Improving the THEORY & PRACTICE of Benefit-Cost Analysis

Ninth Annual Conference and Meeting

Society for Benefit-Cost Analysis

MARCH 15-17, 2017
THE GEORGE WASHINGTON UNIVERSITY MARVIN CENTER, WASHINGTON, D.C.
#1 ranked MPA program (tied) out of 272

#1 Public Finance & Budgeting

#1 Environmental Policy & Management

#1 Nonprofit Management

#29,000 square feet of new space in SPEA’s new Paul H. O’Neill Graduate Center

#32,000+ alumni

#90 full-time members of a large and interdisciplinary faculty, including:

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David Good

Kerry Krutilla

Dervil Duncan

spea.indiana.edu
TABLE OF CONTENTS

Sponsors........................................................................................................................................4
Welcome Letter..............................................................................................................................5
2017 Organizational Affiliates........................................................................................................6
2017 Premium Members..................................................................................................................7
Society for Benefit-Cost Analysis Overview.............................................................................8
SBCA Membership.......................................................................................................................9
Journal of Benefit-Cost Analysis Overview.............................................................................10
Conference and Workshop Schedule – Overview........................................................................13
Conference Schedule – Detailed................................................................................................14
Marvin Center Floor Plan.............................................................................................................30
Conference Logistics..................................................................................................................31

Thank you to our founding institution:

W

EVANS SCHOOL
OF PUBLIC POLICY & GOVERNANCE

UNIVERSITY of WASHINGTON
CONFERENCE SPONSORS

Conference support is provided by:

American Chemistry Council

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ExxonMobil

Regulatory Studies Center

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Trachtenberg School of Public Policy & Public Administration

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Dear friends and colleagues,

Welcome to the 2017 Society for Benefit-Cost Analysis Annual Conference and Meeting! We have 46 excellent sessions planned -- our largest number ever -- and look forward to exploring many important and interesting issues. 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, Katharine G. Abraham, Professor of Economics and Survey Methodology, University of Maryland and Chair, Commission on Evidence-Based Policymaking. She will speak on the topic of “Improving the Evidence Base for Government Decisions.” On Friday, we will convene a meeting of our membership during lunch, 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 2017 Program Committee, whose hard work contributed to the varied and interesting program:

- Daniel Acland (University of California, Berkeley)
- Luc Baumstark (University of Lyon)
- Margaret Kuklinski (University of Washington)
- David Luskin (U.S. Department of Transportation)
- John Mendeloff (University of Pittsburgh)
- George Parsons (University of Delaware)
- Emile Quinet (École des Ponts ParisTech)
- Lisa A. Robinson (Harvard University)
- Aylin Sertkaya (Eastern Research Group, Inc.)
- Anne Smith (NERA Economic Consulting)
- Fran Sussman (Independent Consultant)
- Judy Temple (University of Minnesota)
- Craig Thornton (Mathematica Policy Research, Inc.)
- Gary VanLandingham (Florida State University)
- W. Kip Viscusi (Vanderbilt University)
- Jack Wells (U.S. Department of Transportation - former)
- Darcy White (The Pew Charitable Trusts)

We would also like to thank the Laura and John Arnold Foundation, American Chemistry Council, ExxonMobil and the GW 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 more generally. We hope that we will see you at future conferences and other Society functions.

Sincerely,

Lynn A. Karoly
President, Conference Chair

Donald Kenkel
Vice President

Susan E. Dudley
Past President
2017 ORGANIZATIONAL AFFILIATES

PATRON

The Brattle Group
Econometrica, Inc.*
The George Washington University Regulatory Studies Center*
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LaFollette School of Public Affairs, University of Wisconsin-Madison
University of Chicago Harris School of Public Policy
University of Kentucky Gatton College Department of Economics
Vanderbilt University’s Ph.D. Program in Law & Economics
### Premium Members

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<thead>
<tr>
<th>Luc Baumstark</th>
<th>Kerry Krutilla</th>
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<tr>
<td>Richard Belzer</td>
<td>R. Jeffrey Lewis</td>
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<td>Ronald Bird</td>
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<td>Glenn C. Blomquist</td>
<td>Randall Lutter</td>
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<td>Tony Cox</td>
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<td>Kenneth Goettel</td>
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<td>James K. Hammitt</td>
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<td>Antonio Huerta-Goldman</td>
<td>Jack Wells</td>
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<td>Lynn Karoly</td>
<td>John Yinger</td>
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<td>Donald S. Kenkel</td>
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### SAVE THE DATE

**Annual Conference and Meeting**

March 14-16, 2018 | Washington, DC
Founded 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.

