  #1 Public Finance and Budgeting, #1 Environmental Policy and Management, #1 Nonprofit Management

• Newly opened Paul H. O’Neill Graduate Center

• Celebrating 45 years of advancing knowledge and preparing leaders for the greater good

SPEA’s research and teaching faculty of more than 190 include these scholars:

- John D. Graham, Dean
- Keith Belton
- Sanya Carley
- Denvil Duncan
- David Good
- Brad Heim
- Kerry Krutilla
- John Mikesell
- Ashlyn Nelson
- Kosali Simon
THANK YOU TO OUR FOUNDING INSTITUTION

EVANS SCHOOL
OF PUBLIC POLICY & GOVERNANCE
UNIVERSITY of WASHINGTON

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Announcing the SBCA Dissertation Award 30
Dear friends and colleagues,

Welcome to the 2018 Society for Benefit-Cost Annual Conference and Meeting! We have 42 excellent sessions on a wide range of topics. The presentations reflect the global scope of our field and Society and report research from Canada, China, Côte d’Ivoire, East Africa, the European Union, France, Germany, Haiti, India, Italy, the Netherlands, Sudan, Uruguay, the U.S., and the World Bank. The Society continues to grow and flourish thanks to your support.

In addition to the panels, we hope you enjoy networking at our evening receptions on Wednesday through Friday. At lunch on Thursday we will welcome keynote speaker, Tomas Philipson, Daniel Levin Professor of Public Policy Studies at the University of Chicago Harris School of Public Policy and Member of the White House Council of Economic Advisors. He will speak on “The Economics of the Opioid Epidemic.” On Friday morning, we will have a plenary session where Office of Information and Regulatory Affairs Administrators Sally Katzen (1993 – 1997), John Graham (2001 – 2006), Sudan Dudley (2007 – 2009), and Howard Shelanksi (2013 – 2017) will share their experience. On Friday over lunch we will have our membership meeting, which will include discussion of our plans for continued growth. Please feel free to contact any of us with your suggestions and ideas.

We are enormously indebted to the members of the 2018 Program Committee, whose hard work contributed to the varied and interesting program:

- **Daniel Acland** (University of California - Berkeley)
- **Mark Cohen** (Vanderbilt University)
- **Joseph Devlin** (Environment and Climate Change Canada)
- **Mark Dickie** (University of Central Florida)
- **Chris Dockins** (U.S. Environmental Protection Agency)
- **Elisabeth Gilmore** (Clark University)
- **Sandy Hoffmann** (U.S. Department of Agriculture)
- **Margaret Kuklinski** (University of Washington)
- **David Luskin** (U.S. Federal Highway Administration)
- **Kyle Rozema** (University of Chicago Law School)
- **Judy Temple** (University of Minnesota)
- **Emile Quinet** (Ecole des Ponts-Paris)
- **W. Kip Viscusi** (Vanderbilt University)
- **Daniel Wilmoth** (U.S. Small Business Administration)

We would also like to thank **American Chemistry Council**, **ExxonMobil** and the **GWU Regulatory Studies Center** for helping to sponsor this conference. We also thank our Organizational Affiliates, Premium Members and individual donors, who are listed on the following pages.

And finally, we would like to thank you, SBCA’s members and participants, for your many contributions to the Society, to this conference, and to the field of BCA. We hope that we will see you at future conferences and other Society events.
SAVE THE DATE

SBCA ANNUAL CONFERENCE AND MEETING

MARCH 13 – 15, 2019 | WASHINGTON, DC
PATRON

The Brattle Group
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Econometrica, Inc.*
ExxonMobil Biomedical Sciences, Inc.
Industrial Economics, Inc.*
Mathematica Policy Research*
NERA Economic Consulting*

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Claremont Graduate University
Fisheries and Oceans Canada
The George Washington University Regulatory Studies Center*
Goldman School of Public Policy, University of California, Berkeley
Indiana University School of Public and Environmental Affairs
Institute on Health Economics, Health Behaviors and Disparities, Cornell University
Labour Program, Employment and Social Development Canada
Robert M. La Follette School of Public Affairs, University of Wisconsin-Madison
Optimal Solutions Group
Trachtenberg School of Public Policy and Public Administration, The George Washington University
University of Chicago Harris School of Public Policy
Vanderbilt University’s Ph.D. Program in Law & Economics
University of Kentucky Gatton College Department of Economics

* Charter Affiliates
PREMIUM MEMBERS

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Sandra Archibald
Luc Baumstark
Richard Belzer
Ronald Bird
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Kenneth Chomitz
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W. Kip Viscusi
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John Wells
John Yinger

Job Opening at The Pew Charitable Trusts

The Pew–MacArthur Results First Initiative seeks a technical assistance officer to work with selected state and local governments to help them understand and use evidence, primarily by customizing a benefit–cost model. The officer will also help develop and implement related resources. Candidates should have at least eight years of relevant work experience, knowledge of evaluation methodologies, and demonstrated training or teaching experience.

For more information, please visit pewtrusts.org/careers and search for job ID 2017-5309 or contact sscott@pewtrusts.org.
Established in 2007, the Society is an international organization dedicated to the advancement, exchange of ideas, and research related to benefit-cost analysis (BCA), cost-effectiveness analysis, risk-benefit analysis, applied welfare economic analysis, and damage assessment.

