

**Thursday, 30 May**  
**09:00-10:30**

**1. : Agri-environmental Policy --Martis Peak A**

- *Spatial Spillovers from Conservation Policies in Common Property Resources* [Mani Rouhi Rad, Colorado State University](#); Dale Manning, Colorado State University; Jordan Suter, Colorado State University; Chris Goemans, Colorado State University
- *Wind Energy and Agricultural Production -- Evidence from Farm-Level Data* [Tengjiao Chen, University of Illinois, Urbana-Champaign](#)
- *Flexible Buffer Systems: Enhancing Ecosystem Services and Expanding Agricultural Options in Riparian Areas* [Xiaogu Li, Pennsylvania State University](#); Katherine Zipp, Pennsylvania State University; James Shortle, Pennsylvania State University; Heather Gall, Pennsylvania State University; Fei Jiang, Pennsylvania State University
- *The Effect of Land Use Restrictions Protecting Endangered Species on Agricultural Land Values* [Richard Melstrom, Loyola University Chicago](#)

**2. : Pollution Control --Martis Peak B**

- *Short-Run and Long-Run Impacts of Environmental Regulations on Firm Productivity: Evidence from the U.S. Electricity Sector, 1938-1999 (RANKING = 1)* [Akshaya Jha, Carnegie Mellon University](#); Karen Clay, Carnegie Mellon University; Edson Severnini, Carnegie Mellon University; Joshua Lewis, University of Montreal
- *The Economics of Regulatory Repeal* Alan Krupnick, Resources for the Future; [Arthur Fraas, Resources for the Future](#)
- *The Global Consumer Incidence of Carbon Pricing: Evidence from Trade* [Lutz Sager, London School of Economics](#)
- *Local incidence of a Massachusetts carbon tax* [Susan Stratton Sayre, Smith College](#)

**3. : Fisheries 3 --Martis Peak C**

- *FOOD AND FRAUD: ON THE CODFATHER AND HARVEST MISLABELING* [Jorge Holzer, University of Maryland at College Park](#); Geret DePiper, NOAA Fisheries
- *Estimating stock abundance effects when abundance is unobservable: An application to the Alaska longline halibut fishery* Somenath Bera, Iowa State university; Helle Bunzel, Iowa State university; [Quinn R A Weninger, Iowa State university](#)
- *Running to Stand Still: Common Property Induced Inertia in the Spatial Commons* [Yutaro Sakai, Arizona State University](#); Joshua Abbott, Arizona State University; Alan Haynie, NOAA Fisheries
- *A new procedure for valuing and maintaining a viable bycatch stock* [Pierce Donovan, University of California, Davis](#)

**4. : Renewable Energy: Theory and Empirics --Pyramid Peak**

- *Using a welfare-based metric to better incentivize electric utilities for high-renewable power systems* Hyun-gyu Kim, University of Hawaii, Manoa; [Michael J. Roberts, University of Hawaii, Manoa](#); Matthias Fripp, University of Hawaii, Manoa
- *The Value of Renewables: Observational and Experimental Evidence from the United States and Europe* [MARTEN OVAERE, Yale University](#); Kenneth Gillingham, Yale University
- *Gone with the Wind: Consumer Surplus from Renewable Generation* [Matthew Ridge Butner, University of Colorado Boulder](#)

- *"Access to Alternatives: Increasing Rooftop Solar Adoption with Online Platforms"* [Jackson Dorsey, Indiana University](#)

#### 5. : Deforestation, Property Rights and Monitoring --Regency A

- *Monitoring, Politics and Deforestation in the Amazon* [Arthur Bragança, PUC-Rio](#); Ricardo Dahis, Northwestern University
- *Can communal resource monitoring save the commons? Evidence from community-managed forests in Uganda* [Sabrina Eisenbarth, University of Exeter](#); Anouk Rigterink, University of Oxford; Louis Graham, Busara Centre for Behavioural Economics; Channing Jang, Busara Centre for Behavioural Economics; Ariana Keyman, Busara Centre for Behavioural Economics
- *Property Rights and Resource Extraction: Evidence from Deforestation in the Amazon* [Dimitri Szerman, University of Mannheim](#); Juliano Assunção, Climate Policy Initiative & PUC-Rio; Marco Gonzalez-Navarro, University of California at Berkeley
- *Deforestation in Common Property Resources: The Case of Community Forest Management in Mexico* [Pablo Jose Ordonez, University of Illinois at Urbana of Champaign](#); Kathy Baylis, University of Illinois at Urbana of Champaign; Isabel Ramírez, CIGA - Universidad Autónoma de México

#### 6. : Field Experiments: Time Preferences and Information Effects --Regency B

- *Is Time or Comfort Preferred for Taking Shared Transit? Evidence from a Field Experiment* Paul Chang, Microsoft; [Jacob LaRiviere, Microsoft](#)
- *Natural hazards nudges: Testing personalized information and social comparisons in the context of wildfire risk* [Patricia Ann Champ, U.S. Forest Service](#)
- *Time and Risk Preferences: A large, incentivized experiment* [Collin Weigel, Johns Hopkins University](#); Paul Ferraro, Johns Hopkins University; Maria Bernedo, University of Maryland, Baltimore County
- *Voting and information: Evidence from a large survey and randomized controlled trial* [Stefano Carattini, Georgia State University](#); Anomitra Chatterjee, Georgia State University; Todd Cherry, Appalachian State University; Steffen Kallbekken, University of Oslo

#### 7. : Impacts and Management of Wildfires --Regency D

- *Incentives and Liability Rules for Wildfire Risk Management* [Christian Langpap, Oregon State University](#); JunJie Wu, Oregon State University
- *Wildfire Risk, Salience and Housing Development in the Wildland-Urban Interface* [Shawn J. McCoy, University of Nevada, Las Vegas](#); Katie Jo Black, Kenyon College; Nicholas Irwin, University of Nevada, Las Vegas
- *Inequality and Government Responsiveness: Evidence from Salient Wildfire Events* [Matthew Wibbenmeyer, Resources for the Future](#); Sarah Anderson, University of California, Santa Barbara; Andrew Plantinga, University of California, Santa Barbara
- *The Impact of Wildfires on Housing Markets in California* [Samuel Evans, Mills College](#); Matthew Potts, University of California at Berkeley; Felipe De Figueiredo Silva, University of California at Berkeley