2017 BOARD OF DIRECTORS:

- Lynn Karoly, President (RAND Corporation)
- Donald Kenkel, Vice President (Cornell University)
- Susan E. Dudley, Past President (GW Regulatory Studies Center)
- Craig Thornton, Treasurer (Mathematica Policy Research)
- Ali Gungor, Assistant Treasurer (U.S. Coast Guard)
- Randall Lutter, Past Treasurer (University of Virginia and Resources for the Future)
- Elisabeth Gilmore, Secretary (Clark University)
- Mark Cohen (Vanderbilt University and Resources for the Future)
- Massimo Florio (University of Milan)
- David Luskin (Federal Highway Administration)
- Emile Quinet (Ecole des Ponts-ParisTech)
- Fran Sussman (Independent Consultant)
- Gary VanLandingham (Florida State University)
MEMBERSHIP

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:

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<td>Access to member contact information</td>
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<td>Eligible to serve on Society's Board of Directors</td>
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<td>Discounted registration for Society's annual conference</td>
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To join the SBCA, please visit http://benefitcostanalysis.org/membership.

Membership information and forms will also be available at the conference registration table.
The JBCA is Attracting Attention


• **Wall Street Journal** (February 13, 2017) interviewed Alison De Rossi and Joni Hersch about their 2016 article “The Private and Social Benefits of Double Majors.”

• Nearly **12,000 articles were downloaded** from the Cambridge/JBCA website last year.

• **JBCA** has been selected for **Thomson Reuters’ Emerging Sources Citation Index (ESCI)** while our application for the SSCI is being considered. Coverage began with JBCA 7,1 (Spring 2016). Selection for the ESCI does not confer an impact factor, but it is an encouraging, positive signal about eventual selection for the SSCI.

Best Articles for 2016

The Editors are pleased to recognize noteworthy work published in 2016. Impressed with the diligence with which Best Article Award Committee members Glenn Jenkins, Clark Nardinelli, and Fran Sussman worked, we decided take their recommendation and recognize three outstanding articles. Congratulations to the authors!

• **B. Douglas Bernheim “The Good, the Bad, and the Ugly: A Unified Approach to Behavioral Welfare Economics”** 7,1 (Spring) A critical paper for practitioners to read in order to understand the underpinnings of the normative implications of BCA and the limitations of the valuation techniques.

• **W. Kip Viscusi and Ted Gayer “Rational Benefit Assessment for an Irrational World: Toward a Behavioral Transfer Test”** 7,1 (Spring) The proposal is a bridge for analysts to use to cover the gap between behavioral failures and the consumer sovereignty underlying benefits assessment in benefit-cost analysis.

• **Deven Carlson, Joseph Ripberger, Hank Jenkins-Smith, Carol Silva, Kuhika Gupta, Robert Berrens, and Benjamin Jones “Contingent Valuation and the Policymaking Process: An Application to Used Nuclear Fuel in the United States”** 7,3 (Fall) For public policy decisions where those who prefer a current policy, and cannot ignore or opt out of the policy change, would be hurt if an alternative is imposed on them. The information derived by using the methodology developed by the authors will be highly relevant for measuring relative willingness to pay of stakeholders.

Editors Glenn C. Blomquist and William H. Hoyt and Managing Editor Mary Kokoski continue with abundant support. Thanks in particular go to Editorial Board members, authors, reviewers, the MacArthur Foundation, and all who contribute to growing the JBCA.
Editors-in-Chief: Glenn Blomquist and William Hoyt (University of Kentucky)
Managing Editor: Mary Kokoski (University of Kentucky)

- Henrik Andersson (Toulouse School of Economics)
- Timothy Bartik (Upjohn Institute)
- Trudy Cameron (University of Oregon)
- Mark Cohen (Resources for the Future)
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- Robert Hahn (University of Manchester and University of Oxford)
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- Lisa A. Robinson (Harvard University Center for Health Decision Science and Center for Risk Analysis)
- David Salkever (University of Maryland)
- W. Kip Viscusi (Vanderbilt University)
- David Weimer (University of Wisconsin)
- 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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Ninth Annual Conference and Meeting of the Society for Benefit-Cost Analysis
Improving the THEORY & PRACTICE of Benefit-Cost Analysis

THURSDAY, MARCH 16
FRIDAY, MARCH 17
PRE-CONFERENCE WORKSHOPS

**Wednesday, March 15**

8:00 – 9:00  Registration for morning workshops *(Marvin 3rd Floor Lobby)*

**Professional Development Workshops, AM Session**

9:00 – 12:30  Retrospective Benefit-Cost Analysis *(Marvin 310)*

12:30 – 1:30  Lunch (for those registered for AM and PM sessions) *(Marvin 302)*

1:00 – 1:30  Afternoon Workshop Registration *(Marvin 3rd Floor Lobby)*

**Professional Development Workshops, PM Session**

1:30 – 5:00  Using Experts to Estimate Parameter Values in BCA *(Marvin 308)*

5:00 – 6:30  Opening Reception (registered workshop & conference participants, sponsored by ExxonMobil) *(Marvin 302)*

**CONFERENCE SCHEDULE OVERVIEW**

Conference registration includes meals (breakfast, break refreshments, lunch and evening receptions) plus other activities listed below on March 16 and 17, as well as the opening reception on March 15.

