AERE NEWSLETTER

Association of Environmental and Resource Economists (AERE) *Vol. 36, No. 2* *November 2016*

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FROM THE PRESIDENT…

So many things have happened over the past six months—it's hard to fit them all into this column. AERE is a dynamic organization–with an active and committed Board and Executive Director. I'll touch on some highlights from the past few months, outline some of the exciting future events, and let you know about changes at AERE.

AERE Summer Conference in Colorado

In June, AERE's 5th annual summer conference was held at the Beaver Run Resort in beautiful, historic Breckenridge, Colorado. Thanks again to our sponsors: the National Oceanic and Atmospheric Administration (NOAA), Brattle, Payne Institute for Earth Resources, GE ECOmagination, National Renewable Energy Laboratory, and the University of Colorado at Boulder. All the conference details were included in the May issue of this newsletter—except for the winners of AERE awards.

The awards luncheon is, of course, always a highlight of the conference. This year, Edward B. Barbier, University of Wyoming, and Carlo Carraro, Fondazione Eni Enrico Mattei (FEEM), were made Fellows of the Association–the highest honor of AERE to two well deserving individuals. It was unfortunate that neither of them could attend but we were able to share in absentia their comments and recollections of their long, distinguished careers. The Ralph C. d'Arge and Allen V. Kneese Award for the Outstanding Publication in *JAERE* was given to Tomás Rau, Sergio Urzúa, and Loreto Reyes for "Early Exposure to Hazardous Waste and Academic Achievement: Evidence from a Case of Environmental Negligence," Vol. 2, Issue 4, 2015. We were so appreciative that Tomás was able to travel from Chile to accept the award on behalf of his co-authors.

The Publication of Enduring Quality (PEQ) Award was presented to Scott Barrett for "Self-Enforcing International Environmental Agreements," *Oxford Economic Papers*, Vol. 46, October 1994, pp. 878-894. Scott accepted the award and provided some great advice to new (and not so new) scholars in the field. See the AERE web for details on all these awards.

Selecting these winners takes a significant amount of time and consideration--I'd like to express my appreciation to those responsible. Thanks to the AERE Board for the selection of the AERE Fellows; to Hilary Sigman (Rutgers University), Brian Copeland (University of British Columbia) and Frances Homans (University of

Minnesota) for selecting the PEQ Award; and to *JAERE* editor Dan Phaneuf (University of Wisconsin, Madison), Chris Timmins (Duke University), and Allen Klaiber (The Ohio State University) for selecting the *JAERE* outstanding journal article for 2015. I'd also like to thank those individuals who nominated AERE Fellows. Nomination packages take a great deal of effort to construct and we are very appreciative of the time that AERE members take in completing them. Please note that nominations for this year's Fellow award need to be made by **December 1, 2016.**

AERE Board Meetings

Since its January meeting, AERE's Board has met three more times—in April via teleconference, at the summer conference, and again in October via teleconference. A number of issues have been addressed including appointment of an AERE Summer Conference Planning Committee (Elena Irwin, Severin Borenstein, and Andrew Plantinga). One of the significant actions by this group was to evaluate several conference software platforms and select one for use in 2017. Software—including the platform for paper submission and reviewing—is a key component of the summer conference. This year, AERE members will see a new, improved interface.

The Board also established a Development Committee including me, Dan Phaneuf, Dallas Burtraw, Laura Taylor, Meredith Fowlie, and Severin Borenstein. This committee will start developing longer term plans for AERE funding, support for awards, and other initiatives.

Regarding the AERE budget, we have been dipping into our savings recently with costs going up and because of our efforts over the years to provide improved opportunities and services to members—such as expanding the annual workshop from an average of 60 attendees to an annual workshop / conference for over 300; establishing a new journal and improving journal support; updating the website and enhancing management capabilities and oversight. AERE dues have not increased since 2006, and we noticed that our dues were considerably lower than those at other economics associations. Thus, the AERE Board approved a new fee structure that increases dues by an amount slightly higher than the rate of inflation over this period yet still below the current rates at other organizations like ours. I hope you will continue to find real value in your membership.

Upcoming AERE Events

The next major highlight on the AERE calendar is the **Allied Social Science Associations Meeting** in Chicago, Illinois, January 6-8, 2017. There will be a full slate of AERE sessions at the conference thanks to the outstanding volunteer work of the Program Committee: Chair, Katrina Jessoe (University of California, Davis), Nicolai Kuminoff (Arizona State University), and Soren T. Anderson (Michigan State University). The AERE Luncheon and (brief) Business Meeting will be held on Saturday, January 7th. A special feature of our winter meeting luncheons has been the AERE Fellow's Talk. This year I am very pleased to announce that Steve Polasky (University of Minnesota) will be our guest speaker. In addition, the Wallace E. Oates Outstanding Doctoral Dissertation Award will be presented. We are very grateful to the individuals who are financially supporting this award and to the AERE members who served on the Selection Committee: Nick Flores, Chair (University of Colorado), Amy Ando (University of Illinois Urbana-Champaign), Dietrich Earnhart (University of Kansas), Sumeet Gulati (University of British Columbia), and Andrew Plantinga (UC Santa Barbara). Please register for the luncheon at www.aere.org by **Wednesday, December 21, midnight PST**. I hope to see many of you there!

A number of other paper sessions have been organized on behalf of AERE. Twenty sessions at the **Southern Economic Association (SEA) annual conference on** November 19–21 in Washington, DC were organized by John Whitehead (Appalachian State University) and Elaine Frey (California State Long Beach) organized a separate set of three AERE student sessions. Thanks always to John for his ongoing service, to Elaine for her innovative way to involve students, and to Lea-Rachel Kosnik (University of Missouri, St. Louis) who is organizing AERE sessions at the **Midwest Economics Association (MEA) annual** meeting. In addition, there is a call for papers for AERE sessions being organized by Trudy Ann Cameron at the WEAI on p. 16.

As announced in May, the **6th World Congress of Environmental and Resource Economists** (WCERE) sponsored by AERE, EAAERE, and EAERE will take place at the University of Gothenburg in Sweden on June 25–29, 2018. Gernot Wagner (Harvard University) has agreed to serve as AERE's representative on the WCERE Program Committee—please see the announcement with the names of the other members on p. 9.

AERE Summer Conference 2017

We are looking forward to the sixth AERE Summer Conference on May 31–June 2, 2017, at the beautiful and historic Omni William Penn Hotel in Pittsburgh, Pennsylvania! Co-chairs Karen Clay of Carnegie Mellon University (CMU) and Randy Walsh of the University of Pittsburgh (Pitt) along with Ed Severnini (CMU) and Jeremy Weber (Pitt) have been busy—see details on p. 12. Easy to get to with downtown accessibility to its three rivers offering kayaking and wooded trails for biking and hiking plus a vibrant center city nightlife—Pittsburgh is a first-class destination for our conference. The Call for Papers opens on December 1 and closes on **January 18, 2017**—please mark your calendar to submit by the deadline. Click here for details on the AERE web page.

AERE Election

All 2016 AERE members are eligible to vote in this year's election for two new Board members. The electronic ballot will be emailed to members in mid-November. I'd like to thank former (see below) AERE Vice President (VP) Sheila Olmstead (University of Texas at Austin), Carolyn Fischer (Resources for the Future), and Paul Ferraro (The Johns Hopkins University) for putting together an outstanding group of candidates. Please remember to vote **by December 1st.**

Other News

We have had a few changes at AERE. Sheila Olmstead had to resign her position as Vice President because of her appointment to the Council of Economic Advisers. Congratulations to Sheila on this position! We were very fortunate that Andrew Plantinga (University of California, Santa Barbara) was prepared to step in and take over as VP. Welcome, Andrew! Also, we have fully moved over to our new management firm—Kautter Wenhold Management Group (KWMG). Among the various services that KWMG provides is the refresh of our website. By the time this newsletter arrives, AERE should have a sparkling new web presence with improved functionality and features. We are also pleased that Marilyn Voigt has taken on the role of event planner—including support for the AERE Summer Conference in Pittsburgh—in addition to her duties as Executive Director. Marilyn's support for AERE has been, and continues to be, outstanding.

It hasn't all been happy news at AERE unfortunately. This July, Molly K. Macauley, a long time AERE member, outstanding economist at RFF, and wonderful person, died tragically. It was a shock to many of us. There is an *In Memoriam* in this issue that provides additional information and reflections.

This is my last newsletter as AERE President. It's been a fantastic experience working with such talented and energetic people—the AERE Board, AERE members, and all the AERE family. It really does feel like a family—even though we have surpassed 1,000 members! I look forward to my term as Past President, providing organizational support for the Pittsburgh Conference, the WCERE in Gothenburg, and playing other roles. I know that Laura Taylor, incoming President, will do a fantastic job. Laura has already had a number of fresh ideas and is leading a number of new initiatives. I look forward to seeing AERE thrive and grow in the future.

Vic Adamowicz
AERE President
University of Alberta
Vic.Adamowicz @ualberta.ca

AERE NEWS

AERE BOARD OF DIRECTORS MEETING

The AERE Board Meeting will be held on Friday, January 6, 2017**, from 5:30 – 8:30 p.m.** at the Swissotel Chicago, Vevey 3. Anyone with matters to be brought before the Board should contact the president:

Vic Adamowicz
University of Alberta
vic.adamowicz@ualberta.ca
Phone: 780-492-4603

AERE BUSINESS MEETING AND LUNCHEON

The AERE Luncheon and Business Meeting with AERE Fellow's Talk by **Steve Polasky,** University of Minnesota, will be held on **Saturday, January 7, 2017, from 12:15 – 2:15 p.m.,** at the Swissotel Chicago, Edelweiss Penthouse I & II. The Wallace E. Oates Outstanding Doctoral Dissertation Award will also be presented.

Due to high menu costs, AERE will subsidize the lunch to keep costs in line with previous years. We've been assigned the Penthouse floor with a beautiful view and plenty of room for meeting up with friends and colleagues before the sit-down luncheon starts. We hope many of you are able to attend and keep the holiday spirit going at this most collegial event! Click **here** to make your reservation **by Wednesday, December 21**, midnight PST.

AERE ELECTION

All 2016 AERE members are eligible to vote in this year's election for two new Board members. The electronic ballot will be emailed to members in mid-November. Former AERE Vice President (VP) Sheila Olmstead (University of Texas at Austin), Carolyn Fischer (Resources for the Future), and Paul Ferraro (The Johns Hopkins University) have put together an outstanding group of candidates. Please remember to vote **by December 1st, 11:59 p.m. PST.** Questions regarding the on-line election process should be directed to: info@aere.org.

AERE FELLOWS 2016 CALL FOR NOMINATIONS

This program recognizes outstanding contributions to the field by members of the association. The 2016 AERE Fellows will be announced at the AERE Summer Conference in June 2017.

Criteria: Awardees will have demonstrated a significant contribution to the advancement of the profession of environmental and resource economics. A candidate must be living at the time of nomination; membership in AERE is not required.

Nomination Process: Any member of AERE may nominate a candidate for Fellow. A nomination packet should include a vita of the nominee, a two-page nomination letter outlining what contributions the individual has made that warrant the award, and at least one additional letter of support from a second individual.

In addition, members of the AERE Board of Directors may consider candidates that have not been otherwise nominated that they feel are especially worthy.

Selection Process: Nomination packages are to be submitted **by December 1, 2016,** to the AERE President-Elect Laura O. Taylor. Subject Line: AERE Fellow

Laura O. Taylor
Director, Center for Environmental and Resource Economic Policy
Professor, Department of Agricultural and Resource Economics
lotaylor@ncsu.edu
919-513-3761 (direct)

AERE Board members will select newly appointed Fellows from the set of nominations. They will be notified in advance to provide ample time to make travel arrangements to attend the Awards Program. In future years, a separate Fellows Committee may be impaneled to aid in the initial screening of candidates.

Maximum Number of Awards: Three for 2016

Inaugural AERE Fellows 2005
Maureen L. Cropper
W. Michael Hanemann
Karl-Göran Mäler
Wallace E. Oates
V. Kerry Smith
Tom Tietenberg

AERE Fellows 2006
Richard C. Bishop
Nancy E. Bockstael
Ronald G. Cummings
Anthony (Tony) C. Fisher
Geoffrey M. Heal
Clifford S. (Cliff) Russell

AERE Fellows 2007
Daniel W. Bromley
Gardner M. Brown, Jr.
Charles W. (Chuck) Howe
Kenneth E. (Ted) McConnell
Kathleen Segerson
David Zilberman

AERE Fellows 2008
Thomas Crocker
A. Myrick Freeman III
Alan Randall

AERE Fellows 2009
Richard T. Carson
Charles D. Kolstad
Robert N. Stavins

AERE Fellows 2010
Alan J. Krupnick
Stephen Polasky
Martin L. Weitzman

AERE Fellows 2011
Trudy Ann Cameron
William D. Nordhaus
James Wilen

AERE Fellows 2012
Lawrence H. Goulder
John B. Loomis
Robert Pindyck

AERE Fellows 2013
Joseph A. Herriges
Jason Shogren

AERE Fellows 2014
Don Fullerton
Catherine L. Kling

AERE Fellows 2015
Edward B. Barbier
Carlo Carraro

In Memoriam

Molly Kenna Macauley

Dr. Molly K. Macauley, Vice President for Research and Senior Fellow at Resources for the Future (RFF), died tragically on July 9, 2016. She was a pioneer in the application of economics to outer space and the economic value of information from earth observation data and remote sensing satellites. She was a visionary in this field, who began publishing articles on this topic starting in 1986 with her *American Economic Review* publication. While she continued her research along these lines until her death, she also contributed significant economic research on such topics as efficient management of solid waste and toxic substances as well as the role of forests in carbon sequestration. Over her career, Dr. Macauley was the author of more than 80 articles and reports as well as three books.

Dr. Macauley also had extensive public service, including frequent Congressional testimony and briefings, and service on dozens of advisory boards. She earned a BA from the College of William and Mary in 1979 and an MA (1981) and Ph.D. (1983) in economics from Johns Hopkins University. (Here is a link to the RFF web page with tributes and memorials in her memory.)