#### 8. : Transportation: Innovation and Pricing --Regency E

- *The Margins of Response to Road Use Prices* [Leslie Martin, University of Melbourne](#); Sam Thornton, Productivity Commission
- *Speeding Up Innovation: Rethinking the performance and fuel economy tradeoff for light-duty vehicles under regulation* [Asa Watten, Michigan State University](#); Gloria Helfand, Environmental Protection Agency; Andrew Moskalik, US Environmental Protection Agency

- *Mobility as a Service: A new open data policy for a greener urban future* [Hendrik Wolff, Simon Fraser University](#)
- *Is Uber's Price Right? Congestion vs Market Power in the Ride-hailing Industry* [Julian A. Gomez-Gelvez, University of Maryland, College Park](#)

#### 9. : Finance and the Environment --Regency F

- *Clean Energy Investment and Credit Rationing* [Karol Kempa, Frankfurt School of Finance & Management; Christian Haas, Justus-Liebig University Giessen](#)
- *How do lenders price energy efficiency ? Evidence from posted interest rates for consumer credit in France* [Louis-Gaëtan Giraudet, CIRED; Anna Petronevich, Banque de France](#)
- *The Impact of State Renewable Portfolio Standards on Electric Utilities' Stock Returns* Tao Tao, Clark University; [Wayne B Gray, Clark University](#)
- *Does Relocation Affect the Environmental Performance of Toxic Facilities?* [Xiao Wang, University of Illinois at Urbana of Champaign; George Deltas, University of Illinois at Urbana of Champaign; Madhu Khanna, University of Illinois at Urbana of Champaign; Xiang Bi, University of Florida](#)

#### 10. Sponsored Session : Tragedies of the Commons: New Tests, New Results, with applications to fisheries and water resources --Castle Peak A

- *Credit Market Development and Resource Extraction: Evidence from Global Fisheries* Frederik Noack, University of British Columbia; Christopher Costello, University of California, Santa Barbara
- *Non-Parametric Tests of the Tragedy of the Commons* [H.Spencer Banzhaf, Georgia State University](#); Yaqin Liu, Georgia State University; Frank Asche, University of Florida; Martin Smith, Duke University
- *Spatial Externalities in Groundwater Extraction: Evidence from California Agriculture* Fiona Burlig, University of Chicago; Louis Preonas, University of Chicago; Matt Woerman, University of California, Berkeley

##### Session Chair:

- Martin Smith

##### Discussants:

- Kyle C. Meng, University of California, Santa Barbara
- Jennifer Alix-Garcia, Oregon State University
- Charles Mason, University of Wyoming

#### 11. Organized Session: Advances in Estimating the Social Cost of Carbon --Castle Peak B

- *Long-run projections of economic growth to support social cost of carbon estimation* Kevin J Rennert, Resources for the Future; Roger Cooke, Resources for the Future; David Anthoff, University of California, Berkeley
- *The climate and ocean in the social cost of carbon* David Anthoff, University of California, Berkeley; Frank Errickson, University of California, Berkeley
- *Discounting approach for the social cost of carbon* [Richard Newell, Resources for the Future](#); William Pizer, Duke University; Brian C. Prest, Resources for the Future
- *Discounting for public cost-benefit analysis* Qingran Li, Duke University; William Pizer, Duke University

#### 12. Organized Session: Early Childhood Exposure to Pollutants and Cognitive Development, Health and Behavior --Regency C

- *Early Childhood Lead Exposure and Educational Trajectory into Adolescence* [Ron Shadbegian, US EPA NCEE](#); Heather Klemick, National Center for Environmental Economics, USEPA; Denny Guignet, Appalachian State University; Linda Bui, Brandeis University
- *How do Coarse Particles and Ozone Affect Children's Health? Evidence from South Korea* Moon Joon Kim, Duke Kunshan University; [Ron Shadbegian, US EPA NCEE](#); Young Sook Eom, Chonbuk National University
- *The Effects of Pollution on High Stakes Accountability School Grades and Student Achievement* Claudia Persico, American University

**Discussants:**

- Ron Shadbegian, US EPA NCEE
- Moon Joon Kim, Duke Kunshan University
- David Simon, University of Connecticut
- Claudia Persico, American University

**11:00-12:30**

**13. : Carbon Regulation --Castle Peak B**

- *China's Unconventional Nationwide CO2 Emissions Trading System: Tradeoffs between Cost and Distributional Objectives* [Lawrence H Goulder, Stanford University](#); Xianling Long, Stanford University; Jieyi Lu, Resources for the Future; Richard Morgenstern, Resources for the Future
- *Output and Attribute-Based Carbon Regulation Under Uncertainty* [Ryan Kellogg, University of Chicago](#)
- *Emissions floor price options for EU member states* [Carolyn Fischer, University of Ottawa](#); Christoph Boehringer, University of Oldenburg
- *Regulating Stock Externalities* [Roweno J.R.K. Heijmans, Tilburg University](#); Reyer Gerlagh, Tilburg University

**14. : Air Pollution: Costs and Impacts of Regulation --Martis Peak B**

- *Correlated Pollutants, Avoidance and Local Environmental Policy: Analyzing California's Ocean Going-Vessel Fuel Rule* [Richard Klotz, Colgate University](#); Julia Berazneva, Middlebury College
- *Regulatory Spillover and Climate Co-benefits: Evidence from the New Source Review* [Yichen Christy Zhou, Clemson University](#); Ron Chan, University of Manchester
- *The Effect of Port Traffic and Regulation on Air Pollution* Kenneth Gillingham, Yale University; [Pei Huang, Yale University](#)
- *P2 Participation as an Indirect Source of Intra-firm Pollution Leakage?* [Binish Rijal, University of California, Irvine](#); Neha Khanna, Binghamton University

**15. : Biodiversity 2 --Martis Peak C**

- *Bioeconomic Grizzly Bear Management* [David Christopher Finnoff, University of Wyoming](#); Aaron Enriquez, University of Wyoming
- *Determinants of Avian Species Biodiversity in the United States: The Role of Land-Use Change and Pesticide Use* [Yijia Li, University of Illinois at Urbana of Champaign](#); Madhu Khanna, University of Illinois at Urbana of Champaign; Ruiqing Miao, Auburn University
- *Biodiversity and Economic Land Use* Matthew Cole, University of Birmingham; Robert Elliott, University of Birmingham; [Eric Strobl, University of Bern](#)
- *Optimal spatial-dynamic management to minimize the damages caused by aquatic invasive species* [Katherine Zipp, Pennsylvania State University](#); Ludmil Zikatanov, Pennsylvania State University

