12th Annual SBCA Conference & Meeting

March 16-18, 2020

The Marvin Center | The George Washington University
O’NEILL
SCHOOL OF PUBLIC AND ENVIRONMENTAL AFFAIRS

#1 in the world for Public Administration
– ShanghaiRanking: Global Ranking of Academic Subjects, 2019

#1 MPA program in the U.S.
– U.S. News & World Report, 2019

The O’Neill School’s research and teaching faculty includes these scholars:

Slán Mooney, Dean
Keith Belton
Sanya Carley
Denvil Duncan
David Good

John D. Graham
Brad Heim
Kerry Krutilla
Anthony Liu
Kosali Simon
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## Thank You to Our Founding Institution

**EVANS SCHOOL OF PUBLIC POLICY & GOVERNANCE**

**UNIVERSITY of WASHINGTON**
Welcome

Dear Friends and Colleagues,

Welcome to the 2020 Society for Benefit-Cost Analysis Annual Conference and Meeting. We have 40 excellent sessions that reflect the broad mandate of this year’s theme: Promoting Objectivity & Relevance in Benefit-Cost Analysis. The presentations cover topics of global relevance, reflecting the international reach of our field and Society. The presentations also reflect the wide scope for benefit-cost analysis, tackling subjects as diverse as vaping, policing, alleviating poverty, the value of changes in mortality and morbidity, 2019’s regulatory reviews, using satellite data, drones, and much more.

In addition to the sessions, we hope you enjoy our evening reception on Monday. This year the receptions will include several posters to inform you about the Journal, the Society’s 2020 European Conference, and some new professional offerings coming soon to our website. On Monday, over lunch we will hold our membership meeting, which will include announcements of the Society’s awards for outstanding achievements in our field as well as for our Journal’s outstanding content in 2019. We will also discuss plans for the Society’s future and how you can be part of those plans. Please feel free to contact any of the Board members with your suggestions or ideas.

At lunch on Tuesday, we will welcome our keynote speaker, Binyamin Appelbaum, who writes about economics and business for the editorial page of The New York Times. Appelbaum will talk about his book, The Economists’ Hour: False Prophets, Free Markets, and the Fracture of Society, and his views on the history and future of benefit-cost analysis as a tool for advising government policymaking.

We are also indebted to the 2020 Workshop Committee for arranging a very strong set of professional development workshops for Wednesday:

- Steven Lize, Chair, Pew Charitable Trusts
- Aliya Sassi, U.S. Food and Drug Administration
- Jennifer Baxter, Industrial Economics, Inc.
- Stuart Shapiro, Rutgers University
- Cristina McLaughlin, U.S. Food and Drug Administration

We would also like to welcome our sponsors:
American Petroleum Institute; Environment and Climate Change Canada; the Center for Health Decision Science, Harvard T.H. Chan School of Public Health; Fisheries and Oceans Canada; the Toulouse School of Economics; and The George Washington University’s Regulatory Studies Center. Additionally, we want to thank our Organizational Affiliates, particularly those that joined at the Sustainer level: Regulatory Analysis Economic Analysis Directorate, Fisheries and Oceans Canada, and Industrial Economics, Inc. as well as those at the Patron level: Community of Federal Regulators – Government of Canada, Goldman School of Public Policy at the University of California, Berkeley, NERA Economic Consulting, The George Washington University Regulatory Studies Center, and Mathematica Policy Research. The generosity of all these organizations has been critical for the Society as it looks to transition from its MacArthur Foundation grant beginnings to become a vibrant, objective, and sustained force for improvement in our field.

And finally, we would like to thank you, SBCA’s members and Conference participants, for your many contributions to the Society, to this Conference, and to benefit-cost analysis. We hope that we will see you at future Conferences and other Society events.

We look forward to seeing each of you at this year’s Conference.

Sincerely,

Craig Thornton, President and Conference Chair
Dale Whittington, Vice President
Clark Nardinelli, Past President
Sustainers:

Industrial Economics Inc.*
Fisheries and Oceans Canada
Regulatory Analysis, Economic Analysis Directorate

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Labour Program, Employment, and Social Development Canada
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MDRC
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*Sponsor Affiliates
The 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.

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*President*  
Mathematica Policy Research  
(Retired)

Dale Whittington  
*Vice President*  
University of North Carolina at Chapel Hill

Clark Nardinelli  
*Past President*  
U.S. Food and Drug Administration  
(Retired)

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W. Kip Viscusi  
David Weimer  
John Wells  
Dale Whittington  
Ayda Yurekli

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Glenn Blomquist, University of Kentucky  
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Joseph Devlin, Environment and Climate Change Canada  
Susan Dudley, The George Washington University Regulatory Studies Center  
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Fran Sussman, Independent Consultant

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Cristina McLaughlin, U.S. Food & Drug Administration  
Clark Nardinelli, U.S. Food & Drug Administration  
Stuart Shapiro, Rutgers University  
Aliya Sassi, U.S. Food and Drug Administration  
Craig Thornton (Mathematica Policy Research)
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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<th>BENEFITS</th>
<th>ORGANIZATIONAL AFFILIATE</th>
<th>INDIVIDUAL</th>
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<tr>
<td></td>
<td>Benefactor $10,000</td>
<td>Premium $200</td>
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<td>Sustainer $5,000</td>
<td>Basic $120</td>
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<tr>
<td></td>
<td>Patron $2,500</td>
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<tr>
<td></td>
<td>Supporter $1,000</td>
<td></td>
</tr>
<tr>
<td>Receive announcements about Society events</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Complimentary digital subscription to <em>Journal of Benefit-Cost Analysis</em></td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Access to member contact information</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Eligible to serve on Society’s Board of Directors</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Discounted registration for Society’s Annual Conference</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Listing on Society’s membership page with link to organization’s home page</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Public recognition at all Society events</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Listing on official Society correspondence except letters</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Individual Basic Membership(s), including all related benefits</td>
<td>Four</td>
<td>Two</td>
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<tr>
<td>Complimentary registrations for Society’s Annual Conference</td>
<td>Four</td>
<td>Two</td>
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<tr>
<td>Complimentary ad in Conference program or exhibit table at Conference</td>
<td>✔</td>
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<tr>
<td>Complimentary ad in Conference program and exhibit table at Conference</td>
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To join the SBCA, please visit https://benefitcostanalysis.org/overview
Membership information and forms will also be available at the Conference registration table.
The *Journal of Benefit-Cost Analysis* is 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.

