

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.



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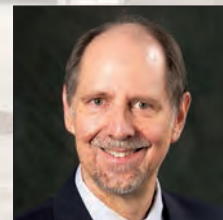
#90 full-time members of a large and interdisciplinary faculty, including:



John D. Graham, Dean



David Good



Kerry Krutilla



Denvil Duncan

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WELCOME

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)
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- W. Kip Viscusi (Vanderbilt University)
- Jack Wells (U.S. Department of Transportation - former)
- Darcy White (The Pew Charitable Trusts)

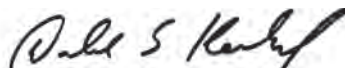
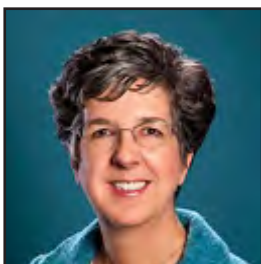
We would also like to thank the Laura and John Arnold Foundation, American Chemistry Council, ExxonMobil and the GW Regulatory Studies Center for helping to sponsor this conference. We also thank our Organizational Affiliates, Premium Members and individual donors, who are listed on the following pages.

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
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Susan E. Dudley
Past President



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Mark Cohen	Lisa A. Robinson
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Arnold Harberger	David L. Weimer
Antonio Huerta-Goldman	Jack Wells
Lynn Karoly	John Yinger
Donald S. Kenkel	

SAVE THE DATE

Annual Conference and Meeting
March 14-16, 2018 | Washington, DC

SOCIETY FOR BENEFIT-COST ANALYSIS

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.



Lynn A. Karoly
President

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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:

Benefits	Organizational Affiliate				Individual			
	Benefactor \$10,000	Sustainer \$5,000	Patron \$1,500	Supporter \$500	Premium \$200	Basic \$120	International (non OECD) \$50	Student \$25
Receive announcements about Society events	✓	✓	✓	✓	✓	✓	✓	✓
Complimentary digital subscription to Journal of Benefit-Cost Analysis	✓	✓	✓	✓	✓	✓	✓	✓
Access to member contact information	✓	✓	✓	✓	✓	✓	✓	✓
Eligible to serve on Society's Board of Directors					✓	✓	✓	✓
Discounted registration for Society's annual conference					✓	✓	✓	✓
Listing on Society's membership page with link to organization's home page	✓	✓	✓	✓	✓			
Public recognition at all Society events	✓	✓	✓	✓				
Listing on official Society correspondence except letters	✓	✓	✓					
Individual Basic Membership(s), including all related benefits	Four	Two	One	None				
Complimentary registrations for Society's annual conference	Four	Two	None	None				
Complimentary ad in conference program <u>or</u> exhibit table at conference		✓						
Complimentary ad in conference program <u>and</u> exhibit table at conference	✓							

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

- **2016 World Bank monograph** by Urvashi Narain and Chris Sall titled *Methodology for Valuing the Health Impacts of Air Pollution* cited the 2011 article “The Income Elasticity of the Value per Statistical Life: Transferring Estimates Between High and Low Income Populations” by James K. Hammitt and Lisa A. Robinson.
- **Office of Information and Regulatory Affairs**, Office of Management and Budget 2015 Report to Congress on the Benefits and Costs of Federal Regulations and Agency Compliance with the Unfunded Mandates Reform Act cited two 2015 articles: “Retrospective and Prospective Benefit-Cost Analyses of U.S. Anti-Smoking Policies” by David Cutler et al. and “Valuing Regulations Affecting Addictive or Habitual Goods” by Lawrence Jin et al.
- **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.