**Conference Day 1 - Thursday, March 16**

8:00 – 9:00  Registration *(Marvin 3rd Floor Lobby)* & Breakfast *(Grand Ballroom)*

9:00 – 10:30  Session 1

10:30 – 10:45  Break *(Grand Ballroom)*

10:45 – 12:15  Session 2

12:15 – 2:00  Luncheon and Keynote Address (sponsored by the Laura and John Arnold Foundation) *(Grand Ballroom & Continental Ballroom)*

2:00 – 3:30  Session 3

3:30 – 3:45  Break *(Continental Ballroom)*

3:45 – 5:15  Session 4

5:30 – 7:30  Networking Reception *(Grand Ballroom)*

**Conference Day 2 - Friday, March 17**

8:00 – 9:00  Registration *(Marvin 3rd Floor Lobby)* & Breakfast *(Grand Ballroom)*

9:00 – 10:30  Session 5

10:30 – 10:45  Break *(Grand Ballroom)*

10:45 – 12:15  Session 6

12:15 – 2:00  Luncheon and Annual Meeting of the SBCA Membership (sponsored by the American Chemistry Council) *(Grand Ballroom & Continental Ballroom)*

2:00 – 3:30  Session 7

3:30 – 3:45  Break *(Continental Ballroom)*

3:45 – 5:15  Session 8

5:15 – 6:30  Closing Reception (sponsored by the GW Regulatory Studies Center) *(Grand Ballroom)*
### Room A

**A.1: Valuing Mortality Risk Reductions in Low- and Middle-Income Countries: Addressing Data Gaps and Inconsistencies (Roundtable)**

**Chair:** Lisa A. Robinson, Harvard University

**Panelists:**
- Nils Axel Braathen, OECD
- Maureen Cropper, University of Maryland
- James K. Hammitt, Harvard University
- Alan Krupnick, Resources for the Future
- Urvashi Narain, World Bank
- W. Kip Viscusi, Vanderbilt University

### Room B

**B.1: Estimating Economic Values: Methods and Applications**

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

**Presentations:**
- Sensitivity to Scope in Contingent Valuation and Discrete Choice Experiments: Results Based on Valuing Health Risk Reductions; Henrik Andersson*, Toulouse School of Economics
- Hedonic Vices: Fixing Inferences about Willingness-to-Pay in Recent House-Value Studies; John Yinger*, Syracuse University
- Including the Perspective of the Incarcerated Person in Jail CBAs; Chris Mai*, Vera Institute of Justice

### Room C

**C.1: Non-Market Valuation of Environmental Goods Using Revealed and Stated Preference Methods**

**Chair:** Steve Newbold, U.S. Environmental Protection Agency

**Presentations:**
- External Scope and Adding-Up Tests for Stated Preference Choice-Experiment Surveys; Chris Moore*, U.S. Environmental Protection Agency
- Measuring the Effects of Offshore Wind Projects on Beach Use and Tourism on the East Coast of the United States; George Parsons*, University of Delaware
- The Use of Social Media Data for Nonmarket Valuation; Yongjie Ji*, Iowa State University
- The Value of Bird Biodiversity to eBirders: Exploring Citizen Science Data using a Recreational Site Choice Model; Sonja Kolstoe*, Salisbury University

### Room D

**D.1: Strengthening Benefit-Cost Analysis of Early Childhood Interventions Through High-Quality, High-Utility Cost Analysis**

**Chair:** Jonathan Belford, Child Trends

**Discussant:** Phaedra Corso, University of Georgia

**Presentations:**
- Issues in Estimating Costs of Early Childhood Interventions: An Example from the REDI Intervention; Damon Jones*, Pennsylvania State University
- Dynamic Cost Analysis of Evidence-Based Family Services in a Randomized Controlled Trial; D. Max Crowley*, Pennsylvania State University
- Efficient and Effective Early Childhood Home Visiting Programs for High Risk Families: A Cost Analysis of Promoting First Relationships; Margaret Kuklinski*, University of Washington

### Room E

**E.1: Estimating Benefits and Costs of Risk Interventions in Face of Uncertainty**

**Chair:** Elisabeth Gilmore, Clark University

**Discussant:** Laura Stanley, U.S. Environmental Protection Agency

**Presentations:**
- Uncertainty Evaluation in DOT and EPA RIAs of Lifesaving Regulations; David Good* and Kerry Krutilla, Indiana University
- Risks and Benefits of Reducing Ozone Exposure after Re-Evaluating Most Recent Chamber Study Data; R. Jeffrey Lewis*, ExxonMobil Biomedical Sciences, Inc.; and Richard Belzer, Regulatory Checkbook
- Adaptive Benefit-Cost Analysis for Changing a Few of Many Causes; Tony Cox*, Cox Associates