**16. : Targeting and Development of Wind, Gas and Oil --Pyramid Peak**

- *Learning Where to Drill: Drilling Decisions and Geological Quality in the Haynesville Shale* [Mark Agerton, University of California, Davis](#)
- *Oil and gas well targeting: Associated gas, wet gas, and the implications for supply and methane emissions* Gavin Roberts, Weber State University; [Ben Gilbert, Colorado School of Mines](#)
- *Setbacks as policy instruments: Evidence from Colorado oil and gas wells* Sean Ericson, University of Colorado - Boulder; [Daniel Kaffine, University of Colorado - Boulder](#); Peter Maniloff, Colorado School of Mines
- *The Effects of Land Ownership on Wind Energy Development* [Justin B. Winikoff, University of Wisconsin, Madison](#); Dominic Parker, University of Wisconsin, Madison

#### 17. : Environment and Development: Environmental Quality and Health --Regency A

- *The Hidden Cost of Electricity Outages: Air Pollution in Delhi* [Yatang Lin, Hong Kong University of Science and Technology](#); Dana Kassem, University of Mannheim
- *Social capital and choice of clean cooking and safe sanitation in India* [Ipsita Das, Duke University](#)
- *The Health Impacts of Coal-Fired Power Plants in India and the Co-benefits of GHG Reductions* [Maureen L Cropper, University of Maryland at College Park](#); Ryna Cui, Joint Global Change Research Institute; Sarath Guttikunda, Urban Emissions Info; Nate Hultman, University of Maryland at College Park; Puja Jawahar, Urban Emissions Info; Haewon McJeon, Joint Global Change Research Institute; Yongjoon Park, University of Maryland at College Park; Xinlu Yao, University of Maryland at College Park
- *Estimating the Pollution and Health Impacts of Renewable Energy Investments in Chile* Nathaly M. Rivera, University of Alaska, Anchorage; Cristobal Ruiz-Tagle, Environmental Defense Fund; [Beia Spiller, Environmental Defense Fund](#)

#### 18. : Topics in Revealed Preferences --Regency B

- *The Value of a Statistical Life: Evidence from Seniors' Medical Expenditures* Jonathan Ketcham, Arizona State University; [Nicolai V Kuminoff, Arizona State University](#); Nirman Saha, Arizona State University
- *Age Variation in the Income Elasticity of the Value of a Statistical Life* [Joseph E Aldy, Harvard Kennedy School](#); Seamus Smyth,
- *An Integrated Dynamic Model of Residential Sorting and Health Capital* [Sophie Mathes, Arizona State University](#)
- *Biases of using aggregate data to infer individual voting preferences* [Corey Lang, University of Rhode Island](#); Shanna Pearson-Merkowitz, University of Rhode Island

#### 19. : Impacts of Air Pollution on Health and Behavior --Regency C

- *The Effect of Pollution on Aggressive Behavior: Evidence From Wildfire Smoke and Crime* Jesse Burkhardt, Colorado State University; [Jude Bayham, Colorado State University](#); Ander Wilson, Colorado State University; Ellison Carter, Colorado State University; Jesse Berman, University of Minnesota; Katelyn ODell, Colorado State University; Bonne Ford, Colorado State University; Emily Fischer, Colorado State University; Jeffrey Pierce, Colorado State University
- *The Cost of Coal by Wire: Power Plant Pollution and Child Health in India* Raahil Madhok, University of British Columbia; Rohini Pande, Harvard University; [Kevin Atwell Rowe, Harvard University](#); Anish Sugathan, Indian Institute of Management Ahmedabad
- *Blowing Smoke: Health Impacts of Wildfire Plume Dynamics* Nolan Miller, University of Illinois, Urbana-Champaign; David Molitor, University of Illinois, Urbana-Champaign; [Eric Zou, Cornell University](#)
- *Air pollution and cardiovascular health: evidence from agricultural fires in India* [Hemant Pullabhotla, University of Illinois, Urbana-Champaign](#); Mateus Souza, University of Illinois, Urbana-Champaign

#### 20. : Energy Efficiency and Electricity Pricing --Regency F

- *Does Increasing Block Pricing Decrease Residential Electricity Use?* [Becka Brolinson, Georgetown University](#)
- *Information Treatments, Attention, and the Energy Efficiency Gap: Evidence from China* [Graham Beattie, Loyola Marymount University](#); [Andrea La Nauze, University of Pittsburgh](#); [Iza Ding, University of Pittsburgh](#)
- *Environmental and Social Benefits of Time of Use Electricity Pricing* [Matt Harding, University of California, Irvine](#); [Kyle Kettler, University of California, Irvine](#); [Carlos Lamarche, University of Kentucky](#)

#### **21. Sponsored Session : Valuing Water --Castle Peak A**

- *The value of water quality: separating amenity and recreational benefits* [Sheila Olmstead, University of Texas at Austin](#); [Yusuke Kuwayama, Resources for the Future](#); [Jiameng Zheng, University of Texas at Austin](#)
- *Testing the water: Drinking water quality, public notification, and school outcomes* [Michelle Marcus, Vanderbilt University](#)
- *Do nonlinear prices work? Distributional and efficiency consequences of budget-based water rates* [Casey Wichman,](#); [Daniel Brent, Pennsylvania State University](#); [Derek Wietelman, Resources for the Future](#)

#### **Discussants:**

- [Daniel Phaneuf, University of Wisconsin, Madison](#)
- [Jay Shimshack, University of Virginia](#)
- [Fiona Burlig, University of Chicago](#)

#### **22. Regular Session: Agriculture and Climate Change --Martis Peak A**

- *Weather Fluctuations, Expectation Formation, and Short-run Behavioral Responses to Climate Change* [Xinde Ji, Virginia Tech](#); [Kelly Cobourn, Virginia Tech](#)
- *Drought Shocks, Household Risk Sharing and Occupational Choices* [Sayahnika Basu, Arizona State University](#)
- *Climate Adaptation and Conservation Agriculture Among Peruvian Farmers* [Yaniv Stopnitzky, University of San Francisco](#); [Heleene Tabet, International Food Policy Research Institute](#)
- *Agricultural Adaptation to Climatic Changes, and the Critical Role of Water* [Andrew Hultgren, University of California, Berkeley](#); [Tamma Carleton, University of Chicago](#); [Solomon Hsiang, University of California at Berkeley](#); [Michael Greenstone, University of Chicago](#); [Ashwin Rode, University of Chicago](#); [Amir Jina, University of Chicago](#); [James Rising, London School of Economics](#); [Robert Kopp, Rutgers University](#)

