The Clean Air Act Watch List: an Enforcement and Compliance Natural Experiment <b>Mary Evans, Claremont McKenna College</b>
	Harnessing Enforcement Leverage at the Border to Minimize Invasive Species Introductions from International Trade Michael Springborn, University of California, Davis; <b>Amanda Lindsay,</b> <b>University of California, Davis</b>
	Transportation, Partial Regulation, and Emissions Leakage: Evidence from the Fatality Analysis Reporting System <b>Matthew Zaragoza-Watkins, Massachusetts Institute of Technology</b>
	Firm Incentives and Environmental Control: Evidence from Chinese Cities <b>Valerie Karplus, Massachusetts Institute of Technology</b> ; Yasheng Huang, Massachusetts Institute of Technology; Da Zhang, Massachusetts Institute of Technology
9:00 – 10:30 am	TRANSPORTATION I Grant B Chair: Gloria Helfand, U.S. Environmental Protection Agency
	Cars That Kill You? The Effect of Fuel Economy Standards on Vehicle
	Weight Dispersion Antonio Bento, Cornell University; Kenneth Gillingham, Yale University; <b>Kevin Roth, University of California, Irvine</b>
	Plug-in Vehicles and the Future of Road Infrastructure Funding in the United States
	Matthew Kent, Indiana University & Purdue University Indianapolis; Jerome Dumortier, Indiana University & Purdue University Indianapolis; Seth Payton, Indiana University & Purdue University Indianapolis
	Designing Policy Incentives for Cleaner Technologies: Lessons from California's Plug-in Electric Vehicle Rebate Program J. DeShazo, University of California, Los Angeles; <b>Tamara Sheldon;</b> <b>University of California, San Diego</b> ; Richard Carson, University of California, San Diego
	Searching for Hidden Costs: a Technology-Based Approach to the Energy Efficiency Gap in Light-Duty Vehicles
	<b>Gloria Helfand, U.S. Environmental Protection Agency</b> ; Jean-Marie Revelt, U.S. Environmental Protection Agency; Lawrence Reichle, Oak Ridge Institute for Science and Education; Kevin Bolon, U.S. Environmental Protection Agency; Mandy Sha, RTI International; Amanda Smith, RTI International; Robert Beach, RTI International
	13

9:00 – 10:30 am	ENVIRONMENT AND DEVELOPMENT I Grant C Chair: Martino Pelli, Université de Sherbrooke
	The Effects of Fuel-Efficient Cookstoves on Fuel Use, Particulate Matter, and Cooking Practices: Results from a Randomized Trial in Rural Uganda Theresa Beltramo, Impact Carbon; Garrick Blalock, Cornell University; David Levine, University of California, Berkeley; <b>Andrew Simons</b> , <b>Cornell University</b>
	Poverty Levels and Vulnerability to Extreme Weather Events in Guatemala: a Subjective Economic Well Being Approach Juan Robalino, CATIE & University of California, Riverside
	Where There's Smoke: Measuring Preferences for Improved Cookstove Attributes Using Choice Experiments in Northern Ghana <b>Katherine Dickinson, National Center for Atmospheric Research</b>
	Far Away from the Forest and Close to Town? Fuelwood Markets in Rural India Ujjayant Chakravorty, Tufts University; <b>Martino Pelli, Université de</b> <b>Sherbrooke</b> ; Anna Risch, Université de Savoie
9:00 – 10:30 am	ECOSYSTEMS I Grant D Chair: David Aadland, University of Wyoming
9:00 – 10:30 am	
9:00 – 10:30 am	Chair: David Aadland, University of Wyoming Protected Areas and Deforestation: New Results from High Resolution Panel Data
9:00 – 10:30 am	Chair: David Aadland, University of Wyoming Protected Areas and Deforestation: New Results from High Resolution Panel Data Susmita Dasgupta, The World Bank Evaluating Heterogeneous Conservation Effects of Forest Protection in Indonesia Payal Shah, Okinawa Institute of Science and Technology; Kathy
9:00 – 10:30 am	<ul> <li>Chair: David Aadland, University of Wyoming</li> <li>Protected Areas and Deforestation: New Results from High Resolution Panel Data</li> <li>Susmita Dasgupta, The World Bank</li> <li>Evaluating Heterogeneous Conservation Effects of Forest Protection in Indonesia</li> <li>Payal Shah, Okinawa Institute of Science and Technology; Kathy Baylis, University of Illinois</li> <li>The Optimal Control of Invasive Species in Heterogeneous Environments James Goodenberger, Ohio State University; H. Allen Klaiber, Ohio State</li> </ul>

## PARALLEL SESSION 2

11:00 am-12:30 pm FISHERIES I

Chair: Quinn Weninger, Iowa State University

Congressional Room

The Economic Cost of Ignoring Fishery Induced Evolution **Amanda Faig, University of California, Davis**; James Sanchirico, University of California, Davis; James E. Wilen, University of California, Davis; Marissa Baskett, University of California, Davis

Hitting Capacity: Implications for Outdoor Recreation Valuation **Christopher Steiner, University of California, San Diego**; James Hilger, U.S. National Marine Fisheries Service

Bayesian Fishery Management under Multiple Uncertainty **David Kling, Oregon State University** 

Spatial Search and Learning on the Sea **Quinn Weninger, Iowa State University** 

11:00 am–12:30 pm SPONSORED SESSION 1: FIELD EXPERIMENTS I	<b>Executive</b> Room
Chair: Karen Palmer, Resources for the Future	

Helpful Tool or Spam? Smart Meters, Personalized Feedback, and Customer Retention

## **David Byrne, University of Melbourne**; Leslie Martin, University of Melbourne

Discussant: David Rapson, University of California, Davis

The Long-Term Impact of Matching and Rebate Subsidies When Public Goods Are Impure: Field Experimental Evidence from the Carbon Offsetting Market

**Martin Kesternich, Centre for European Economic Research (ZEW)**; Daniel Römer, Centre for European Economic Research (ZEW); Andreas Löschel, Westfälische Wilhelms-Universität Münster Discussant: Karen Palmer, Resources for the Future

Behavioral Nudges in Competitive Environments: a Field Experiment of Defaults and Social Comparisons in a Conservation Contracting Auction Paul Ferraro, Georgia State University; **Kent Messer, University of Delaware** 

Discussant: Molly Macauley, Resources for the Future

11:00 am-12:30 pm REVEALED PREFERENCE II

Chair: Kelly Bishop, Arizona State University

Anchoring and Property Prices: The Influence of Echelle Des Crus Ratings on Land Sales in the Champagne Region of France Olivier Gergaud, Kedge-Bordeaux Business School; **Andrew Plantinga**, **University of California, Santa Barbara**; Aurelie Ringeval-Deluze, Universite de Reims Champagne-Ardenne

Measuring Willingness to Pay for Environmental Attributes in Seafood James Hilger, U.S. National Marine Fisheries Service; Eric Hallstein, The Nature Conservancy of California; **Andrew Stevens, University of California, Berkeley**; Sofia Villas-Boas, University of California, Berkeley

Incorporating Dynamic Behavior into the Hedonic Model **Kelly Bishop, Arizona State University**; Alvin Murphy, Arizona State University

11:00 am–12:30 pm ECOSYSTEMS II Chair: Jared Woollacott, RTI International Sycuan Parlor

Optimal Dynamic Contracts with Endogenous Social Norms in Payment for Environmental Services Programs Thorsten Janus, University of Wyoming; **Botao Qin, University of Wyoming** 