The Society’s primary goals are:

- Bring together individuals from diverse disciplines and from different countries and provide them opportunities to foster collaboration and exchange information, ideas, and methodologies;
- Encourage applications of benefit-cost analysis and applied welfare economics, and promote dialogue between practitioners;
- Facilitate the development and dissemination of knowledge about benefit-cost and applied welfare analysis;
- Develop and update standards of practice; and
- Foster methods to improve communication and consideration of benefit-cost methods and results.

2018 BOARD OF DIRECTORS

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Joseph (Joe) Devlin (Environment & Climate Change Canada)
Massimo Florio (University of Milan)
Sandy Hoffmann (U.S. Department of Agriculture)
Thomas (Tom) Kniesner (Claremont Graduate University)
Emile Quinet (Ecole des Ponts-ParisTech)
Fran Sussman (Independent Consultant)
Gary Van Landingham (Florida State University)
The Society for Benefit-Cost Analysis has a continuously growing membership working in numerous policy areas, including scholars and practitioners from academia, nonprofits, businesses, and government agencies around the world. The table below summarizes the benefits associated with each level of annual organizational and individual participation.

<table>
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<td>Complimentary digital subscription to Journal of Benefit-Cost Analysis</td>
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<tr>
<td>Access to member contact information</td>
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<tr>
<td>Eligible to serve on Society’s Board of Directors</td>
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<tr>
<td>Discounted registration for Society’s annual conference</td>
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<td>Public recognition at all Society events</td>
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<td>Listing on official Society correspondence except letters</td>
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<td>Individual Basic Membership(s), including all related benefits</td>
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<td>Two</td>
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<td>Complimentary ad in conference program or exhibit table at conference</td>
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<tr>
<td>Complimentary ad in conference program and exhibit table at conference</td>
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</table>

To join the SBCA, please visit [http://benefitcostanalysis.org/membership](http://benefitcostanalysis.org/membership). Membership information and forms will also be available at the conference registration table.
JOURNAL OF BENEFIT-COST ANALYSIS

The only journal devoted exclusively to benefit-cost analysis, the leading evidence-based analytical method for determining if the consequences of specific public actions make society better off overall.

THE JBCA IS ATTRACTING ATTENTION

- Council of Economic Advisors 2017 report The Underestimated Cost of the Opioid Crisis cited the 2017 JBCA article by W. Kip Viscusi and Clayton Masterman “Income Elasticities and Global Values of a Statistical Life.”
- The 2015 article “Estimating the Job Impacts of Environmental Regulation” by Anna Belova, Wayne B. Gray, Joshua Linn, Richard D. Morgenstern was referenced by a 2017 Huffington Post article, cited in two Dutch government policy documents, and on Twitter by the Association of Air Pollution Control Agencies.

SYMPOSIA ON BCA AND PUBLIC POLICY

- Valuing Mortality Risk Reductions in Low- and Middle Income Countries (Summer 2017)
- Benefit-Cost Analysis of Policing Practices (Fall 2017)
- Application of BCA in Europe – Experiences and Challenges (Spring 2018)

BEST ARTICLE FOR 2017

Congratulations to Dennis C. Cory and Lester D. Taylor whose article titled “On the Distributional Implications of Safe Drinking Water Standards” appeared in the JBCA 8,1 (Spring 2017) issue. Upon the recommendation of the Best Article Award Committee, the Editors are pleased to recognize this article as the best of 2017. Committee members Tom Kniesner, Clark Nardinelli, and Fran Sussman offer the following about the article:

The importance of the article is threefold. (1) It provides an empirical example of the complexity of including environmental justice in environmental standards and enforcement. (2) It generally supports the Health-Health analysis view that benefit cost analysis based on short-run potential Pareto improvement can result in policies that, after consumers adjust their expenditures, actually decrease social welfare. (3) This finding may be generalized to benefit-cost analysis of other public policy including nudges.

Editors Glenn C. Blomquist and William H. Hoyt and Managing Editor Mary Kokoski gratefully acknowledge the support of many including Editorial Board members, authors, reviewers, and especially the MacArthur Foundation.

JBCA EDITOR SEARCH TO BE CONDUCTED IN 2018

Glenn Blomquist and Bill Hoyt will be completing their tenure as Editors at the end of 2018. The JBCA will therefore be inviting applications for the editorship of the journal to start in January 2019. Look for a request for proposals from the Society for Benefit-Cost Analysis around July 2018. In the meantime, inquiries may be directed to Lynn Karoly (karoly@rand.org), SBCA Past President and the chair of the JBCA Editor Search Committee.
EDITORIAL BOARD

Editors-in-Chief: Glenn Blomquist and William Hoyt (University of Kentucky)
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David Salkever (University of Maryland)
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Richard Zeckhauser (Harvard University)
Richard Zerbe (University of Washington)

"This is a superb journal, with a large number of truly excellent contributions. In terms of thinking about regulation and cost-benefit analysis, it is indispensable reading.”
Cass R. Sunstein, Harvard University

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March 14-16 | The George Washington University
Marvin Center, Washington, DC