**15:15-16:45**

#### **23. : Pollution Control: Enforcement and Compliance --Martis Peak B**

- *When Threats Become Credible: A Natural Experiment of Environmental Enforcement from Florida* [Wesley Blundell, California State University, East Bay](#)
- *When the regulator goes home: Effectiveness of environmental oversight* [Jason M. Walter, University of Wisconsin, Stout](#); [Zach Raff, University of Wisconsin-Stout](#)
- *Testing the Emission Reductions Claims of CDM Projects using Benford's Law* [David Maddison, University of Birmingham](#); [Matthew Cole, University of Birmingham](#); [Liyun Zhang, University of Birmingham](#)
- *Cold Case: The forensic economics of energy efficiency labels for domestic refrigeration appliances* [Timo Goeschl, Heidelberg University](#)

#### **24. : Fisheries 1 --Martis Peak C**

- *Empirical Structural Analysis of Value Generation Under Rights-Based Fisheries Management* [Anna M. Birkenbach, University of Delaware](#); [Min-Yang Lee, NOAA Fisheries](#); [Martin Smith, Duke University](#)

- *An Age-structured Backward-bending Supply of Fish: Implications for Conservation of Bluefin Tuna* [Martin Smith, Duke University](#); Qingran Li, Duke University; Rachel Karasik, Duke University; Julia Bronnmann, University of Leipzig; Martin Quaas, University of Leipzig
- *When are Commercial Fisheries a Resource Curse? Lessons from a Tribal Fishery* [Dominic Parker, University of Wisconsin, Madison](#); Thanicha Ruangmas, University of Maryland; Randal Rucker, Montana State University
- *Walking a Tight Line: Management of a New Arctic Fishery In the Presence of Spatially Differentiated Ecological-Economic Externalities* [Linda Maria Fernandez, Virginia Commonwealth University](#); Brooks Kaiser, Southern Denmark University; Melina Kourantidou, Southern Denmark University

#### 25. : Energy: Storage, Intermittency and Misallocation --Pyramid Peak

- *Thermal Storage and Electrification of Residential Energy Use* [Dallas Burtraw, Resources for the Future](#); Karen Palmer, Resources for the Future; Jhih-Shyang Shih, Resources for the Future; Xiaoyu Liu, Capital One
- *The Effect of California's Cap and Trade Program on Carbon Emissions Reductions* [Steven Sexton, Carnegie Mellon University](#); Louis Preonas, University of Chicago
- *Costs of misallocation in Indian electricity supply* [Fiona Burlig, University of Chicago](#); Akshaya Jha, Carnegie Mellon University; Louis Preonas, University of Chicago
- *Energy and Misallocation: Evidence from Brazil* Juliano Assunção, Climate Policy Initiative & PUC-Rio; Sara Brotalho, Pontificia Universidade Catolica do Rio de Janeiro; [Amanda Motta Schutze, Pontificia Universidade Catolica do Rio de Janeiro](#)

#### 26. : Natural Resources Management: Growth, Social Benefits and Productivity --Regency A

- *Identifying Linkages between Natural Resources Management and Economic Growth: An Application in Uganda* [Jacqueline Willwerth, Industrial Economics, Inc.](#); Kenneth Strzepek, Industrial Economics, Inc.; Brent Boehlert, Industrial Economics, Inc.; James Thurlow, International Food Policy Research Institute; James Neumann, Industrial Economics, Inc.
- *Deforestation Policies: a Tool to Shape Productivity?* [Fanny Moffette, University of Wisconsin, Madison](#); Marin Skidmore, University of Wisconsin, Madison; Holly Gibbs, University of Wisconsin, Madison
- *Assessing the private and social benefits of forest concessions in the Maya Biosphere Reserve* [Corinne Bocci, Ohio State University](#); Brent Sohngen, Ohio State University
- *Over-exploitation of natural resources is followed by inevitable declines in economic growth and discount rate* [Adam Lampert, Arizona State University](#)

#### 27. : Stated Preferences: Methods and Applications --Regency B

- *Estimating the value of threatened species abundance dynamics: a structural econometric approach using choice experiment data* [David Kling, Oregon State University](#); David Lewis, Oregon State University; Steven J. Dundas, Oregon State University; Daniel Lew, NOAA Fisheries
- *Variable uncertainty in spatially informed discrete choice models* [Klaus Moeltner, Virginia Tech](#); Robert Johnston, Clark University; Zhenyu Yao, Virginia Tech
- *Aversion to environmental risk in stated preference: Implications for benefit transfer and scope response* [Ben Blachly, University of Rhode Island](#); Emi Uchida, University of Rhode Island; Samuel Roy, University of Maine
- *Reduce, Reuse, Redeem: Consumer Valuation of California Recycling Options* Molly Van Dop, University of California, Berkeley; [Carly Trachtman, University of California, Berkeley](#); Rebecca Taylor, University of Sydney; Sofia Villas-Boas, University of California, Berkeley

#### 28. : Human Capital, Heat, and Air Pollution --Regency C

- *School Bus Emissions, Student Health, and Academic Performance* [Garrett Wesley Austin, Georgia State University](#); Garth Heutel, Georgia State University; Dan Kreisman, Georgia State University
- *Toxic air releases and child cognition in the ECLS-B cohort* [Irene Jacqz, University of Wisconsin, Madison](#)
- *Heat and Learning: Environmental Determinants of Educational Inequality* [R. Jisung Park, University of California, Los Angeles](#); Joshua Goodman, Harvard Kennedy School; Jonathan Smith, Georgia State University; Michael Hurwitz, College Board
- *Labor Supply in a Warmer World: The Impact of Climate Change on the Global Workforce* [Ashwin Rode, University of Chicago](#); Tamma Carleton, University of Chicago; Michael Greenstone, University of Chicago; Solomon Hsiang, University of California at Berkeley; Rachel Baker, Princeton University; Anthony D'Agostino, Columbia University; Timothy Foreman, Columbia University; Andrew Hultgren, University of California at Berkeley; Robert Kopp, Rutgers University; Matthew Pecenco, University of California at Berkeley; Ishan Nath, University of Chicago; Amir Jina, University of Chicago; Trevor Houser, Rhodium Group; Michael Delgado, Rhodium Group; Jiacan Yuan, Rutgers University; Kelly McCusker, Rhodium Group; Justin Simcock, Rhodium Group; James Rising, London School of Economics