### Room F

**F.1: Incorporating Economic Evaluation into the Portfolio of Private Foundations (Roundtable)**

**Chair:** Lynn A. Karoly, RAND Corporation

**Panelists:**
- Thomas Forissier, Bill and Melinda Gates Foundation
- Cindy Esposito Lamy, Robin Hood Foundation
- Woody McCutchen, Edna McConnell Clark Foundation
- Jon Baron, Laura and John Arnold Foundation
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<td>Marvin 309</td>
<td>Marvin 307</td>
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**A.2: Assessing Approaches to Updating the Social Cost of Carbon (Roundtable)**

**Chairs:** Casey Wichman and Richard Newell, Resources for the Future

**Panelists:**
- Max Auffhammer, University of California, Berkeley
- Maureen Cropper, University of Maryland
- Richard Newell, Resources for the Future
- William Pizer, Duke University
- Richard Schmalensee, Massachusetts Institute of Technology

**B.2: Evidence-based Policy (Roundtable)**

**Chair:** Craig Thornton, Mathematica Policy Research

**Panelists:**
- Tony Cox, Cox Associates
- Sandy Davis, Bipartisan Policy Center
- Nicholas Hart, Commission on Evidence-Based Policymaking
- Sofie Miller, The George Washington University
- Kathy Stack, Laura and John Arnold Foundation

**C.2: Issues in Benefit-Cost Analysis Applications in Energy and the Environment**

**Chair:** Timothy Brennan, Resources for the Future

**Discussant:** Charles Griffiths, U.S. Environmental Protection Agency

**Presentations:**
- Climate Change Adaptation: Benefit-Cost Analysis of Coastal Flooding Hazard Mitigation; Federico Garcia* and David Ryder*, ICF International
- Triple-Bottom-Line Benefits for Urban Resiliency Projects; James Cottone* and Aaron Henderson, Arcadis
- Benefits and Costs of Authorizing the Use of Substances of Very High Concern under REACH; Matti Vainio*, European Chemicals Agency
### Room D
Marvin 301

**D.2: Role of Cost Benefit Analysis in Decision Making in OECD Countries**

**Chair:** Fran Sussman, Independent Consultant

**Discussants:** Chris Dockins, U.S. Environmental Protection Agency, and Emile Quinet, Ecole des Ponts-ParisTech

**Presentations:**
A General Survey of CBA in Decision Making in OECD Countries; *Nils Axel Braathen*, OECD

Looking Back at Social Discount Rates: The Influence of Papers, Presentations, Political Preconditions and Personalities on Policy; *Ben Groom*, London School of Economics

### Room E
Marvin 308

**E.2: Applications of Benefit-Cost Analysis in Developing Countries**

**Chair:** Michael Toman, World Bank

**Discussant:** Elisabeth Gilmore, Clark University

**Presentations:**
Economic Consequences of an Infectious Disease Event for a Small, Island Economy; *Jamison Pike*, U.S. Centers for Disease Control and Prevention

Performance Based Financing and Improving Girls’ Education: Lessons Learned in Zimbabwe; *Jordan Nanowski*, Limestone Analytics; and *Bahman Kashi*, Queen’s University

On-Grid Solar PV Versus Diesel Electricity Generation In Sub-Saharan Africa: Economics And GHG Emissions; *Glenn Jenkins*, Queen’s University and Eastern Mediterranean University; *Saule Baurzhan*, Eastern Mediterranean University

### Room F
Marvin 310

**F.2: Risk, Competition, and Procurement Design**

**Chair:** Aylin Sertkaya, Eastern Research Group, Inc.

**Presentations:**
The Inefficiency of Risk Pricing in PPPs; *Dejan Makovsek*, International Transport Forum; *Marian Moszoro*, George Mason University

A Decision-Making Model for Procurement Design; *Adrian Bridge*, Queensland University of Technology

How does PPP Contract Design Respond to Introduction of Uncertainty; *Philippe Gagnepain* on behalf of *David Martimort*, Paris School of Economics
### Room A
**Marvin 309**

**A.3: International Approaches to Analyzing Benefits and Costs of Chemical Risk Policies** (Roundtable)

**Chair:** Susan Dudley, The George Washington University

**Panelists:**
- Nils Axel Braathen, OECD
- Jessica Coria, University of Gothenburg
- Joe Devlin, Environment & Climate Change Canada
- Matti Vainio, European Chemicals Agency

### Room B
**Marvin 307**

**B.3: Value of a Statistical Life: Recent Advances**

**Chair:** Thomas Kniesner, Claremont Graduate University

**Discussant:** Al McGartland, U.S. Environmental Protection Agency

**Presentations:**
- Is Survival a Luxury Good? Income Elasticity and the Value per Statistical Life; James K. Hammitt*, Harvard University
- Best Estimate Selection Bias of Estimates of the Value of a Statistical Life; W. Kip Viscusi*, Vanderbilt University
- Estimating the Value of a Statistical Life in (the Likely Many) Cases of Reference Dependence; Jack Knetsch*, Simon Fraser University