Lessons to Inspire

Former AERE Secretary, Sarah L. Stafford (The College of William and Mary), was asked to share some personal thoughts about friend and colleague, Molly Macauley. They are printed below.

Molly touched my life in so many ways–as my professor, my mentor, and my friend. She was such a generous and kind person to everyone–I don't think I've ever met someone who knew her who didn't have a personal story demonstrating those traits. But Molly definitely felt a special responsibility to mentor female economists–both those in her primary field of space economics as well as women in environmental and natural resource economics. When I became the Director of the William and Mary Public Policy Program–a program that Molly served as a member of the Board of Advisors since its inception–she was there with suggested readings, advice, and her perpetual question, "What do you need from me?" She was an amazing role model, and to honor her memory, the most fitting tribute that any of us can make is to live by her example and do the same with our students and young colleagues.

THE WALLACE E. OATES OUTSTANDING DOCTORAL DISSERTATION AWARD

1937 – 2015

In 2015, the AERE Board of Directors moved to recognize the many distinguished contributions of Wally Oates by naming the recently created AERE Outstanding Doctoral Dissertation Award in his honor and initiating a fundraising drive to endow the award in perpetuity.

Wally was a seminal figure in the modern field of environmental economics. His book *The Theory of Environmental Policy*, coauthored with William Baumol, is a classic in the field and was honored by AERE as a Publication of Enduring Quality in 1993. Wally was also an inaugural AERE Fellow and served on the AERE Board from 1983 – 1986. Naming the dissertation award in Wally's honor is a fitting and enduring way to honor his memory.

As of October, the fundraising effort has received contributions and pledges of $36,930 towards its $50,000 goal. The members of the Board wish to thank the over 100 individuals and institutions that have contributed to the fund so far.

As you consider your year-end charitable contributions, please consider making a gift to the Oates Endowment Fund. AERE is a 501(c)(3) organization and all donations are tax deductible. To donate to the Fund, please go to the AERE home page and click on the donation button labeled “Support Programming”.. Information is also available on the website for those who would prefer to contribute by check rather than credit card.

CALL FOR NOMINATIONS

AERE invites nominations for the 2016 Wallace E. Oates Outstanding Doctoral Dissertation Award. Nominees must have earned their doctoral degree in 2016 and written a doctoral dissertation in environmental or resource economics. The award winner will receive a $1,500 cash award along with a $500 travel grant to attend a recognition ceremony at the 2018 AERE Luncheon at the Allied Social Science Associations (ASSA) annual meeting in January in Philadelphia, Pennsylvania. The winner’s dissertation abstract will be published in the *Journal of the Association of Environmental and Resource Economists* (*JAERE*).

Nominations must come from the chair of the nominee’s dissertation committee and must include (1) a nominating letter from the chair outlining the particular strengths and intellectual contributions of the dissertation, and (2) an electronic version of the final and completed doctoral dissertation. The nominating chair of the dissertation committee must be a current AERE member at the time of nomination.

Dissertations will be judged by a panel of AERE members who will emphasize originality of research, quality of implementation, expositional clarity, along with intellectual and practical significance of research findings.

Nominations should be sent by email to Professor Amy Ando (amyando@illinois.edu) no later than midnight PST, **April 30, 2017**.

Subject Line: AERE Dissertation Award

AERE PUBLICATION OF ENDURING QUALITY AWARD 2016 CALL FOR NOMINATIONS

The AERE Board of Directors will present the annual award (to co-authors if appropriate) for a publication of enduring quality that appeared at least five years prior to the year of the award. Nominated works are to be evaluated on their seminal nature and enduring value. Place and type of publication are unrestricted but posthumous awards will not be given. Nominees may include individuals who are not members of AERE.

Evaluation of nominated works and final selection for the 2016 award will be undertaken by a committee chaired by Brian Copeland (University of British Columbia). Nomination packages should consist of four copies each of a cover letter, a document supporting the nomination, and the publication itself. The supporting document (not to exceed three pages) should include quantitative as well as qualitative information (e.g., number of citations or copies printed). Nominations should be sent to arrive no later than **December 1, 2016**. This is an important award for AERE and for the recipients. Please give serious consideration to nominating a publication and to observing the submission requirements.

Brian Copeland
University of British Columbia
Brian.Copeland@ubc.ca
Subject Line: AERE PEQ Award

JAERE UPDATE

***The Journal of the Association of Environmental and Resource Economists*: Official Journal of AERE**

The *Journal of the Association of Environmental and Resource Economists* (*JAERE*) continues to do well. It is hard to believe, but we now have three years of content available – 2014, 2015, and 2016. You can browse the papers by visiting the University of Chicago Press (UCP) website (click here and navigate to see all 12 issues). Please help publicize this content by referring individual papers to colleagues who you think may be interested.

We are on pace to receive ~215 submissions in 2016, which is consistent with a slow but steady upward trend since the launch in 2014. Importantly, the quality of the median submission remains high and so we have increased the typical number of papers per issue from five in the earlier issues, to seven to eight now. The implied acceptance rate of ~14 percent is similar to what we had at the *Journal of Environmental Economics and Management* (*JEEM*) before launching our own publication.

JAERE's review times continue to be good by the standards of the profession. The average time until first decision after review has been steady at around 75-77 days since the launch. This is a credit to the reviewers and co-editors who are buying into the idea of a culture of faster evaluation times. Thank you to everyone for your efforts in this regard; I hope we can continue on this path.

In terms of decision types, our R&R rate over the past two years is a bit over 20 percent, with the remainder divided between desk rejects and rejects after reviewing. The desk reject rate is staying steady at around 30 percent. As I have previously noted, I think this is a good target, given our finite pool of reviewers and time to decision goals. It does mean, however, that many good papers are not reviewed. We are trying to provide careful explanations in our decision letters on papers that are not sent for review, and my sense continues to be that authors appreciate the faster turnaround, when success is thought unlikely by the handling editor.

We continue to work with UCP on the final aspects of journal setup. The largest remaining tasks are to secure an impact factor (IF) and indexing in the major databases. I believe we are on track for these things, with our first IF to be released with the regular 2017 schedule. I will continue to monitor progress as we move toward these milestones.

Finally, as was announced at the AERE summer conference, I will be stepping down as editor in chief at the end of this year. AERE is extremely fortunate to have a team of the caliber of Jen Alix-Garcia, Don Fullerton, Sheila Olmstead, and Chris Timmins stepping up to take over the *JAERE* editorship. I will be working closely with them over the next few months to assure a smooth transition and believe the journal will reach even higher levels of quality and prestige under their leadership. Thank you to them for being willing to serve in this capacity. Thank you as well to the many AERE members, authors, reviewers, co-editors, and UCP staff who have contributed to the journal's excellent start. It has been a pleasure and a privilege to work with you and I am looking forward to watching *JAERE*'s continued growth and success.

Dan Phaneuf
Editor, *JAERE*
dphaneuf@wisc.edu

REEP UPDATE

***The Review of Environmental Economics and Policy:* Impact Factor, Editorial Changes, and New Sponsors**

On behalf of the *REEP* editorial team, I would like to share some important news about *REEP*. First, I am pleased to report that *REEP*'s impact factor continues to be strong. REEP's 2015 impact factor is 3.500 (up from 3.097 in 2014), and the journal is currently ranked 6th out of 104 environmental studies journals and 15th out of 344 economics journals.

Second, I am pleased to announce that Ottmar Edenhofer, director of the Mercator Research Institute on Global Commons and Climate Change (*MCC*) and Professor at the Technische Universitat of Berlin, joined Charlie Kolstad, Richard Newell, and me on the *REEP* editorial team as a co-editor in January 2016. Ottmar replaced Denny Ellerman, who stepped down as a co-editor at the end of 2015. I thank Denny for his five years of outstanding service and invaluable contribution to *REEP*. His comments and wise suggestions, and his deep knowledge of the environmental and resource economics literature, have been one of the main factors behind *REEP*'s success.

Finally, I am also pleased to announce that *MCC* and the Environmental Defense Fund (EDF) have become *REEP* sponsors. On behalf of the editors, all readers of *REEP*, and all members of both AERE and the European Association of Environmental and Resource Economists (EAERE), I would like to express my sincere appreciation to MCC and EDF for their decision to provide financial support to *REEP*. Without their generous support, we would not be able to maintain the quality of *REEP* articles that our readership has come to expect.

Please note that the updated *REEP* website will launch on a new online platform at Oxford University Press on November 30th.

Carlo Carraro
Editor, *REEP*
carlo.carraro@feem.it

6TH WORLD CONGRESS OF ENVIRONMENTAL AND RESOURCE ECONOMISTS

wcere
World Congress of Environmental and Resource Economists

Gothenburg, Sweden
June 25 - 29, 2018

The Association of Environmental and Resource Economists (AERE), the East Asian Association of Environmental and Resource Economics (EAAERE), and the European Association of Environmental and Resource Economists (EAERE) announce that the 6th World Congress of Environmental and Resource Economists will be held in Gothenburg, Sweden, from June 25 - June 29, 2018. The Congress will be organized by the University of Gothenburg. Prof. Thomas Sterner chairs the Local Organizing Committee and welcomes you all to a very special conference!

The Program Committee Co-Chairs are:

AERE: Gernot Wagner, Harvard University
EAAERE: Shunsuke Managi, Kyushu University
EAERE: Ben Groom, London School of Economics
Local Organizing Committee Representative: Fredrik Carlsson, University of Gothenburg

AERE MEMBERSHIP OPTIONS

AERE membership rates have been announced for 2017. The AERE Board recently approved an increase in the dues which have been unchanged since 2006 and which were considerably lower than those at similar professional associations. Our efforts over the past ten years to provide improved opportunities and services to members—such as expanding the annual workshop for an average of 60 attendees to an annual workshop and conference for over 300; establishing a new journal and improving journal support; developing a new website; enhancing management capabilities and oversight for a growing organization – all have increased our expenses.

The new fee structure increases dues by an amount slightly higher than the rate of inflation over this period yet they are still below the current rates at other organizations like ours. Take advantage of the three-year payment plan -- now available for individual, Institutional, and University members. Discounted rates are available for students as well as individual residents of low, lower-middle, and upper-middle income countries in accordance with the definition provided by the World Bank. Go to www.aere.org for the membership page.

To become a **University Member**, a contribution of $400/annual or $999 (for three years) is required*. With this contribution, colleges and universities:

- may designate one person (or up to four students) to receive a 2017 individual membership in AERE. Benefits include an electronic subscription to the *Review of Environmental Economics and Policy* (*REEP*) and to AERE's new journal, the *Journal of the Association of Environmental and Resource Economists* (*JAERE*). Please see the complete listing of membership benefits on the AERE web page.
- are entitled to a sponsorship listing on the AERE Web page (www.AERE.org) and in the *AERE Newsletter* and *JAERE*;
- will receive one free advertisement on the AERE Web page and in the *AERE Newsletter* for the calendar year (a savings of $250).

To become an **Institutional Member** of AERE, a contribution of $1,000 or $2,850 (for three years) is required*. With this contribution, institutions receive the above benefits plus:

- one complimentary registration to the 2017 AERE Summer Conference;
- two nontransferable tickets for institution staff to the annual AERE Business Meeting and Luncheon at the ASSA meeting in Philadelphia, Pennsylvania in January 2018;
- recognition at the annual AERE Business Meeting and Luncheon at the ASSA meeting.

*Note: A discounted rate of $100 for University and Institutional membership with some benefits (see the AERE web page under "Membership") is available for organizations located in low, lower-middle, and upper-middle income countries in accordance with the definition provided by the World Bank.

AERE MEMBERSHIP SERVICES

Please direct any questions or requests regarding your membership, subscriptions to *JAERE*, *REEP*, luncheon or AERE Summer Conference registrations, receipts, or related membership matters to:

AERE Membership Services
info@aere.org
Telephone: 407-774-7880

Marilyn M. Voigt, AERE Executive Director, can be reached at:

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AERE Newsletter

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2016 INSTITUTIONAL AND UNIVERSITY MEMBERS OF AERE

Institutional Members

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The Brattle Group

Environmental Defense Fund

Fondazione Eni Enrico Mattei – FEEM

Resources for the Future

US Forest Service
Rocky Mountain Research Station

W. H. Desvousges & Associates, Inc.

University Members

Appalachian State University
Department of Economics

Clark University
Department of Economics

Colorado School of Mines
Division of Economics and Business

Columbia University
School of International and Public Affairs and
The Earth Institute

Duke University
Energy Initiative

Harvard University
Harvard Environmental Economics Program (HEEP)

Iowa State University
Agricultural and Rural Development

Johns Hopkins University
Carey Business School and
Whiting School of Engineering

Macalester College
Department of Economics

Mississippi State University
Department of Agricultural Economics

North Carolina State University
Department of Agricultural and Resource Economics

Texas A&M University
Department of Agricultural Economics

University of Calgary
Department of Economics

University of California, Berkeley
Agriculture & Resource Economics

University of California, Davis
Department of Agriculture and Resource Economics

University of California, San Diego
Department of Economics

University of Chicago
Energy Policy Institute at Chicago (EPIC)

University of Colorado Boulder
Department of Economics

University of Connecticut
Department of Agricultural and Resource Economics

University of Hawaii at Manoa
Department of Economics

University of Illinois at Urbana - Champaign
Agricultural and Consumer Economics

University of Maryland, College Park
Department of Agriculture & Resource Economics

University of North Carolina at Greensboro
Department of Economics

University of Oregon
Department of Economics

University of Tennessee
Department of Economics

University of Wisconsin - Madison
Department of Agricultural and Applied Economics

Virginia Tech
Department of Agricultural and Applied Economics

CALLS FOR PAPERS AND EXPRESSIONS OF INTEREST

AERE Summer Conference

Excellence in Academic Programming
Collegiality in Destinations Worth Visiting

The sixth annual AERE Summer Conference will be held Wednesday, May 31, to Friday, June 2, 2017 at the Omni William Penn Hotel located in Pittsburgh, Pennsylvania. Please join us! Pittsburgh is located at the confluence of three beautiful rivers and is near excellent biking, hiking, and kayaking. We encourage participation from academic, public, and private sector environmental and resource economists as well as graduate students, in particular those entering the job market.