Spatial-Dynamic Externalities and Strategic Behavior in Disease Control Shady S. Atallah, Purdue University; Jon Conrad, Cornell University; Miguel Gomez, Cornell University

Modeling Ecosystems in General Equilibrium Jared Woollacott, RTI International

#### 11:00am-12:30 pm TECHNOLOGICAL CHANGE I

Chair: Massimo Tavoni, Fondazione Eni Enrico Mattei

Necessity is the Mother of Invention: Directed Technical Change and the British Industrial Revolution David Stern, Australian National University; **John Pezzey, Australian National University**; Yingying Lu, Australian National University

From Fossil Fuels to Renewables: the Role of Electricity Storage Itziar Lazkano, University of Wisconsin-Milwaukee; Linda Nøstbakken, Norwegian School of Economics (NHH); Martino Pelli, Université de Sherbrooke

Biased Technological Change and the Prevention of a Global Warming Induced Environmental Disaster John Boyce, University of Calgary; **Younes Ahmadi, University of Calgary** 

Directed Technological Change and Energy Efficiency Improvements Jan Witajewski Baltvilks, European University Institute; Elena Verdolini, Fondazione Eni Enrico Mattei; **Massimo Tavoni, Fondazione Eni Enrico Mattei** 

11:00 am-12:30 pm POLITICAL ECONOMY AND THE ENVIRONMENT	Grant A
Chair: Lint Barrage, Brown University	

More than NIMBY: Understanding Environmental Conflicts in Large Projects

**Sebastian Miller, Inter American Development Bank**; Raul O'Ryan, Universidad Adolfo Ibanez

Advertising, Media Coverage, and Public Opinion about Climate Change Graham Beattie, University of Toronto

Bribes, Bureaucracies, and Blackouts: Towards Understanding How Corruption Impacts Electricity Reliability **Jacquelyn Pless, Colorado School of Mines**; Harrison Fell, Colorado School of Mines

Is Regulatory Rulemaking State-Contingent? An Empirical Analysis Lint Barrage, Brown University The Implications of Heterogeneity for the Regulation of Energy-Consuming Durable Goods Mark Jacobsen, UC San Diego; Christopher Knittel, Massachusetts Institute of Technology; James Sallee, University of Chicago; **Arthur van Benthem, University of Pennsylvania** 

The Effects of Efficient Environmental Damage Pricing in the Power Sector

#### Daniel Shawhan, Resources for the Future

Fuel Prices, Restructuring, and Natural Gas Plant Efficiency **Matthew Doyle, Colorado School of Mines**; Harrison Fell, Colorado School of Mines

An Evaluation of the Performance of Applied General Equilibrium Models on the Impacts of a Carbon Tax

**Jared Carbone, Colorado School of Mines**; Nicholas Rivers, University of Ottawa; Akio Yamazaki, University of Calgary; Hidemichi Yonezawa, University of Ottawa

11:00 am–12:30 pm TRADE AND THE ENVIRONMENT I Grant C Chair: J. Scott Holladay, University of Tennessee

> The CO2 Content of Consumption Across US Regions: a Multi-Regional Input-Output (MRIO) Approach **Justin Caron, Massachusetts Institute of Technology**; Gilbert Metcalf, Tufts University; John Reilly, Massachusetts Institute of Technology

Green Innovation and Green Imports: Links between Environmental Policies, Innovation, and Trade **Claire Brunel, Georgetown University** 

Battle for Climate and Scarcity Rents: Beyond the Linear-Quadratic Case **Mark Kagan, VU University Amsterdam**; Frederick van der Ploeg, University of Oxford; Cees Withagen, VU University Amsterdam

The Environmental Performance of Foreign Owned Manufacturing Establishments in the United States J. Scott Holladay, University of Tennessee

11:00 am-12:30 p	m Forest Resources I Chair: Sahan Dissanayake, Col	by College	Grant D		
	Gaming the Baseline: Certified Timber Production in Cameroon Jacqueline Doremus, University of Michigan				
	It's Complicated: Direct vs. Incentive-Based Land Conservation in Mexico <b>Katharine Sims, Amherst College</b> ; Jennifer Alix-Garcia, University of Wisconsin				
	ng Deforestation from Intan, Indonesia <b>I Defense Fund</b> ; Rub Kemen Austin, Duke				
	Preferences for REDD+ Contract Attributes: Examples from Choice Experiments in Ethiopia and Nepal <b>Sahan Dissanayake, Colby College</b> ; Bhim Adhikari, IDRC; Abebe Beyene, Ethiopian Development Research Institute; Rajesh Bista, ForestAction Nepal; Randy Bluffstone, Portland State University and EfD; Initia Zenebe Gebreegziabher, Mekelle University; Prakash Jha, ForestAction Nepal; Harisharan Luintel, ForestAction Nepal and Portland State University; Peter Martinsson, University of Gothenburg; Alemu Mekonnen, Addis Ababa University; Naya Paudel, ForestAction Nepal; E. Somanathan, Indian Statistical Institute; Mike Toman, World Bank				
12:30 – 12:45 pm	Break				
12:45 – 1:15 pm	Lunch		Presidential Ballroom		
1:15 – 2:00 pm	<b>AERE A</b> wards <b>Program</b>		Presidential Ballroom		
2:00 – 2:45 pm	Keynote Address "The Beginning of the End of T Professor M. Scott Taylor	THE FOSSIL FUEL ERA?"	Presidential Ballroom		
2:45 – 3:00 pm	Coffee Break	Grant Foyer and Presid	dential Ballroom Foyer		

## PARALLEL SESSION 3

**Congressional Room** 

EMPLOYMENT AND DISTRIBUTIONAL 3:00 – 4:30 pm **EFFECTS OF ENVIRONMENTAL POLICY** Chair: Glenn Sheriff, U.S. Environmental Protection Agency

> Labor Market Dynamics and the Heterogeneous Effects of Environmental Regulation

Mark Curtis, Wake Forest University

Pollution and Labor Supply in a Contest Environment: Evidence from **Outdoor Tennis Tournaments in Beijing** Teng Li, National University of Singapore; Haoming Liu, National University of Singapore; Jingfeng Lu, National University of Singapore; Alberto Salvo, National University of Singapore

Do Industries Pollute More in Poorer Neighborhoods? Evidence from **Toxic Releasing Plants in Mexico** Lopamudra Chakraborti, CIDE; Michael Margolis, CIDE; Jaime Sainz, CIDE

**Ranking Distributions of Environmental Outcomes** Glenn Sheriff, U.S. Environmental Protection Agency; Kelly Maguire, **U.S. Environmental Protection Agency** 

3:00 – 4:30 pm	SPONSORED SESSION 2: EVIDENCE-BASED	<b>Executive Room</b>
	Ecosystem Management	
	Chair: Catherine Kling, Iowa State University	
	The Evolution of Institutions in Local Mechanisms of PES. an	
	Experimental Approach to the Mexican Matching Funds Program	
	Alex Pfaff, Duke University; Luz Rodriguez, Duke University; Elizabeth	
	Shapiro, Duke University	

Discussant: Katherine Sims, Amherst College

Agricultural Cost Sharing and Water Quality in the Chesapeake Bay: **Estimating Substitution Effects among Conservation Practices** Patrick Fleming, University of Maryland Discussant: Catherine Kling, Iowa State University