### Best Articles for 2019

The article awards committee consisted of Amanda Ross, W. Kip Viscusi (chair), and David Weimer.

The best article award recipient for a novel contribution is “Estimates of Enforcement Costs by Crime Type for Benefit-Cost Analysis,” by Priscilla Evelyne Hunt, Jessica Saunders, and Beau Kilmer. This article developed new empirical estimates of the marginal costs of policing for different crime response services. In particular, it generated estimates of the average variable costs for different law enforcement responses. Using Monte Carlo analysis, the article also examined the uncertainty of these estimates.

The award for best case study/applied benefit-cost analysis is for “Applying Benefit-Cost Analysis to Air Pollution Control in the Indian Power Sector,” by Maureen Cropper, Sarath Guttikunda, Puja Jawahar, Zachary Lazri, Kabir Malik, Xiao-Peng Song, and Xinlu Yao. This case study provided an analysis of the benefits of reducing sulfate emissions from coal-fired electric power plants. The article monetized the mortality reduction benefits using a benefit transfer approach that was based on value of a statistical life estimates from higher income countries. Their analysis also examined the variation in benefits by location.

The award for outstanding symposium is for the special issue edited by Lisa Robinson, “Benefit-Cost Analysis in Low- and Middle-Income Countries: Methods and Case Studies.” The issue included nine thematically related articles addressing a wide range of topics pertinent to low- and middle-income countries. Among the issues considered were selection of the appropriate value of a statistical life and a series of case studies on a wide range of topic areas such as education, nutrition, and tuberculosis. The case study award recipient on air pollution control in India was also part of the symposium.

“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

Access the homepage at: cambridge.org/JBCA

Activate content alerts: cambridge.org/JBCA-alerts

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Journal

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SBCA gratefully acknowledges the contributions of the Journal editorial team. The journal would not be possible without the support of the Editorial Board members, authors, and reviewers.

HOW CAN WE PROTECT THE ENVIRONMENT WHILE SUPPORTING JOBS?
BY WORKING TOGETHER.

U.S. natural gas and oil development funds 90% of the Land and Water Conservation Fund — one of the largest federal conservation programs in the country. The industry also adds $1.3 trillion to our economy. That means Americans don’t have to choose between safeguarding nature and millions of jobs — we can do both. Learn what we can accomplish together at EnergyForProgress.org.
Conference Summary

All Conference activities will be held on the third floor of the Marvin Center, GWU.

Unless noted below, Conference sessions will start each day at 9:00 am and run for 90 minutes throughout the day on Monday and Tuesday. Please see detailed schedule for specific session start times, topics, and speakers.

All Conference registrants are invited to attend all sessions. Luncheons, refreshment breaks, and receptions are open to all individuals registered for the Conference.

Key Events

SOCIETY AWARDS & BUSINESS LUNCHEON
Monday | March 16
12:15 to 2:00 pm

LUNCHEON KEYNOTE ADDRESS
Binyamin Appelbaum
Tuesday | March 17
12:15 to 2:00 pm

Receptions

NETWORKING RECEPTION
Monday | March 16
5:30 to 7:30 pm

Registration

Monday | March 16
8:00 am to 5:30 pm

Tuesday | March 17
8:00 am to 5:00 pm

Wednesday Workshops | March 18
8:00 am to 2:00 pm

Workshops

Wednesday | March 18
Morning Session: 9:00 am to 12:30 pm

Wednesday | March 18
Lunch on Your Own: 12:30 to 1:45 pm

Wednesday | March 18
Afternoon Session: 1:45 pm to 5:15 pm
## Schedule

### DAY 1  MONDAY, MARCH 16

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<td>9:00 am – 10:30 am</td>
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<td></td>
<td>An Empirical Analysis of Legal Challenges to Regulatory Policymaking Under Trump</td>
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<td>Bethany Davis Noll, NYU School of Law – Institute for Policy Integrity</td>
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<td>Trump, Deregulation, the Courts, and Benefit-Cost Analysis</td>
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<td>John Graham, Indiana University</td>
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<td>Economic Analysis and Litigation Risk</td>
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<td>Nancy Bergeron, Measurement Canada &amp; CBA Community of Practice of the Community of Federal Regulators</td>
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<td>Electricity Shortages and Costs of Self-Generation</td>
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<td>Majid Hashemi, Clemson University</td>
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<td>Estimating Consumer Willingness to Pay for Solar PV Under Uncertainty</td>
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<td>Martin Heintzelman, Clarkson University</td>
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<td>Regulating the Energy Transition: FERC and Cost-Benefit Analysis</td>
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<td>Avi Zevin, Institute for Policy Integrity at NYU Law</td>
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<td>Room: Marvin 309</td>
<td>1.C Roadways to Better Highway and Infrastructure Investments</td>
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<td>Chair: Deborah Aiken, U.S. Department of Transportation</td>
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<td>Discussant: Jack Wells, Director, Office of Economic and Strategic Analysis (retired)</td>
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<td>Measuring the Impact of Gender Empowerment from Rural Road Improvement Program in Morocco</td>
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<td>Takeshi Daimon, Waseda University</td>
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<td>Using HDM-4 to Reduce Costs or Improve Precision of Road Cost-Benefit Analyses</td>
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<td>Jack Molyneaux, Millennium Challenge Corporation</td>
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<td>Cindy Sobieski, Millennium Challenge Corporation</td>
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<td>Cost-Benefits Analysis for Brazilian Transport Infrastructure</td>
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<td>Cicero Rodrigues De Melo Filho, Empresa De Planejamento E Logistica – EPL</td>
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<td>Dornelas Munhoz, Empresa De Planejamento E Logistica – EPL</td>
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### Room: Marvin 301