### Room C
**Marvin 302**


**Chair:** Ann Wolverton, U.S. Environmental Protection Agency

**Discussant:** Fran Sussman, Independent Consultant

**Presentations:**
- Consumer Willingness to Pay for Vehicle Attributes: What Do We Know?; Gloria Helfand*, U.S. Environmental Protection Agency
- Re-Searching for Hidden Costs: Producer Heterogeneity and Adoption of Fuel-Saving Vehicle Technologies; Hsing-Hsiang Huang*, Oak Ridge Institute for Science and Education
### Room D  
Marvin 301  
**D.3: Regulatory Review and Benefit-Cost Analysis in the States (Roundtable)**

**Chair:** Stuart Shapiro, Rutgers University  
**Panelists:**  
- Larry Getzler, Virginia Department of Planning and Budget  
- Anca Grozav, North Carolina Office of State Budget and Management  
- David Sumner, Pennsylvania Independent Regulatory Review Commission  
- Ben Witherell, New Jersey Department of Environmental Protection

### Room E  
Marvin 308  
**E.3: Benefit-Cost Analysis Applications in Transportation and Infrastructure**

**Chair:** Deborah Aiken, U.S. Department of Transportation  
**Discussant:** David Luskin, U.S. Department of Transportation

**Presentations:**  
- **Information Saves Lives: An Impact Evaluation of Automobile Crash Tests;**  
  Damien Sheehan-Connor*, Wesleyan University  
- **Estimation of Logistics Cost Savings for a Multi-Jurisdictional Freight Rail Project using a BCA Framework;**  
  Saravanya Sankarakumaraswamy*, University of Washington  
- **Addressing Uncertainty in the Estimation of the Benefits and Costs of Complex Transportation Infrastructure Projects;**  
  Kenneth Kuhn*, RAND Corporation

### Room F  
Marvin 310  
**F.3: Issues in Benefit-Cost Analysis of Research, Development, and Innovation**

**Chair:** R. Jeffrey Lewis, ExxonMobil Biomedical Sciences, Inc.  
**Discussant:** Kathleen Miller, U.S. Food and Drug Administration

**Presentations:**  
- **Human Capital Benefits of Big Science: Evidence from Early Career Researchers at CERN;**  
  Massimo Florio*, University of Milan  
- **Benefit Cost Analysis of Research, Development and Innovation (RDI) Infrastructures - Strategy for Europe 2020;**  
  Kristina Gogic*, Office of the Croatian Ombudsman  
- **The Inclusion of Economic Variables in Case Studies of Biomedical Research Impact;**  
  Sue Hamann*, National Institutes of Health
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<td><strong>Chair:</strong> Kerry Krutilla, Indiana University</td>
<td><strong>Chair:</strong> Lynn Karoly, RAND Corporation</td>
<td><strong>Chair:</strong> Robin Jenkins, U.S. Environmental Protection Agency</td>
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<td><strong>Panelists:</strong></td>
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<td>Randall Lutter, University of Virginia and Resources for the Future</td>
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<td>Brian Mannix, The George Washington University</td>
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<td>Al McGartland, U.S. Environmental Protection Agency</td>
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<td>Macroeconomic Effects of Sterilized Intervention; Yuxuan Huang*, The George Washington University</td>
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<td>Value of Reusing Remediated Land as Greenspace: A Benefit Transfer Application to EPA's Superfund Sites; Karen Sullivan, Achyut Kafle* and Jacqueline Waite, U.S. Environmental Protection Agency</td>
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<td>Bad Air Days: On the Valuation of Air Quality Using Different Measures of Subjective Wellbeing; Kate Laffan* and Paul Dolan, London School of Economics</td>
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### Room D
**Marvin 301**

**D.4: Application of Benefit-Cost Analysis in Europe: Experiences, Challenges, and the Future**

**Chair:** Daniel Perez, The George Washington University

**Discussant:** Bahman Kashi, Queen’s University

**Presentations:**
- Trends in Non-Market Valuation in the UK; Ben Groom*, London School of Economics
- Evolution of BCA-based Decisionmaking – the Example of the Swedish Transport Sector; Gunnar Lindberg*, Norwegian Institute of Transport Economics
- BCA on Health Risks in France; Henrik Andersson*, Toulouse School of Economics, on behalf of Luc Baumstark, University of Lyon