Evaluation of the Permanence of Land Use Change Induced by Payments for Environmental Services at Two Sites in Latin America Stefano Pagiola, World Bank; Jordi Honey-Roses, University of British Columbia; Jaume Freire-González, ENT Environment and Management Discussant: David Lewis, Oregon State University

3:00 – 4:30 pm	Сымате Снанде II Chair: Casey Wichman, University of Maryland	Senate Room
	Adaptation to Climate Change through Crop Choice: Analysis Ariel Ortiz-Bobea, Cornell University; <b>Haoying War</b> <b>University</b> ; Shun Chonabayashi, Cornell University	ng, Cornell
	Targets, Taxes, and Learning: Optimizing Climate Po Damages <b>Ivan Rudik, University of Arizona</b>	olicy under Knightian
	Economic Impacts of Climate Change on Chinese Ag Importance of Relative Humidity and Other Climatic <b>Peng Zhang, University of California, Santa Barb</b> University of California, San Diego; Minpeng Chen, C Agricultural Sciences	c Variables <b>ara</b> ; Junjie Zhang,
	The Effect of Water Supply Shocks on the Electricity Implications for Climate Change <b>Casey Wichman, University of Maryland;</b> Jonatha State University	
3:00 – 4:30 pm	STATED PREFERENCE I Chair: Laura Taylor, North Carolina State University	Sycuan Parlor /
	WTP for Amazon Rainforest Protection <b>Alan Krupnick, Resources for the Future</b> ; Juha Si for the Future; Jon Strand, World Bank; Jeffrey Vinc	
	Comparison of Wildland Urban Interface Household Private Wildfire Risk Reduction in California and Fle Analysis	
	José Sánchez, USDA Forest Service; John Loomis, Co University; <b>Armando Gonzalez-Caban, USDA Fore</b> Holmes, U.S. Department of Agriculture	
	Choice Set Formation for Outdoor Destinations: the and Preference Discrimination in Site Selection for Public Expenditures on Protected Areas	the Management of
	Mara Thiene, University of Padova; Joffre Swait, U Technology, Sydney; Riccardo Scarpa, University of	-
	The Amenity Costs of Offshore Wind Farms: Eviden Experiment <b>Laura Taylor, North Carolina State University</b> ; D University of Wisconsin; Sanja Lutzeyer, McKinsey &	aniel J. Phaneuf,

3:00 – 4:30 pm	SPATIAL ANALYSIS I Chair: Kathy Baylis, University of Illinois	Horton Room
	Optimal Management of Spatial-Dynamical Natural Addition of Dispersal Controls to Traditional Metape <b>Kailin Kroetz, Resources for the Future</b> ; James Sa of California, Davis	opulation Models
	Coastal Land Use Regulation and Amenities <b>Christopher Severen, University of California, Sa</b> Plantinga, University of California Santa Barbara	<b>nta Barbara</b> ; Andrew
	There Will Be Blood: Crime Rates in Shale-Rich U.S. Alexander James, University of Alaska Anchorag	
	Goldilocks and the Grid: Selecting Spatial Scale when Conservation Policies Andre Avelino, University of Illinois; <b>Kathy Baylis</b> , J Jordi Honey-Roses, University of British Columbia	U U
3:00 – 4:30 pm	Revisiting the Energy Paradox and the Implications of Efficiency Standards: What i Chair: Michael Roberts, University of Hawaii	Grant A DO THE DATA SAY?
	Can Energy Efficiency Standards Reduce Prices and Evidence from the US Clothes Washer Market <b>Arlan Zandro Brucal, University of Hawaii</b> ; Micha of Hawaii	
	The Implications of Market Structure for Appliance Regulation <b>C. Anna Spurlock, Lawrence Berkeley National L</b>	
	Revisiting the Energy Paradox: Do Price and Quanti Efficient Appliances Respond to Changes in Energy I Rates?	
	Michael Roberts, University of Hawaii; <b>Hyun-gyu K</b> i <b>Hawaii</b> ; Arlan Zandro Brucal, University of Hawaii	im, University of
	Do Minimum Standards Improve Quality? Evidence Preference Approach <b>Sebastien Houde, University of Maryland</b> ; C. Anna Berkeley National Laboratory	

3:00 – 4:30 pm	AGRI-ENVIRONMENTAL POLICY I Grant B Chair: Anita Chaudhry, California State University, Chico
	Economic Valuation of Improved Water Quality and Ecosystem Services from Conservation Practices Targeted under Nutrient Reduction Strategies at the Watershed Level <b>Mainul Hoque, Iowa State University</b> ; Yongjie Ji, Iowa State University; Catherine Kling, Iowa State University
	Costs of a Practice-Based Air Quality Regulation: Dairy Farms in the San Joaquin Valley <b>Wei Zhang, Connecticut College</b>
	Alternative Nutrient Management Policies and the Trade-offs between Agricultural Profits and Water Quality Improvements Elena Irwin, Ohio State University; <b>Wendong Zhang, Ohio State</b> <b>University</b>
	Determinants of Water Sales During Droughts: Evidence from Rice Farm- Level Data in California <b>Anita Chaudhry, California State University, Chico</b>
3:00 – 4:30 pm	ENVIRONMENT AND DEVELOPMENT II Grant C Chair: Mushfiq Mobarak, Yale University
	Electrification, Agricultural Productivity and Deforestation in Brazil Juliano Assuncao, PUC-Rio; Molly Lipscomb, University of Virginia; Ahmed Mobarak, Yale University; <b>Dimitri Szerman, PUC-Rio and</b> <b>Climate Policy Initiative</b>
	Supply Responses to Changes in Input Costs: Evidence from Sanitation Markets in Senegal Jean Francois Houde, University of Pennsylvania; <b>Molly Lipscomb,</b> <b>University of Virginia</b> ; Laura Schechter, UW Madison
	Can a Rule-of-Thumb Tool Improve Fertilizer Management? Experimental Evidence from Bangladesh <b>Mahnaz Islam, Harvard University</b>
	Satellites, Self-reports, and Submersion: Exposure to Floods in Bangladesh <b>Raymond Guiteras, University of Maryland</b> ; Amir Jina, University of Chicago; Mushfiq Mobarak, Yale University

3:00 – 4:30 pm	Pollution Control: Other Instr Chair: Neha Khanna, Binghamto		Grant D
	Effects of Information-Based Re Fracturing <b>T. Robert Fetter, Duke Unive</b>	0	rom Hydraulic
	Is Ignorance Bliss? Information Goods <b>Yuanhao Li, University of Wy</b> Wyoming; Klaas van 't Veld, Un	<b>oming</b> ; Jason Shogre	
	Learning by Negligence - Novel the Value of Information Timo Goeschl, University of Hei <b>University</b>	<b>C</b>	
	Voluntary Regulation Program Responsible Care on OSHA Enfo Huan Li, SUNY-Binghamton; <b>Ne</b>	orcement	•
5:00 – 8:00 pm	AERE BOARD MEETING By invitation only	Vintage Room	