DETAILED PROGRAM AGENDA

2018

10TH ANNUAL CONFERENCE AND MEETING

IMPROVING THE THEORY & PRACTICE of Benefit-Cost Analysis
Conference registration includes meals (breakfast, break refreshments, lunch and evening receptions) plus other activities listed below on March 15 and 16, as well as the opening reception on March 14.
### THURSDAY, MARCH 15  
**SESSION 1 | 9:00-10:30AM**

#### ROOM A  
**Amphitheater**

<table>
<thead>
<tr>
<th>A1</th>
<th>Methods for BCA in Low- and Middle-Income Countries</th>
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</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Lisa Robinson, <em>Harvard University, Center for Health Decision Science and Center for Risk Analysis</em></td>
</tr>
</tbody>
</table>
| Panelists | James Hammitt, *Harvard University*  
James Neumann, *Industrial Economics*  
Ken Strzepak, *MIT Joint Program on the Science and Policy of Global Change* |

#### ROOM B  
**Marvin 309**

<table>
<thead>
<tr>
<th>B1</th>
<th>The Distribution of the Benefits and Costs of Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Cary Coglianese, <em>University of Pennsylvania Law School</em></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
</tbody>
</table>
*Auto Regulation: Is It Regressive?*
John Graham, *Indiana University*  
*The Distribution of Costs and Benefits from Regulation by the U.S. Occupational Safety and Health Administration*
John Mendeloff, *University of Pittsburgh*  
*Distributional Impacts of Environmental Regulation*
Lori Bennear, *Duke University*  
*Electricity Restructuring and the Distribution of its Effects*
David Spence, *University of Texas* |

#### ROOM C  
**Marvin 301**

<table>
<thead>
<tr>
<th>C1</th>
<th>The Value of Recreational Uses of Natural Resources and Public Lands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Trudy Ann Cameron, <em>University of Oregon</em></td>
</tr>
<tr>
<td>Discussant</td>
<td>Patrick Lloyd-Smith, <em>University of Saskatchewan</em></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
</tr>
</tbody>
</table>
*Determinants of Demand for Campsites: A Random-Utility Site Choice Model using the Recreation Information Database for California*
William P. Wheeler, *University of Oregon, Department of Economics*  
*The Welfare Consequences of Escaping Recreation Derbies: Evidence from Surveys of Headboat Anglers*
Vic Adamowicz, *University of Alberta*  
*Estimating Recreation Access Value to National Forest Wilderness*
Craig Landry, *University of Georgia*  
*The Recreational Value of Birding Opportunities: Supplementing eBird citizen science data with auxiliary survey dat*
Sonja Kolstoe, *Salisbury University* |
### D1 The Implications of Behavioral Economics and Theory for BCA

**Chair**  
David Weimer, *University of Wisconsin*

**Discussant**  
Kyle Rozema, *University of Chicago*

**Presentations**  
- Behavioral Economics in BCA: Measuring Unrecognized Benefits  
  Tim Brennan, *University of Maryland, Baltimore County*
- What's In, What's Out? Towards a Rigorous Definition of the Boundaries of BCA  
  Daniel Acland, *University of California, Berkeley*
- WTP or WTA: Another Method for Determining the Appropriate Measure of the Value of a Reference Dependent Change  
  Jack Knetsch, *Simon Fraser University*
- Incorporating Citizen Preferences in Willingness to Pay Values  
  Susan Chilton, *Newcastle University*

### E1 How Many Roads? (and Other Infrastructure)

**Chair**  
Kevin Simmons, *Austin College*

**Discussant**  
Chad Shirley, *Congressional Budget Office*

**Presentations**  
- Quantifying Wider Economic Benefits of Agglomeration within Transport BCA: Existing Evidence and Future Directions  
  Daniel Graham, *Imperial College of London*
  David Luskin, *Federal Highway Administration, Office of Investment & Economics*
- The Use of Retrospective Cost-Benefit Analysis to Assess the Long-term Effects of Major Infrastructure Projects  
  Chiara Pancotti, *Center for Industrial Studies (CSIL)*
- The Role of BCA for the German Federal Transport Infrastructure Plan (FTIP)  
  Christoph Walther, *PVT Planung Transport Verkehr AG*

### G1 Clean Power Plan and Global Climate Change

**Chair**  
Elizabeth Kopits, *U.S. Environmental Protection Agency*

**Presentations**  
  Daniel Simon, *Indiana University*
- Incorporating Uncertainty into Climate Change Adaptation Measures  
  David Ryder; Will Cooper, *ICF*
- A Tale of Two Regulatory Impact Analysis: The Clean Power Plan Under the Obama and Trump Administrations  
  Alison Cassady, *Center for American Progress*
## Thursday, March 15 Session 2 | 10:45-12:15AM

### Room A

**Amphitheater**

**A2** | An International Comparison of Social Discounting for Infrastructure and Regulation: Theory and Practice
---|---
**Chair** | Maureen Cropper, University of Maryland and Resources for the Future
**Discussant** | Glenn Jenkins, Queens University
**Presentations** | Two Is Better Than One: Social Discounting Rates and EU Regional Policy
Massimo Florio, University of Milan
A Discount Rate for the Economic Analysis of Projects at the World Bank
Aart Kraay, World Bank
Efficient Discount System: the Risk and Time Dimensions
Christian Gollier, Toulouse School of Economics