### Room E
**Marvin 308**

**E.4: Issues in the Use of Economic Evaluation in Public Sector Decision-making**

**Chair:** Margaret Kuklinski, University of Washington

**Discussant:** Gary VanLandingham, Florida State University

**Presentations:**
- Can Analysis Facilitate Public Participation; Stuart Shapiro*, Rutgers University
- Implementing Results First: Adventures in Capacity-building to Produce Benefit-Cost Analysis for Policymaking; Steven Lize*, The Pew Charitable Trusts
- Unbundling Political and Economic Rationality: A Non-Parametric Approach Tested on Spain; Salvador Bertoméu-Sánchez*, ECARES - Université Libre de Bruxelles

### Room F
**Marvin 310**

**F.4: Considerations in Developing High-Quality Benefit-Cost Analysis Estimates**

**Chair:** Judy Temple, University of Minnesota

**Discussant:** Lindsay Abate, U.S. Small Business Administration

**Presentations:**
- Understanding and Avoiding Pitfalls of Benefit/Cost Analysis; Ernest Forman*, The George Washington University
- Forecasting Affected Populations for Benefit-Cost Analyses; Douglas Scheffler*, U.S. Coast Guard
- Should CBAs Include a Correction for the Marginal Excess Burden?; Frits Bos*, CPB Netherlands Bureau for Economic Policy Analysis
- A Benefit-Cost Analysis of the Multiplier Effect; Erik Rose*, Oregon State University
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<td>Marvin 309</td>
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**A.5: Benefit-Cost Analyses and Food Safety Regulations on Meat, Poultry and Egg Products (Roundtable)**

**Chair:** Flora Tsui, U.S. Department of Agriculture

**Panelists:**
- Richa Ajmera, U.S. Department of Agriculture
- Sandra Hoffmann, U.S. Department of Agriculture
- Angelica Marrero, U.S. Department of Agriculture

**Presentations:**
- Michigan v. EPA and the Inescapable Normative Nature of the Concept of Cost; Daniele Bertolini*, Ryerson University
- Cost-Benefit Analysis, Policy Impacts, and Congressional Hearings; Joseph Ripberger* and Deven Carlson*, University of Oklahoma
- Analyzing the Effects of the Tarmac Delay Rule: Data and Methodological Challenges; Deborah Aiken*, U.S. Department of Transportation; Ali Gungor, U.S. Coast Guard; and Rayik Samara, George Mason University

**B.5: Benefit-Cost Analysis in Political Decision-making**

**Chair:** Joe Devlin, Environment & Climate Change Canada

**Discussant:** Ronald Bird, U.S. Chamber of Commerce

**Presentations:**
- Michigan v. EPA and the Inescapable Normative Nature of the Concept of Cost; Daniele Bertolini*, Ryerson University
- Cost-Benefit Analysis, Policy Impacts, and Congressional Hearings; Joseph Ripberger* and Deven Carlson*, University of Oklahoma
- Analyzing the Effects of the Tarmac Delay Rule: Data and Methodological Challenges; Deborah Aiken*, U.S. Department of Transportation; Ali Gungor, U.S. Coast Guard; and Rayik Samara, George Mason University

**C.5: Applications of Benefit-Cost Analysis in Energy and the Environment**

**Chair and Discussant:** Ann Ferris, U.S. Environmental Protection Agency

**Presentations:**
- The (r)Evolution of Non-Energy Benefits in Energy Efficiency; Christopher Chan*, Eversource Energy; Greg Clendenning, NMR Group, Inc; Bruce Tonn, Three3, Inc; and Beth Hawkins, Three3, Inc.
- Welfare Impact of Electricity Subsidy Reforms: A Micro Model Study; Syed Adnan Khalid*, National University of Sciences & Technology

**D.5: Applications of Benefit-Cost Analysis to Jobs and Transfer Programs**

**Chair:** Weston Merrick, Minnesota Management and Budget

**Presentations:**
- Imagining a Tax System with Universal Basic Income; Kyle Rozema*, Northwestern University
- A Benefit-Cost Analysis of a Workforce Development Program for Disconnected Youth; Mithuna Srinivasan* and Sonam Gupta, Impaq International
- Evaluating the Iowa’s High Quality Jobs Program; Zhong Jin*, Iowa Department of Revenue
- Examining the Costs and Benefits of Family Rewards 2.0; A Conditional Cash Transfer Program in Two American Cities; Timothy Rudd*, MDRC

**E.5: Economic Evaluation Applications in Health Care and Public Health**

**Chair:** Jamison Pike, U.S. Centers for Disease Control and Prevention

**Presentations:**
- Estimating the Monetary Benefits of Medicare Eligibility for Reducing the Symptoms of Dementia; Robert Brent*, Fordham University
- Economic Losses Associated with Oral Problems in the United States - Using the National Health Interview Survey, 2008; Uma Kelekar*, Marymount University
- Benefits and Costs of Public Health Actions: Case Studies from CDC’s Environmental Public Health Tracking Grantees; Ying Zhou*, U.S. Centers for Disease Control and Prevention
- Estimated Savings to Medicaid Obtained by Substituting Electronic for Tobacco-Based Cigarettes; Richard Belzer*, Regulatory Checkbook