### 29. : Natural Disasters: Local Impacts and Floods --Regency D

- *The Local Economic Impact of Natural Disasters* [Brigitte Roth Tran, Federal Reserve Board](#); [Daniel J. Wilson, Federal Reserve Bank of San Francisco](#)
- *Moving to Lower Ground: Flood Insurance Subsidies and Floodplain Development* [Daniel Szmurlo, University of California, Santa Barbara](#)
- *Private Flood Insurance and the NFIP Risk Pool: Evidence from the Opening of the Florida Market* [Jamie T. Mullins, University of Massachusetts - Amherst](#); Carolyn Kousky, University of Pennsylvania; Matthew Gibson, Williams College
- *Floods, shifting risk perceptions and property prices* [Sheila Olmstead, University of Texas at Austin](#); [Douglas Wrenn, Pennsylvania State University](#); Julian Plough, University of Texas at Austin

### 30. : Transportation: Standards and Purchases --Regency E

- *How Do Passenger Vehicle Greenhouse Standards Affect Vehicle Quality?* [Yujie Lin, University of Maryland](#); Joshua Linn, University of Maryland at College Park
- *Consumer Myopia in Electric Vehicle Purchases?* [David Rapson,](#) James Bushnell, University of California, Davis; Erich Muehlegger,
- *Quasi-Experimental Evidence on Consumer Myopia in Vehicle Purchases* [Kenneth Gillingham, Yale University](#); Sebastien Houde, ETH Zurich; Arthur van Benthem, University of Pennsylvania
- *Optimal Corrective Taxes with Untaxable Externalities: Evidence from Vehicle Pollution Standards* [Mark Jacobsen, University of California, San Diego](#); Joseph S. Shapiro, University of California at Berkeley; James Sallee, University of California, Berkeley; Arthur van Benthem, University of Pennsylvania

### 31. : Nudges and Peer Effects: Theory and Empirical Evidence --Regency F

- *The Welfare Effects of Information Nudges - Theory and Evidence from a Large-Scale Natural Field Experiment* [Matthias Rodemeier, University of Muenster](#); Lorenz Goette, University of Bonn; Andreas Loeschel, University of Münster
- *Do behavioral nudges interact with prevailing economic incentives? Pairing experimental and quasi-experimental evidence from water consumption* [Daniel Brent, Pennsylvania State University](#); Casey Wichman,
- *Motivation, Signaling and Peer Effects: Evidence from Rooftop Solar and Household Green Power Purchases* [Andrea La Nauze, University of Pittsburgh](#)
- *A theoretical framework explaining the mechanisms of nudging* [Asa E Lofgren, University of Gothenburg](#); Katarina Nordblom, University of Gothenburg



### **32. Sponsored Session : Computable General Equilibrium Models II --Castle Peak A**

- *The Role of Occupational Affiliation on the Incidence of Environmental Regulations* Alex Marten, Environmental Protection Agency; Ann Wolverton, Environmental Protection Agency; Andrew Schreiber, Environmental Protection Agency
- *Evaluating Alternative Options for Managing Nitrogen Losses from Corn Production* Jing Liu, Purdue University; Thomas Hertel, Purdue University; Laura Bowling, Purdue University; Sadia Jame, Purdue University; Uris Baldos,; Christopher Kucharik, University of Wisconsin, Madison; Navin Ramankutty, University of British Columbia
- *Can the Yellow Vests Become Green? Quantifying the Equity and Efficiency Effects of Carbon Tax Policy* Stephanie Fried, Arizona State University; Kevin Michael Novan, UC Davis; William Peterman, Federal Reserve Board of Governors

#### **Discussants:**

- Karen Fisher-Vanden, Pennsylvania State University
- Catherine Kling, Cornell University
- Joseph E Aldy, Harvard Kennedy School

### **33. Sponsored Session : JAERE Special Session: Fossil Fuels --Castle Peak B**

**Organizer:** Fullerton Don, University of Illinois at Urbana of Champaign

- *Fracking, Coal and Air Quality* Hendrik Wolff, Simon Fraser University; Reid Johnson, Texas A&M University; Jacob LaRiviere, Microsoft
- *Does Resource Ownership Matter? Oil and Gas Royalties and the Income Effect of Extraction* Timothy Fitzgerald, Texas Tech University; Jason P. Brown, Federal Reserve Bank of Kansas City; Jeremy Weber, University of Pittsburgh
- *Dutch Disease Resistance: Evidence from Indonesian Firms* Torfinn Harding, Norwegian School of Economics (NHH); James Cust, The World Bank; Pierre-Louis Vézina, King's College London
- *Can Learning Explain Deterrence? Evidence from Oil & Gas Production* Peter Maniloff, Colorado School of Mines

#### **Session Chair:**

- Don Fullerton

### **34. Sponsored Session : Giannini Foundation Session 1: Climate Change and Agriculture --Martis Peak A**

- *Is Global Agriculture Growing More Resilient to Climate?* Ariel Ortiz-Bobea, Cornell University; Robert Chambers, University of Maryland; David Lobell, Stanford University
- *Adoption of Drought-Tolerant Corn as Adaptation to Climate Change: Current U.S. Adoption and Future Prospects* Jon McFadden, USDA Economic Research Service; David Smith, USDA Economic Research Service; Steven Wallander, USDA Economic Research Service
- *Ricardian analysis using observed farmland transactions* Daniel P. Bigelow, USDA Economic Research Service; Margaret Christine Jodlowski, Cornell University
- *Estimating climate change damages in data scarce and non-competitive settings: an application to the agriculture of Mexico* Jesus Arellano Gonzalez, University of California, Davis

**Friday, 31 May**

**08:30-10:00**

### **35. : Tradable Permits --Castle Peak B**

- *TIGHTER EMISSIONS CAPS OR TARGETED REGULATIONS? REDUCING HIGH OZONE-EVENTS IN THE EASTERN US* [Joshua Linn, University of Maryland at College Park](#); Christopher Holt, University of Maryland at College Park
- *Cap and Trade and CO2 Emissions: Was the U.S. RGGI Effective?* [Karen Maguire, Oklahoma State University](#); Abdul Munasib, Bureau of Economic Analysis
- *When do Environmental Regulations Backfire? Onsite Electricity Generation, Energy Efficiency and Instrument Selection* [Mark Curtis, Wake Forest University](#); Jonathan Lee, East Carolina University
- *Using the Market to Balance Short and Long-Lived Greenhouse Gases: A New Permit-Based Approach to Capture Time-Varying Climate Impacts* [Ruben Lubowski, Environmental Defense Fund](#); Gokce Akin-Olcum, Environmental Defense Fund; Jonathan Camuzeaux, Environmental Defense Fund; Ilissa Ocko, Environmental Defense Fund; Maureen Lackner, Environmental Defense Fund