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JOURNALS

Journal of Benefit-Cost Analysis

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Cass R. Sunstein,
Harvard University

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Society for Benefit-Cost Analysis



DETAILED PROGRAM AGENDA

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*)
- 9:00 – 12:30 Professional Development Workshops, AM Session**
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*)
- 1:30 – 5:00 Professional Development Workshops, PM Session**
Using Experts to Estimate Parameter Values in BCA (*Marvin 308*)
Causal Analytics for Benefit-Cost Analysts: What Effects do Policies Cause? (*Marvin 310*)
- 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

Room B

Room C

<p>A.1: Valuing Mortality Risk Reductions in Low- and Middle-Income Countries: Addressing Data Gaps and Inconsistencies (Roundtable)</p> <p>Chair: Lisa A. Robinson, Harvard University</p> <p>Panelists:</p> <p><i>Nils Axel Braathen, OECD</i></p> <p><i>Maureen Cropper, University of Maryland</i></p> <p><i>James K. Hammitt, Harvard University</i></p> <p><i>Alan Krupnick, Resources for the Future</i></p> <p><i>Urvashi Narain, World Bank</i></p> <p><i>W. Kip Viscusi, Vanderbilt University</i></p>	<p>B.1: Estimating Economic Values: Methods and Applications</p> <p>Chair: Frits Bos, CPB Netherlands Bureau for Economic Policy Analysis</p> <p>Presentations:</p> <p>Sensitivity to Scope in Contingent Valuation and Discrete Choice Experiments: Results Based on Valuing Health Risk Reductions; <i>Henrik Andersson*, Toulouse School of Economics</i></p> <p>Hedonic Vices: Fixing Inferences about Willingness-to-Pay in Recent House-Value Studies; <i>John Yinger*, Syracuse University</i></p> <p>Including the Perspective of the Incarcerated Person in Jail CBAs; <i>Chris Mai*, Vera Institute of Justice</i></p>	<p>C.1: Non-Market Valuation of Environmental Goods Using Revealed and Stated Preference Methods</p> <p>Chair: Steve Newbold, U.S. Environmental Protection Agency</p> <p>Presentations:</p> <p>External Scope and Adding-Up Tests for Stated Preference Choice-Experiment Surveys; <i>Chris Moore*, U.S. Environmental Protection Agency</i></p> <p>Measuring the Effects of Offshore Wind Projects on Beach Use and Tourism on the East Coast of the United States; <i>George Parsons*, University of Delaware</i></p> <p>The Use of Social Media Data for Nonmarket Valuation; <i>Yongjie Ji*, Iowa State University</i></p> <p>The Value of Bird Biodiversity to eBirders: Exploring Citizen Science Data using a Recreational Site Choice Model; <i>Sonja Kolstoe*, Salisbury University</i></p>
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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

**Room A
Marvin 309**

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

**Room B
Marvin 307**

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

**Room C
Marvin 302**

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**

C.3: Issues in Benefit-Cost Analysis of Energy and the Environment

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*

Benefit-Cost Analysis: Problems with Product Failures; *Arthur Fraas*, Resources for the Future; and Sofie Miller*, The George Washington University*

**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*

**Room A
Marvin 309**

A.4: Advice to Policymakers For Interpreting Benefit-Cost Analysis (Roundtable)

Chair: Kerry Krutilla, Indiana University

Panelists:

Susan Dudley, The George Washington University

Heidi King

Randall Lutter, University of Virginia and Resources for the Future

Brian Mannix, The George Washington University

Al McGartland, U.S. Environmental Protection Agency

**Room B
Marvin 307**

B.4: Methodological Issues in the Application of Benefit-Cost Analysis

Chair: Lynn Karoly, RAND Corporation

Discussant: Joseph Cordes, The George Washington University

Presentations:

Distributionally Weighted Cost-Benefit-Analysis: A Three-Step Method, Merits and Limitations; *Thomas van der Pol**, CPB Netherlands Bureau for Economic Policy Analysis

Hurdle Rates, Declining Discount Rates, and Uncertain Opportunity Cost; *Daniel Wilmoth**, U.S. Small Business Administration

Macroeconomic Effects of Sterilized Intervention; *Yuxuan Huang**, The George Washington University