#### 1.D Social Program Evaluation

**Chair:** Lynn Karoly, RAND  
**Discussant:** Sue Hamann, PhD, NIH/NIDCR/OD

**Presentations:**
- **Benefit-Cost Analysis of the PMTO-ADAPT Program for Military Families with Deployed Parents**  
  Hayley Rahl-Brigman, University of Minnesota – Twin Cities  
  Nishank Varshney, University of Minnesota – Twin Cities
- **Effectiveness of Screened, Demand-Driven Job Training Programs for Disadvantaged Workers**  
  Matthew Baird, RAND Corporation
- **A Comparison of VA Telehealth and Standard Health Care Services among Veterans**  
  Tamara Lee, Department of Veterans Affairs  
  Eddie Thomas, Department of Veterans Affairs  
  Mark Guagliardo, Department of Veterans Affairs

### Room: Marvin 307


**Chair/Discussant:** Steven Lize, The Pew Charitable Trusts

**Panel:**
- **Legislatively Driven Efforts to Advance the Use of Data and Evidence in Budgeting**  
  Micaela Fischer, New Mexico Legislative Finance Committee
- **Dynamic Marginal Cost and Bridging the Gap Between CBA Theory and Actual Budgeting Practices**  
  Nathaniel Inglis Steinfeld, Illinois Sentencing Policy Advisory Council  
  Adam Groner, Illinois Governor’s Office of Management and Budget
- **Integrating Benefit Cost-Analysis and Evidence Teams in the Executive Budget Office**  
  Carrie Hollis, North Carolina Office of State Budget and Management

**10:30 am – 10:45 am**  
**BREAK | Grand Ballroom | Continental Ballroom**
### 10:45 am – 12:15 pm

#### SESSION 2

**Room: Amphitheatre**

**Chair:** Clark Nardinelli, Past President, Society for Benefit-Cost Analysis

**2.A The Year in Review: Benefits and Costs of Major 2019 Rules**

**Presenters:**
- Susan Dudley, George Washington University Regulatory Studies Center, Former OIRA Administrator
- Dominic Mancini, OIRA
- Howard Shelanski, Georgetown University Law School, Former OIRA Administrator
- Stuart Shapiro, Rutgers University
- Jonathan B. Wiener, Duke University School of Law

**Room: Marvin 309**

**2.B Nothing Is More Practical than Good Theories/Methods—I**

**Chair:** Dan Acland, University of California, Berkeley, Goldman School of Public Policy

**Discussant:** Matthew Adler, Duke University School of Law

**Presentations:**
- The Efficiency-Equity Trade-off, Self-Interest, and Moral Principles in Valuation
  - Danae Arroyos-Calvera, University of Birmingham
- Value of a Life Year and Discounting of Conditional Risk Sequences
  - Rebecca McDonald, University of Birmingham
- Gains and Losses: Socially Costly Choices of Benefit-Cost Measures and Further Test Results of New Method to Improve
  - Jack Knetch, Simon Fraser University, Department of Economics
- When Is a Dollar Not Worth a Dollar? Irrationality and the Value of Cash Transfers
  - Dan Acland, University of California, Berkeley, Goldman School of Public Policy

**Room: Marvin 302**

**2.C Transportation, Social Welfare, and Distributional Effects**

**Chair:** Kelly Maguire, U.S. Department of Agriculture

**Presentations:**
- Estimating Cost Effectiveness and Distributional Impact of Sector Investment Program in Morocco
  - Takeshi Daion, Waseda University, School of International Liberal Studies
- Is It Expensive to Be Poor? The Case of Public Transport in Sweden
  - Henrik Andersson, Toulouse School of Economics
- Estimating Wider Economic Benefits in North America
  - Pierre Vilain, Steer
  - Alka Johri, Metrolinx
  - Megan Brock, Steer
  - Armando Orta Madero, Steer
  - Patrick Miller, Steer
  - Daniel Burke, Steer
### 2.D Health Care Costs

**Chair:** Bridget Dooling, George Washington University, Regulatory Studies Center  
**Discussant:** Sandra Hoffman, U.S. Department of Agriculture  
**Presentations:**

- **Does Medicare Part D Extend Lives**  
  *Medicare Part D and Mortality*  
  Katherine Toran, U.S. Food and Drug Administration

- **Emergency Department Charges Associated with Fall Injuries**  
  *An Analysis of the NEDS Data*  
  Uma Kelekar, Marymount University

- **Estimating the Cost of Illness Using Hospital Discharge Data**  
  Sandra Hoffman, U.S. Department of Agriculture

- **The Effect of Hospital-Physician Integration on Hospital Costs**  
  Damien Sheehan-Connor, Wesleyan University  
  Stephen McCarthy, Wesleyan

### 2.E Food and Agriculture Presentations

**Chair:** Linda Abbott  
**Presentations:**

- **Economic Evaluation of an Early Childhood Development Center? Based Agriculture and Nutrition Intervention in Malawi**  
  Aulo Gelli, International Food Policy Research Institute

- **Appraising the Costs and Benefits of Reform to Delivery of Regulatory Controls of U.K. Food Businesses**  
  Lea Milanovic, Food Standards Agency, United Kingdom

- **Using Public Comment on Regulatory Reform (EO 13771) Requests to Identify Regulations that Affect Productivity**  
  Daniel Perez, George Washington Regulatory Studies Center  
  Zoey Xie, George Washington Regulatory Studies Center  
  Mark Febrizio, George Washington Regulatory Studies Center

- **Distribution, Impacts, and Cost-Effectiveness of Strategies to Limit the Spread of Red Imported Fire Ants in the U.S.**  
  Paul Mwebaze, University of California, Davis
Schedule (Monday continued)

12:15 pm – 2:00 pm LUNCHEON: SOCIETY AWARDS AND BUSINESS | Grand Ballroom | Continental Ballroom

### SOCIETY AWARDS:
- Richard Zerbe Distinguished Service Award
- Outstanding Achievement Award
- SBCA Outstanding Dissertation Award