### 36. : Climate Change: Topics in Agriculture and Time Use --*Martis Peak A*

- *Implications of lifestyle change on household carbon dioxide emissions: A time-use perspective* [Junjie Zhang, University of Maryland, College Park](#)
- *Accounting for the Structure of Property Rights in the Economics Impacts of Climate Change* [Bryan Leonard, Arizona State University](#); Olivier Deschenes, University of California, Santa Barbara
- *Hedging Climate Change: Yield Volatility, Crop Choice and Trade* [Francisco Costa, Getulio Vargas Foundation \(FGV EPGE\)](#); Fabien Forge, University of Ottawa; Jason Garred, University of Ottawa; Joao Paulo Pessoa, Getulio Vargas Foundation
- *Effects of Heat Waves on Economic Growth* [Kenn Chua, University of Minnesota](#); Jay Coggins, University of Minnesota; [Steve Miller, University of Minnesota](#); [Hamid Mohtadi, University of Minnesota](#)

### 37. : Air Pollution: Damages and Adaptation --*Martis Peak B*

- *Pollution and the Intergenerational Transmission of Human Capital: Evidence from the 1970 Clean Air Act* [Jonathan Colmer, University of Virginia](#); [John Voorheis, U.S. Census Bureau](#)
- *DIRTY DENSITY: AIR QUALITY AND THE DENSITY OF AMERICAN CITIES* [Sefi Roth, London School of Economics](#); Felipe Carozzi, London School of Economics
- *Recreational Damages from Air Pollution: Evidence from Secondary Marketplace Ticket Microdata for National Football League Games* [Scott Kaplan, University of California, Berkeley](#); Hal Gordon, University of California at Berkeley
- *Adaptation to Environmental Change: Agriculture and the Unexpected Incidence of the Acid Rain Program* [Nicholas J Sanders, Cornell University](#); Alan Barreca, University of California, Los Angeles

### 38. : Biodiversity 1 --*Martis Peak C*

- *Sauce for the Goose is not Sauce for the Gander: Assessing the Heterogeneous Impact of Climate Change on Bird Biodiversity in the United States* [Luoye Chen, University of Illinois, Urbana-Champaign](#); Madhu Khanna, University of Illinois at Urbana of Champaign
- *Ecosystem Service Impacts of Ecological Disruption: Evidence from Malaria Incidence in Central America* [Joakim A. Weill, UC Davis](#); Michael Springborn,; Karen R. Lips, University of Maryland; Roberto Ibañez, Smithsonian Tropical Research Institute; Aniruddha Ghosh, UC Davis
- *Quantifying the role of U.S. plant imports driving non-native insect invasions over 150 years* [Michael Springborn,;](#) Mathew MacLachlan, USDA Economic Research Service; Andrew Liebhold, USDA Forest Service; Takehiko Yamanaka, National Institute for Agro-Environmental Sciences
- *Multidimensional risk diversification for invasive species management: A quasi-dynamic portfolio theory approach* [Charles Sims, The University of Tennessee](#); Payal Shah, Okinawa Institute of Science and Technology, Graduate University; Amy Ando, University of Illinois, Urbana-Champaign

### 39. : Field Experiments in Energy Economics --Pyramid Peak

- *Gender and effects of information on energy-related choices* [Krishnapriya Parameswaran Perumbillissery, Duke University](#); Rohini Somanathan, Delhi School of Economics
- *Impacts of Smart Meters on Losses in Electricity Distribution, Electricity Reliability, and Household Investments in Energy Efficiency* [Robyn Meeks, Duke University](#)
- *Closing the energy efficiency gap in industrial firms: The role of management practices* Valerie Karplus, Massachusetts Institute of Technology; [Da Zhang, Tsinghua University](#)
- *Norms and Nudges: Identity Economics and Consumer Preferences for Energy Efficiency* [Tamara L Sheldon, University of South Carolina](#); J.R. DeShazo, University of California, Los Angeles; Bronwyn Lewis Friscia, University of California, Los Angeles

### 40. : Electrification and Electricity Use in Developing Countries --Regency A

- *Fracking, farmers, and rural electrification in India* [Theodore Robert Fetter, Duke University](#); Faraz Usmani, Duke University
- *The Price of Power: Costs of Political Corruption in Indian Electricity* [Meera Mahadevan, University of Michigan-Ann Arbor](#)
- *Understanding Demand for Electricity on the Intensive Margin in Rural Rwanda and Kenya* [Megan Lang, University of California, Berkeley](#)
- *Willingness to Pay for Electricity Access in Extreme Poverty: Evidence from Sub Saharan Africa* Jörg Peters, Rheinisch-Westfaelisches Institut fuer Wirtschaftsforschung (RWI); Maximiliane Sievert, Rheinisch-Westfaelisches Institut fuer Wirtschaftsforschung (RWI); [Jevgenijs Steinbuks, World Bank](#)

### 41. : Environmental Valuation: Methods and Applications --Regency B

- *Quantitative Similarity in Bene*

*fit Transfer* [Will Wheeler, U.S. EPA, National Center for Environmental Economics](#); Steve Newbold, University of Wyoming

- *Comprehensive Recreation Demand Modelling with Nonlinear Marginal Utility of Trips: The Case of Outdoor Recreation in Canada* [Patrick Lloyd-Smith, University of Saskatchewan](#)
- *Finding a Best Conservation Park Entry Fee for Kruger National Park* Gardner Brown, University of Washington; [Johane Dikgang, University of Johannesburg](#)
- *The Economic Value of Rock Climbing in Smith Rock: An Individual Travel Cost Approach* [Cassandra Lynn Koefod, Central Washington University](#); Toni Sipic, Central Washington University

#### **42. : Local Impacts of Resource Booms --Regency C**

- *Resource Extraction and Local Government: The Fiscal Consequences of the Shale Boom* [Andrew Robert Waxman, University of Texas at Austin](#); Akheil Singla, Arizona State University
- *Resource booms and drug abuse in the United States* [Andrew Boslett, University of Rochester Medical Center](#); Elaine Hill, University of Rochester
- *STI Transmission and the Fracking Boom* [Brock Smith, Montana State University](#)
- *The social cost of leaded gasoline: evidence from regulatory exemptions* [Alex Hollingsworth, Indiana University](#); Ivan Rudik, Cornell University