7:30 - 8:30 am	Continental Breakfast and Conference Registration	Presidential Ballroom Foyer
	PARALLEL SESSION 4	
8:30-10:00 am	HEALTH AND THE ENVIRONMENT Chair: Vic Adamowicz, University of Alberta	Congressional Room
	Optimal Timing of Public Health Intervention Outbreaks <b>Charles Sims, University of Tennessee</b>	ns in Response to Disease
	Unconventional Shale Gas Development, Risk Behavior: Evidence from Bottled Water Purc <b>Douglas Wrenn, Pennsylvania State Unive</b> State University; Edward Jaenicke, Pennsylva	hases <b>rsity</b> ; H. Allen Klaiber, Ohio
	Pollution, Infectious Disease, and Infant Mor 1918-1919 Spanish Influenza Pandemic <b>Karen Clay, Carnegie Mellon University</b> ; Jo Montreal; Edson Severnini, Carnegie Mellon	oshua Lewis, University of
	Marginal Willingness to Pay for Health Risk H Exogenous versus Endogenous Risks Shelby Gerking, Tilburg University; <b>Vic Adar</b> <b>Alberta;</b> Mark Dickie, University of Central F University of Verona and ETH Zurich	nowicz, University of
8:30-10:00 am	SPONSORED SESSION 3: BIG DATA Chair: Richard Carson, University of Californ	Executive Room ia, San Diego
	The Value of Urgency: Evidence from Conges Antonio Bento, Cornell University; Kevin Rot Irvine; <b>Andrew Waxman, Cornell Universi</b> Discussant: Matthew Kahn, University of Cali	h, University of California, <b>ty</b>
	Temperature and Temperament <b>Patrick Baylis, University of California, Be</b> Discussant: Richard Carson, University of Cal	
	Can High-frequency Data and Non-experimen Recover Causal Effects? Validation Using an I Katrina Jessoe, University of California, Davis <b>of California, Davis</b> ; Doug Miller, University Discussant: Severin Borenstein, University of	Electricity Usage Experiment s; <b>David Rapson, University</b> of California, Davis

8:30-10:00 am	Water Management I Chair: Ujjayant Chakravorty, Tufts University	Senate Room
	Competition for Water: Farming vs. Fracking Claudia Hitaj, U.S. Department of Agriculture; Andr of Rhode Island; <b>Jeremy Weber, University of Pit</b>	
	Water Storage Capacities versus Conservation Effi Complements? <b>Yang Xie, University of California, Berkeley</b> ; Dar University of California, Berkeley	-
	Implications of Search Frictions for Tradeable Perr <b>Mani Rouhi Rad, University of Illinois</b> ; Nicholas Illinois at Urbana-Champaign; Taro Mieno, Univers	Brozovic, University of
	Groundwater Depletion near Roads in the North C <b>Ujjayant Chakravorty, Tufts University</b> ; Martino Sherbrooke	
8:30-10:00 am	NATURAL DISASTERS Chair: Francois Cohen, London School of Economic	Sycuan Parlor CS
	An Imperfect Storm: FEMA, Insurance, and Climat <b>David Kelly, University of Miami</b> ; Marc Conte, Fo	6
	Analyzing the Effect of Mobile Phone Alerts for Ext Hazard Mitigating <b>Jeffrey Ferris, University of Maryland</b>	treme Weather on
	How Should the US Spend Its \$6 Billion on Ebola P <b>Kevin Berry, University of Wyoming</b> ; David Finr Wyoming; Peter Daszak, EcoHealth Alliance; Richa State University; Jason Shogren, University of Wyo	noff, University of Ird Horan, Michigan
	Temperature and Mortality in Mexico <b>Francois Cohen, London School of Economics</b> ; A London School of Economics	Antoine Dechezlepretre,

8:30-10:00 am	Technological Change II Chair: Valentina Bosetti, FEEM, CASBS an	Horton Room d Bocconi University
	Is One Bird in the Hand Worth Two in the European Energy Policy Instruments <b>Michael Huebler, Leibniz Universitaet</b> Centre for European Economic Research; the Future	Hannover; Oliver Schenker,
	Indirectly Induced Innovation: Consequer Analysis <b>Steve Miller, University of California, S</b>	
	The Impact of CAFE Standards on the Tec Automobile Industry <b>Yiwei Wang, Cornell University</b> ; Antoni Kevin Roth, University of California, Irvin	o Bento, Cornell University;
	Patent Transfer and Trade: the Case of Re <b>Valentina Bosetti, FEEM, CASBS and Bo</b> Verdolini, FEEM	
8:30-10:00 am	Climate Change and Agriculture Chair: Jill Caviglia-Harris, Salisbury Unive	Grant A ersity
	Climate Change Impacts on U.S. Agriculture: Accounting for the Option Value of Farmland in the Hedonic Approach <b>Ariel Ortiz-Bobea, Cornell University</b>	
	Climate Change, Technical Change, and U. <b>Jonathan McFadden, Iowa State Univer</b> State University	
	Adaptability of Irrigation to a Changing M We Go? <b>Esha Zaveri, Pennsylvania State Univer</b> University of New Hampshire; Karen Fish University; Steve Frolking, University of M Pennsylvania State University	<b>rsity</b> ; Danielle Grogan, ner-Vanden, Pennsylvania State
	Choosing Between Intensive and Extensive Brazilian Amazon: Implications for Enviro <b>Jill Caviglia-Harris, Salisbury Universit</b>	onmental Conservation

8:30-10:00 am	Non-Renewable Resources Grant B Chair: Linda Fernandez, Virginia Commonwealth University
	Collusion in Mineral Commodity Markets: a Long-Run Perspective <b>Gordon Rausser, University of California, Berkeley</b> ; Martin Stuermer, Federal Reserve Bank of Dallas
	The Relationship Between Oil Price and Costs in the Oil and Gas Industry <b>Gerhard Toews, University of Oxford</b>
	Understanding the 2001-2003 Boom in Natural Gas Capacity in the U.S. Electricity Sector <b>Kelly Stevens, Syracuse University</b>
	Optimal Extraction of Natural Gas and Water Management in the Presence of Pollution Externalities and Resource Scarcity <b>Linda Fernandez, Virginia Commonwealth University</b> ; Jens Schubert, Virginia Commonwealth University
8:30-10:00 am	ENVIRONMENT AND DEVELOPMENT III Grant C Chair: Randall Bluffstone, Portland State University
	Migration and Climate Change in Rural Africa Cristina Cattaneo, FEEM; <b>Emanuele Massetti; Georgia Institute of</b> <b>Technology</b>
	Agricultural Productivity, Labour Reallocation, and Industrial Production in the Short Run: Evidence from India Jonathan Colmer, London School of Economics
	Deforestation and Smallholder Income: Evidence from Remittances to Nepal
	Man Li, International Food Policy Research Institute; Wei Zhang, International Food Policy Research Institute; Zhe Guo, International Food Policy Research Institute; Yanyan Liu, International Food Policy Research Institute; Prapti Bhandary, International Food Policy Research Institute
	Does Collective Action Sequester Carbon? The Case of the Nepal Community Forestry Program <b>Randall Bluffstone, Portland State University</b> ; Eswaran Somanathan, Indian Statistical Institute; Prakash Jha, ForestAction Nepal; Harisharan Luintel, ForestAction Nepal & Portland State University; Rajesh Bista, ForestAction Nepal; Mike Toman, World Bank; Naya Paudel, ForestAction Nepal; Bhim Adhikari, International Development Research Centre

8:30-10:00 am ENVIRONMENT AND THE FIRM Grant D Chair: Klaas van 't Veld, University of Wyoming

Credit Constraints, Technology Upgrading, and the Environment **Dana Andersen, University of Alberta** 

Financial Impact of Positive Environmental Media Release **Yanbing Wang, Purdue University**; Michael Delgado, Purdue University; Neha Khanna, Binghamton University; Vicki Bogan, Cornell University

Firm Structure, Environmental Regulation, and Manufacturing Activities Jingbo Cui, Wuhan University