### Journal Awards:
- Best Article Published in 2019
- Best Symposium Published in 2019
- Best Case Study/Applied Benefit-Cost Analysis in 2019

### Society Business:
- Finances, Strategic Initiatives, New Business

2:00 pm – 3:30 pm SESSION 3

**Room: Amphitheatre**


- **Chair/Discussant:** Lisa A. Robinson, Harvard T.H. Chan School of Public Health
- **Presentations:**
  - The Social-Welfare Function Framework: An Overview
  - Valuing Mortality Risk Reduction Using Social Welfare Functions
  - Social Welfare Functions and the Value of Vaccination
  - James Hammitt, Harvard T.H. Chan School of Public Health

**Room: Marvin 309**

#### 3.B Challenges in Public Decision Making

- **Chair/Discussant:** Steve Lize, The Pew Charitable Trusts
- **Presentations:**
  - Mixing Water and Economics in the Upper Midwest Is Like Mixing Water and Oil
  - Measuring What Matters in Public Procurement Law: Efficiency, Quality, and More
  - Transparency in Agency Benefit-Cost Analysis
  - Caroline Cecot, George Mason University, Antonin Scalia Law School
  - Joshua Erickson, North Dakota State University
  - Desiree Klinger, Yale Law School
### Room: Marvin 302

#### 3.C Assessing Large Infrastructure Investments

| Chair: Henrik Andersson, Toulouse School of Economics |
| Discussant: James Gillespie, Virginia Transportation Research Council |

**Presentations:**
- **The Benefits and Costs of Coastal Resilience Investments under Deep Uncertainty: The Case of Ebeye, Marshall Islands**
  - Tijen Arin, The World Bank
- **Applying Resiliency to Cost-Benefit Analyses for Maritime Port Infrastructure**
  - Christopher Eshleman, Port Authority of New York and New Jersey
  - Daphne Federing, HDR
- **The Economics of Physics: Social Cost-Benefit Analysis of Large Research Infrastructures**
  - Chiara Pancotti, CSIL – Centre for Industrial Studies
- **Static and Dynamic Agglomeration Calculations for Benefit-Cost Analysis**
  - Daniel Graham, Imperial College London

### Room: Marvin 301

#### 3.D Challenges and Successes in Conducting Studies of Costs and Benefits of Federally Funded Health Policies and Programs

| Chair: Sue Hamann, National Institutes of Health/NIDCR |
| Discussant: Patrick Richard, F. Edward Hebert School of Medicine, Uniformed Services University |

**Presentations:**
- **Economic Assessment of Benefits of Research on Work-Related Injury and Illness: Learning from Six Case Studies**
  - Tim Bushnell, CDC/National Institute for Occupational Safety and Health
- **Economic Assessment of the Benefits of Occupational Safety and Health Research: A Case Study on Ambulance Re-Design**
  - Brian Quay, CDC/National Institute for Occupational Safety and Health
- **Assigning Attribution in Economic Impact Studies of Biomedical Research**
  - Sue Hamann, National Institutes of Health/NIDCR

### Room: Marvin 307

#### 3.E Roundtable Discussion: Analyzing and Presenting the Uncertainty in Benefit-Cost Analysis

| Chair: Craig Thornton, Mathematica Policy Research, Inc. |
| Panel: Susan Dudley, George Washington University Regulatory Studies Center |
  - Nancy Bergeron, Measurement Canada & CBA Community of Practice of the Community of Federal Regulators
  - David Long, Princeton Policy Associates
  - Clark Nardinelli, Past President, Society for Benefit-Cost Analysis
  - Randall Lutter, U.S. Food and Drug Administration

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**3:30 pm – 3:45 pm BREAK | Grand Ballroom | Continental Ballroom**
### SESSION 4

#### 4.A Perspectives on Equity

**Chair:** Craig Thornton, Mathematica Policy Research  
**Discussant:** Bridget Dooling, George Washington University, Regulatory Studies Center  
**Presentations:**

- **Can Cost-Benefit Decisions Be Made More Humane?**  
  - Adam Finkel, University of Michigan  

- **Decision Processes Matter**  
  - Howard Shelanski, Georgetown University Law  

- **Can We Efficiently Compensate “Losers?”**  
  - Craig Thornton, Mathematica Policy Research  

- **Accounting for Equity in RIAs**  
  - Richard Benware, U.S. Environmental Protection Agency  

---

#### 4.B Valuing Greenhouse Gas Reductions

**Chair/Discussant:** Jeremy G. Weber, Council of Economic Advisers  
**Presentations:**

- **Option Value and the Social Cost of Carbon**  
  - Alexander Golub, American University  

- **The Effect of Climate Change on the Size and Costs of Wildfires: Evidence from Wildfires in U.S. National Forests**  
  - Dallas Wood, RTI International  
  - Kevin Rennert, Resources for the Future  

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#### 4.C Roundtable Discussion: Benefit-Cost Analysis of Enabling Regulations: De-Regulation and Innovation in the Aviation Industry