**Room C
Marvin 302**

C.4: Economic Valuation for Environment and Natural Resource Policy

Chair: Robin Jenkins, U.S. Environmental Protection Agency

Presentations:

Practice What You Preach: The Effectiveness of Recreational Use Value Estimates in Policy Analysis; *Martha Rogers** and *Mark Berkman, The Brattle Group*

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*

Bad Air Days: On the Valuation of Air Quality Using Different Measures of Subjective Wellbeing; *Kate Laffan** and *Paul Dolan, London School of Economics*

**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

**Room A
Marvin 309**

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

**Room B
Marvin 307**

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*

**Room C
Marvin 302**

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

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

Presentations:

National Security Benefits within the Renewable Fuel Standard; *Daniel Perez*, The George Washington University*

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*

**Room D
Marvin 301**

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

**Room E
Marvin 308**

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

**Room F
Marvin 310**

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 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

**Room D
Marvin 301**

D.6: Applications of Benefit-Cost Analysis in International Trade and Economic Development

Chair: Glenn Jenkins, Queen's University and Eastern Mediterranean University

Presentations:

Towards Meta Benefit-Cost Analysis: The Case of Brexit; *Aurelien Portuese**, *Leicester De Montfort University / King's College London*

Fukushima: U.S. Response and the Short-Term Impact on U.S.-Japan Trade in Seafood; *Aliya Sassi**, *U.S. Food and Drug Administration*

A Portfolio-Wide Assessment of MCC's Economic Rates of Return; *Marissa Block** and *Sandra Ospina**, *Millennium Challenge Corporation*

Institutional Capacity on Health Regulation, Key for Development and Global Trade; *Carlos Santos-Burgoa**, *The George Washington University*

**Room E
Marvin 308**

E.6: Issues in Valuing Costs and Benefits in Health Policy

Chair: Donald Kenkel, Cornell University

Presentations:

The PROMIS-Preference (PROPr) Score: A New Health Utility Measure; *Barry Dewitt**, *Carnegie Mellon University*

Economic Rents and Cost-Benefit Analysis - Issues and Application to Health and Energy Policy; *Ken Acks**, *Cost-Benefit Group, LLC and Environmental Valuation & Cost-Benefit News*

Eliciting Individual Preferences for End-of-Life Treatments; *Susan Chilton**, *Newcastle University*

Advanced Data Integration for Epidemiologic Modeling in Benefit-Cost Analysis: A Case for Complex Behavioral Disorders; *Xindi Hu**, *Harvard University*

**Room F
Marvin 310**

F.6: Issues and Applications in Benefit-Cost Analysis of Transportation Projects

Chair: Douglas Scheffler, U.S. Coast Guard

Discussant: Jack Wells, U.S. Department of Transportation (former)

Presentations:

The Criterion for Evaluating Transportation Projects: Social Welfare Analysis; *Omid M. Rouhani**, *McGill University*

Ex-Post Studies of Transport Investments in France; *Emile Quinet**, *Ecole des Ponts-ParisTech, on behalf of David Meunier, MINES ParisTech*

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*

**Room A
Marvin 309**

A.7: Developing Guidance or Best Practices for Regulatory Impact Analysis (Roundtable)

Chair: Lisa Robinson, Harvard University

Panelists:

Deborah Aiken, U.S. Department of Transportation

Elizabeth Ashley, U.S. Office of Management and Budget

Amber Jessup, U.S. Department of Health & Human Services

Al McGartland, U.S. Environmental Protection Agency

Clark Nardinelli, U.S. Food and Drug Administration

**Room B
Marvin 307**

B.7: Ex Ante and Ex Post Applications of Benefit-Cost Analysis

Chair: Richard Bruns, U.S. Food and Drug Administration

Discussant: Brian Mannix, The George Washington University

Presentations:

Retrospective Benefit-Cost Analysis of Federally-Funded Buyback Programs for Southeast Alaska Salmon Purse Seine Permits; *Keith Criddle*, University of Alaska Fairbanks*