Overlapping Environmental and Financial Regulations: the Role of Corporate Governance Benjamin Gilbert, University of Wyoming; Sridhar Gogineni, University of Wyoming; **Klaas van 't Veld, University of Wyoming**; Charlie Xu, University of Wyoming

10:00 – 10:30 am **COFFEE AND SNACK BREAK** Grant Foyer and Presidential Ballroom Foyer

## PARALLEL SESSION 5

10:30am-12:00pm IRREVERSIBILITY, RISK AND UNCERTAINTYCongressional RoomChair: Patricia Champ, U.S. Forest Service

Opposing Irreversibilities and Tipping Point Uncertainty in Environmental Policy Charles Sims, University of Tennessee; **David Finnoff, University of Wyoming** 

Controlling an Imported Disease in California Lettuce: a Dynamic Structural Econometric Model of Short- vs. Long-Term Decision-Making **Christine Carroll, University of California, Davis**; Colin Carter, University of California, Davis; C.-Y. Cynthia Lin, University of California, Davis

Learning about a Moving Target in Resource Management: Optimal Bayesian Disease Control

**Matthew MacLachlan, University of California, Davis**; Michael Springborn, University of California, Davis; Paul Fackler, North Carolina State University

Risk Preferences and Wildfire Risk Mitigation **Patricia Champ, U.S. Forest Service** 

10:30am–12:00pm ENVIRONMENTAL REGULATIONS AND EMPLOYMENT Executive Room Chair: Ronald Shadbegian, U.S. Environmental Protection Agency

> How Will Climate Change Policies Affect Domestic Manufacturing? Joseph Aldy, Harvard University; William Pizer, Duke University

Unemployment and Environmental Regulation in General Equilibrium **Marc Hafstead, Resources for the Future**; Roberton Williams III, Resources for the Future & University of Maryland

Do Renewable Portfolio Standards Affect Manufacturing Activity Through Electricity Prices?

Ann Ferris, U.S. Environmental Protection Agency; **Wayne Gray, Clark University**; Ronald Shadbegian, U.S. Environmental Protection Agency; Ann Wolverton, U.S. Environmental Protection Agency

Ozone Regulations, Electricity Prices, and Labor Demand Ronald Shadbegian, U.S. Environmental Protection Agency

10:30am–12:00pm WATER MANAGEMENT II Senate Room Chair: Kenneth Baerenklau, University of California, Riverside

> Water Use and Conservation in Manufacturing: Evidence from U.S. Microdata Randy Becker, U.S. Census Bureau

How Do Population Growth and Climate Change Affect Water Use? An Econometric Analysis of Landscape Change

**Daniel Bigelow, Oregon State University**; Andrew Plantinga, University of California, Santa Barbara; David Lewis, Oregon State University; Christian Langpap, Oregon State University

How Do Water Rights Institutions Affect Climate Change Impacts on Water Supply? Karen Fisher-Vanden, Pennsylvania State University; Sheila Olmstead, University of Texas, Austin; **Renata Rimsaite, Pennsylvania State University** 

Demand and Welfare Estimation under Block Rate Water Pricing Kenneth Baerenklau, University of California, Riverside Chair: Junjie Zhang, University of California, San Diego

Severe Air Pollution and Labor Productivity Teng Li, National University of Singapore; **Haoming Liu, National University of Singapore**; Alberto Salvo, National University of Singapore

What to Expect When You're Expecting: Estimating the Impact of Air Pollution on Theatrical Market Xiaobo He, University of Adelaide; **Zijun Luo, Colgate University**; Junjie Zhang, University of California, San Diego

Air Pollution and Defensive Expenditures: Evidence from Particulate-Filtering Face Masks Quan Mu, Peking University; **Junjie Zhang, University of California, San Diego** 

 10:30am-12:00pm REGULATION AND COMPLIANCE II
 Horton Room

 Chair: Jay Shimshack, University of Virginia

Price versus Quantity versus Hybrid Regulation in the Presence of Copollutants

**John Stranlund, University of Massachusetts, Amherst**; Insung Son, University of Massachusetts, Amherst

Price versus Quantities versus Indexed Quantities **Frederic Branger, CIRED**; Philippe Quirion, CIRED

Local Economies and the Environment: Unemployment and State-level Enforcement of the Clean Water Act Ryan Abman, University of California, Santa Barbara; **Katherine Grooms, Southwestern University** 

Should Regulators Punish Frequent Violators more Severely? Evidence from Clean Water Act Enforcement Jay Shimshack, University of Virginia; Michael Ward, Monash University 10:30am–12:00pm CLIMATE CHANGE III Grant A Chair: Christian Traeger, University of California, Berkeley

> Climate Change and Coastal Development: Implications for Future Hurricane Damage and Federal Spending **Terry Dinan, Congressional Budget Office**

Adaptation to Flooding Risk: Evidence on the Role of Technological Innovation and Social Learning **Qing Miao, Syracuse University** 

Adaptation to Climate Change: Extreme Events versus Gradual Changes Sangjun Lee, Korea Energy Economics Institute; Jinhua Zhao, Michigan State University

Analytic Integrated Assessment and Uncertainty Christian Traeger, University of California, Berkeley

10:30am–12:00pm TRANSPORTATION II Chair: Steven Sexton, Duke University Grant B

Linking Housing and Automobile Purchase Decisions: Do Housing Supply Regulations Promote Green Cities? Antonio Bento, Cornell University & NBER; **Joel Landry, Pennsylvania State University**; Edson Severnini, Carnegie Mellon University

The Impact of British Columbia's Carbon Tax: Estimating Heterogeneous Responses from Household Vehicle Fuel Use **Vincent Thivierge, University of Ottawa**; Chad Lawley, University of Manitoba

When Buses Go to Market: Does Privatization Lower Costs? Shanjun Li, Cornell University; **Matthew Kahn, University of California, Los Angeles**; Rhiannon Jerch, Cornell University

Estimating Indirect Emissions of Natural Gas Transportation Fuels: Are They Really Cleaner than Gasoline and Diesel? **Steven Sexton, Duke University** 

#### 10:30am-12:00pm Energy I

Chair: Jacob LaRiviere, University of Tennessee

Welfare and Distributional Implications of Unconventional Natural Gas **Catherine Hausman, University of Michigan**; Ryan Kellogg, University of Michigan

Federal Environmental Protection and the Distorted Search for Oil and Gas

Eric Lewis, University of Michigan

Fracking, Farms and Property rights: the Impact of Unconventional Oil and Gas Development on Agriculture

Timothy Fitzgerald, Montana State University; **Yusuke Kuwayama**, **Resources for the Future**; Sheila Olmstead, University of Texas. Austin

Quantifying Environmental Benefits of Fracking: the Decline of Coal & Air Quality

**Jacob LaRiviere, University of Tennessee**; Nathan Tefft, Bates College; Hendrik Wolff, University of Washington

10:30am–12:00pm FOREST RESOURCES II

Chair: Brent Sohngen, Ohio State University

Grant D

The Conservation versus Production Trade-off: Does Livestock Intensification Increase Deforestation? Evidence from the Brazilian Amazon

#### **Petterson Vale, London School of Economics**

The Impact of Brazil's Action Plan for the Prevention and Control of Deforestation in the Legal Amazon (PPCDAM) on Reducing Deforestation: Lessons for REDD from a Synthetic Control Evaluation Design Paul Ferraro, Georgia State University; **Rhita Simorangkir, Georgia State University**; Jonah Busch, Center for Global Development; Jens Engelmann, Center for Global Development