A pre-conference workshop, led by Daniel J. Phaneuf (University of Wisconsin, Madison) and Catherine L. Kling (University of Iowa), will be held on Wednesday, May 31. It will be organized around the theme of "New Opportunities for Environmental Measurement", with an emphasis on using remote sensing and related technologies for attaching air, water, and land pollution outcomes to economic models. Speakers from the relevant disciplines will instruct participants on the latest developments, current and future capabilities, and practical use of available data sources.

The conference will begin with an informal welcome reception on Wednesday evening; the academic program will follow on Thursday and Friday. We are excited to announce that Professor Janet Currie, Henry Putnam Professor of Economics and Public Affairs at Princeton University, will give the Keynote Address.

The conference will feature **Sponsored Sessions**, **General Sessions**, and a **Poster Session**. **General Sessions** and the **Poster Session** are open to all topics of interest to environmental and natural resource economists.

Sponsored Sessions will feature papers on the following three themes: 1) Emerging data opportunities in environmental and resource economics, 2) Shale oil and gas, and 3) Sustainability, renewables, and the grid. For the first theme, papers can illustrate the value of new data sources or established but under-exploited sources. For the second theme, papers can focus on issues related to drilling for oil and gas in shale formations or its down-stream implications. Possible topics might include regulation, externalities, extraction decisions energy prices, and energy exports. For the third theme, papers can focus on the empirical electricity market impacts of changes in installed capacity of renewables.

Presenters in the Sponsored Sessions must provide full papers to discussants by May 15, 2017. Up to $1,000 for registration and travel costs (coach airfare and room at the William Penn Hotel) will be reimbursed for one presenter per paper accepted for a Sponsored Session.

Sponsored Sessions are supported this year by generous funding from the National Oceanic and Atmospheric Administration (U.S. Department of Commerce), the Economic Research Service (U.S. Department of Agriculture), and Microsoft.

Abstract Submission

Abstracts will be accepted beginning on **December 1, 2016** through the AERE Summer Conference website (click here). The deadline for submissions is **January 18, 2017** (midnight Pacific standard time). In the event they are not selected, abstracts submitted for the **Sponsored Sessions** will automatically be considered for inclusion in the **General Sessions** unless otherwise noted in the abstract. In the event they are not selected, abstracts submitted for the **General Sessions** will be considered for inclusion in the **Poster Session** only if explicitly noted in the abstract. Abstracts submitted for the **Poster Session** will be considered exclusively for the **Poster Session**.

Proposals for complete sessions as part of the **Sponsored Sessions** and **General Sessions** are also encouraged. Organizers of proposed sessions should submit complete information for each of the papers and indicate that the papers are part of an organized session. Papers submitted as part of a proposed session may be accepted or rejected on an individual basis unless the organizer specifically requests the session be considered only in its entirety.

Each submission requires an abstract of no more than 1,000 words (including references) that describes the paper. The submitter should plan to attend and present if his/her abstract is accepted. Each submitter may submit a maximum of two abstracts (though may be a co-author of papers to be presented by others), only one of which will be accepted. If two abstracts are submitted by the same individual, each abstract must include a ranking to indicate which paper the submitter prefers to present in the event that both are selected. We will follow a strict rule of one presentation per presenter. All participants must register for the conference by April 15, 2017 in order to be included in the final program.

Electronic acknowledgement of submissions will be sent to all submitters. We expect to notify authors by February 28, 2017 (for **Sponsored Sessions** and **General Sessions**) or by March 15, 2017 (for the **Poster Session**). **All paper and poster presenters must be 2017 AERE members**. Accepted papers must not be published before the time of the conference.

AERE looks forward to welcoming you to the Omni William Penn Hotel in downtown Pittsburgh. In addition to an excellent academic program, there will opportunities for people to meet for dinner downtown or in one of many Pittsburgh's charming neighborhoods, enjoy beautiful Point State Park, and explore the area. Additional details about the conference will be posted soon on the conference website.

Conference Organizing Committee:

Co-Chair Randy Walsh, University of Pittsburgh
Co-Chair Karen Clay, Carnegie Mellon University
Jeremy Weber, University of Pittsburgh
Edson Severnini, Carnegie Mellon University

Questions should be directed to the organizing committee at aere2017pittsburgh@gmail.com

CALL FOR EXPRESSIONS OF INTEREST FOR THE ORGANIZING COMMITTEE OF THE 7TH ANNUAL AERE SUMMER CONFERENCE MAY / JUNE 2019

Excellence in Academic Programming
Collegiality in Destinations Worth Visiting

AERE launched its annual Summer Conference in 2011. The first five conferences were held in:

Seattle, Washington (June 8 – 10, 2011)
Asheville, North Carolina (June 3 – 5, 2012)
Banff, Alberta, Canada (June 6 – 8, 2013)
San Diego, California (June 3 – 5, 2015)
Breckenridge, Colorado. (June 9 – 11, 2016)

Organizers have always managed to offer members an excellent program in a beautiful setting with AERE's special brand of collegiality. We anticipate another exceptional experience at the 6th annual conference on May 31 – June 2, 2017 in the mid-Atlantic urban setting of Pittsburgh, Pennsylvania—a vibrant downtown nestled among three rivers affording easy access to kayaking and beautiful walking / biking wooded trails,

It's time to decide where we will meet in 2019! Would you like to weigh in and help make it happen? We are soliciting Expressions of Interest for the Organizing Committee of the 7th Annual AERE Summer Conference that will take place in late May / early June 2019. (There is no conference in 2018 because of the World Congress of Environmental and Resource Economists taking place in Gothenburg, Sweden.) The Committee's main task will be to develop the academic programming (including a Workshop and Keynote speaker) and related events. Sponsored sessions will be included and their theme is to be chosen by the Organizing Committee in conjunction with government agency and other supporters of the sponsored session tracks.

And there will be help provided to the Organizing Committee! Administrative and event support from an Event Manager will include contract negotiations for guest rooms, AV, and food and beverage requirements. Plus, a subcommittee of the AERE Board has been appointed this year to provide additional support for fundraising and software selection, and an AERE Board member has the responsibility of being the liaison between the Organizing Committee and the AERE Board.

Expressions of Interest are solicited from universities, research organizations, or groups of organizations. Normally a team of two to four individuals would be expected to comprise the committee, but the Organizing Committee has latitude to choose its composition as it sees fit. The submission should provide the following:

i. Name of Organizing Committee chair and/or co-chair and members;
ii. Previous experience of meeting / conference planning;
iii. Proposed dates;
iv. Names of three or four hotels available on proposed dates with sufficient size (see below) that the Event Manager can research for services and costs;
v. Interest in including a pre- or post-conference Workshop;
vi. Estimated travel time from airport to proposed location by shuttle and rental car;
vii. Attributes of the proposed site.

Priority consideration will be given to:

i. Venues large enough to accommodate ten parallel sessions and up to 375 attendees (including a Keynote lunch for the full group);
ii. Affordability of hotel rooms (including government rate) and food / beverage costs (as determined by the Event Manager and Treasurer in consultation with selected Board members);
iii. High amenity value in the surrounding area and places not on the usual academic conference circuits;
iv. Locations that are within a 2-hour drive from the nearest major airport.

AERE strives for diversity in locations for its conference across years (see past conference locations above), but any accessible, desirable location will be considered.

Expressions of Interest should be sent **by March 31, 2017** via e-mail to the AERE President at:

aere_president@aere.org
Subject Line: AERE Conference 2019

Any questions--contact:

Laura Taylor (lotaylor@ncsu.edu)
Vic Adamowicz (vic.adamowicz@ualberta.ca)
or Marilyn Voigt (voigt@rff.org)

AERE NEWSLETTER

The *AERE Newsletter* is soliciting essays from AERE members about natural resource and environmental economics issues of general interest to the membership. These essays can be relatively short (6-10 double spaced pages) and address a topic that does not fit into the traditional journal outlet. There is currently no backlog, so your essay would likely be published in the May AERE Newsletter. Marilyn Voigt and I need your essay by February for the May issue. If you wish to float an idea by me, feel free to contact me.

John Loomis
***AERE* Newsletter Co-Editor**
jloomis@lamar.colostate.edu
Telephone: 970-491-2485

AGRICULTURAL & APPLIED ECONOMICS ASSOCIATION (AAEA)

July 30-August 1, 2017
Chicago, Illinois

Call for Papers: AERE Sessions

The 2017 Agricultural & Applied Economics Association (AAEA) annual conference will be held in Chicago, Illinois from July 30 – August 1, 2017. The AERE Program Committee, chaired by Nicolai Kuminoff (Arizona State University), will organize AERE sessions. Abstracts will be accepted for consideration **beginning December 15, 2016** through the AERE@AAEA website (click here) and must be submitted **by January 31, 2017**, midnight PST.

Proposals for complete sessions are also encouraged. Organizers of proposed sessions should submit complete information for EACH of the papers. Papers may be accepted or rejected on an individual basis unless the organizer specifically requests the session be considered only in its entirety.

Please note that all selected presenters must be 2017 AERE members and priority consideration for discussants will be given to current AERE members.

ALLIED SOCIAL SCIENCE ASSOCIATIONS (ASSA)

January 5-7, 2018
Atlanta Marriott Marquis
Atlanta, Georgia

Call for Papers: AERE Sessions

The 2018 annual winter meeting of the ASSA will be held in Atlanta, Georgia on January 5 - 7, 2018. The AERE Program Committee, chaired by Nicolai Kuminoff (Arizona State University), will organize AERE sessions. Abstract submission will be available via the AERE@ASSA webpage (click here) starting March 1, 2017 and must be submitted by **April 15, 2017 midnight PDT**.

Proposals for complete sessions are also encouraged. Organizers of proposed sessions should submit complete information for EACH of the papers. Papers may be accepted or rejected on an individual basis unless the organizer specifically requests the session be considered only in its entirety.

Please note that all selected presenters must be 2018 AERE members and priority consideration for discussants will be given to AERE members.

EAERE 23RD ANNUAL CONFERENCE

June 28 – July 1, 2017
Megaron Athens International Cultural Center
Athens, Greece

Deadline for paper submissions and for policy and thematic sessions proposals: **January 31, 2017**
Email: eaere@eaere.org

For **general conference information**, please contact the Local Organizing Committee.
Email: eaere2017@icre8.eu
Contact: Dimi Xepapadeas

For conference website, click **here**.

SOUTHERN ECONOMIC ASSOCIATION (SEA) ANNUAL MEETING

Call for Papers: AERE Sessions

The 87th Annual Meeting of the SEA will be held in Tampa, Florida at the Marriott Waterside Hotel & Marina, November 17-19, 2017 (Friday through Sunday). John Whitehead (Appalachian State University) is once again organizing the AERE sessions. Abstracts will be accepted for consideration **beginning January 30, 2017** through the AERE@SEA website (click here) and must be submitted by **March 1, 2017, midnight PDT**.

Proposals for complete sessions are also encouraged. Organizers of proposed sessions should submit abstracts for EACH of the papers. Papers may be accepted or rejected on an individual basis unless the organizer specifically requests the session be considered only in its entirety.

Please note that all selected presenters must be 2017 AERE members. **Membership of presenters will be verified one month after notification of acceptance.** Papers of non-members will be dropped from the program. (We regret we do not have sufficient staff to send membership reminders to non-members.) Also, priority consideration for discussants will be given to current AERE members.

WESTERN ECONOMIC ASSOCIATION INTERNATIONAL (WEAI) ANNUAL CONFERENCE

92nd Annual Conference
Sunday-Thursday, June 25-29, 2017

Marriott Marquis & Marina
San Diego, California

Call for Papers—AERE Sessions
Monday-Wednesday, June 26-28, 2017

AERE will again coordinate sessions at the WEAI annual conference, to be held in San Diego, California. AERE sessions will be scheduled during the middle three days of the conference. Submissions will open November 29, 2016, and close **January 10, 2017**, (midnight PST). Please prepare an extended one-page abstract with sufficient detail to allow the selection committee to fully assess the nature of the research. Selection committee chair: Trudy Ann Cameron (cameron@uoregon.edu),

Only one submission per presenter; new talent encouraged. Full session proposals are also welcome (four papers, with discussants and a chair). **Submissions via Google Forms: click this link.**

AERE is an Allied Society member of the WEAI; therefore, participants in AERE-organized sessions register at the same rate as WEAI members—membership in the WEAI is not required. However, a**ll presenters in AERE sessions must be 2017 members of AERE.**

Dr. Trudy Ann Cameron
R.F. Mikesell Professor of Environmental and Resource Economics
University of Oregon
Email: cameron@uoregon.edu
Telephone: 541-346-1242

CONFERENCES, MEETINGS, AND WORKSHOPS

ALLIED SOCIAL SCIENCE ASSOCIATIONS (ASSA) MEETING

January 6 – 8, 2017
Chicago, Illinois

AERE Sessions

Editor's Note: Presenters are listed first.