**F.5: Evaluation and Ex-Post Impact Assessment in the EU – Methodology and Practice**

**Chair:** Joseph Cordes, The George Washington University

**Discussant:** Reeve Bull, Administrative Conference of the United States

**Presentations:**
- Retrospective Evaluation as a Key Component of the EU’s Better Regulation Agenda; Geraldine Emberger*, European Commission
- The European Parliament’s Scrutiny Toolbox for Transposition and Implementation; Irmgard Anglmayer*, European Parliament
- Ex-Post Impact Assessment at the European Parliament; Sten Ramstedt*, European Parliament
| Room D  
Marvin 301 | Room E  
Marvin 308 | Room F  
Marvin 310 |
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### Room A
**Marvin 309**

#### A.6: Developing a Reference Case for Benefit-Cost Analysis in Low- and Middle-Income Countries (Roundtable/“Listening Session”)

**Chair:** James K. Hammitt, Harvard University

**Panelists:**
- Lisa A. Robinson, Harvard University
- Thomas Wilkinson, iDSI
- David Wilson, Bill and Melinda Gates Foundation

### Room B
**Marvin 307**

#### B.6: Issues in Risk, Uncertainty, and Information

**Chair:** Glenn Blomquist, University of Kentucky

**Discussant:** Randall Lutter, University of Virginia / Resources for the Future

**Presentations:**
- Applying VSL When Persons Choose Risk or Care about Risks to Others: The Case of Commercial Space Exploration; *Timothy Brennan*, Resources for the Future
- Behavioral Responses to Health Information and Warnings; *Rosemarie Lavaty* and *Carolyn Wolff*, U.S. Food and Drug Administration
- The Value of a Statistical Life: Economics and Politics; *Ryan Bosworth*, Utah State University

### Room C
**Marvin 302**

#### C.6: Consequences of Environmental Policies for Employment and Education

**Chair:** George Parsons, University of Delaware

**Presentations:**
- Employment and Pollution Abatement: A Nonparametric Cost Function Analysis; *Carl Pasurka*, U.S. Environmental Protection Agency
- Air Quality and College Attendance; *John Voorheis*, U.S. Census Bureau
- Compensating Workers Who Lose Jobs Due to Carbon Taxes: Lessons from the Trade Adjustment Act; *Craig Thornton*, Mathematica Policy Research
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<td>Towards Meta Benefit-Cost Analysis: The Case of Brexit; Aurelien Portuese*; Leicester De Montfort University / King's College London</td>
<td>The PROMIS-Preference (PROPr) Score: A New Health Utility Measure; Barry Dewitt*; Carnegie Mellon University</td>
<td>The Criterion for Evaluating Transportation Projects: Social Welfare Analysis; Omid M. Rouhani*, McGill University</td>
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<td>A Portfolio-Wide Assessment of MCC's Economic Rates of Return; Marissa Block* and Sandra Ospina*; Millennium Challenge Corporation</td>
<td>Eliciting Individual Preferences for End-of-Life Treatments; Susan Chilton*, Newcastle University</td>
<td>A Tale of Two Cities and Five Benefit-Cost Analyses: Australia's Inland Rail between Melbourne and Brisbane; David Luskin*, U.S. Department of Transportation</td>
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<td>Institutional Capacity on Health Regulation, Key for Development and Global Trade; Carlos Santos-Burgoa*; The George Washington University</td>
<td>Advanced Data Integration for Epidemiologic Modeling in Benefit-Cost Analysis: A Case for Complex Behavioral Disorders; Xindi Hu*; Harvard University</td>
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<td><strong>D.7: Benefit-Cost Analysis in Economic Development</strong></td>
<td><strong>E.7: Benefits and Costs in the Regulation of Financial Markets</strong></td>
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<td>Educational Gender Discrimination and its Economic Developmental Impact; <em>Fatima Ali</em></td>
<td>Benefits and Costs of Bank Regulatory Capital Standards; <em>James R. Barth</em>, Auburn University; and <em>Stephen Miller</em>, Mercatus Center at George Mason University</td>
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<td>Access and Quality in Higher Education Project (Paces) - Higher Education Student Loans in Colombia; <em>Felipe Lozano-Rojas</em>, Indiana University and World Bank</td>
<td>The Systemic Risk Paradox: Costly Regulations and Consolidation in Heterogeneous Financial Markets with Uncertainty; <em>Sharon Brown-Hruska</em> and Trevor Wagener, NERA Economic Consulting</td>
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<td>Gender Impacts in Benefit-Cost Analysis; <em>Bahman Kashi</em>, Queen’s University; Jennifer Watt and Kamin Peyrow, Queen’s University; Stephanie Schmidt, International Development Group</td>
<td>Improvements in SEC Economic Analysis since Business Roundtable: A Structured Assessment; <em>Jerry Ellig</em>, Mercatus Center at George Mason University</td>
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<td>Estimating Mortality and Economic Costs of Particulate Air Pollution in Developing Countries: The Case of Nigeria; <em>Natina Yaduma</em>, American University of Nigeria</td>
<td>International Trade and the Willingness to Pay by SMEs for Online Banking Services; <em>Glenn Jenkins</em>, Queen’s University and Eastern Mediterranean University and Parvaneh Shahnoori, Eastern Mediterranean University</td>
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A.8: Measuring the Effectiveness of Regulations