Forest Law Enforcement through District Blacklisting in the Brazilian Amazon

**Sophie Lian Zhou, University of Bonn;** Elias Cisneros, University of Bonn; Jan Boerner, University of Bonn

Will US Forests Continue to be a Carbon Sink? Brent Sohngen, Ohio State University; Justin Baker, RTI International

#### POSTER SESSION

12:00 - 1:30 pm

Presidential Ballroom Foyer

Crop Choice, Rotational Effects and Water Quality Consequence in the Upper-Mississippi River Basin: Connecting Environmental Assessment Tools with a Dynamic Land Use Model Yongjie Ji, Iowa State University; **Cathy Kling, Iowa State University**; Sergey Rabotyagov, University of Washington

The Impact of Relative Energy Prices on Firms' Performance Antoine Dechezleprêtre, Grantham Research Institute, London School of Economics; Ralf Martin, Imperial College London; Misato Sato, Grantham Research Institute, London School of Economics

Bayesian Learning in Dynamic Stochastic Integration of Climate and Economy

Yongyang Cai; University of Chicago

Credit Constraints and Investments in Energy Efficiency: German Manufacturing in Close-up Benjamin Lutz, Centre for European Economic Research; **Philipp Massier, Centre for European Economic Research** 

Alerts Work! Air Quality Warnings and Cycling **Soodeh Saberian, University of Ottawa**; Anthony Heyes, University of Ottawa; Nicholas Rivers, University of Ottawa

Negative Leakage in Subnational Climate Policy Harrison Fell, Colorado School of Mines; **Peter Maniloff, Colorado School of Mines** 

Agricultural Practice Adjustments to Policies Aiming to Mitigate Water Pollution

**Shanxia Sun, Purdue University**; Michael Delgado, Purdue University; Juan Sesmero, Purdue University

The Effects of Seawall in the Wake of Hurricane Ike: a Spatial Differencein-Difference Approach

**Meri Davlasheridze, Texas A&M University**; Qin Fan, California State University, Fresno

Estimating the Impact of Water Quality Change Using Coupled Hydrological-Economic Model in the Upper Big Walnut Creek Watershed in Ohio

**Hongxing Liu, The Ohio State University**; Sathya Gopalakrishnan, The Ohio State University; Drew Browning, The Ohio State University

Evaluating the Effect of Stream Restorations: an Application in Switzerland

Michele Baggio, University of Connecticut; Charles Towe, University of Connecticut

Exploring Systematic Differences in the Value to Birders of Species Biodiversity: a Random Utility of Site Choice by eBird Participants **Sonja Kolstoe, University of Oregon**; Trudy Ann Cameron, University of Oregon

Measuring the Value of Mercury and Acid Pollution in New York State through Property Values

**Chuan Tang, Clarkson University**; Martin Heintzelman, Clarkson University

A Study of Engel Curves and the Effects of Different Demographic Cohorts **Jeffrey Englin, Arizona State University** 

Optimal Stormwater Runoff Management Policy in a Dynamic Setting **Olesya Savchenko, University of Illinois**; Amy Ando, University of Illinois

Flaring of Associated Natural Gas in the Bakken Shale **Timothy Fitzgerald, Montana State University**; Case Stiglbauer, Montana State University

Agricultural Productivity and Soil Carbon Dynamics: a Bioeconomic Model

Julia Berazneva, Cornell University; Jon Conrad, Cornell University; David Guerena, Cornell University; Johannes Lehmann, Cornell University

Environmental Justice Viewed from Outer Space: Does Growing Income Inequality Affect the Distribution of Pollution Exposure? John Voorheis, University of Oregon

## PARALLEL SESSION 6

1:30 - 3:00 pm	POLLUTION CONTROL: OTHER INSTRUMENTS III Congressional Room Chair: James Bushnell, University of California, Davis		
	The Private Benefits of Residential Solar PV, and Who Gets Them <b>Severin Borenstein, University of California, Berkeley</b>		
	Using Smart Meter Data to Evaluate the Returns to Energy Efficiency Investments <b>Kevin Novan, University of California, Davis</b> ; Aaron Smith, University of California, Davis		
	Investment versus Output Subsidies: the Implications of Alternative Subsidies for Wind Investment Joseph Aldy, Harvard University; <b>Todd Gerarden, Harvard University</b> ; Rich Sweeney, Harvard University		
	Strategic Policy Choice in State-Level Regulation: the EPA's Clean Power Plan <b>James Bushnell, University of California, Davis</b> ; Stephen Holland, University of North Carolina, Greensboro; Jonathan Hughes, University of Colorado; Christopher Knittel, Massachusetts Institute of Technology		
1:30 - 3:00 pm	<ul> <li>SPONSORED SESSION 4: FIELD EXPERIMENTS II Executive Room Chair: J.R. DeShazo, University of California, Los Angeles</li> <li>Social Learning and Solar Photovoltaic Adoption: Evidence from a Field Experiment</li> <li>Kenneth Gillingham, Yale University; Bryan Bollinger, Duke University; Hilary Staver, Energy + Environmental Economics (E3) Discussant: J.R. DeShazo, University of California, Los Angeles</li> <li>A Field Experiment on Dynamic Electricity Pricing in Los Alamos: Opt-in versus Opt-out</li> <li>Wenjie Wang, Kyoto University</li> <li>Minersity of Colorado, Boulder</li> </ul>		
	Economics of a Light Bulb: Experimental Evidence on CFLs and End-User Behavior <b>Robyn Meeks, University of Michigan</b> Discussant: Michael Roberts, University of Hawaii		

1:30 - 3:00 pm	FISHERIES II Chair: Dale Squires, National Marine Fisheries Servi	Senate Room ce
	Do Catch Shares Increase Ex-vessel Prices in U.S. Fis <b>Anna Birkenbach, Duke University</b> ; David Kaczan Martin Smith, Duke University	
	Diversification or Specialization: the Impact of U.S. V Rationalization on Multiregional Fishery Participati <b>Lily Hsueh, Arizona State University</b> ; Stephen Kas Oceanic Atmospheric Administration	on and Effort
	A Global Game of Capital Divestment in a Quota-Mar <b>Rajesh Singh, Iowa State University</b> ; Quinn Wenir University	0
	The Microeconomic Foundations of Renewable Reso Rethinking the Commons Problem <b>Dale Squires, National Marine Fisheries Service</b> ; University of Southern Denmark	
1:30 - 3:00 pm	Сымате Сналде IV Chair: David Anthoff, University of California, Berke	Sycuan Parlor ley
	Resolving Intertemporal Conflicts: Economics vs. Po Antony Millner, London School of Economics; Ge University	
	The Climate Risk Premium <b>Derek Lemoine, University of Arizona</b>	
	Individual Time Preferences and Energy Efficiency <b>Richard Newell, Duke University</b> ; Juha Siikamaki, Future	Resources for the
	Inequality and the Social Cost of Carbon <b>David Anthoff, University of California, Berkeley</b> Emmerling, Fondazione Eni Enrico Mattei	r; Johannes