### Room B

**Marvin 309**

**B2** | Federal Regulatory BCA in Practice
---|---
**Chair** | Caroline Cecot, Antonin Scalia Law School
**Presentations** | Benefit-Cost Analysis and Independent Regulatory Commissions: Regulatory Analysis at the CPSC in the CPSIA Era
Deborah Aiken, U.S. Department of Transportation
Benefit-Cost Analysis at the Food and Drug Administration: A History
Rachel Lange, U.S. Food and Drug Administration
Estimating the Benefits and Costs of data Privacy Regulation: Comparing Regulation of BIAS by the FTC and FCC
Joseph Cordes, George Washington University
A New Methodology for Conducting Product Support Business Case Analysis (BCA)
Frank Camm, RAND Corporation

### Room C

**Marvin 301**

**C2** | How Regulators Can Learn from Crises
---|---
**Chair** | Jonathan Wiener, Duke University
**Presentations** | Edward Balleisen, Duke University
Joe Aldy, Harvard University
Lori Bennar, Duke University
<table>
<thead>
<tr>
<th>Room</th>
<th>Session</th>
<th>Time</th>
<th>Topic</th>
<th>Chair</th>
<th>Presentations</th>
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<tbody>
<tr>
<td><strong>E2</strong></td>
<td>Advances in Transportation Policy BCA</td>
<td>10:45-12:15</td>
<td>10th Annual Conference and Meeting</td>
<td>David Luskin, U.S. Department of Transportation</td>
<td>How Society Benefits from Optimal Vehicle Routing Pattern for Poultry Meat Distribution Network&lt;br&gt;Amir Chizari, University of Tehran&lt;br&gt;Examining Maritime Casualties from Vessel Grounds Using Zero-Inflated and Zero-Truncated Models&lt;br&gt;Jerome Kerby, U.S. Coast Guard; Fatima Zouhair, FedWriters&lt;br&gt;The Economics of All Door Boarding on Buses&lt;br&gt;Pierre Vilain, Steer Davis Gleave&lt;br&gt;Tabitha Decker, transitCenter</td>
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<tr>
<td><strong>F2</strong></td>
<td>Addressing Health Costs in BCA</td>
<td>10:45-12:15</td>
<td>10th Annual Conference and Meeting</td>
<td>Richard Williams</td>
<td>A Reference Case for Global Health Costing&lt;br&gt;Carol Levin, University of Washington&lt;br&gt;Cost Estimation for Rift Valley Fever from 2007 to 2010&lt;br&gt;Mohammed Mansour, Central Veterinary Research Laboratory&lt;br&gt;Moving from Global Burden of Disease Estimates to Policy Analysis: The Case of Foodborne Disease&lt;br&gt;Sandra Hoffmann, U.S. Department of Agriculture&lt;br&gt;The Choice between Iron and Folic Acid (IFA) and Multiple Micro-nutrients (MMS) as Alternative Maternal Supplement&lt;br&gt;Bahman Kashi, Queens University</td>
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<tr>
<td><strong>G2</strong></td>
<td>Applications of BCA for Air Pollution</td>
<td>10:45-12:15</td>
<td>10th Annual Conference and Meeting</td>
<td>Kelly Maguire, U.S. Environmental Protection Agency</td>
<td>Spatial Variability and Uncertainty in Air Quality Social Costs and the Implications for Policy&lt;br&gt;Elisabeth Gilmore, Clark University&lt;br&gt;Characterization of Epidemiological Concentration-Response Functions in US EPA's BenMAP Software&lt;br&gt;R. Jeffrey Lewis, ExxonMobil Biomedical Sciences, Inc.&lt;br&gt;Ashish Jachak, ExxonMobil Biomedical Sciences, Inc.&lt;br&gt;Valuing Health Risk Reductions from Air Quality Improvement: Evidence from a New Discrete Choice Experiment in China&lt;br&gt;Yana Jin, Peking University&lt;br&gt;How Attainment of Air Quality Standards in Southern California Improves Public Health and Reduces Health Risk Inequality&lt;br&gt;Anthony Oliver, South Coast Air Quality Management District&lt;br&gt;Elaine Shen, South Coast Air Quality Management District</td>
</tr>
<tr>
<td>ROOM A Amphitheater</td>
<td>A3</td>
<td>New Developments in Regulatory BCA</td>
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<td>Chair</td>
<td>Lisa Robinson, <em>Harvard University, Center for Health Decision Science and Center for Risk Analysis</em></td>
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Reeve Bull, *Administrative Conference of the United States*  
Jonathan Wiener, *Duke University*  
Cary Coglianese, *University of Pennsylvania Law School*  
Joe Aldy, *Harvard University* |

<table>
<thead>
<tr>
<th>ROOM C Marvin 301</th>
<th>C3</th>
<th>Recreation, Resources, and Local Economies</th>
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<tr>
<td>Chair</td>
<td>Trudy Ann Cameron, <em>University of Oregon</em></td>
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</table>
| Presentations     | Issues Affecting Recreational Values of National Forests  
Don English, *U.S. Forest Service*  
Neither Boon nor Bane: The Economic Effects of a Landscape-Scale National Monument  
Paul Jakus, *Utah State University*  
Valuing Hemlock Woody Adelgid Control in Public Forests: Scope Effects in Stated Preference Data with Attribute Non-Attendance  
Chris Giguere, *Appalachian State University* |