Chair: Sofie Miller, The George Washington University

Panelists:
- Retrospective Evaluation of Chemical Regulations; Susan Dudley*, The George Washington University
- Improving Retrospective Review; Reeve Bull*, Administrative Conference of the United States
- Building Retrospective Evaluation Capacity to Enhance EPA’s Prospective Analyses; Nicholas Hart*, The George Washington University
- Improving the Elicitation of Professional Judgements for Use in Regulatory Benefits Analysis; Jennifer Baxter*, Margaret Black, and Henry Roman, Industrial Economics, Inc.; Arturo Rios, U.S. Coast Guard

B.8: Defining the Boundaries for Benefit-Cost Analysis

Chair: John Mendeloff, University of Pittsburgh

Presentations:
- ‘Three Basic Postulates’ Revisited: A Sufficient Statistics Approach to BCA; Donald Kenkel*, Cornell University
- Bridging the Partial and General Equilibrium Divide; Scott Farrow*, University of Maryland Baltimore County
- Wellville or Funville: You Got A Problem?; Clark Nardinelli*, U.S. Food and Drug Administration
- Distinction between Benefit-Cost Analysis and Cost-Benefit Analysis in Law and Economics; Scott Farrow*, University of Maryland Baltimore County on behalf of Richard Zerbe, University of Washington

C.8: Applications in Energy and the Environment

Chair: Martha Rogers, Brattle Group

Presentations:
- Cost Efficiency of Payment Systems for Forest Carbon Sequestration Incorporating Spatial and Temporal Heterogeneities; Seong-Hoon Cho*, University of Tennessee
- Ambiguity Aversion and the Expected Cost of Rare Energy Disasters: An Application to Nuclear Power Accidents; Romain Bizet* and François Lévêque, MINES ParisTech
- The Effect of Water Quality Characterization on Recreation Demand Model Results; William Wheeler*, U.S. Environmental Protection Agency

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Room A
Marvin 309

Room B
Marvin 307

Room C
Marvin 302
### Room D  
**Marvin 301**

**D.8: Issues in Valuing Outcomes in BCAs of Social Programs**

**Chair:** Anne Gordon, Mathematica Policy Research

**Presentations:**
- Reducing the Double Counting of Benefits: A Bayesian Approach to Model Multiple Outcomes in Education Evaluations; *Yilin Pan*, Columbia University; and *Wenjie Joanna Zhang*, The George Washington University
- Private Investments in Public Preschools: the Use of CBA in Determining the Feasibility of Pay-for-Success Contracts; *Judy Temple*, University of Minnesota
- The Impact of Job Satisfaction on Subjective Well-Being; *Tapas Ray*, U.S. Centers for Disease Control and Prevention
- Project Finance through Impact Investment in the Social Sector; *Jay Mackinnon* and *Bahman Kashi*, Limestone Analytics

### Room E  
**Marvin 308**

**E.8: Issues in Costs and Benefits in Agriculture Policy**

**Chair:** Elisabeth Newcomb, U.S. Food and Drug Administration

**Discussant:** Sandra Hoffmann, U.S. Department of Agriculture

**Presentations:**
- Corn or Cattle? Comparison of Ecosystem Services under Different Land Uses; *Haochi Zheng* and *Stefano Potter*, University of North Dakota
- The Impact of Groundwater Depletion on Farm Exit Rates in the High Plains; *Bern Dealy*, U.S. Food and Drug Administration
- Reliable Reduction in Agricultural Runoff under Environmental Uncertainty; *Zhiyu Wang*, University of Minnesota
Conference and workshop events will take place in the following locations throughout the 3rd floor of the Marvin Center:

Lobby (registration and exhibit tables)

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

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

WIFI ACCESS

Network: GWConnect

See handouts at registration desk for instructions for how to log in via guest access
CONFERENCE LOGISTICS

WORKSHOPS, RECEPTIONS AND CONFERENCE LOCATION
The George Washington University Marvin Center (red pin in the map above)
800 21st Street NW, Washington, DC 20052

LODGING

The University Inn (blue pin in the map above)
824 New Hampshire Ave NW, Washington, DC 20037

Key Bridge Marriott (yellow pin in the map above)
1401 Lee Highway, Arlington, VA 22209

METRO ACCESS

Conference events take place within walking distance of the Foggy Bottom Metro Station (green diamond on map above)
Improving the Theory & Practice of Benefit-Cost Analysis