Combining Ex Post and Ex Ante Analyses to Assess the Performance of a Historical Biocontrol Program for Diffuse Knapweed; *Duncan Knowler*, Simon Fraser University*

Benefit-Cost Analysis in Educational Regulatory Actions; *Viviana Rodriguez-Andrade*, CBCSE - Columbia University*

**Room C
Marvin 302**

C.7: Distributional Issues: Applications in Energy and the Environment

Chair: Kelly Maguire, U.S. Environmental Protection Agency

Presentations:

Preferences for Equality in Environmental Outcomes; *William Raich*, Industrial Economics, Inc.*

Differential and Distributional Effects of Energy Efficiency Surveys: Evidence from Electricity Consumption; *Thomas Kniesner*, Claremont Graduate University*

Are There Distributional Impacts from the National Flood Insurance Program?; *Okmyung Bin*, East Carolina University*

Distributional Weights in Environmental Valuation and Cost-Benefit Analysis; *Vaino Nurmi*, Finnish Meteorological Institute*

**Room D
Marvin 301**

**D.7: Benefit-Cost Analysis
in Economic Development**

Chair: Julian Cristia, Inter-American Development Bank

Presentations:

Educational Gender Discrimination and its Economic Developmental Impact; *Fatima Ali**

Access and Quality in Higher Education Project (Paces) - Higher Education Student Loans in Colombia; *Felipe Lozano-Rojas**, *Indiana University and World Bank*

Gender Impacts in Benefit-Cost Analysis; *Bahman Kashi**, *Queen's University; Jennifer Watt and Kamin Peyrow, Queen's University; Stephanie Schmidt, International Development Group*

Estimating Mortality and Economic Costs of Particulate Air Pollution in Developing Countries: The Case of Nigeria; *Natina Yaduma**, *American University of Nigeria*

**Room E
Marvin 308**

**E.7: Benefits and Costs in
the Regulation of Financial
Markets**

Chair: Heidi King

Presentations:

Benefits and Costs of Bank Regulatory Capital Standards; *James R. Barth, Auburn University; and Stephen Miller**, *Mercatus Center at George Mason University*

The Systemic Risk Paradox: Costly Regulations and Consolidation in Heterogeneous Financial Markets with Uncertainty; *Sharon Brown-Hruska** and *Trevor Wagener, NERA Economic Consulting*

Improvements in SEC Economic Analysis since Business Roundtable: A Structured Assessment; *Jerry Ellig**, *Mercatus Center at George Mason University*

International Trade and the Willingness to Pay by SMEs for Online Banking Services; *Glenn Jenkins**, *Queen's University and Eastern Mediterranean University and Parvaneh Shahnoori, Eastern Mediterranean University*