**Chair:** Nellie Lew, Federal Aviation Administration  
**Panel:**

- Deborah Aiken, Department of Transportation  
- Jennifer Baxter, Industrial Economics, Inc.  
- Todd Steiner, Federal Aviation Administration  
- Jeff Wharff, Federal Aviation Administration
<table>
<thead>
<tr>
<th>Room: Marvin 301</th>
<th><strong>4.D Health Valuation of Morbidity</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Chair:</strong></td>
<td>William Raich, Industrial Economics, Inc.</td>
</tr>
<tr>
<td><strong>Discussant:</strong></td>
<td>Kelly Maguire, U.S. Department of Agriculture</td>
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<tr>
<td><strong>Panel:</strong></td>
<td>Estimates of First-Year Quality-Adjusted Life-Year Loss for Injuries and Poisonings in the United States</td>
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<tr>
<td>William Raich, Industrial Economics, Inc.</td>
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<tr>
<td><strong>Do Preferences to Reduce Health Risks Related to Air Pollution Depend on Illness Type? Evidence from a Choice Experiment in Beijing, China</strong></td>
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<tr>
<td>Henrik Andersson, Toulouse School of Economics</td>
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<tr>
<td><strong>Eliciting Willingness to Pay for Improved Dental Health</strong></td>
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<td>Stephen Resch, Harvard School of Public Health</td>
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<table>
<thead>
<tr>
<th>Room: Marvin 307</th>
<th><strong>4.E Innovative Benefit-Cost Applications</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chair/Discussant:</strong></td>
<td>Eliane Catilina, U.S. Environmental Protection Agency</td>
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<tr>
<td><strong>Presentations:</strong></td>
<td>Assessing the Cost of Disaster Recovery and Funding for the Puerto Rico Economic and Disaster Recovery Plan</td>
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<tr>
<td>David Metz, RAND Corporation</td>
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<tr>
<td>Stated Preferences from Kenya and Ghana, to Inform Benefit-Cost Analysis of Charity Interventions</td>
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<td>Alice Redfern, IDinsight</td>
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<td>Sindy-Li, IDinsight</td>
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| **5:30 pm – 7:30 pm** | **NETWORKING RECEPTION | Grand Ballroom | Continental Ballroom** |
|-----------------------|------------------------|
| Please visit SBCA's poster displays that showcase key Society initiatives such as our 2020 European Conference in Stockholm; a new “Ask the Experts” feature coming to a new SBCA website; the merits of enterprise-level support; our world-famous blog; and, of course, the *Journal of Benefit-Cost Analysis*. |
### DAY 2 TUESDAY, MARCH 17

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>8:00 am – 9:00 am</td>
<td>REGISTRATION AND BREAKFAST</td>
</tr>
<tr>
<td>9:00 am – 10:30 am</td>
<td><strong>SESSION 5</strong></td>
</tr>
<tr>
<td><strong>Room: Amphitheatre</strong></td>
<td><strong>5.A Roundtable Discussion: Recent Developments in the Market for Vaping Products and the Implications for Benefit-Cost Analysis</strong></td>
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<tr>
<td>Chair:</td>
<td>Donald Kenkel, Cornell University</td>
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<tr>
<td>Panel:</td>
<td>Hua Wang, Cornell University, W. Kip Viscusi, Vanderbilt University, Michael Pesko, Georgia State University, Ayda Yurekli, Foundation for a Smoke Free World</td>
</tr>
<tr>
<td><strong>Room: Marvin 309</strong></td>
<td><strong>5.B Looking Backwards, Looking Inwards</strong></td>
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<tr>
<td>Chair/Discussant:</td>
<td>Joe Devlin, Environment and Climate Change Canada</td>
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</tbody>
</table>
| Presentations:  | *Is the Replacement of the Clean Power Plan by the Affordable Clean Energy Rule Justified under Cost-Benefit Analysis?* Carolina Arlota, University of Oklahoma: College of Law  
*A Retrospective Review of Retrospective Cost Analyses* Elizabeth Kopits, United States Environmental Protection Agency  
*A Retrospective Review of Retrospective Cost Analyses*  
*CPP vs. ACE: Economics or Ethics* Tim Brennan, University of Maryland – Baltimore County  
*Institutional Roles and Goals for Retrospective Review* Jonathan Wiener, Duke University School of Law |
| **Room: Marvin 302** | **5.C Moving Applications: Benefits and Costs in the Transportation Sector** |
| Chair/Discussant:  | Christopher Eshleman, Port Authority of New York and New Jersey (tentative) |
| Presentations:  | *The Institutional Dimension of BCA in the Transport Sector* Matteo Pedralli, Centre for Industrial Studies  
*Economics (and Emotional Support Ducks) in Aviation Consumer Protection Regulation: Benefit-Cost and Beyond* Deborah Aiken, U.S. Department of Transportation  
*Spatial Distribution of Agglomeration Economies: Estimation of Distance Decay Parameters with Heterogenous Areas* Stephen Brumbaugh, U.S. Department of Transportation  
*Spatial Distribution of Agglomeration Economies: Estimation of Distance Decay Parameters with Heterogenous Areas* Ana Teresa Vargas Frutos, Imperial College London |
### 5.D The Value of Health

**Chair:** David Widawsky, U.S. Environmental Protection Agency

**Presentations:**

- **When Dollars and DALYs Collide: Minimizing Error When Measuring Disease Burden Reduction**  
  Ted Miller, Pacific Institute for Research & Evaluation

- **Cost-Benefit Analysis of the Effects of an Early Childhood Intervention on Adult Health at Age 37**  
  Judy Temple, University of Minnesota – Twin Cities

- **Estimated Value of Avoiding Cancer Risks by Cancer Site and Population**  
  Matthew LaPenta, Abt Associates, Inc.

- **You Can’t Get There from Here: Federal Health Benefits Analyses**  
  Richard Williams

### 5.E Social Program Evaluations: Results and Methods

**Chair:** Demetra Nightingale, Urban Institute

**Discussant:** David L. Weimer, University of Wisconsin, Madison

**Presentations:**

- **The Cost-Effectiveness of Giving Budget Flexibility to Public Housing Authorities**  
  David Long, Princeton Policy Associates

- **Benefit-Cost Analysis of Affordable Housing Programs in New York City**  
  Kenneth Acks, NYU Schack RE Cost-Benefit GR, LLC & Env Valuation & CB News

- **The Importance of Covariation in Monte Carlo Analysis: An Illustration from the BOND Benefit-Cost Study**  
  Daniel Gubits, Abt Associates, Inc.