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<th>ROOM D Marvin 302</th>
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<th>Time Keeping in BCA</th>
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<td>Chair</td>
<td>Joe Devlin, <em>Environment and Climate Change</em></td>
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<tr>
<td>Discussant</td>
<td>Charles Griffiths, <em>U.S. Environmental Protection Agency</em></td>
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| Presentations     | Institutional Economics and the Cost of Capital  
Rick Geddes, *Cornell University*  
A Framework for Describing and Evaluating Timeframes for Benefit-Cost Analysis  
Joe Devlin, *Environment and Climate Change*  
Why Discount Nature Differently?  
Arjan Ruijs, *PBL Netherlands Environmental Assessment Agency* |
### ROOM E
**Marvin 308**

**Thursday, March 15**  **Session 3**  **2:00-3:30PM**

<table>
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<tr>
<th>Room</th>
<th>Session Title</th>
<th>Chair</th>
<th>Discussant</th>
<th>Presentations</th>
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<tbody>
<tr>
<td>E3</td>
<td>Issues in the BCA of Electrical Power Reforms</td>
<td><strong>R. Jeffrey Lewis, ExxonMobil Biomedical Sciences, Inc.</strong></td>
<td><strong>Tim Brennan, University of Maryland, Baltimore County</strong></td>
<td>Parametric and Non-Parametric Models to Estimate Households and Businesses’ Willingness to Pay for Reliable Electricity&lt;br&gt;Glenn P. Jenkins, Queens University&lt;br&gt;Application of Benefit-Cost Methods for the Evaluation of the Solar PV Net Energy Metering Values in Different Jurisdictions&lt;br&gt;Scott Bloomberg, NERA Economic Consulting&lt;br&gt;Cost Benefit Analysis of Power Sector Reform in Haiti&lt;br&gt;Bahman Kash, Queens University&lt;br&gt;Juan Belt, Center for Strategic and International Studies (CSIS)</td>
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### ROOM F
**Marvin 310**

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<tr>
<th>Room</th>
<th>Session Title</th>
<th>Chair</th>
<th>Discussant</th>
<th>Presentations</th>
</tr>
</thead>
<tbody>
<tr>
<td>F3</td>
<td>BCA of Safety: Cops, Guns, and Maritime Accidents</td>
<td><strong>Glenn Blomquist, University of Kentucky</strong></td>
<td><strong>Mark Dickie, University of Central Florida</strong></td>
<td>Good Cop, Bad Cop: An Analysis of Chicago Civilian Allegations of Police Misconduct&lt;br&gt;Kyle Rozema, University of Chicago Law&lt;br&gt;Benefits and Costs of Confiscating Firearms from Prohibited Persons in California&lt;br&gt;Chris Mai, Vera Institute&lt;br&gt;Using Near Miss Data to Characterize Baseline Risk in Maritime Regulatory Cost Benefit Analysis&lt;br&gt;Kimberly Wilson, U.S. Coast Guard&lt;br&gt;Ali Gungor, U.S. Coast Guard&lt;br&gt;Jeffrey Horn, U.S. Coast Guard</td>
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### ROOM G
**Marvin 307**

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<tr>
<th>Room</th>
<th>Session Title</th>
<th>Chair</th>
<th>Discussant</th>
<th>Presentations</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3</td>
<td>Valuing Health for Applications in BCA</td>
<td><strong>Sue Hamann, National Institute of Health</strong></td>
<td><strong>Elizabeth Quinn, U.S. Food and Drug Administration</strong></td>
<td>Valuing Non-Fatal Health Risks: Theory and Empirical Evidence&lt;br&gt;Daniel Herrera Araujo&lt;br&gt;Health Insurance Price Externalities&lt;br&gt;Daniel Wilmoth, U.S. Small Business Administration&lt;br&gt;A BCA of Hearing Aids to Reduce the Symptoms of Dementia&lt;br&gt;Robert J Brent, Fordham University&lt;br&gt;Public Safety Under Imperfect Taxation&lt;br&gt;Yuting Yang, Toulouse School of Economics</td>
</tr>
</tbody>
</table>
## Thursday, March 15 | Session 4 | 3:45-5:15pm

### Room A | Amphitheater

<table>
<thead>
<tr>
<th>A4</th>
<th><strong>Teaching BCA</strong></th>
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</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Scott Farrow, University of Maryland, Baltimore County</td>
</tr>
</tbody>
</table>
| Panelists | Susan Dudley, The George Washington  
David Weimer, University of Wisconsin, Madison  
Stuart Shapiro, Rutgers University  
Arnold Harberger, UCLA  
Chiara Pancotti, Center for Industrial Studies (CSIL) |

### Room B | Marvin 309

<table>
<thead>
<tr>
<th>B4</th>
<th><strong>Retrospective Costs and Benefits of Food Safety Regulations</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Aliya Sassi, U.S. Food and Drug Administration</td>
</tr>
<tr>
<td>Discussant</td>
<td>Elizabeth Ashley, OIRA/OMB</td>
</tr>
</tbody>
</table>
| Presentations | Consumer and Producer Responses to the 2003 Trans Fat Labeling Regulation: A Retrospective View  
Amber Jessup, U.S. Department of Health and Human Services (HHS/ASPE)  
Retrospective Benefit-Cost Analysis of the Regulation on “Control of Listeria monocytogenes in Ready-to-Eat Meat and Poultry Products”  
Flora Tsui, United States Department of Agriculture, Food Safety and Inspection Service  
Retrospective Analysis of the United States Food and Drug Administration’s Prior Notice Regulations for Imported Foods |