**Room A
Marvin 309**

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

**Room B
Marvin 307**

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

**Room C
Marvin 302**

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

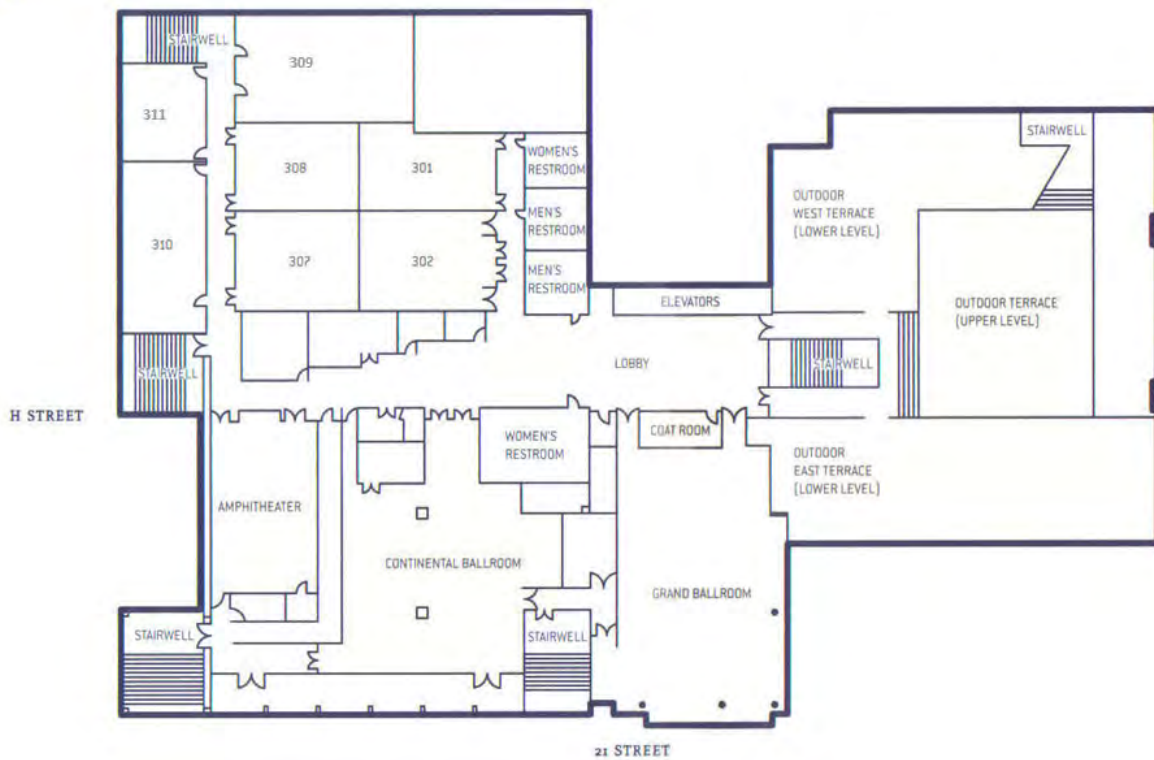
**Room D
Marvin 301**

**Room E
Marvin 308**

<p>D.8: Issues in Valuing Outcomes in BCAs of Social Programs</p> <p>Chair: Anne Gordon, Mathematica Policy Research</p> <p>Presentations:</p> <p>Reducing the Double Counting of Benefits: A Bayesian Approach to Model Multiple Outcomes in Education Evaluations; <i>Yilin Pan*</i>, <i>Columbia University</i>; and <i>Wenjie Joanna Zhang</i>, <i>The George Washington University</i></p> <p>Private Investments in Public Preschools: the Use of CBA in Determining the Feasibility of Pay-for-Success Contracts; <i>Judy Temple*</i>, <i>University of Minnesota</i></p> <p>The Impact of Job Satisfaction on Subjective Well-Being; <i>Tapas Ray*</i>, <i>U.S. Centers for Disease Control and Prevention</i></p> <p>Project Finance through Impact Investment in the Social Sector; <i>Jay Mackinnon*</i> and <i>Bahman Kashi*</i>, <i>Limestone Analytics</i></p>	<p>E.8: Issues in Costs and Benefits in Agriculture Policy</p> <p>Chair: Elisabeth Newcomb, U.S. Food and Drug Administration</p> <p>Discussant: Sandra Hoffmann, U.S. Department of Agriculture</p> <p>Presentations:</p> <p>Corn or Cattle? Comparison of Ecosystem Services under Different Land Uses; <i>Haochi Zheng*</i> and <i>Stefano Potter*</i>, <i>University of North Dakota</i></p> <p>The Impact of Groundwater Depletion on Farm Exit Rates in the High Plains; <i>Bern Dealy*</i>, <i>U.S. Food and Drug Administration</i></p> <p>Reliable Reduction in Agricultural Runoff under Environmental Uncertainty; <i>Zhiyu Wang*</i>, <i>University of Minnesota</i></p>	
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MARVIN CENTER FLOOR PLAN

THIRD FLOOR



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