#### **43. : Natural Disasters: Recovery, Learning and Uncertainty --Regency D**

- *Anticipating Mother Nature* [Jacob Hochard, East Carolina University](#); Yuanhao Li, Norwegian School of Economics (NHH)
- *Estimating the Direct and Indirect Impact of Typhoons on Plant Performance: Evidence from Chinese Manufacturers* [Robert Elliott, University of Birmingham](#); Eric Strobl, University of Bern; Yi Liu, University of Birmingham; Meng Tong, University of Birmingham
- *Local Lending Institutions and Financial Recovery after a Natural Disaster* [Justin Gallagher, Montana State University](#); Daniel Hartley, Chicago Federal Reserve Bank
- *Learning-By-Dying* [Jonathan Eyer, University of Southern California](#)

#### **44. : Trade and the Environment --Regency E**

- *The Environmental Bias of Trade Policy* [Joseph S. Shapiro, University of California at Berkeley](#)
- *Environmental Policy Instrument Choice and International Trade* [Scott Holladay, The University of Tennessee](#); Mohammed Mohsin, The University of Tennessee; Shreekar Pradhan, King Abdullah Petroleum Studies and Research Center
- *Coercive Trade Agreements for Supplying Global Public Goods* [Scott Barrett, Columbia University](#); Astrid Dannenberg, University of Kassel
- *SS\_MandA* [Misato Sato, London School of Economics](#); [Aurelien Saussay, CIREN, Paris](#)

#### **45. : Distributional Impacts and the Environment --Regency F**

- *Do pollution markets harm low income and minority communities?* [Glenn Sheriff, Arizona State University](#); Erin Mansur, Dartmouth College
- *Efficiency Wages, Unemployment, and Environmental Policy* [Xin Zhang, Georgia State University](#); Garth Heutel, Georgia State University
- *Pollution and Unemployment over the Business Cycle* [Garth Heutel, Georgia State University](#); John Gibson, Georgia State University
- *Energy tax refunds and firm competitiveness in Finland's energy intensive industries (abstract ranking 1)* [Marita Laukkanen, Vatt Institute for Economic Research](#); Kimmo Ollikka, Vatt Institute for Economic Research; Saara Tamminen, Sitra

#### **46. Sponsored Session : Water and Agriculture --Castle Peak A**

- *Land Tenure and Irrigation on an American Indian Reservation* [Muyang Ge, Utah State University](#); [Eric C. Edwards, North Carolina State University](#); [Sherzod Akhundjanov, Utah State University](#)
- *Water Markets and Climate Change Adaptation: Micro-level Evidence on Agricultural Water Demand* [Ellen Bruno, University of California, Berkeley](#); [Katrina Jessoe, University of California, Davis](#)
- *Adapting to Water Scarcity: Evidence from Irrigated Agriculture* [Nick Hagerty, University of California, Berkeley](#)

#### **Discussants:**

- Fran Moore, University of California, Davis
- Wolfram Schlenker, Columbia University
- Ariel Ortiz-Bobea, Cornell University

**10:30-12:00**

#### **47. : Climate Change: Expectations and Adaptation --Castle Peak B**

- *Market Expectations About Climate Change* [Wolfram Schlenker, Columbia University](#); [Charles Taylor, Columbia University](#)
- *Unpacking Property Owners' Shoreline Modification Decisions: Survey Evidence from Coastal Virginia* [Sarah Stafford, College of William & Mary](#); [Amanda Guthrie, Virginia Institute of Marine Science](#)
- *Information and defensive action: Evidence from daily weather forecasts* [Matthew Gammans, UC Davis](#)
- *Hold the Line: Modeling Private Coastal Adaptation through Shoreline Armoring Decisions* [William Jason Beasley, Oregon State University](#); [Steven J. Dundas, Oregon State University](#)

#### **48. : Natural Disasters and Climate Change --Martis Peak A**

- *Does irrigation mitigate the effect of climate shocks on conflict? Evidence from Indonesia* [Nicolas Gatti, University of Illinois at Urbana-Champaign](#); [Kathy Baylis, University of Illinois at Urbana-Champaign](#); [Ben Crost, University of Illinois at Urbana-Champaign](#)
- *Assistance Needed? The Willingness to Pay for Flood Insurance* [Noelwah R. Netusil, Reed College](#); [Carolyn Kousky, University of Pennsylvania](#); [Howard Kunreuther, University of Pennsylvania](#)
- *Living on the Stormy Side? Tropical Cyclones and Human Settlements* [Sven P. Kunze, Heidelberg University/ UC Berkeley](#); [Eric Strobl, University of Bern](#)
- *Climate Change and Regional Migration in the U.S.* [Tamara L Sheldon, University of South Carolina](#); [Crystal Zhan, University of South Carolina](#)

#### **49. : Land Trusts, Protected Land, Recreation and Tourism --Martis Peak C**

- *Local Economic Impacts of Federal Protected Lands* [Margaret Walls, Resources for the Future](#)
- *Self-Regulation in the Non-Profit Sector: The Case of Land Trusts* [Alexey Kalinin, University of Wisconsin, Madison](#); [Dominic Parker, University of Wisconsin, Madison](#); [Walter Thurman, North Carolina State University](#); [Qian Yao, University of Wisconsin, Madison](#)
- *The Use of Recreational Hunters in Wildlife Disease Management: Behavior and Incentives* [Lusi Xie, University of Alberta](#); [Vic Adamowicz, University of Alberta](#); [Patrick Lloyd-Smith, University of Saskatchewan](#)
- *Stranded: The Effects of Inaccessible Public Land on Local Economies in the American West* [Bryan Leonard, Arizona State University](#); [Andrew Plantinga, University of California, Santa Barbara](#)

#### **50. : Climate Change Adaptation and Market Power in Electricity Markets --Pyramid Peak**

- *Market Size and Market Power: Evidence from the Texas Electricity Market* [Matt Woerman, University of California, Berkeley](#)
- *Diagnosis of Market Symptoms by Artificial Intelligence: A Case Study of Changing Market Integration in Electricity Market* [Hyeongyul Roh, Duke University](#); Harrison Fell,
- *Putting the heat on electricity markets - on the direct and indirect costs of climate change* [Jonas David Savelsberg, University of California, Berkeley](#); [Moritz Schillinger, University of Basel](#)
- *The Cost of Adapting to Climate Change through the Grid* [Steve Cicala, University of Chicago](#)