Jan 06, 2017

Demand for Amenities and Cost of Regulation: Methods and Applications (Q5)

Presiding: Alvin Murphy (Arizona State University)

Do Land Markets Anticipate Regulatory Change? Evidence from Canadian Conservation Policy

Branko Boskovic (University of Alberta)
Linda Nostbakken (Norwegian School of Economics)

Estimating Heterogeneous Preferences to Avoid Flood Risk and the Implications for Disaster Exposure
Lala Ma (University of Kentucky)
Laura Bakkensen (University of Arizona)

Using a Residential Sorting Model to Better Understand the Relationship between Urban Greenspace and Health
Austin Williams (University of Wisconsin, Madison)
Dominic Parker (University of Wisconsin, Madison)
Daniel Phaneuf (University of Wisconsin, Madison)

Averting Expenditures and Desirable Goods: Consumer Demand for Bottled Water in the Presence of Fracking
A. Justin Kirkpatrick (Duke University)
T. Robert Fetter (Duke University)

Discussants:
Alvin Murphy (Arizona State University)
Daniel Phaneuf (University of Wisconsin)
Lucija Muehlenbachs (University of Calgary)
Doug Wrenn (Pennsylvania State University)

col**Natural Disasters, Weather and Air Pollution: Empirical Evidence and New Perspectives (Q5)**

Presiding: Matthew Neidell (Columbia University)

Temperature, Wages and Agricultural Labor Productivity
Andrew Stevens (University of California, Berkeley)

Do Disasters Affect Growth? Five Macro Model-Based Insights on the Empirical Debate
Laura Bakkensen (University of Arizona)
Lint Barrage (Brown University)

Estimating Indirect Environmental Benefits: Fracking, Coal and Air Pollution
Hendrik Wolff (Simon Fraser University)
Reid Johnson (University of California, Berkeley)
Jacob LaRiviere (Microsoft Research)

Measuring Climate Damage from Weather
Robert Mendelsohn (Yale University)

Discussants:
Matthew Neidell (Columbia University)
Tatyana Deryugina (University of Illinois)
Alan Krupnick (Resources for the Future)
Solomon Hsiang (University of California, Berkeley)

Demand for Water Quality (Q5)

Presiding: Al McGartland (U.S. Environmental Protection Agency)

The Economics of U.S. Water Quality Regulation: What We Need to Know and How We Can Learn It
David A. Keiser (Iowa State University)
Catherine Kling (Iowa State University)
Joseph Shapiro (Yale University)

Credit Constraints, Discounting and Investment in Health: Evidence from Micropayments for Clean Water in Dhaka
Raymond Guiteras (University of Maryland)
David Levine (University of California, Berkeley)
Thomas Polley (Duke University)
Brian Quistorff (University of Maryland)

(Not So) Gently Down the Stream: River Pollution and Health in Indonesia
Teevrat Garg (London School of Economics)
Stuart Hamilton (Salisbury University)
Jacob Hochard (East Coast Carolina University)
Evan Plous (Columbia University)
John Talbort (Eastern Shore Regional GIS Cooperative)

The Effects of Information Provision on Avoidance Behavior: Evidence from the Flint, Michigan Drinking Water Crisis
Peter Christensen (University of Illinois, Urbana-Champaign)
David Keiser (Iowa State University)
Gabe Lade (Iowa State University)

Discussants:
Al McGartland (Environmental Protection Agency)
Molly Lipscomb (University of Virginia)
Mushfiq Mobarak (Yale University)
Lori Bennear (Duke University)

Jan 07, 2017

JOINT SESSION: AERE and AEA
Energy Policy in Practice (Q4)

Presiding: Vic Adamowicz (University of Alberta)

Capital versus Output Subsidies: Implications for Alternative Incentives for Wind Energy
Joseph Aldy (Harvard University)
Todd Gerarden (Harvard University)
Richard Sweeney (Boston College)

Welfare Spillovers from Local Energy Policy: The Case of Renewable Portfolio Standards
Alex Hollingsworth (Indiana University)
Ivan Rudik (Iowa State University)

Federal Coal Program Reform, the Clean Power Plan, and the Interaction of Upstream and Downstream Climate Policies
James Stock (Harvard University)
Todd Gerarden (Harvard University)
Spencer Reeder (Vulcan Philanthropy)

Pigouvian Taxes at Odds: Freight Vehicles and Externalities
Kevin Roth (UC Irvine)
Linda Cohen (UC Irvine)

Discussants:
Joseph Cullen (Washington University)
Erik Johnson (Georgia Tech)
Meredith Fowlie (University of California, Berkeley)
Jonathan Hughes (University of Colorado Boulder)

Behavioral Interventions and Water Conservation (Q5)

Presiding: Anant Sudarshan (University of Chicago)

Motivations for Water Conservation from Behavioral Interventions
Daniel Brent (Louisiana State University)
Corey Lott (University of California, Santa Barbara)
Joseph H. Cook (University of Washington)
Michael H. Taylor (University of Nevada, Reno)
Kimberly Rollins (University of Nevada, Reno)
Shawn Stoddard (Truckee Meadows Water Authority)

The Effect of Social and Consumption Analytics on Residential Water Demand
Steven Buck (University of Kentucky)
Hilary Soldati (University of California, Berkeley)

Becker versus the Behavioralist: Using Targeted Messages to Promote Compliance with Outdoor Water Restrictions
Michael Price (Georgia State University)
Anita Castledine (Public Utilities Commission of Nevada)
Klaus Moeltner (Virginia Tech University)
Shawn Stoddard (Truckee Meadows Water Authority)
Casey Wichman (Resources for the Future)

Enduring Effects of Changes in Billing Frequency: Evidence from Urban Water Use
Casey Wichman (Resources for the Future

Discussants:
Anant Sudarshan (University of Chicago)
Paul Ferraro (Johns Hopkins University)
Robert Metcalfe (University of Chicago)
Steven Sexton (Duke University)

Energy: Industrial Organization and Political Economy (Q4)

Presiding: Stephen Ryan (Washington University)

Optimal Pigouvian Taxation in Concentrated Industries
Joseph Shapiro (Yale University)
Sharat Ganapati (Yale University)
Reed Walker (University of California, Berkeley)

Measuring Distortions in the Natural Gas Pipeline Scheduling and Capacity Relase Markets in New England
Matthew Zaragoza-Watkins (Environmental Defense Fund)
Kristina Mohlin (Environmental Defense Fund)
Katherine Rittenhouse (Environmental Defense Fund)

Price Regulation and Environmental Externalities: Evidence from Methane Leaks
Catie Hausman (University of Michigan)
Lucija Muehlenbachs (University of Calgary)

The Political Economy of Prolonging Coal's Sunset: Local Coal Demand in Coal Mining Regions
Jonathan Eyer (University of Southern California)
Matt Kahn (University of Southern California)

Discussants:
Stephen Ryan (Washington University)
Erin Mansur (Dartmouth)
Erich Muehlegger (University of California, Davis)
Steve Cicala (University of Chicago)

Jan 08, 2017

Empirics of Resource Extraction (Q3)

Presiding: Judson Boomhower (Stanford University)

Regional Windfalls or Beverly Hillbillies? Local and Absentee Ownership of Oil and Gas Royalties
Timothy Fitzgerald (Texas Tech University)
Jason P. Brown (Federal Reserve Bank of Kansas City)
James Sears (Montana State University)
Jeremy Weber (University of Pittsburgh)

The Effect of Land Ownership on Oil and Gas Production: A Natural Experiment
Eric Edwards (Utah State University)
Trevor O'Grady (The College of New Jersey)
David Jenkins (Apache Corporation)

When Are Resources Curses and Blessings? Evidence from the United States 1880-2000
Karen Clay (Carnegie Mellon University)
Alex Weckenman (Harvard University)

Interfirm Learning and Environmental Pollution: Evidence from the Bakken Oil Boom
Ian Lange (Colorado School of Mines)
Michael Redlinger (Department of Revenue State of Alaska)
Peter Maniloff (Colorado School of Mines)

Discussants:
James Feyrer (Dartmouth)
Ryan Kellogg (University of Chicago)
Hunt Allcott (New York University)
Judson Boomhower (Stanford University)

Behavioral Considerations in Environmental Economics (Q5)

Presiding: Kenneth Gillingham (Yale University)

You Can't Take It With You: Appliance Choices and the Energy Efficiency Gap
Ryan Sandler (Federal Trade Commission)

Does Mandatory Labeling of Outfall Points Influence Pollution and Compliance? Evidence from Ohio
Jay Shimshack (University of Virginia)
Xian Liu (Indiana University)

Air Pollution and Investor Behavior: Evidence from S&P 500 Returns
Anthony Heyes (University of Ottawa)
Matthew Neidell (Columbia University)
Soodeh Saberian (University of Ottawa)

Discussants:
Ken Gillingham (Yale University)
Sebastien Houde (University of Maryland)
Matthew Gibson (Williams College)
Ronald Shadbegian (National University of Singapore)

The New Dynamics of Macro-Environmental Economics (Q5, EO)

Presiding: Roberton Williams (University of Maryland)

Comparing the Cost of a Carbon Tax in China and the United States
Mark Jacobsen (University of California, San Diego)
Richard Carson (University of California, San Diego
Antung A. Liu (Indiana University)

Environmental Policy and Structural Environmental Change
Christos Makridis (Stanford University)

Be Careful What You Calibrate For: Social Discounting in General Equilibrium
Lint Barrage (Brown University)

Energy Transitions: Directed Technical Change Meets Directed Extraction
Derek Lemoine (University of Arizona)

Discussants:
Roberton Williams (University of Maryland)
David Hemous (INSEAD)
Stephie Fried (Carleton College)
Ujjayant Chakravorty (Tufts University)

4TH ECONOMICS OF LOW-CARBON MARKETS WORKSHOP

December 19 – 20, 2016
University of São Paulo
São Paulo, Brazil

Website: http://www3.fearp.usp.br/lcm/

FSR CLIMATE ANNUAL CONFERENCE

December 1 – 2, 2016
Via delle Fontanelle, 18
Fiesole FL 50014 Italy

For more information Click Here!

MIDWEST ECONOMICS ASSOCIATION (MEA) ANNUAL MEETING

March 31 – April 2, 2017
The Westin Cincinnati
Cincinnati, Ohio

Lea-Rachel Kosnik is organizing a dinner on Saturday evening, April 1st, for AERE members at the MEA meeting. Anyone interested can reach her at: kosnikl@umsl.edu.

Note: Names in bold font are the presenting authors.

AERE Sessions

Organized by Lea-Rachel Kosnik, University of Missouri-St. Louis

I Valuation – Choice Experiments & Surveys

Session Chair: Matthew Winden, University of Wisconsin-Whitewater, windenm@uww.edu

- "Incorporating Beliefs and Experiences into Choice Experiment Analysis: Implications for Policy Recommendations on the Proposed new National Park in Maine."
  - **Andrew Meyer, Marquette University**
    Sahan T.M. Dissanayake, Colby College and University of Minnesota
  - andrew.g.meyer@marquette.edu
  - Discussant: Tim Haab, The Ohio State University
    haab.1@osu.edu
- "Homeowner Willingness to Pay for a Pre-Flood Agreement for a Post-Flood Buyout."
  - **Amy Ando, University of Illinois Urbana-Champaign**
  - amyando@illinois.edu
  - Discussant: Laura Taylor, North Carolina State University
    lotaylor@ncsu.edu
- "Household Preferences for Environmental Assets: Testing for the Importance of the Frequency, Severity, and Duration of Changes in Water Quality."
  - **James Price, U.S. Environmental Protection Agency**
    Diane Dupont, Brock University
    Steven Renzetti, Brock University
    Asit Mazumder, University of Victoria
  - price.james@epa.gov
  - Discussant: Elizabeth Obeng, University of Missouri-Columbia
    eo8r3@mail.missouri.edu
- "The Amenity Costs of Offshore Wind Farms: Evidence from a Choice Experiment."
  - **Laura Taylor, North Carolina State University**
    Sanja Lutzeyer
    Daniel Phanuef
  - lotaylor@ncsu.edu
  - Discussant: Natalia Czap, The University of Michigan,
    nczap@umich.edu

II Valuation and Preferences

Session Chair: Tim Haab, The Ohio State University, haab.1@osu.edu

- "Valuing Shoreline Access on Grand Lake, OK Using Spatial Hedonics."
  - **Tracy Boyer, Oklahoma State University**
    Monika Ghimire, Oklahoma State University
    Dave Shideler, Oklahoma State University
  - tracy.boyer@okstate.edu
  - Discussant: Jeffrey Cohen, University of Connecticut
    jeffrey.cohen@business.uconn.edu
- "Proximity to a Water Supply Reservoir and Dams: Is There Heterogeneity in the Effects on Housing Prices?"
  - **Jeffrey Cohen, University of Connecticut**
    Ke Yang, University of Hartford
    Joseph Danko, University of Connecticut
  - jeffrey.cohen@business.uconn.edu
  - Discussant: Hans Czap, The University of Michigan
    hczap@umich.edu
- "A Value Orientation Approach to Assess and Compare Perceptions, Attitudes and Willingness-to-Pay for Forest Ecosystem Services Under PES Schemes Among Rural-Urban U.S. Residents."
  - **Elizabeth Obeng, University of Missouri-Columbia**
    Francisco Aguilar, University of Missouri-Columbia
  - eo8r3@mail.missouri.edu
  - Discussant: Andrew Meyer, Marquette University
    andrew.g.meyer@marquette.edu
- "Empathy Conservation: From the Lab to the Field."
  - **Natalia Czap, The University of Michigan**
    Hans Czap, The University of Michigan
    Simantee Banerjee
    Mark Burbach
    Gary Lynne
  - nczap@umich.edu
  - Discussant: James Price, U.S. Environmental Protection Agency
    price.james@epa.gov

III Pollution

Session Chair: Allen Bellas, Metropolitan State University

- "Upstreamers Right to Pollute or Downstreamers Right to Clean Water – The Effect of Reassigning Property Rights."
  - **Hans Czap, The University of Michigan**
  - hczap@umich.edu
  - Discussant: Tracy Boyer, Oklahoma State University
    tracy.boyer@okstate.edu
- "Reducing Watershed Pollution Through Dynamic Stormwater Retention Using Green Roofs."
  - **Matthew Winden, University of Wisconsin-Whitewater**
  - windenm@uww.edu
  - Discussant: Amy Ando, University of Illinois Urbana-Champaign
    amyando@illinois.edu
- "Unwatched Pollution: Responses of Air Quality to Air Monitoring."
  - **Eric Zou, University of Illinois at Urbana-Champaign**
  - Yzou9@illinois.edu
  - Discussant: Max Melstrom, Oklahoma State University
    melstrom@okstate.edu
- "Household Use of Organic and P-free Fertilizers: Feeling Good versus Doing Good."
  - **Laura McCann, The University of Missouri-Columbia**
    Mccann1@missouri.edu
  - Discussant: Adrienne Ohler, Illinois State University
    aohler@ilstu.edu