### Room C | Marvin 301

<table>
<thead>
<tr>
<th>C4</th>
<th><strong>Hedonic Price Studies and BCA</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair</td>
<td>Dennis Guignet, U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>Discussant</td>
<td>Ben Witherell, New Jersey Department of Environmental Protection</td>
</tr>
</tbody>
</table>
| Presentations | A Practical Guide to the Use of Hedonic Studies in Benefit-Cost Analysis  
Alastair McFarlane, US Department of Housing and Urban Development  
The Impact of Air Pollution and Noise on Property Prices Over Time  
Henrik Andersson, Toulouse School of Economics  
Property Values and Water Quality: A Nationwide Meta-Analysis and the Implications for Benefit-Transfer  
Dennis Guignet, U.S. Environmental Protection Agency |
### Thursday, March 15 Session 4 | 3:45-5:15PM

#### Applications of BCA Methods to Social Policies

**Room D**

**Marvin 302**

**Chair** Daniel Acland, University of California-Berkeley

**Discussant** Lynn Karoly, RAND Corporation

**Presentations**

- Conducting an Individual-Level Benefit-Cost Analysis of Family Self Sufficiency Programs
  - David Long, Princeton Policy Associates
- Does the Revocation of the Deferred Action for Childhood Arrivals (DACA) Survive an Accurate Cost and Benefit
  - Carolina Arlota, The University of Oklahoma, College of Law
- What Works to Increase Student Attendance Around the World? Recent Results from Comparative Cost-Effectiveness Analysis
  - Samantha Carter, J-PAL Global

#### Investing in Infrastructure

**Room E**

**Marvin 308**

**Chair** Frits Bos, CPB Netherlands Bureau for Economic Policy Analysis

**Discussant** Rick Geddes, Cornell University

**Presentations**

- A Web-Based Land Use Benefit Cost Optimization Tool
  - Ken Acks, The Cost Benefit Gr, LLC, Env Valuation & Cost Benefit News
- An application of the Delphi Method to Benefit-Cost Analysis in Cote d’Ivoire
  - Timothy Breitbarth, Green Climate Fund
  - Massimo Florio, University of Milan

#### New Vehicles, Regulations, and Subsidies

**Room G**

**Marvin 307**

**Chair** Kerry Krutilla, Indiana University, Bloomington

**Discussant** Ann Wolverton, U.S. Environmental Protection Agency

**Presentations**

- Consumer Satisfaction with New Vehicles Subject to Greenhouse Gas and Fuel Economy Standards
  - Hsing-Hsiang Huang, Oak Ridge Institute for Science and Technology
- Power and Fuel Economy Tradeoffs, and Implications for Benefits and Costs of Vehicle Greenhouse Gas Regulations
  - Gloria Helfand, U.S. Environmental Protection Agency
- Network Externality and Subsidy Structure in Two-Sided Markets: Evidence from Electric Vehicle Incentives
  - Katalin Springel, Resources for the Future
### FRIDAY, MARCH 16 SESSION 5 | 9:00-10:30AM

#### A5 | Experience Conducting BCA to Comply with New Regulatory Directives

**Room A**

**Chair**
Matt Wiener, Administrative Conference of the United States

**Panelists**
- Nan Shellabarger, Federal Aviation Administration
- Deborah Aiken, U.S. Department of Transportation
- Amber Jessup, U.S. Department of Health and Human Services (HHS/ASPE)
- Clark Nardinelli, U.S. Food and Drug Administration
- Linda Abbott, United States Department of Agriculture
- Doug Scheffler, U.S. Coast Guard

#### B5 | Utility of SBREFA Panels in Benefit-Cost Regulatory Analysis

**Room B**

**Chair**
Michael McManus, SBA Office of Advocacy

**Panelists**
- Kevin Bromberg, SBA Office of Advocacy
- Bob Burt, Occupational Safety and Health Administration
- Christine Kymn, OMB Office of Information and Regulatory Affairs

#### C5 | Ecosystems

**Room C**

**Chair**
Bahman Kashi, Queens University

**Discussant**
Steve Newbold, U.S. Environmental Protection Agency

**Presentations**
- Valuation and management of mudflats in the Yellow River Delta, China
  - Duncan Knowler, Simon Fraser University
- How to account for the impact on nature in CBAs? Four case studies from the Netherlands
  - Frits Bos, CPB Netherlands Bureau for Economic Policy Analysis
  - Arjan Ruijs, PBL Netherlands Environmental Assessment Agency
- Delegation of NPDES Authority to the State of Alaska
  - William Wheeler, U.S. Environmental Protection Agency
- Water Pollution and Health Impacts in China: The Role of Environmental Performance Reviews of Government Officials
  - Jinhua Zhao, Michigan State University
### Disastrous BCA