1:30 - 3:00 pm	GROWTH AND THE ENVIRONMENT II Chair: Mike Toman, World Bank	Horton Room
	Learning, Fat-Tailed Uncertainty and Irreversible Investment <b>David Kelly, University of Miami</b> ; Zhuo Tan, Hou University	•
	Assessing Future Sustainability by Forecasting Pa Genuine Savings and Inclusive Wealth <b>Koji Tokimatsu, Tokyo Institute of Technology</b> Research Center Co., LTD.; Masahiro Nishio, Natio Advanced Science and Technology	r; Rieko Yasuoka, System
	Economic Transformation Under Climate Uncerta Return for New Technologies <b>Mike Toman, World Bank</b>	inty and Uncertain
1:30 - 3:00 pm	STATED PREFERENCE II Chair: Lynne Lewis, Bates College	Grant A
	The Influence of Baseline Conditions on Stated With <b>Chris Moore, U.S. Environmental Protection Ag</b> U.S. Environmental Protection Agency; Kelly Maga Protection Agency; Nathalie Simon, U.S. Environm	<b>gency</b> ; Chris Dockins, uire, U.S. Environmental
	Seemingly Irrelevant Attributes within Choice Exp for Scenario Design and Welfare Analysis <b>Robert Johnston, Clark University</b> ; Christos Ma University; Adam Whelchel, The Nature Conserva	kriyannis, Clark
	A Generalized Latent Class Logit Model of Discont Discrete Choice Data <b>Zachary Brown, North Carolina State Universit</b> National Center for Atmospheric Research	
	Spatial Decay in Willingness to Pay for Ecosystem Perception of Distance Matter? <b>Lynne Lewis, Bates College</b>	Services: Does

1:30 - 3:00 pm	Pollution Control: Tradable Permits I Chair: Maureen Cropper, University of Maryland	Grant B
	Assessing the Additionality of the Clean Developmen Experimental Evidence from India <b>Antoine Dechezlepretre, London School of Econo</b> Colmer, London School of Economics; Caterina Genn Research Institute; Matthieu Glachant, Mines Paris T	o <b>mics</b> ; Jonathan naioli, Grantham
	The Impact of Heterogeneous NOx Regulations on D in U.S. Manufacturing Jonathan Lee, East Carolina University	istributed Generation
	The Impact of Carbon Trading on Industry: Evidence Manufacturing Firms <b>Sebastian Petrick, Kiel Institute for the World Ec</b> Wagner, Unversidad Carlos III de Madrid	
	The Net Benefits of the Acid Rain Program: What Ca Grand Policy Experiment? Ron Chan, University of Manchester; Benjamin Chup Technology; <b>Maureen Cropper, University of Mar</b> Muller, Middlebury College	op, Georgia Institute of
1:30 - 3:00 pm	TRADE AND THE ENVIRONMENT II Chair: Reed Walker, University of California, Berkele	Grant C ey
	Does Trade Make Firms Cleaner? Theory and Evider Manufacturing <b>Geoffrey Barrows, University of California, Berke</b>	
	International Outsourcing and Innovation in Clean T Antoine Dechezlepretre, London School of Economic <b>Mines Paris Tech</b> ; David Hemous, INSEAD; Mirabel College London	cs; Damien Dussaux,
	Optimal Environmental Border Adjustments under t Agreement on Tariffs and Trade Edward Balistreri, Colorado School of Mines; Daniel Colorado, Boulder; <b>Hidemichi Yonezawa, Universi</b>	Kaffine, University of
	Why is Pollution from U.S. Manufacturing Declining? Regulation, Productivity, and Preferences <b>Reed Walker, University of California, Berkeley</b>	? The Roles of Trade,

1:30 - 3:00 pm	Ecosysтемs III Chair: Christian Langpap, Oregon State University	Grant D	
	Beyond Biomass: Valuing Genetic Diversity in Natur Management <b>Michael Springborn, University of California, Da</b> University of California, Davis; Marissa Baskett, Uni Davis	<b>vis</b> ; Amanda Faig,	
	Implementing the Optimal Provision of Ecosystem Services under Climate Change <b>David Lewis, Oregon State University</b>		
	Using Behavioral Ecology for Management of Ecosy David Finnoff, University of Wyoming	stem Services	
	Preemptive Conservation of Endangered Species <b>Christian Langpap, Oregon State University</b> ; JunJ University	ie Wu, Oregon State	
3:00 – 3:15 pm	<b>COFFEE BREAK</b> Grant Foyer and Presidential E	Ballroom Foyer	
	PARALLEL SESSION 7		
3:15 - 4:45 pm	INTERNATIONAL ENVIRONMENTAL AGREEMENTS Chair: Gernot Wagner, Environmental Defense Fund	Congressional Room d	
	Bargaining in Multilateral Negotiations Alessandro Tavoni, London School of Economics	5	
	Climate Change Adaptation and International Envir with Heterogeneous Agents <b>Horatiu Rus, University of Waterloo</b>	onmental Agreements	
	Adaptation to Climate Change: How Does Heterogen Costs Affect Climate Coalitions? Itziar Lazkano, University of Wisconsin, Milwaukee Lebanese American University; Bruno Nkuiya, Ur Santa Barbara	; Walid Marrouch,	
	India in the Coming Climate G2? Jonathan Camuzeaux, Environmental Defense Fund University of Gothenburg; <b>Gernot Wagner, Enviro</b> <b>Fund</b>		

3:15 - 4:45 pm	New Applications of Spatial Analysis to Climate Change Issues Chair: Adele Morris, Brookings Institution	Executive Room
	Do Gasoline Prices Affect Residential Property Value <b>Adele Morris, Brookings Institution</b> ; Helen Neill, U Las Vegas	
	How Do Housing Markets Evaluate Hurricane 'Near <b>Margaret Walls, Resources For The Future</b>	Misses'?
	Adaptation to Climate Change through Migration Margarita Portnykh, University of California, San	ita Barbara
	Household Demand for Low Carbon Policies: Eviden Matthew Kahn, University of California, Los Ange	
3:15 - 4:45 pm	WATER POLLUTION Chair: Dietrich Earnhart, University of Kansas	Senate Room
	Consequences of the Clean Water Act <b>David Keiser, Iowa State University</b> ; Joseph Shapi	ro, Yale University
	Impacts of Information Resolution and Frequency of Polluter Behavior under an Ambient Tax/Subsidy In <b>Haoran Miao, University of Rhode Island</b>	-
	Stormwater Management and Suburban House Price <b>Nicholas B. Irwin, Ohio State University</b> ; H. Allen I University; Elena G. Irwin, Ohio State University	
	Coercion or Cooperation? An Analysis of Environme Strategy Zach Raff, University of Kansas; Dietrich Earnhan Kansas	

3:15 - 4:45 pm	Spatial Analysis II Chair: David Newburn, University of Maryland	Horton Room
	The Effect of Downzoning for Managing Exurban De David Newburn, University of Maryland; Jeffrey E Maryland	-
	Valuing the Open Spaces: Development Alternatives <b>Ajita Atreya, University of Pennsylvania</b> ; Warren Georgia	6
	The Determinants of Non-residential Real Estate Va Reference to Local Environmental Goods <b>Sofia Franco, Universidade NOVA de Lisboa; Bov</b> <b>Pomona College</b>	-
	Testing the Effect of New Neighboring Open Space of <b>Charles Towe, University of Connecticut</b>	on Development
3:15 - 4:45 pm	Pollution Control: Tradable Permits II Chair: Ulrich Wagner, Universidad Carlos III de Mac	Grant A Irid
	Carbon Dating: When is it Beneficial to Link ETSs? <b>Baran Doda, London School of Economics</b> ; Luca School of Economics and Political Science	Γaschini, London
	Searching for Carbon Leaks in Multinational Compa Antoine Dechezlepretre, London School of Economi Grantham Research Institute; Ralf Martin, Imperial <b>Muuls, Imperial College London</b>	cs; Caterina Gennaioli,
	Stuck in Low Gear: Experimental Evidence on Prope Allowance Prices in the European Union Emission T <b>William Shobe, University of Virginia</b>	6
	The Co-benefits of Climate Policy: an Empirical Ana Emissions Trading Scheme <b>Ulrich Wagner, Universidad Carlos III de Madric</b>	