IV Climate Change

Session Chair: Brian Scott, Washington College, bscott3@washcoll.edu

- "Climate Change: How Feasible are Market Based Solutions?"
  - **Carol Tallarico, Carroll University**
  - ctallari@carrollu.edu
  - Discussant: Debra Israel, Indiana State University
    debra.israel@indstate.edu
- "Climate Change and Media Attention to Economic Issues Ahead of the Annual UNFCC COP Meetings."
  - **Lea-Rachel Kosnik, University of Missouri-St. Louis**

- kosnikl@umsl.edu
- Discussant: Eric Zou, University of Illinois at Urbana-Champaign Yzou9@illinois.edu

- "Climate Change and Internal Migration in Brazil: The Role of Geography and Road Infrastructure."
  - **Claire Brunel, American University** Maggie Liu, Georgetown University and World Bank
  - brunel@american.edu
  - Discussant: Erik Johnson, Georgia Institute of Technology erik.johnson@econ.gatech.edu
- "The Economic Impacts of Future Water Availability."
  - **Gokce Akin-Olcum, Boston University** Ian Sue Wing, Boston University
  - gokceakin@gmail.edu
  - Discussant: Abdoul G. Sam, The Ohio State University sam.7@osu.edu

V Regulation & Eco-labeling

Session Chair: Christopher Timmins, Duke University, timmins.c@gmail.com

- "The Effect of Regulatory Enforcement on Facility-Level Employment: Environmental Workers vs. Production Workers."
  - **Zach Raff, University of Wisconsin-Stout** Dietrich Earnhart, University of Kansas
  - raffz@uwstout.edu
  - Discussant: Carol Tallarico, Carroll University ctallari@carrollu.edu
- "The Placement of Oil and Gas Wells in Response to Environmental Litigation Risks."
  - **Max Melstrom, Oklahoma State University**
  - melstrom@okstate.edu
  - Discussant: Laura McCann, The University of Missouri-Columbia Mccann1@missouri.edu
- "Rebound Effects from Energy Star Appliances on Annual Energy Consumption: Evidence from Household Data."
  - **Adrienne Ohler, Illinois State University**
  - aohler@ilstu.edu
  - Discussant: Dong Won Shin, University of Missouri-Columbia dshin@mail.missouri.edu
- "ISO 14001 Adoption and Firm Efficiency: Evidence from the South Korean Manufacturing Industry."
  - **Abdoul G. Sam, The Ohio State University** Danbee Song, The Ohio State University
  - sam.7@osu.edu
  - Discussant: Claire Brunel, American University brunel@american.edu

VI The Residential Sector – Thermostats, Solar PV, Green Giving, & Neighborhood Well-Being

Session Chair: Adrienne Ohler, Illinois State University

- "Energy Conservation in the Residential Sector: Adoption of Insulation versus Programmable Thermostats."
  - **Dong Won Shin, University of Missouri-Columbia**
  - dshin@mail.missouri.edu
  - Discussant: Zach Raff, University of Wisconsin-Stout raffz@uwstout.edu
- "The Impact of Incentives on Solar PV Installations: Evidence from the Residential & Commercial Sectors."
  - **Erik Johnson, Georgia Institute of Technology** Daniel Matisoff, Georgia Institute of Technology
  - erik.johnson@econ.gatech.edu
  - Discussant: Matthew Winden, University of Wisconsin-Whitewater windenm@uww.edu
- "Free Riding and Green Giving."
  - **Debra Israel, Indiana State University**
  - debra.israel@indstate.edu
  - Discussant: Gokce Akin-Olcum, Boston University gokceakin@gmail.edu
- "A Pedagogical Approach to the Nexus between Sustainable Scale and Just Distribution: a Well-Being Analysis Project in Cincinnati, Ohio."
  - **Nancy Bertaux, Xavier University**
  - bertaux@xavier.edu
  - Discussant: Allen Bellas, Metropolitan State University Allen.bellas@metrostate.edu

VII Lessons From Under the Learning Tree: A Panel on Teaching Environmental Economics

Session Chair: Lea-Rachel Kosnik, University of Missouri-St. Louis, kosnikl@umsl.edu

- "Planting Ideas in the Classroom Using zTree and/or oTree."
  - **Brian Scott, Washington College**
  - Bscott3@washcoll.edu
- "Teaching Tree-Hugging Economics to People Who Don't Care About Trees."
  - **Allen Bellas, Metropolitan State Unviersity**
  - Allen.bellas@metrostate.edu
- "Money Growing on Trees: A Payment for Environmental Services Classroom Game."
  - **Sahan T. M. Dissanayake, Williams College**
    Sarah Jacobson, Williams College
  - sdissan2@gmail.com
- "Teaching Environmental Economics."
  - **Lynne Lewis, Bates College**
  - llewis@bates.edu

NORTHEAST AGRICULTURAL AND RESOURCE ECONOMICS ASSOCIATION (NAREA) ANNUAL MEETING

The Northeast Agricultural and Resource Economics Association (NAREA) will hold its 2017 Annual Meeting & Workshop from Sunday, June 11, 2017, through Wednesday, June 14, 2017. Meeting events will take place at the Key Bridge Marriott in Arlington, VA, just across a pedestrian friendly bridge from the Georgetown neighborhood of Washington, DC. NAREA will sponsor selected paper sessions, plenary talks, discussion symposia, and workshop sessions.

The post-conference workshop on "Climate Change and Land Conservation: Advances in the Economics of Adaptation and Mitigation Policies" will be held immediately following the annual meeting from June 13-14, 2017. The submission deadline for both the annual meeting and workshop (which can be attended separately) is **February 10, 2017**. For more on the location, abstract submission, and meeting overview: http://www.narea.org/2017/. Contact President-Elect Sarah Jacobson (Sarah.A.Jacobson@williams.edu) if you have questions. We look forward to seeing you in Arlington!

9TH ANNUAL CONFERENCE OF THE SOCIETY FOR BENEFIT-COST ANALYSIS

March 16 - 17, 2017
The George Washington University
Marvin Center
Washington, DC

The Society for Benefit-Cost Analysis (SBCA) is an international group of practitioners, academics and others who are working to improve the theory and application of the tools of benefit-cost analysis. Over 300 scholars and practitioners from around the world, government, academia, nonprofits and private industry will be present at the 9th annual conference. Please join us.

Pre-conference Professional Development Workshops: March 15, 2017

Click here for the SBCA website and further details.

SOUTHERN ECONOMIC ASSOCIATION (SEA)

86th Annual Meeting

November 19-21, 2016
JW Marriott Hotel
Washington, D.C.

An AERE Happy Hour will take place on Saturday, November 19th in the Marriott 1331 Bar beginning after the last AERE session (~5pm). Please join us!

AERE Sessions

Organized by John Whitehead, Appalachian State University

Electricity
Chair: Daniel H Karney, Ohio University

"Estimating Response of Demand for Residential Electricity: Evidence Based on Dynamic Panel Data Approaches"
*Yanming Sun, East China Normal University
Yihua Yu, Renmin University of China

"Risk Preference and Adverse Selection for Participation in Time-of-Use Electricity Pricing Programs"
*Yueming Qiu, Arizona State University
Gregory J. Colson, University of Georgia
Michael Wetzstein, Purdue University

"Estimation of the Long-Run, Own-Price Elasticity of U.S. Residential Electricity Demand Accounting for State-Level Heterogeneity and Dependence"
*Daniel H. Karney, Ohio University

"Vertical Separation of Transmission Control and Market Power in the Wholesale Electricity Market"
*Yin Chu, Zhongnan University of Economics and Law

Weather
Chair: John Whitehead, Appalachian State University

"Has the Weather Got You Down? The Impact of Abnormal Weather on Mental Health"
*Mengyao Li, University of Georgia
Susana Ferreira, University of Georgia
Travis A. Smith, University of Georgia

"Temperature and Growth: A Panel Analysis of the United States"
*Bridget Hoffmann, Inter American Development Bank
Riccardo Colacito, University of North Carolina at Chapel Hill
Toan Phan, University of North Carolina at Chapel Hill

"Well-Being Effect of Extreme Weather Event in the U.S."
*Mona Ahmadiani, University of Georgia
Susana Ferreira, University of Georgia

Agriculture
Chair: Linda Fernandez, Virginia Commonwealth University

"`Till the Wells Run Dry: Hydraulic Fracturing Effects on Agricultural Productivity and Crop Composition"
*Naima Farah, University of Calgary

"Impact of Conservation Compliance on Corn Stover Harvesting"
*Lyubov Kurkalova, North Carolina A&T State University

"Chesapeake Bay Transboundary Water Quality Game"
*Linda Fernandez, Virginia Commonwealth University

"Groundwater Export Restrictions and Agricultural Land Values"
*Daniel Bigelow, USDA Economic Research Service (ERS)
Steven Wallander, USDA ERS
Anita Chaudhry, California State University – Chico
Jennifer Ifft, Cornell University

Adaptation
Chair: Claire Brunel, American University

"Adaptation to Climate Change and International Mitigation Agreements with Heterogeneous Countries"
* Hongxiu Li, University of Waterloo
Horatiu A Rus, University of Waterloo

"Emissions Leakage, Environmental Policy and Trade Frictions"
*Shreekhar Pradhan, University of Tennessee
Mohammed Mohsin, University of Tennessee
J. Scott Holladay, University of Tennessee

"Modelling Equilibrium Responses to Climate-Induced Migration"
*Sul-Ki Lee, Colorado School of Mines
Jared Carbone, Colorado School of Mines

"Climate Change and Migration: the Role of Geography and Road Infrastructure"
*Claire Brunel, American University
Maggie Liu, Georgetown University

Ecolabels
Chair: Christopher F. Dumas, University of North Carolina - Wilmington

"Green Premium, Ecolabel, and Environmental Damage"
*Aditi Sengupta, Auburn University

"CEO Over-confidence and Corporate Environmental Performance"
*Botao Qin, Central Michigan University
Suman Banerjee, University of Wyoming

"Just Label It? The Effect on Outcomes in the Market for Genetically Modified Foods Under Different Product Labels"
*Samara Virginia Mendez, University of Colorado - Boulder

"The Potential Effect of Eco-Labels on Tree Cover in Coffee Plantations: Simulation of Small-Scale Farmers' Decisions in Mexico"
*Javier Lopez Aguilar, Centro de Investigación y Docencia Económicas, A.C. (CIDE)

Stated Preferences
Chair: Ash Morgan, Appalachian State University

"Using Meta-Regression to Estimate a Water Quality Demand Function for Benefit Transfers"
*Steve Newbold, US Environmental Protection Agency
Patrick J. Walsh, US Environmental Protection Agency
Matt Massey, US Environmental Protection Agency

"Measuring Consumer Responses and Welfare Implications of a Seafood Traceability System Following a Large Scale Contamination Event"
*Ash Morgan, Appalachian State University

"Estimating Nonuse Value from Stated Preference Data: A Bayesian Comparison of Approaches"
*Chris Moore, US Environmental Protection Agency

"Revisiting Protest Responses in Contingent Valuation Surveys: New Methods and an Application to the Deepwater Horizon Oil Spill"
*Timothy C. Haab, Ohio State University
Afif Naeem, Ohio State University

"The Hidden Public Good of Long-term Monitoring"
*Brian Vander Naald, Drake University
Chris Sergeant, National Park Service
Anne Beaudreau, University of Alaska Fairbanks

Hedonics
Chair: Amy B. Henderson, St. Mary's College of Maryland

"Resource Extraction and Environmental Quality: Analysis of Households' Perceptions of Environmental Pollution in Areas Near Mining"
*Nathaly Rivera, Michigan State University

"Variability in Relative Water Quality Measures: Implications for Reliability of Hedonic Price Estimates"
*Amy B. Henderson, St. Mary's College of Maryland
Matthew Flyr, Colorado State University

"Multi-Market Hedonic Analysis of River Disamenities"
*Lynne Lewis, Bates College
Craig E. Landry, University of Georgia

Forests
Chair: Jacqueline Doremus, Cal Poly State University

"Paid to Save the Forests: Does Brazil's Bolsa Verde Program Work?"
*Po Yin Wong, Norwegian School of Economics
Torfinn Harding, Norwegian School of Economics
Samantha Demartino, University of Sussex
Karly Kuralbayeva, London School of Economics
Liana Anderson, National Institute for Space Research (INPE)
Andre Lima, University of Maryland - College Park

"Consequences of Protected Areas for Forest Extraction and Human Well-being: Evidence from Nepal"
*Aparna Howlader, University of Illinois at Urbana-Champaign
Amy Ando, University of Illinois at Urbana-Champaign

"Unintended Impacts from Forest Certification: Evidence from Congolese Households"
*Jacqueline Doremus, Cal Poly State University

"Agricultural Productivity and Deforestation: Evidence from Input Subsidies and Ethnic Favoritism in Malawi"
*Ryan Abman, San Diego State University
Conor Carney, University of California, Santa Barbara

Pollution
Chair: Jay P. Shimshack, University of Virginia

"Diffusion of Voluntary Pollution Prevention Activities"
*Aselia Urmanbetova, Georgia Institute of Technology
Daniel Matisoff, Georgia Institute of Technology
Patrick McCarthy, Georgia Institute of Technology

"Enforcement Spillovers: Lessons from Strategic Interactions in Regulation and Product Markets"
*Jay P. Shimshack, University of Virginia
Scott Gilpatric, University of Tennessee
Mary F. Evans, Claremont McKenna College

"Intra-Firm Diffusion of Pollution Prevention Technology: The Role of Organization Structure"
*Xiang Bi, University of Florida

"Pollution and Politicians"
*Brandon Schaufele, University of Western Ontario
Nicholas Rivers, University of Ottawa
Anthony Heyes, University of Ottawa

"Concentration Effects of Heterogenous Standards: Refinery Response to the Clean Air Act Amendments"
Matthew Ridge Butner, University of Colorado – Boulder