**Chair**: Mark Dickie, University of Central Florida  
**Discussant**: Kenneth Acks, Cost-Benefit Group, LLC

**Presentations**
- Economic Analysis for Disaster Risk Management Strategies in Developing Countries  
  David Corderi Novoa, University of Navarra  
- Benefit/Cost Analysis Enhanced Building Codes for States Prone to Windstorms  
  Kevin Simmons, Austin College  
- Benefit-Cost Analysis of Acquisition of Properties Subject to a Non-Recurring Hazard (Landslides)  
  Kaveh Zomorodi, Dewberry

### Job and Vehicle Safety

**Chair**: Kip Viscusi, Vanderbilt University

**Presentations**
- Evaluating the Risks in Military Combat Employment  
  Thomas Kniesner, Claremont Graduate University  
- Assessing the Risk of Maritime Accidents  
  Paul Large, U.S. Coast Guard; Fatima Zouhair, FedWriters  
- Benefits of OSHA's On-Site Consultation Program: An Economic Analysis  
  Jessica Stone, U.S. Department of Labor, Occupational Safety and Health Administration  
- Charles McCormick, U.S. Department of Labor, Occupational Safety and Health Administration  
  Damien Sheehan-Connor, Wesleyan University

### Retrospective Analysis of Environmental Regulation: Cost and Productivity Effects

**Chair**: Ann Wolverton, U.S. Environmental Protection Agency  
**Discussant**: Sofie Miller, The George Washington University; Art Fraas, Resources for the Future

**Presentations**
- Retrospective Evaluation of the Costs Associated with the 2004 Automobile and Light-Duty Truck Surface Coating NESHAP  
  Ann Wolverton, U.S. Environmental Protection Agency  
- Ex Ante Costs vs. Ex Post Costs of the Large Municipal Waste Combustor Rule  
  Carl Pasurka, U.S. Environmental Agency  
- Does Environmental Regulation Affect Productivity? Evidence from China's Textile Printing and Dyeing Industry  
  Ron Shadbegian, U.S. Environmental Protection Agency
### FRIDAY, MARCH 16 SESSION 6 | 10:45-12:15AM

<table>
<thead>
<tr>
<th>PLENARY</th>
<th>Regulatory Impact Analysis: the Experience of OIRA Administrators</th>
</tr>
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<tbody>
<tr>
<td>Moderator</td>
<td>Don Kenkel, Cornell University</td>
</tr>
<tr>
<td>Sally Katzen (1993-1997)</td>
<td></td>
</tr>
<tr>
<td>John Graham (2001-2006)</td>
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</tr>
<tr>
<td>Susan Dudley (2007-2009)</td>
<td></td>
</tr>
</tbody>
</table>

### FRIDAY, MARCH 16 SESSION 7 | 2:00-3:30PM

#### ROOM A

- **A7** Mortality Risk Reductions: New Developments
  - Chair: Kelly Maguire, U.S. Environmental Protection Agency
  - Presentations:
    - Disambiguating the “Value of Statistical Life”
    - Nathalie Simon, U.S. Environmental Protection Agency
    - Estimating Changes in the Fatality Risk Premium
    - Chris Dockins, U.S. Environmental Protection Agency
    - Expanding the Domain of the Value of a Statistical Life
    - W. Kip Viscusi, Vanderbilt University
    - Valuing Reductions in Fatal Risks to Children
    - William Raich, Industrial Economics, Inc.
    - James K. Hammitt, Harvard University

#### ROOM B

- **B7** Regulatory Benefit-Cost Analysis for Emerging Technologies
  - Chair: Susan Dudley, The George Washington University
  - Presentations:
    - Applying Benefit-Cost Analysis to Regulation of Emerging Technologies
      - Sofie Miller, The George Washington University
    - Analytical Challenges in Constructing Regulatory Frameworks for Automated Vehicles
      - Heidi King, National Highway Traffic Safety Administration
    - Designing Regulation with Rapid Technological Change: The Case of Drones
      - Timothy Brennan, University of Maryland, Baltimore County
    - One Year of Equity Crowdfunding: An Analysis of Initial Market Developments and Capital Raising Trends
      - Lindsay Abate, U.S. Small Business Administration, Office of Advocacy
## C7 Forest Pests

**Chair**  
Chris Moore, *U.S. Environmental Protection Agency*

**Discussant**  
John Whitehead, *Appalachian State University*

### Presentations
- **Using Machine Learning Tools to Optimize Biosecurity Inspections: A Case Study of the Asian Gypsy Moth in Australia**  
  Paul Mwebaze, *Commonwealth Scientific and Ind Research Org (CSIRO)*
- **An Application of Benefit-Cost Analysis in Forestry: The Economic Impact of a Pest Disease in Uruguay**  
  Virginia Morales Olmos, *University of the Republic*
- **Cost-Effective Targeting of Live Plant Import Exclusion for Preventing Forest Pest Establishment**  
  Rebecca Epanchin-Niell, *Resources for the Future*

## D7 Innovations in BCA

**Chair**  
Robert J. Brent, *Fordham University*

### Presentations
- **Measuring Costs and Benefits of Privacy Controls: Conceptual Issues and Empirical Estimates**  
  Daniel Perez, *George Washington University*
- **Social Rate of Return Evaluation of DHS University Investments**  
  Scott Farrow, *University of Maryland, Baltimore County*
- **Benefits and Costs of Emerging Nutrition Devices**  
  Richard Williams, *Self Employed*