### 10:30 am – 10:45 am

**BREAK**

**10:45 am – 12:15 pm**

### SESSION 6

**Room: Amphitheatre**

### 6.A Health Valuation of Mortality

**Chair:** Jennifer Baxter, Industrial Economics, Inc.

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

**Presentations:**

- **Value per Statistical Life Year (VSLY) and Its Dependence on the Time Path of Risk Reduction: Stated-Preference Estimates**  
  James K. Hammitt, Harvard University (Center for Risk Analysis) and Toulouse School of Economics (University of Toulouse)

- **Risk Perception, Learning, and Parents’ Willingness to Pay to Reduce Heart Disease Risks**  
  Mark Dickie, Department of Economics, University of Central Florida

- **Does the Value per Statistical Life Vary with Age or Baseline Health? Evidence from a Compensating Wage Study in France**  
  Daniel Herrera-Araujo, Université Paris-Dauphine
### Room: Marvin 309

#### 6.B The 20,000-Foot View, Really! (Advancing the Evaluation of the Socio-Economic Benefits of Earth Observation)

**Chair:** Massimo Florio, Department of Economics, Management, Quantitative Methods, Università degli Studi di Milano

**Discussant:** Carl D. Shapiro, United States Geological Survey

**Panel:**

- **Using Microeconomics to Measure the Societal Benefits of Earth Observations**
  - Bethany Mabee, Resources for the Future

- **The Socio-Economic Benefits of Earth Observation: Measurement Methods and Challenges Ahead**
  - Valentina Morretta, Department of Economics, Management, Quantitative Methods, Università Degli Studi di Milano

- **The Societal Benefits of Earth Observations: Impact Assessment Results**
  - Yusuke Kuwayama, Resources for the Future

  - Massimo Florio, Department of Economics, Management, Quantitative Methods, Università Degli Studi di Milano

### Room: Marvin 302

#### 6.C BCA of Cars, Dirt, and Chemicals

**Chair:** John Powers, Public Company Accounting Oversight Board (PCAOB)

**Presentations:**

- **Potential Air Quality Benefit per Truck Estimates of a Future Reduction in the NOx Emissions from New HDOH Vehicles**
  - Bharat Ramkrishnan, NERA Economic Consulting

- **Do the Benefits of Mandatory Vehicle Inspection and Maintenance under the Drive Clean Program in Ontario Outweigh the Cost**
  - Rakhal Sarker, University of Guelph

- **Confounding in Long-Term Epidemiological Studies of Particulate Matter: Implications for Estimated Benefits**
  - Garrett Glasgow, NERA Economic Consulting

- **An Economics-Based Method for Estimating Chemical Risks in Regulatory Benefit-Cost Analysis**
  - Richard Belzer, Regulatory Checkbook

### Room: Marvin 301

#### 6.D Data and Securities Market Security

**Chair/Discussant:** Connor Raso, Securities and Exchange Commission & Georgetown Law

**Presentations:**

- **A Dynamic Economic Evaluation of Cyber Security Investment**
  - Kerry Krutilla, O’Neill School, Indiana University – Bloomington

- **Estimating the Costs and Benefits of a Federal Privacy Law**
  - William Rinehart, American Action Forum

- **Weighing Costs and Benefits in EU Administrative Practice: The Case of European Securities and Markets Authority**
  - Letizia Gianni, European University Institute – Yale Law School
### 6.E Deregulation and Judicial Review

**Chair:** Eliane Catilina, U.S. Environmental Protection Agency  
**Discussant:** Bethany Davis Noll, NYU School of Law—Institute for Policy Integrity  
**Presentations:**  
- **Benefit-Cost Analysis of Judicial Review of Regulation**  
  Kyle Rozema, Washington University in St. Louis  
- **Analysis of U.S. De-Regulatory Actions**  
  Douglas Scheffler  
- **Judicial Review of Regulatory Impact Analysis: Why Not the Best?**  
  Reeve Bull, Administrative Conference of the United States

**12:15 pm – 2:00 pm**  
**LUNCHEON AND KEYNOTE ADDRESS**  
<table>
<thead>
<tr>
<th>Grand Ballroom</th>
<th>Continental Ballroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Binyamin Appelbaum, <em>The New York Times</em></td>
<td></td>
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</tbody>
</table>
**Economists’ Hour: False Prophets, Free Markets, and the Fracture of Society**

**2:00 pm – 3:30 pm**  
**SESSION 7**

**Room: Amphitheatre**  
**7.A Dodging Bullets and Bombs**

**Chair:** Glenn Blomquist, University of Kentucky  
**Discussant:** Kyle Rozema, Washington University in St. Louis  
**Presentations:**  
- **Deterring Police Shootings**  
  W. Kip Viscusi, Vanderbilt University  
- **Benefit Analysis of the 1994 Assault Weapons Ban**  
  James Oehmke, Northwestern University  
- **Strategies for Controlling Access to Precursor Chemicals to Reduce the Threat of Improvised Explosive Device Attacks**  
  Victoria Greenfield, RAND Corporation

**Room: Marvin 309**  
**7.B More BCA, Less Sludge**

**Chair:** Randall Lutter, U.S. Food and Drug Administration  
**Discussant:** Donald Kenkel, Cornell University  
**Presentations:**  
- **The Ascendency of the Cost-Benefit State?**  
  Paul Noe, American Forest & Paper Association  
  John Graham, University of Indiana, School of Public & Environmental Affairs  
- **The Impacts of Environmental Regulations on Technological Innovation**  
  Miriam Matejova, Environment and Climate Change Canada  
- **Analysis of Paperwork Burden from U.S. EPA**  
  Amy Lamson, U.S. Environmental Protection Agency  
  **Reducing EPA’s Paperwork Burden: Lessons Learned**  
  Nena Shaw, U.S. Environmental Protection Agency  
  Amy Lamson, U.S. Environmental Protection Agency
### 7.C Quantifying and Valuing Environmental Health Risks

**Chair/Discussant:** Lisa A. Robinson, Harvard T.H. Chan School of Public Health

**Presentations:**
- **Valuing the Benefits of Reducing Childhood Lead Exposure—Human Capital, Parental Preferences, or Both?**
  - Ying Zhou, National Center for Environmental Health, Centers for Disease Control and Prevention
- **Shale Gas Development, Air Quality, and Birth Outcomes in Pennsylvania**
  - Alan Krupnick, Resources for the Future
- **Quantifying Non-Cancer Risks for Benefits Analysis**
  - Chris Dockins, National Center for Environmental Economics, U.S. Environmental Protection Agency
- **What Value Do We Attach to Climate Action?**
  - Alain Quinet, SNCF Reseau