	Agri-Environmental Policy II Chair: Jeremy Weber, University of Pittsburgh	Grant B
	Does Federal Crop Insurance Increase Environment Agriculture?	
	<b>Jeremy Weber, University of Pittsburgh</b> ; Nigel Ke Agriculture; Erik O'Donoghue, U.S. Department of Ag	
	Participation and Distributional Impacts of Federal ( Program <b>Jialing Yu, Oregon State University</b>	Crop Insurance
	Jianing Fu, Oregon State University	
	Nitrogen Management under Uncertainty: an Invest Decision Processes Sandip Agarwal, Iowa State University	igation of Subjective
	Achieving Sustainability in Irrigated Systems: Model Quantity-Quality Tradeoffs in Agricultural Productic <b>Duncan MacEwan, ERA Economics</b>	6
3:15 - 4:45 pm	ENERGY II Chair: Laura Grant, University of Wisconsin, Milwau	Grant C kee
3:15 - 4:45 pm	-	kee
3:15 - 4:45 pm	Chair: Laura Grant, University of Wisconsin, Milwau Capitalization of Residential Energy Efficiency <b>Erdal Aydin, Tilburg University</b> ; Dirk Brounen, Til	kee Iburg University; Nils redicting Energy
3:15 - 4:45 pm	<ul> <li>Chair: Laura Grant, University of Wisconsin, Milwau</li> <li>Capitalization of Residential Energy Efficiency</li> <li>Erdal Aydin, Tilburg University; Dirk Brounen, Til</li> <li>Kok, Maastricht University</li> <li>Measuring the Accuracy of Engineering Models in Pr</li> <li>Savings from Home Retrofits: Evidence from Monthl</li> </ul>	kee Iburg University; Nils redicting Energy ly Billing Data

3:15 - 4:45 pmFOREST RESOURCES IIIGrant DChair: Patrick Walsh, U.S. Environmental Protection Agency

Who Drives Current Amazon Deforestation? Evidence from the Rural Environmental Registry in Mato Grosso and Pará Juliano Assuncao, Climate Policy Initiative / PUC-Rio; **Clarissa Gandour, Climate Policy Initiative / PUC-Rio**; Pedro Pessoa, PUC-Rio; Romero Rocha, UFRJ

Getting Greener by Going Black: the Priority Municipalities in Brazil **Romero Rocha, UFRJ**; Juliano Assunção, PUC-Rio / CPI-Ri

Local Politics and Deforestation in the Brazilian Amazon **Sharon Pailler, Clark University** 

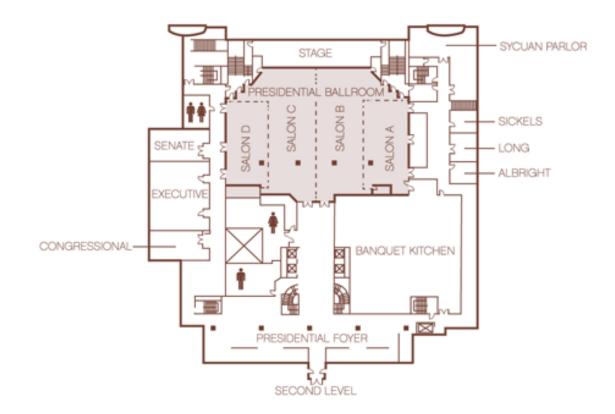
The Impact of Social Interaction on Land Use Choice in the Amazon **Patrick Walsh, U.S. Environmental Protection Agency** 

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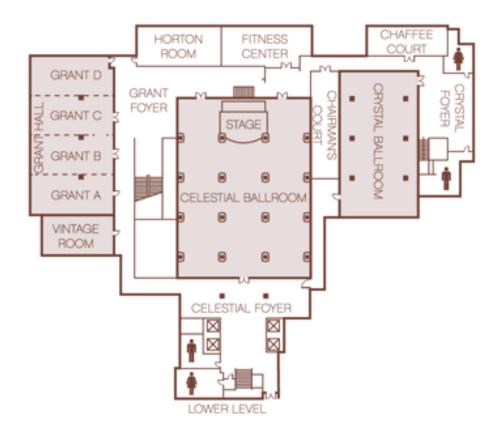
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SarahStaffordCollege of William & MaryDanielSteinbergNational Renewable Energy LaboratoryChristopherSteinerUniversity of California, San DiegoAndrewStevensUniversity of California, BerkeleyKellyStevensSyracuse UniversityJohnStranlundUniversity of Massachusetts - AmherstShanxiaSunPurdue UniversityKoheiSuzukiKyoto UniversityDimitriSzermanClimate Policy InitativeChuanTangClarkson UniversityMassimoTavoniFondazione Eni Enrico Mattei (FEEM)AlessandroTavoniLondon School of EconomicsLauraTaylorUniversity of CaligaryMaraThieneUniversity of PaduaVincentThiviergeSustainable ProsperityGerhardToewsUniversity of California, BerkeleyUyingTokimatsuTokyo Institute of TechnologyMichaelTomaWorld BankCharlesToweUniversity of California, BerkeleyDynaTyUniversity of ConnecticutChristianTraegerUniversity of GengiaYoshiakiUshifusaUniversity of FongolValeLondon School of EconomicsArthurvan BenthemUniversity of GengiaYoshiakiUshifusaUniversity of GragonHichaelToweUniversity of GengiaYoshiakiUshifusaUniversity of GragonUlrichWagnerUniversity of Gragon <td>Dale</td> <td>Squires</td> <td>NOAA Fisheries</td>	Dale	Squires	NOAA Fisheries
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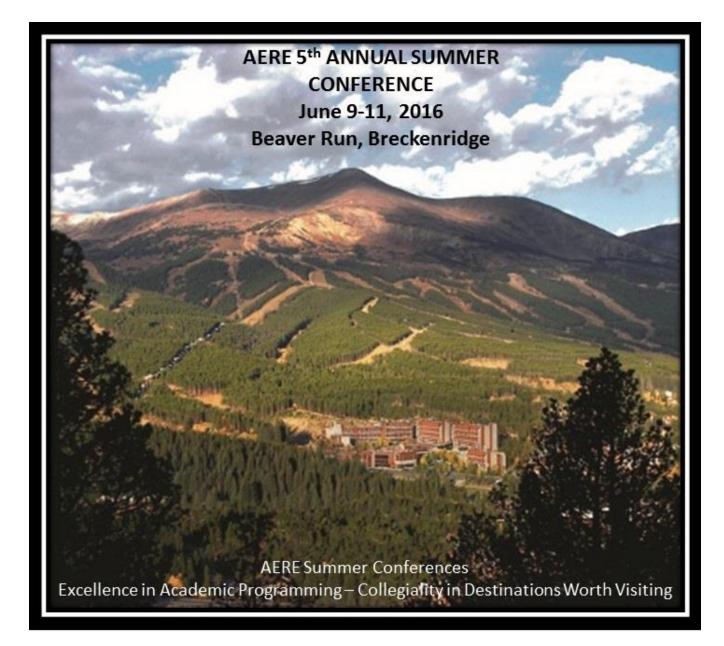
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