Hazards
Chair: Daniel Petrolia, Mississippi State University

"The Community Rating System, NFIP Participation, and Flood Damage Claims: An Analysis with Matching and Difference-in-Differences"
*Daniel Petrolia, Mississippi State University
Eugene Frimpong, Mississippi State University

"Head for the Hills? Effects of Community Flood Management and Incentives on Migration, Housing Development, and Vulnerable Populations"
*Douglas Noonan, Indiana University - Purdue University of Indianapolis

"Residential Sorting over Flood Risk: A Boundary Discontinuity Approach"
*Lala Ma, University of Kentucky
Laura Bakkensen, University of Arizona

"The Housing Market Impacts of Wastewater Injection Induced Seismicity Risk"
*Haiyan Liu, University of Georgia
Susana Ferreira, University of Georgia
Brady Brewer, University of Georgia
Joshua Phillips, University of Georgia

Choice Experiments
Chair: Gregory Edward Howard, East Carolina University

"Consistency of Contingent Valuation and Choice Experiments using a Joint Estimation Design: An Application to Water Utility Infrastructure"
*Jennifer A Thacher, University of New Mexico
Qiuhua Ma, University of New Mexico

"Economic Value of Investments in Maritime Cultural Heritage"
*Craig E. Landry, University of Georgia

"Utilizing Subjective Beliefs in Stated Preference Models: Issues and Solutions"
*Gregory Edward Howard, East Carolina University

"Measuring the Economic Value of Coastal Habitat in the Face of Climate Change"
*Paul R. Hindsley, Eckerd College

Health
Chair: Garth Heutel, Georgia State University

"Time Goes Faster than You Think: Implications for the Value of a Statistical Life"
*Shana McDermott, Trinity University

"The Effect of Pollution on Health and Spending: Evidence from Changes in Wind Patterns"
*Garth Heutel, Georgia State University
Tatyana Deryugina, University of Illinois at Urbana-Champaign
Nolan Miller, University of Illinois at Urbana-Champaign
David Molitor, University of Illinois at Urbana-Champaign
Julian Reif, University of Illinois at Urbana-Champaign

"Does Prior Experience of New Technology Vehicles Matter? A Stated Preference Analysis of Personal Vehicle Transaction Choice"
*Debapriya Chakraborty, University of California, Irvine

"Preventing a Mouth with No Hands: Benefit Transfer Analysis of the Eradication of Curable Blindness"
*Paul Chambers, University of Central Missouri
Catherine Chambers, University of Central Missouri
John Whitehead, Appalachian State University

"Parents' Perceptions of Endogenous Risks to Their Own and Their Children's Health"
*Mark Dickie, University of Central Florida
Vic Adamowicz, University of Alberta
Shelby Gerking, Tilburg University
Marcella Veronesi, University of Verona

Renewable Energy
Chair: Tamara Sheldon, University of South Carolina

"How Does the Presence of HOV Lanes Affect Plug-In Electric Vehicle Adoption in California? A Generalized Propensity Score Approach"
*Tamara Sheldon, University of South Carolina
J.R. DeShazo, University of California, Los Angeles

"Do Energy Retrofits Work? Evidence from Commercial and Residential Buildings in Phoenix"
*Yueming Qiu, Arizona State University
Jing Liang, Arizona State University

"Weather and the Decision to Go Solar: Evidence from Costly Cancellations"
*Yanjun Liao, University of California, San Diego

"Spatially Differentiated Renewable Energy Subsidies: What Is There to Gain?"
*Anatolii Kokoza, University of Arizona

Bioeconomics
Chair: Jacob Hochard, East Carolina University

"Poaching and the Dynamics of a Protected Species"
*Adrian Lopes, American University of Sharjah
Jon Conrad, Cornell University

"Reuniting and Adapting to Fragmented Land for Species Recovery"
*Jacob Hochard, East Carolina University
Yuanhao Li, Norwegian School of Economics

"The Bioeconomics of Forest Plant Invasion and Control with Heterogenous Land Managers: Glossy Buckthorn in New England White Pine Forests"
*Shady Atallah, University of New Hampshire

Managing Flood Risk
Chair: J. Scott Holladay, University of Tennessee

"Political Affiliation and Protection against Climate Hazards: Evidence from New York City"
*Erwann Michel-Kerjan, University of Pennsylvania

"Are There Distributional Impacts from the National Flood Insurance Program?"
*Okmyung Bin, East Carolina University
John A. Bishop, East Carolina University
Carolyn Kousky, Resources for the Future

"Using Nudges to Induce Search for Flood Insurance"
*J. Scott Holladay, University of Tennessee

"Disasters as Learning Experiences or Disasters as Policy Opportunities? Examining Flood Insurance Purchases after Hurricanes"
*Carolyn Kousky, Resources for the Future

Recreation
Chair: John C. Whitehead, Appalachian State University

"Notching for Free: Do Bicyclists Reveal the Marginal Cost of Attention?"
*Casey J. Wichman, Resources for the Future
Brandon Cunningham, Resources for the Future

"The Effect of Water Quality Characterization on Recreation Demand Model Results"
*Matt Massey, US Environmental Protection Agency
Will Wheeler, US Environmental Protection Agency

'The Value of Birds to eBirders: Exploring Citizen Science Data using a Recreational Site Choice Model"
*Sonja Kolstoe, University of Oregon
Trudy A. Cameron, University of Oregon

"Sperner's Lemma and Fair Allocation Mechanisms in Fisheries"
*Christopher F. Dumas, University of North Carolina - Wilmington

Nudges
Chair: Jonathan Lee, East Carolina University

"Nudging Energy Efficiency Adoption: Evidence from a Field Experiment"
*Tsvetan Tsvetanov, University of Kansas
Kenneth Gillingham, Yale University
"Triggering Cooperation"
*Peter Martinsson, University of Gothenburg

"Willingness to Pay for Environmental Quality and Social Capital Influence in Sweden"
*George Marbuah, Swedish University of Agricultural Sciences

"Reclaimed Water as a Tool for Water Conservation: An Evaluation of Household Rebound Effects in Water Consumption when Water is "Green""
*Jonathan Lee, East Carolina University
Emily Berglund, North Carolina State University
Laura O. Taylor, North Carolina State University

"Motivations for Water Conservation from Behavioral Interventions"
*Daniel Brent, Louisiana State University
Corey Lott, University of California, Santa Barbara
Joseph Cook, University of Washington
Michael Taylor, University of Nevada - Reno
Kimberly Rollins, University of Nevada - Reno
Shawn Stoddard, Truckee Meadows Water Authority

Natural Resources
Chair: Sahar Milani, St. Lawrence University

"Supply-Side Cointegration in Crude Oil and Natural Gas Prices"
*Gavin Roberts, University of Wyoming
Benjamin Gilbert, University of Wyoming

"Induced Innovation in the Waste Management Sector"
*Sahar Milani, St. Lawrence University

"Resource Extraction Booms and the Proper Identification of Treatment"
*Michael Craig, University of Tennessee

"Ownership and Oil Extraction in Gulf of Mexico: Are Super Majors Judgment-Proofing?"
*Remi Morin Chasse, University of Wyoming
Charles F. Mason, University of Wyoming

Regulation
Chair: Sarah Jacobson, Williams College

"Responsive Regulation: Target- vs. Budget-Driven Regulation"
*Aselia Urmanbetova, Georgia Institute of Technology
Daniel Matisoff, Georgia Institute of Technology
Patrick McCarthy, Georgia Institute of Technology

"Effect of Environmental Enforcement on Production-Based Labor vs Environmental Labor"
*Zach Raff, University of Kansas
Dietrich Earnhart, University of Kansas

"Deterrence in the Public and Private Sectors"
*Sarah Andrea Jacobson, Williams College
Dietrich Earnhart, University of Kansas

Climate
Erik P. Johnson, Georgia Institute of Technology

"The Effects of Local Pollution Regulation on Greenhouse Gas Emissions"
*Erik P. Johnson, Georgia Institute of Technology
Claire Brunel, American University

"Energy Substitution and Impact of Household Income: Study Based on U.S. Household Energy Consumption"
*Mo Zhou, Auburn University
Robert Nelson, Auburn University

AERE Student Sessions

Organized by Elaine F. Frey, California State University - Long Beach

Transportation and Environmental Economics
Chair: Lynne Lewis, Bates College

"Political Pressure Under Pollution Reduction Mandates: Transboundary Spillovers in China"
*Youpei Yan, University of Maryland - College Park

"Coupling Regional Technology Adoption and Impact Models with Market Equilibrium Models to Assess Sustainability of Agricultural Systems"
*Roshan Adhikari, Oregon State University

"A Dynamic Model of Demand for Houses with Tenure Choices and its Consequences for Environmental Justice"
*Wen Wang, Duke University

"Organic or Pesticide-Residue-Free: Consumer Preference for Fresh Strawberries"
*Meng Shen, University of Florida

"The Effect of Metro Openings and Gasoline Price Adjustments on Traffic Flows"
*Cheng Xu, George Washington University

"How Does Fuel Cost Affect Heavy-Duty Truckers' Decisions?"
Jen He, University of Maryland - College Park

Energy
Chair: John Whitehead, Appalachian State University

“Fracking Chemical Disclosures”
*Andrew Steck, Duke University

"The Impact of Environmental Policy Instruments and Fuel Price Uncertainty on the Shifting Electricity Generation Portfolio in the U.S."
*Rebecca J. Davis, University of Tennessee

"Michigan's Electricity Market: Examining Determinants of Price"
*Tim Meernik, Central Michigan University

"The Economic Impact of Iowa's Wind Farms"
*Timothy Rakitan, Iowa State University

"Projection of China’s Electricity Consumption of Urban Households using Micro-Data"
*Yating Li, Duke University

Technological Change and Fisheries
Chair: Elaine F. Frey, California State University - Long Beach

"Stock Effect: Evidence from Pacific Halibut Fishery"
*Somenath Bera, Iowa State University

"Switchgrass Adoption Under Uncertainty: A Discrete-Time Modeling Approach"
*Pralhad Burli, Montclair State University

"Technological Spillovers: Long-Run Effects of India's Green Revolution"
*Anthony D'Agostino, Columbia University

"The Value of Acting Local: Micro-Institutions and Adoption of an Environmental Health-Improving Technology"
*Faraz Usmani, Duke University

"Innovation as Adaptation to Natural Disasters"
*Hongxiu Li, University of Waterloo

"Joint Estimation of Revealed and Stated Preference Recreational Data for Estimating Marginal Value of Catch (Valuing Recreational Catch in the Context of Quota Allocation)"
*M. Reza Zarei, University of Georgia
Paul R. Hindsley, Eckerd College
Craig E. Landry, University of Georgia
John C. Whitehead, Appalachian State University

ESSAYS

BP Damage Assessment under the Clean Water Act: Insights from a Team of One in the Courtroom

Charles F. Mason
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Laramie, Wyoming

At the recent AERE Summer Conference, a number of prominent economists discussed their role in assessing damages stemming from the BP oil spill of April 2010. The long discussions highlighted the lengthy and detailed efforts that were involved in that analysis, which was leading to potential testimony as part of the Natural Resource Damage Assessment (NRDA) case the US Department of Justice was preparing against BP. The court ultimately never heard these efforts, impressive and time-consuming as they were, as BP and the government settled their case in August of 2015.

By contrast, the case brought by the government against BP under the Clean Water Act (CWA) did go to trial. In contrast to the NRDA case, the underlying economic analysis in the CWA case involved neither scores of economists nor multiple years' worth of efforts. There was only one economist involved, and the testimony in that case was developed in less than four months. I was that economist.

By their nature, the CWA proceedings did not require a detailed and highly accurate assessment of damages. Indeed, when I was approached about testifying in this case I told the lawyer who recruited me it would not be possible to arrive at a detailed estimate given the time frame involved. That posed no problem, however, since my role was to assess the general magnitude of economic harm associated with the spill, as well as the role played by the two defendants in the case (Anadarko being the second defendant).

The structure of the Act defines a straightforward method for determining a maximum penalty. If the defendant is found guilty, the maximum penalty is the multiple of the volume of oil released into the environment, measured in barrels, and a factor that depends on the defendant's degree of culpability. If the defendant is deemed to have been negligent, the factor is $1,100 per barrel; if the defendant is deemed to have been grossly negligent, the factor is $4,300. In the first phase of the trial, the Court found BP to be grossly negligent. The second phase revolved around determining the total amount of oil spilled. The government alleged 5 million barrels were released, while BP argued the amount was a bit less than 2.5 million barrels. Given the lack of clear evidence regarding the true volume, the court settled on a compromise, finding 4 million barrels flowed from the wellbore. As the parties agreed BP collected 810,000 barrels at the wellhead, the net amount released into the environment was slightly less than 3.2 million barrels. Combined with the per unit factor, this then placed the maximum penalty at just over $18 billion. The third phase, in which I participated, focused on determining how close to that maximum the fine should be.

My testimony made two points: first, that the harm suffered by those in the Gulf coast area was severe, and second, that BP's role in the Gulf was relatively modest. The first was potentially fraught: as I noted above, there was insufficient time to develop a detailed estimate of damages. Nevertheless, there was evidence to support the argument that severe harm resulted. Following the spill, BP pled guilty to violating the Oil Pollution Act, which resulted in their establishing a regime to evaluate claims made by parties who alleged they had suffered harm, and to then pay the assessed damage to the claimant. The vetting process was rigorous, and based on a comparison of profits or income before and after the spill. As such, the monies paid under this regime are indicative of harms actually suffered by individuals with a connection to various parts of the Gulf coast economy. Later, the BP legal team negotiated an agreement with counsel representing plaintiffs in a class action proceeding. Again, this resulted in the establishment of a regime that vetted, and then paid off, claims deemed to be valid. Detailed records related to this second regime are publicly available. While these records are aggregated to a level that makes it impossible to assess any individual claim, they paint a coherent picture of the general magnitude of harm. Combining payments under these two regimes allowed me to construct a rough estimate of the magnitude of harm. Interestingly, the estimate I arrived at is reasonably close to the detailed estimate produced by the elaborate analysis described at the AERE conference.