### 7.D Alleviating Poverty

**Chair:** Paul Peretz, Claremont Graduate University

**Discussant:** David Long, Princeton Policy Associates

**Presentations:**
- **Analyzing Proposed Changes to the Ohio State EITC**
  - Rob Moore, Scioto Analysis
  - Tong Zhou, Scioto Analysis
- **Using Implementation Research to Assess Program Costs: Lessons from Two Evaluations of Programs for Opportunity Youth**
  - Louisa Treskon, MDRC
- **The Use of Benefit-Cost Analysis in Philanthropic Efforts to Alleviate Poverty**
  - Judy Temple, University of Minnesota – Twin Cities

### 7.E The Economics of Economic Analysis in Government

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

**Discussant:** John Powers, Public Company Accounting Oversight Board (PCAOB)

**Presentations:**
- **The Organization of Economists at Federal Regulatory Agencies**
  - Jerry Ellig, GWU Regulatory Studies Center
- **Regulatory Impact Analysis and Judicial Review**
  - Zhoudan Xie, GWU Regulatory Studies Center
- **Does the Relationship Between Regulation and Manufacturing Productivity Differ by the Form of Regulation?**
  - Mark Febrizio, GWU Regulatory Studies Center

**3:30 pm – 3:45 pm** BREAK | Grand Ballroom | Continental Ballroom
<table>
<thead>
<tr>
<th>Time</th>
<th>SESSION 8</th>
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</thead>
</table>
| 3:45 pm – 5:15 pm | **8.A Remembering Martin Weitzman and the Challenges He Identified for Benefit-Cost Analysis**  
| Room: Amphitheatre | Chairs: Al McGartland, Environmental Protection Agency  
|               | Ann Wolverton, Environmental Protection Agency  
|               | Panel: Bengt Kriström, Swedish University of Agricultural Sciences, Department of Forest Economics, will speak to Marty’s influence on green accounting  
|               | Bob Schmitt, U.S. Department of Energy, will speak as a former student of Marty’s  
|               | Jim Hammitt, Harvard T.H. Chan School of Public Health, will speak to Marty’s influence in the area of discounting over long time horizons  
|               | Alexander Golub, American University, will discuss Marty’s research on the fat tail risk and its relevance to the economics of climate change  

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<thead>
<tr>
<th>Time</th>
<th>SESSION 8</th>
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</table>
| Room: Marvin 309 | **8.B Nothing Is More Practical than Good Theories/Methods—II**  
| Chair: Tom Kniesner, Claremont Graduate University  
| Discussant: Susan Dudley, GWU Regulatory Studies Center  
| Presentations: Estimating Economic Impacts on Small Business (Regulatory Flexibility Analyses)  
| Lauren Masatsugu, Abt Associates, Inc.  
| Co-Benefits, Countervailing Risks, and Cost-Benefit Analysis  
| John Graham, Indiana University  
| Jonathan Wiener, Duke University School of Law  
| Whenever Possible? Trends in Quantification from across the Atlantic—An Analysis of Impact Assessments in the EU  
| Joseph Dunne, Director of the European Parliament Liaison Office in Washington, D.C.  
| Katharina Eisele, Ex-Ante Impact Assessment Unit of the European Parliamentary Research Service (EPRS), Brussels  
| Benefit-Cost Analysis and Cost-Benefit Analysis: Moral Sentiments and the Potential Compensation Test  
| Richard Zerbe, University of Washington  

<table>
<thead>
<tr>
<th>Time</th>
<th>SESSION 8</th>
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</thead>
</table>
| Room: Marvin 302 | **8.C Big Implications of Tiny Items: Regulating Particulates**  
| Chair: Laura Stanley, GWU Regulatory Studies Center  
| Presenters: Adam Gustafson, Boyden Gray & Associates PLLC  
| Caroline Cecot, Antonin Scalia Law School, George Mason University  
| Brian Mannix, GWU Regulatory Studies Center  
| Connor Raso, Securities and Exchange Commission & Georgetown Law |
### 8.D Roundtable Discussion: Optimal Allocation of Resources in Regulatory Analysis Review

**Room: Marvin 301**

**Chair:** Elisabeth Newcomb, Small Business Administration Office of Advocacy

**Panel:** Oliver Sherouse, Small Business Administration Office of Advocacy

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### 8.E Deregulatory BCAs on Food Safety Regulations under E.O. 13771

**Room: Marvin 307**

**Chair:** Linda Abbott, U.S. Department of Agriculture

**Discussant:** Joseph Devlin, Environment and Climate Change Canada

**Panel:** Deregulatory BCAs on Food Safety Regulations under E.O. 13771

- April Regonlinski, U.S. Department of Agriculture
- The USDA Food Safety and Inspection Service (FSIS) Rule to Amend Egg Products Inspection Regulations
- Bryan Maculloch, U.S. Department of Agriculture
- The Hog Carcass Cleaning Rule and Modernization of Swine Slaughter Inspection Rule
- Andrew Pugliese, U.S. Department of Agriculture
- Benefit-Cost Analysis for “Elimination of the Requirement That Livestock Carcasses Be Marked ‘U.S. Inspected and Passed’ at the Time of Inspection within a Slaughter Establishment for Carcasses to Be Further Processed within the Same Establishment”
- Flora Tsui, U.S. Department of Agriculture
- Amber Jessup, ASPE/HHS
- Michael McManus, OIRA/OMB
- Jerry Ellig, GWU Regulatory Studies Center

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**SCIOTO**

**ANALYSIS**

**Tax & Budget | Economic Development | Health and Human Services**
## WEDNESDAY, MARCH 18

### POST-CONFERENCE WORKSHOPS

*Post-Conference Workshops require separate registration and are not included in the Annual Conference registration.*