## F7 Valuing Education and School Policies

**Chair**  
Samantha Carter, *J-PAL Global*

### Presentations
- **A WSIPP Approach to Valuing Higher Education**  
  Michael Hirsch, *Washington State Institute for Public Policy*
- **The Economic Implications of Later School Start Times in the U.S.**  
  Marco Hafner, *RAND Europe CIC*
- **Cost Analysis of a Mindfulness-based Professional Development Program for Teachers**  
  Sebrina Doyle, *Penn State University*
- **Are All Homeowners Willing to Pay for Better Schools? A Finite Mixture Model**  
  Okmyung Bin, *East Carolina University*
## FRIDAY, MARCH 16 SESSION 8 | 3:45-5:15PM

### ROOM A
**Amphitheater**

**A8** Soda Taxes: Benefits, Costs, and Distributional Issues

**Chair** Clark Nardinelli, *U.S. Food and Drug Administration*

**Discussant** Elizabeth Botkins, *U.S. Food and Drug Administration*

**Presentations**
- Regressive Sin Taxes, with an Application to the Optimal Soda Tax
  Benjamin Lockwood, *University of Pennsylvania*
- How Well Targeted are Soda Taxes?
  Rachel Griffith, *Institute for Fiscal Studies (IFS)*
- The Pass-Through of the Tax on SSBs in Boulder, CO
  David Frisvold, *University of Iowa*

### ROOM B
**Marvin 309**

**B8** Costs and De-Regulation

**Chair** Randall Lutter, *University of Virginia*

**Discussant** Brian Mannix, *The George Washington University*

**Presentations**
- Deregulatory Cost-Benefit Analysis
  Caroline Cecot, *Antonin Scalia Law School, George Mason University*
- Understanding Regulatory Burden from Business’ Perspective
  Stuart Shapiro, *Rutgers University*
  Debra Borie-Holtz, *Rutgers University*
- Estimating the Impact of Regulatory Costs on Small Businesses Using Five Key Financial Health Indicators

### ROOM D
**Marvin 302**

**D8** Theoretical Considerations in BCA and Regulatory Analysis

**Chair** Daniel Wilmoth, *U.S. Small Business Administration*

**Presentations**
- Meta-BCA: Optimizing the Level of Effort for Benefit-Cost Analysis
  Stephen Newbold, *U.S. Environmental Protection Agency*
- A Taxonomy for Improved Regulatory Evaluation
  Kerry Krutilla, *Indiana University, Bloomington*
- Better Rules of the Game: Introducing New Global Indicators on Regulatory Governance
  Joseph Lemoine, *Global Indicators Group*
### FRIDAY, MARCH 16 | SESSION 8 | 3:45-5:15PM

#### E8 | Food and Agricultural BCA

**Chair**  
Sandra Hoffmann, *U.S. Department of Agriculture*

**Presentations**
- Economic Impacts Associated with Direct Marketing Initiatives by U.S. Farmers: A Quantile Decomposition of Sales  
  Timothy Park, *U.S. Department of Agriculture*
- A Dynamic Systems Assessment of Benefits and Costs of Policies to Regulate Antimicrobial Use in U.S. Animal Agriculture  
  Guillaume Lhermie, *Cornell University*  
  Don Kenkel, *Cornell University*
- A Comparison of Regulatory Impacts on Corn Farming between the United States and European Union  
  Zhoudan Xie, *The George Washington University Regulatory Studies Center*
- Socio-economics of Cassava Production in East Africa  
  Paul Mwebaze, *Commonwealth Scientific and Ind. Research Org (CSIRO)*
- Pollinator Valuation Measures and Policy Analysis  
  Peyton Ferrier, *U.S. Department of Agriculture*


**Chair**  
Richard Belzer, *Regulatory Checkbook*

**Discussant**  
W. Kip Viscusi, *Vanderbilt University*

**Presentations**
- Redefining ‘Economic Feasibility’ Using Economics: A Reform Proposal that Would Improve both Efficiency and Equity  
  Richard Belzer, *Regulatory Checkbook*
- Creation of EPA's Small Entity Affordability Criterion: A Study of Ignorance Compounded by Bad Economics  
  David Schnare, *Torcastle Law, LLC*
- Practical Problems with US EPA's Affordability Guidance  
  Tracy Mehan, *American Waterworks Association*
Conference and workshop events will take place in the following locations throughout the 3rd floor of the Marvin Center:

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**Grand Ballroom & Continental Ballroom** (breaks, lunches, and receptions)

Rooms **301, 302, 307, 308, 309, 310, Amphitheater** (conference sessions)

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11130 Sunrise Valley Drive | Suite 350, Reston, Virginia 20191
Steve Jones, Executive Director
703-234-4095
benefitcostanalysis.org
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The range of topics for candidate dissertations cover those of interest to the SBCA, including both theory and application of economic evaluation methods. Relevant methods include, but are not limited to:

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- Cost-effectiveness analysis
- Cost analysis
- Regulatory impact analysis
- Disk-benefit analysis
- Applied welfare economic analysis
- Safety assessments

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- Education and training
- Energy, natural resources, and environment
- Finance and financial markets
- Food and agriculture
- Health, health insurance, and health care
- International trade and development
- Safety and security
- Social welfare programs
- Transportation and infrastructure
- Workforce and workplace

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