The second element of my testimony was in essence a rebuttal to a variation on the "too big to fail" argument. The essential idea BP was floating was that their role in the gulf oil and gas economy was so large that penalizing them at a high level would place their viability in peril, thereby raising the specter that disadvantaged citizens on the Gulf coast area might suffer a "double whammy," should BP be forced to abandon its offshore activities. Such a line of reasoning relies on two elements: first, that BP's role was large, and second that they would be hard (or impossible) to replace. My task here was to debunk both elements. As to the first, while BP did represent over a quarter of oil extraction for a time, over a period from the middle part of the last decade to the time of the trial their role was closer to 15-20% of oil production (and a substantially smaller amount of gas production). While determining whether that is a large number is a subjective question, assessing the degree of competitiveness in the Gulf oil and gas industry is not: that can be done by straightforward application of tools used by industrial organization (IO) economists in a range of industries. What I was able to show was that in many dimensions, ranging from leasing to drilling to production, the industry fell into a range that IO economists generally view as reasonably competitive.[1] A high point of the proceedings for me was when the judge interjected a question at this point in my testimony: "are you saying that if BP were to disappear, someone else would step in and exploit those assets?" I suspect it was hard at this point for the Justice Department's legal team to not let out a cry of delight, as that was indeed the point I was leading up to.

The overall process of participating in this legal matter was exhilarating and the opportunity deeply satisfying. But it did require long hours and more than a little pressure. The court held us to a strict timetable, which translated into some late nights and anxiety at the prospect of not getting something key finished in time. There was a hard deadline for the first report, after which there was a relatively tight deadline for filing a response report, and then a very tight deadline for filing a rebuttal report. Shortly after this third report was filed I was deposed, a process that entails sitting through several hours of questioning where the precise wording of the questions is of potentially critical importance – which implies that one must pay very close attention to every word. Needless to say, this process can be exhausting. By comparison, dealing with disaffected authors or recalcitrant referees is relatively stress free.

But despite these various issues, the overall experience was positive. The lawyer I worked for asked me at one point if I would do this again. My answer was yes.

References

Mason, Charles F. "Concentration Trends in the Gulf of Mexico Oil and Gas Industry." *Energy Journal* 2015, v36 (SI1), pp. 215-236.

[1] For details, see Mason (2015).

Natural Resource Damage Assessment … May be Hazardous to Your Health

John C. Whitehead[1]
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Many papers that address the 1989 Exxon Valdez oil spill begin with a description of the spill. This one begins differently, with me working on my 1989 dissertation in a graduate student office and watching the news on a 13 inch black and white television. My dissertation, looking at the effects of substitutes on the value of natural resources that generate existence value estimated with the contingent valuation method (CVM) was, unfortunately, timely. I defended in October 1989, a couple of months after I began my first semester as an assistant professor at East Carolina University (ECU). Since I lived only two hours away from the workshop that Kerry Smith ran at North Carolina State University (NCSU), I was fortunate to be exposed to many of the players and much of the economic research surrounding the spill. At the time, however, I was naive about how big of a deal the spill was legally and for the economics profession. For example, I was invited to present the lead paper from my dissertation at the NCSU workshop and was looking for some comments on how Glenn Blomquist (my dissertation advisor) and I might improve the paper.2 Instead there seemed to be weird pointed questions and a side comment or two about how I should be working for Exxon (my thesis was that existence values may be biased upwards due to lack of information about substitutes). I had absolutely no idea where those comments were coming from because environmental economists didn't work for Exxon (at least they had never advertised in the JOE), did they?

Fast forward. After spending a little over twenty years working on issues surrounding the CVM and other stated preference methods, I was invited to work as a consultant for the State of Florida on a damage assessment resulting from the BP/Deepwater Horizon oil spill (Huffaker, Clouser and Larkin 2012, Larkin 2016). The purpose of this essay is to present a first person account of the odd experiences associated with that effort, but I'll begin with the great CVM debate to provide some background.

The Exxon Valdez Oil Spill and the CVM Debate

As alluded to above, following the Exxon Valdez oil spill, the state of Alaska hired consulting economists to conduct a study estimating economic damages. Exxon hired consulting economists to refute those studies. The argument became known as "the contingent valuation debate." At the time of the spill, the CVM was a promising nonmarket valuation approach with two book length treatments published in the late 1980s. Cummings, Brookshire and Schulze (1986) with funding from the US Environmental Protection Agency (EPA), staged a conference that resulted in a book that looked critically at the method with little of the harsh criticism that would come a few years later. The focus was on developing "referencing operating conditions" that would make the CVM more accurate. This was the book I read when I took the natural resource economics course that Glenn Blomquist was teaching for the department of agricultural economics at the University of Kentucky.[3]

As I was writing my dissertation and reading the literature, I became aware of the second book on CVM that was written in the 1980s. Mitchell and Carson (1989) went on to win the AERE Publication of Enduring Quality Award in 1998. This book was cited in a number of journal articles in the late 1980s as forthcoming or in press. I was anxious to get a copy as it seemed to make a lot of points that would address many of the problems about the validity and reliability of willingness to pay estimates. It still addresses many of the issues that remain contentious in such a way that I wonder what all the fuss is about. Of course, this attitude is inappropriate when millions of dollars are at stake.

Following the Exxon Valdez spill there was much research activity surrounding the CVM. I attended a number of sessions and panels at the Allied Social Science Associations (ASSA) and Southern Economic

[1] While this essay may be a big professional mistake, I thank John Loomis for inviting me to write it and for a number of comments and suggestions.

[2] Many thanks to Glenn for keeping me out of a lot of trouble back then.

[3] Many thanks to Glenn for teaching this course when the department of agricultural economics was understaffed so that I could round out my field in environmental economics. It was years later that I realized that an economics professor teaching across colleges at the University of Kentucky in the late 1980s was probably not the easiest thing to achieve.

Association (SEA) meetings. It was exciting for a young economist to hear the big shots discussing things that I was working on. Researchers funded by Exxon were extremely negative about the CVM when some of them had seemed fairly optimistic about the method before the oil spill. Researchers funded by the State of Alaska and, I think, the Federal Government (this one still seems to be a top-secret study) were more positive. None of the positive or negative results associated with the Natural Resource Damage Assessment (NRDA) had been published at this point (and there was no such thing as the WWW or PDF) but everyone except me seemed to know what these results looked like.

I went to the ECU library and checked out the CVM critique book by Hausman et al. (1993) and paid the fines after I kept it way beyond the due date.[4] The transcripts of the Q&A after the Exxon-funded studies were presented at the Exxon-funded conference made the conference sound quite contentious. I attended the conference on the CVM organized by the US Department of Energy and the EPA in Reston, Virginia (Bjornstad and Kahn, 1996). This was a fascinating few days as it was especially combative with Exxon-funded, State of Alaska and Federal Government (I think) funded economists on the program and in attendance. Sparks flew. The *Journal of Economic Perspectives* (*JEP*) published a symposium on the CVM in 1994 (Portney 1994, Hanemann 1994, Diamond and Hausman 1994). I always wonder what a naïve reader thinks when picking up these *JEP* articles, but they remain the best summary of the issues and strident tone that arose around the CVM in the early 1990s.

Finally, I attended the 1996 AERE Workshop on combining revealed and stated preference data (along with my ECU colleagues Tim Haab and Ju-Chin Huang[5]). The theme of this conference seemed to be informally "beyond CVM." Conjoint analysis (these days, "discrete choice experiments" or DCE) was the new thing and proven by assertion to be far superior to the silly CVM. It seems as though everyone stopped doing CVM and started doing DCE at about this time. I was inspired to pursue more research on joint estimation of revealed and stated preference data and had hopes of moving my own research agenda "beyond CVM."

BP/Deepwater Horizon (DWH) Blowout and the Revival of the CVM Debate

The BP/DWH blowout occurred on April 20, 2010. A subsequent email sent to the RESECON listserv announced the second edition of the original Desvousges et al. (1992) Research Triangle Institute (RTI) Nonuse Values study (Whitehead, 2010). This was my first inclination that BP would not be a fan and that the CVM debate wasn't over. I signed a consulting contract with the University of Florida late in 2010, our work began, and we produced a report by March 2012 (Larkin 2016). A settlement was reached in June 2015 and the State of Florida gave us permission to release our results in November 2015.[6]

I still wasn't totally convinced that the CVM was going to be an issue for the economics profession (hadn't CVM been replaced by DCE?) until I was asked to read a draft of Kling et al. (2012) and provide comments for a second *JEP* symposium on contingent valuation. Their paper is a very balanced and accurate appraisal of the state of the art of the CVM. There are plenty of warts on the CVM but it is a method that can provide some useful information in a number of contexts. This also was the theme of Richard Carson's (2012) *JEP* article. Jerry Hausman's (2012) piece, provocatively titled "Dubious to Hopeless," came down pretty hard on the CVM.

After the *JEP* symposium appeared, I wrote a blog post pointing out that Hausman's piece did not really review the CVM literature and there had been, in fact, some new developments since 1994 (Whitehead, 2012). One email led to another and Tim Haab (my co-blogger at www.env-econ.net), Matt Interis, Dan Petrolia and I wrote a long cathartic comment without much hope of publication. We didn't even bother to ask the *JEP* if they would entertain the idea of publication. We proposed the paper to the editors of AERE's *Review of Environmental Economics and Policy* but they felt that a more balanced approach was necessary (i.e., a full blown symposium). Fortunately, the editors of the Agricultural & Applied Economics Association's *Applied Economic Perspectives and Policy* (*AEPP*) were willing to consider the paper. We submitted it; it was sent out for review, revised in response to reviews and published (Haab et al. 2013).

[4] I've since bought the paperback.

[5] Sour grapes / I told you so: the abstract that we submitted to the workshop was rejected but went on to be published in *JEEM* ☺.

[6] The first paper from the NRDA study was presented at the Center for Natural Resource Economics & Policy (CNREP) 2016 conference (click **here**) on March 22, 2016 in New Orleans and at a seminar in the Department of Economics at the University of North Carolina at Charlotte on, no fooling, April 1, 2016 (Whitehead et al. 2016).

During the time that the *AEPP* paper was in the publication process, I presented the outline during a keynote lunchtime talk at CNREP 2013 (titled "Contingent Valuation: From Dubious to Hopeless?").[7] One of my slides mentioned my constant worry that since MIT vs. App State isn't a fair intellectual fight, there was some hesitation on my part to take on this challenge. In fact, I was terrified that we were making a huge mistake in sticking our necks out. But the only pushback that we've received so far is a comment on our paper by Desvousges, Mathews and Train (2016). In their comment they state that they were unaware of studies that correct for hypothetical bias, focus on the adding up test as a test of the adequacy of scope and reject empirical results from the consequentiality literature, among other things. We wrote a reply with a long and cheeky title (Haab et al. 2016). We provided references to papers that correct for hypothetical bias, describe studies that assess adequate/plausible sensitivity to scope without the adding up test, and admit that the measurement of consequentiality warrants additional study.

Adequate/Plausible Responsiveness to Scope

At this point I'm losing track of the timeline. But sometime in 2011, I think, I agreed to review a paper for *Ecological Economics* that contained a broad but shallow literature review, negative adding up test evidence from an unpublished NRDA (unpublished beyond obscure court documents), and a negative conclusion about the CVM. I recommended rejection with some suggestions that would make the paper more scholarly and publishable (e.g., a meta-analysis of the determinants of scope effects). When I received a revised version of the paper to review it was much improved but still had some issues. I made some more suggestions and recommended a revise and resubmit. The next time I saw the paper it was published (Desvousges, Mathews and Train 2012). I tried to ignore this development but given that I didn't think the paper had reached its potential I decided to write a comment. My comment turned into a full blown paper with empirical results from data borrowed from the literature and another cheeky title (Whitehead 2016). I'll briefly describe these two papers.

Desvousges, Mathews and Train (2012), in the context of an NRDA case unrelated to BP/DWH, review the scope effects literature in search of any paper that demonstrates "adequate" responsiveness.[8] This phrase is from the National Oceanic Atmospheric Administration (NOAA) Panel on Contingent Valuation (Arrow et al. 1993) but as Arrow et al. (1994) point out, a better term is plausible.[9] Nevertheless, Desvousges, Mathews and Train (2012) equate adequate responsiveness with the "adding up test" which was suggested by Hausman (1993). Arrow et al. (1994) also point out that assessing adequacy is about achieving economic, in addition to, statistical significance. Nevertheless, Desvousges, Mathews and Train (2012) summarize their review in terms of statistical significance. Studies that have statistically significant scope effects are classified as studies that "pass" the scope test. Studies that do not have statistically significant scope effects are classified as studies that "fail" the scope test. Studies that include both statistically significant and insignificant scope effects are classified as studies with "mixed" results. They find that only a little more than a third of all scope effect studies "pass."

A number of my own papers were included in the review so I know intimately that this classification system is a superficial way to summarize the literature. One of my papers was classified as "pass." The version that we submitted to the journal included a number of sensitivity tests showing under which specifications the scope coefficient was significant or not (this version is available upon request). In one of those journal reviews that you'll never forget, an anonymous referee commented that this sort of sensitivity analysis was "nonsense." The editor agreed so we presented a single specification that "passed" the test. Another study was classified as having "mixed" results. In this paper, again, we made an honest effort to show if and when the data exhibited sensitivity to scope. As a result of including this sensitivity analysis the study was classified as "mixed" in the Desvousges, Mathews and Train (2012) classification. I do not doubt that a number of other studies classified as having "mixed" results have authors who might object to the classification.

Desvousges, Mathews and Train (2012, 2016) claim that only a few studies present a test of scope adequacy (i.e., the adding up test). In doing so, they have overlooked the fact that most every scope effect paper presents information on adequacy/plausibility. Rarely does a scope effect paper present the statistical test without presenting the effect size – the difference in willingness to pay for

[7] Click **here** for Program and Abstracts.

[8] See also the comment and reply (Chapman et al. 2016, Desvousges, Mathews and Train 2016).