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<thead>
<tr>
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<th>Activities</th>
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<tbody>
<tr>
<td>8:00 am – 9:00 am</td>
<td><strong>REGISTRATION FOR FULL-DAY &amp; HALF-DAY WORKSHOPS</strong></td>
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<tr>
<td>9:00 am – 12:30 pm</td>
<td><strong>PROFESSIONAL DEVELOPMENT WORKSHOPS</strong></td>
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<tr>
<td>Room: Marvin 308</td>
<td><strong>Workshop 1: Deregulatory Benefit-Cost Analysis</strong></td>
</tr>
<tr>
<td>Organized by:</td>
<td>Jennifer Baxter, Industrial Economics, Inc.</td>
</tr>
<tr>
<td>Presenters:</td>
<td>Bethany Davis Knoll, New York University School of Law</td>
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<td>Libby Ashley, U.S. Office of Management and Budget</td>
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<td>Jerry Ellig, GWU Regulatory Studies Center</td>
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<td>Amber Jessup, U.S. Department of Health and Human Services</td>
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<tr>
<td>Room: Marvin 301</td>
<td><strong>Workshop 2: Benefit-Cost Analysis for Beginners</strong></td>
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<tr>
<td>Organized by:</td>
<td>Glenn Blomquist, University of Kentucky</td>
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<tr>
<td>Presenter:</td>
<td>David Weimer, University of Wisconsin-Madison</td>
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<tr>
<td>Room: Marvin 307</td>
<td><strong>Workshop 3: Introduction to Benefit-Cost Analysis for Regulatory Impact Analysis</strong></td>
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<tr>
<td>Organized by:</td>
<td>Charles Griffiths, U.S. Environmental Protection Agency</td>
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<tr>
<td>Presenters:</td>
<td>Chris Dockins, U.S. Environmental Protection Agency</td>
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<td>Aliya Sassi, U.S. Food and Drug Administration</td>
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<tr>
<td>12:30 pm – 1:45 pm</td>
<td><strong>LUNCH</strong></td>
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<tr>
<td>12:45 pm – 1:45 pm</td>
<td><strong>AFTERNOON WORKSHOP REGISTRATION</strong></td>
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<tr>
<td>1:45 pm – 5:15 pm</td>
<td><strong>PROFESSIONAL DEVELOPMENT WORKSHOPS</strong></td>
</tr>
<tr>
<td>Room: Marvin 307</td>
<td><strong>Workshop 4: Addressing Uncertainty and Non-Quantified Effects in Benefit-Cost Analysis</strong></td>
</tr>
<tr>
<td>Organized by:</td>
<td>Jennifer Baxter, Industrial Economics Inc.</td>
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<tr>
<td>Presenters:</td>
<td>Victoria Greenfield, RAND Corporation</td>
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<td>Aylin Sertkaya, Eastern Research Group</td>
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<td>David Weimer, University of Wisconsin-Madison</td>
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Workshops (Wednesday continued)

Room: Marvin 301  **Workshop 5: A Voice Crying in the Wilderness? Techniques for Promoting the Use of Evidence and BCA Results to Policymakers**
- Organized by: Steven Lize, The Pew Charitable Trusts
- Presenters: Gary VanLandingham, The Florida State University
  John Kamensky, IBM Center for Business of Government

Room: Marvin 308  **Workshop 6: Valuing Changes in Health and Longevity**
- Presenters: Chris Dockins, U.S. Environmental Protection Agency
  Sandra Hoffman, U.S. Department of Agriculture
  Stephen Resch, Harvard T.H. Chan School of Public Health

Floor Plan

Conference and workshop events will take place in the following locations throughout the 3rd floor of the Marvin Center:

- Registration and Exhibit Tables: Lobby
- Breaks, Lunches, and Receptions: Grand Ballroom
- Continental Ballroom
- Conference Sessions:
  - A: Amphitheatre
  - B: Marvin 309
  - C: Marvin 302
  - D: Marvin 301
  - E: Marvin 307

Workshops:
- Marvin 301
- Marvin 307
- Marvin 308

WiFi Access

Network: GWConnect
See information at registration desk for instructions for how to log in via guest access.
Workshops, Receptions and Conference Location

The George Washington University Marvin Center
800 21st Street NW, Washington, DC 20052
(far right pin in the map above)

Lodging

Melrose Georgetown Hotel
2430 Pennsylvania Ave. NW, Washington, DC 20037
(far left pin in the map above)

Metro Access

Conference events take place within walking distance of the
Foggy Bottom Metro Station
2301 I St NW, Washington, DC 20037
(center pin in the map above)
Dissertation Award

The Society for Benefit-Cost Analysis will be making an annual award for the best PhD thesis dealing with the theory or practice of benefit-cost analysis. The award is intended to recognize outstanding work by promising new researchers in the field. The award is accompanied by a $1,000 cash prize and the winner will be recognized at the SBCA Annual Meeting.

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:

- Benefit-cost analysis
- Cost-effectiveness analysis
- Cost analysis
- Regulatory impact analysis
- Risk-benefit analysis
- Applied welfare economic analysis
- Damage assessments

For applied research, illustrative substantive areas include:

- Civil and criminal justice
- 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

The dissertation may be primarily focused on the theory or application of benefit-cost analysis, or it may be contained in a portion of the work (e.g., a subset of the chapters of the dissertation or one paper of a multi-paper dissertation).

Submissions will be due October 1, 2020

A dissertation will be eligible if it was successfully defended in the two years prior to the October 1 application deadline. Eligible dissertations must have been accepted by an accredited institution of higher education in any country in fulfillment of a doctoral degree. The degree field is not limited to economics. Dissertations must be written in English.

For additional information, please see the SBCA website at: https://benefitcostanalysis.org/sbca-outstanding-dissertation-award
Industrial Economics, Incorporated

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Since 1981, we have supported natural resource managers, regulators, attorneys, and other decision-makers involved in public policy development and implementation. We excel at solving complex, multidisciplinary problems, leveraging a unique combination of analytic rigor, creativity, and insight.

Focus areas:
- Natural resource management
- Public policy analysis
- Applied economics
- Finance & forensic analysis
- Program design & evaluation
- Information technologies & communication

Examples of our work
- Natural resource damage assessment
- Cost-benefit analysis of regulations
- Application of non-market valuation techniques
- Litigation support
- Development of decision-support tools
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