[9] While editing this essay I realized that Kerry Smith and Laura Taylor pointed out that Arrow et al. clarified the adequate/plausible terminology 20 years ago (Smith and Osborne 1996, p. 288). My apologies to them for the oversight in Whitehead (2016).

base and scope conditions (i.e., the scope effects literature does not have a problem using p-values). It is this difference that can be used to judge the "plausibility" of scope effects. In Whitehead (2016), I show that a simple scope elasticity statistic can be used to assess plausibility and provide several examples.

A Revealed Preference Estimate of the Damages of the BP/DWH Oil Spill

Sergio Alvarez was a graduate student writing his dissertation at the University of Florida during the time that the NRDA study for the state of Florida was conducted. In a non-State of Florida NRDA effort (Larkin 2016), Alvarez et al. (2014), published in the *Journal of Environmental Management* (*JEM* … with one E), estimated the recreational fishing losses from the oil spill to be $585 million. Kenneth Train called three of the four authors (I was the lucky one) raising issues that he felt rose to the level of retraction (DuBois 2016). I had been an associate editor at *JEM* for four years and had not known an economics paper to draw such interest. We declined the offer to retract the paper and, instead, I sent the editor of *JEM* an email describing the situation and asking if we could write an addendum with some sensitivity analysis clarifying some of the issues raised in those phone calls. The editor was open to the idea but made it clear that the addendum would be a corrigendum (i.e., correction). While we didn't think we had made a mistake worse than oversimplification of the aggregation rule (ok, that's a mistake), we wrote the corrigendum and it was published (Alvarez et al. 2015a). The corrigendum presented $78 million as our best estimate of the recreational fishing damages from the oil spill.

We received a comment on the paper and corrigendum from an associate editor and wrote a reply with an introduction that contained some of the backstory to provide context. The associate editor sent both the comment and reply out for peer review. We were asked to maybe tone down our response, which we did in a revision, and both have been published (Train 2015, Alvarez et al. 2015b). The comment focused on several standard issues in recreation demand such as the appropriate cost per mile. We used a cost per mile estimate that is at the upper end of the range, from the IRS reimbursement rate that includes fixed and variable costs. Train wrote that this is incorrect and no one else has used such an inappropriately high number. Hang et al. (2016) pushed the cost per mile issue even further and have a forthcoming paper that conducts a literature review and empirical test of variable vs total costs per mile. Hang et al.'s literature review finds that the most egregious sin is a failure to report the source of the cost per mile estimate. Another objection raised by Train (2015) is "time travel". The Alvarez et al. (2014) model is intertemporal and when fishing sites close, anglers are allowed to go back in time to fish at other sites. While time travel is dangerous and should never be done without the proper training, its use in our model leads to a more conservative damage assessment. The study was not part of the Florida NRDA (Larkin 2016), but NRDA is the appropriate context and conservative assumptions are preferred.[10]

Conclusions

What lessons have I learned from all this? I experienced first-hand the benefits and costs of NRDA consulting work for an academic economist. The costs include the unusually long time lag between data collection/analysis and public reporting of results, opportunity costs, distraction and negative reputational effects. The long time lag is especially frustrating since most researchers enjoy sharing their work. Our report was completed in March 2012. Since the BP settlement in November 2015 we are only now allowed to release our results and papers have begun trickling out. There are direct and indirect opportunity costs of NRDA work. The direct opportunity cost is the research that did not occur while the NRDA report was being developed. The indirect opportunity cost is the research that would have been conducted while numerous comments and replies were being written (see above). I have a number of co-authors on other projects who have suffered as a result. Finally, accepting the label of "consultant" raises the risk of negative reputational effects as others believe your work has been captured by sponsor bias and you may be forever tainted (Ioannidis and Doucouliagos 2013). The benefits of NRDA work are the consulting fees, the intrinsic benefit of working on real world problems, enough research funding to collect high quality data (although the time lag and legal constraint against pushing the frontier of knowledge limits publication possibilities) and more citations than my research deserves.

[10] It has not escaped my attention that papers by Tim Haab and John Whitehead are disproportionately cited by Hang et al. (2016) (my 2005 American Fisheries Society presentation and accompanying unpublished working paper? really?). This might lead a naïve reader to think that we are two of the leading lights in the recreation demand literature. I assure the reader that, at least in my case, I have not risen above practitioner status.

I have been (un)fortunate enough to have been deeply involved in the second CVM Debate. I think of this second CVM Debate as “Part Deux,” i.e., a parody of a spoof (e.g., *Hot Shots! Part Deux*). Nevertheless, much like the first CVM debate, Part Deux has been enlightening to some extent. Personally, I have been forced to think through a number of important issues more deeply than if the debate was not taking place (e.g., Whitehead 2016). This will improve my future research. At the present it is not clear if “Part Deux” will advance economic knowledge[11].

Randall (1993, 1998) points out that much of the first contingent valuation debate (e.g., scope effects literature) was a matter of looking for the “critical test” that would either reject or fail to reject the method itself. In the 1990s the critical test became the split-sample (external) scope test (Whitehead 2016). The adding up test is the most recent example of the search for the critical test of the CVM. Pursuit of the critical test is not the most appropriate way to pursue social science research. Hopefully, future research with the CVM will continue much the way it proceeded between 1996 and 2010 (without the high stakes) and the cumulative effect of a large number of studies will lead to a better understanding of the accuracy of the CVM. Research should be conducted to advance knowledge and not in the context of divvying up millions of dollars in court proceedings. Naïve, I know.

References

Alvarez, Sergio, Sherry L. Larkin, John C. Whitehead, and Tim Haab. "A revealed preference approach to valuing non-market recreational fishing losses from the Deepwater Horizon oil spill." *Journal of Environmental Management* 145 (2014): 199-209.

Alvarez, Sergio, Sherry L. Larkin, John C. Whitehead, and Tim Haab. "Corrigendum: A revealed preference approach to valuing non-market recreational fishing losses from the Deepwater Horizon spill (*Journal of Environmental Management* 145, 2014, 199–209)." *Journal of Environmental Management* 150 (2015a): 516-518.

Alvarez, Sergio, Sherry L. Larkin, John C. Whitehead, and Tim Haab. "Reply to “Comment on: A revealed preference approach to valuing non-market recreational fishing losses from the deepwater horizon oil spill and its corrigendum”." *Journal of Environmental Management* (2015b).

Arrow, Kenneth, Robert Solow, Paul Portney, Edward E. Leamer, Roy Radner and Howard Schuman. Report of the NOAA Panel on Contingent Valuation. January 11, 1993.

Arrow, Kenneth, Edward E. Leamer, Howard Schuman and Robert Solow, Appendix D in “Comments on Proposed NOAA/DOI Regulations on Natural Resource Damage Assessment.” U.S. Environmental Protection Agency. October 1994.

Bjornstad, David J., and James R. Kahn. The *Contingent Valuation of Environmental Resources: Methodological Issues and Research Needs*. Edward Elgar Publishing Ltd, 1996.

Carson, Richard T. "Contingent valuation: A practical alternative when prices aren't available." *Journal of Economic Perspectives* 26, no. 4 (2012): 27-42.

Chapman, David, Richard Bishop, Michael Hanemann, Barbara Kanninen, Jon Krosnick, Edward Morey and Roger Tourangeau. 2009. Natural Resource Damages Associated with Aesthetic and Ecosystem Injuries to Oklahoma’s Illinois River System and Tenkiller Lake. Available **here**.

Chapman, David J., Richard C. Bishop, W. Michael Hanemann, Barbara J. Kanninen, Jon A. Krosnick, Edward R. Morey, and Roger Tourangeau. "On the adequacy of scope test results: Comments on Desvousges, Mathews, and Train." *Ecological Economics* 130 (2016): 356-360.

Cummings, Ronald G., David S. Brookshire, and William Schulze. *Valuing Environmental Goods: An Assessment of the Contingent Valuation Method*. Rowman & Littlefield Pub Incorporated, 1986.

[11] Co-editor’s note: The federally funded NOAA BP oil spill damage valuation studies were publicly unveiled at the June 2016 AERE Summer Conference. These presentations suggest there were several advancements made in CVM.

Desvousges, William H., F. Reed Johnson, Richard W. Dunford, Kevin J. Boyle, Sara P. Hudson and K. Nicole Wilson. *Measuring Nonuse Damages Using Contingent Valuation: An Experimental Evaluation of Accuracy*. Monograph prepared for Exxon Company, U.S.A., Research Triangle Park: Research Triangle Institute. 1992.

Desvousges, William, F. Reed Johnson, Richard Dunford, Kevin Boyle, Sara Hudson and K. Nicole Wilson. *Measuring Nonuse Damages Using Contingent Valuation: An Experimental Evaluation of Accuracy*. Second Edition, RTI Press, RTI International. (2010).

Desvousges, William, Kristy Mathews, and Kenneth Train. "Adequate responsiveness to scope in contingent valuation." *Ecological Economics* 84 (2012): 121-128.

Desvousges, William, Kristy Mathews, and Kenneth Train. “From Curious to Pragmatically Curious: Comment on ‘From Hopeless to Curious? Thoughts on Hausman's Dubious to Hopeless Critique of Contingent Valuation”.” *Applied Economic Perspectives and Policy* 38, no. 1 (2016): 174-182.

Desvousges, William, Kristy Mathews, and Kenneth Train. “Reply to ‘On the adequacy of scope test results: Comments on Desvousges, Mathews, and Train’,” *Ecological Economics* 130 (2016): 361–362.

Diamond, Peter. "Testing the internal consistency of contingent valuation surveys." *Journal of Environmental Economics and Management* 30, no. 3 (1996): 337-347.

Diamond, Peter A., and Jerry A. Hausman. "Contingent valuation: Is some number better than no number?" *Journal of Economic Perspectives* 8, no. 4 (1994): 45-64.

DuBois, Shelley, “How much do oil spills cost? Controversy over paper oozes into larger debate,” *Retraction Watch*, March 31, 2016.

Haab, Timothy C., Matthew G. Interis, Daniel R. Petrolia, and John C. Whitehead. "From hopeless to curious? Thoughts on Hausman's “dubious to hopeless” critique of contingent valuation." *Applied Economic Perspectives and Policy* (2013): 35(4):593-612.

Haab, Timothy C., Matthew G. Interis, Daniel R. Petrolia, and John C. Whitehead. "Interesting Questions Worthy of Further Study: Our Reply to Desvousges, Mathews, and Train's (2015) Comment on Our Thoughts (2013) on Hausman's (2012) Update of Diamond and Hausman's (1994) Critique of Contingent Valuation." *Applied Economic Perspectives and Policy* 38, no. 1 (2016): 183-189.

Hanemann, W. Michael. "Valuing the environment through contingent valuation." *The Journal of Economic Perspectives* 8, no. 4 (1994): 19-43.

Hang, Derrick, Daniel McFadden, Kenneth Train, and Ken Wise. "Is Vehicle Depreciation a Component of Marginal Travel Cost? A Literature Review and Empirical Analysis." *Journal of Transport Economics and Policy* 50(2):1-19, 2016.

Hausman, Jerry. (ed). *Contingent Valuation: A Critical Assessment.* Elsevier Science Publishers, Amsterdam, The Netherlands 1993.

Hausman, Jerry. "Contingent valuation: from dubious to hopeless." *Journal of Economic Perspectives* 26, no. 4 (2012): 43-56.

Huffaker, Ray G., Rodney L. Clouser and Sherry L. Larkin, “Contract for Analytical Services Related to the Deepwater Horizon Disaster: Estimation of Lost Indirect and Passive Use Economic Value to Floridians,” Food and Resource Economics Department, University of Florida, Final Report, March 29, 2012.

Ioannidis, John, and Chris Doucouliagos. "What's to know about the credibility of empirical economics?" *Journal of Economic Surveys* 27, no. 5 (2013): 997-1004.

Kling, Catherine L., Daniel J. Phaneuf, and Jinhua Zhao. "From Exxon to BP: Has some number become better than no number?" *Journal of Economic Perspectives* 26, no. 4 (2012): 3-26.

Larkin, Sherry. “The Deepwater Horizon Oil Spill: Overview of Process and Economic Loss Research for the State of Florida,” *AERE Newsletter* 36, no. 1 (2016): 24-28.

Mitchell, Robert Cameron, and Richard T. Carson. *Using Surveys to Value Public Goods: the Contingent Valuation Method*. Resources for the Future, 1989.

Portney, Paul R. "The contingent valuation debate: why economists should care." *The Journal of Economic Perspectives* 8, no. 4 (1994): 3-17.

Randall, Alan. "What practicing agricultural economists really need to know about methodology." *American Journal of Agricultural Economics* 75, no. Special Issue (1993): 48-59.

Randall, Alan. "Beyond the crucial experiment: mapping the performance characteristics of contingent valuation." *Resource and Energy Economics* 20, no. 2 (1998): 197-206.

Smith, V. Kerry and Laura L. Osborne, “Do contingent valuation estimates pass a ‘scope’ test? A meta-analysis,” Journal of Environmental Economics and Management 31, no. 3 (1996): 287-301.

Train, Kenneth. "Comment on “A revealed preference approach to valuing non-market recreational fishing losses from the Deepwater Horizon Oil Spill” and its “Corrigendum” by Alvarez et al." *Journal of Environmental Management* (2015).

Whitehead, John, “The re-release of the Exxon-funded RTI contingent valuation critique,” The Environmental Economics Blog, click **here**, November 3, 2010.

Whitehead, John, “What I did on election night,” The Environmental Economics Blog, click **here**, November 6, 2012.

Whitehead, John C. "Plausible responsiveness to scope in contingent valuation." *Ecological Economics* 128 (2016); 17-22.

Whitehead, John C. Tim Haab, Sherry Larkin, John B. Loomis, Sergio Alvarez and Andrew Ropicki, “Lost Recreational Value from the Deepwater Horizon Oil Spill Using Revealed and Stated Preference Data,” Appalachian State University Department of Economics Working Paper 16-16, click **here**, September 2016.

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