#### 51. : Environmental Policy and Impacts in Developing Countries --Regency A

- *Environmental Policy and Labor Demand in China* [Jacquelyn Pless, University of Oxford](#); [Yangsiyu Lu, University of Oxford](#)
- *On the Heterogeneous Quality of Chinese Air Pollution Data* [Dalia Ghanem, University of California, Davis](#); [Shu Shen, University of California, Davis](#); [Junjie Zhang, Duke University](#)
- *The Ecological Footprint of Transportation Infrastructure* [Sam Asher, The World Bank](#); [Teevrat Garg, University of California, San Diego](#); [Paul Novosad, Dartmouth College](#)
- *Road to glory or highway to hell? Quantifying the trade-off between global road access and climate change mitigation* [Leonie Wenz, University of California, Berkeley](#)

#### 52. : Laboratory Experiments in Environmental Economics --Regency B

- *The Effect of "Non-binding" Price Floors on the Price of Storable Assets: Emissions Permits and Agricultural Commodities* [Steve Salant, University of Maryland](#); [William Shobe, University of Virginia](#); [Neslihan Uler, University of Maryland](#)
- *Economic Decision-making, Judgment, and Destructive Behavior Under Thermal Stress* [Maximilian Auffhammer, University of California, Berkeley](#)
- *Green assets in financial markets - Evidence from a laboratory experiment* [Jana Freundt, University of Pennsylvania](#); [Andreas Lange, University of Hamburg](#); [Andreas Nicklisch, U Chur](#); [Stefan Palan, University of Graz](#)
- *Conforming with norms of cooperation* [Florian Diekert, Heidelberg University](#)

#### 53. : Water Quality 1 --Regency C

- *Health Consequences of Drought-Related Water Supply Policies: Evidence from São Paulo, Brazil* [Tales Rozenfeld, University of São Paulo](#); [Ariaster Baumgratz Chimeli, University of São Paulo](#)
- *Who is responsible for damaging the commons? Identifying polluters in continent-scale river networks* [Peiley Golden Lau, University of California, Berkeley](#); [Julia Longmate, University of California, Berkeley](#); [Jeanette Tseng, University of California, Berkeley](#); [Kendon \(Kenny\) Matthew Bell, Manaaki Whenua Landcare Research](#); [Sandy Sum, University of California, Berkeley](#); [Solomon Hsiang, University of California at Berkeley](#)
- *The Nitrogen Legacy: Long-Term Effects of Water Pollution on Human Capital* [Esha Zaveri, The World Bank](#); [Jason Russ, The World Bank](#); [Sebastien Desbureaux, The World Bank](#); [Richard Damania, The World Bank](#)
- *Agricultural Subsidies and Contaminated Spillovers: The Health Effects of Agricultural Water Pollution in China* [Na Lu, University of New Mexico](#); [Kira Villa, University of New Mexico](#)

#### 54. : Forest Resources Management --Regency D

- *Money Growing on Trees: A Payment for Environmental Services Classroom Game* [Sahan Dissanayake, Portland State University](#); [Sarah Jacobson, Williams College](#)

- *Disentangling the Sources of the Brazilian Miracle: The Impacts of Policy on Deforestation in the Amazon* [Jill Caviglia-Harris, Salisbury University](#); Thales West, University of Florida; Katrina Mullan, University of Montana; Thaís Muniz Ottoni Santiago, University of Montana; Erin Sills, North Carolina State University; Antônio Fonseca, Imazon
- *Civil conflict reduced the impact of Colombia's protected areas* [Merlin Mack Hanauer, Sonoma State University](#)
- *Evidence on the Sustainability of Mexico's Voluntary Conservation Payments.* [Jennifer Alix-Garcia, Oregon State University](#); Katharine R.E. Sims, Amherst College

#### 55. : Transportation: Impacts of Technology and Regulations --Regency E

- *Revealing Auto-Manufacturers' Implicit Pricing Strategy under the Reformed CAFE Standard: A Reduced-Form Approach* [Hiroshi Matsushima, University of Illinois at Urbana of Champaign](#); Madhu Khanna, University of Illinois at Urbana of Champaign
- *The Effect of Vehicle Ownership Restrictions on Travel Behavior: Evidence from the Beijing License Plate Lottery* [Antung Anthony Liu, Indiana University](#); Joshua Linn, University of Maryland at College Park; Ping Qin, Renmin University; Jun Yang, Beijing Jiaotong University
- *The Effect of Battery Innovation on Electric Vehicle Sales and Greenhouse Gas Emissions* [Benjamin Leard, Resources for the Future](#); Joshua Linn, University of Maryland at College Park; Katalin Springel, Georgetown University
- *Technology shocks to public transit and the policy implications* [Laura Grant, Claremont McKenna College](#); Lianne Sturgeon, Scripps College

#### 56. : Environmental Quality and Housing Prices --Regency F

- *The King is dead, long live the King? The effect of power plants on housing prices in the age of coal-switching* [Naima Farah, Texas A&M University](#); Andrew Boslett, University of Rochester Medical Center; Elaine Hill, University of Rochester
- *Living on the Edge: How does Your House Price Respond to Urban Hazard Risks?* [Sofia Franco, Nova University of Lisbon NovaSBE](#); Jacob Macdonald, Nova SBE
- *The Effect of Urban Forestry on Housing Price and Gentrification* [Liqing Li, University of Illinois at Urbana of Champaign](#)
- *The Housing Market Impacts of Noise Pollution: Evidence from a Natural Experiment* [Charles Towe, University of Connecticut](#); Michele Baggio, University of Connecticut

#### 57. Sponsored Session : Computable General Equilibrium Models I --Castle Peak A

- *Distributional Effects of Environmental Regulation across Workers: A General-Equilibrium Analysis* Marc Hafstead, Resources for the Future; [Roberton Williams, University of Maryland, College Park](#)
- *Unemployment, Labor Mobility, and Climate Policy* Garth Heutel, Georgia State University; [Kenneth Austin Castellanos, Georgia State University](#)
- *Capturing Energy-Water-Economy Interactions in an Integrated Modeling Framework: the economic impacts of water shortages on the Western power grid* [Karen Fisher-Vanden, Pennsylvania State University](#); Vljay Kumar, Pennsylvania State University; Mort Webster, Pennsylvania State University; Joseph Perla, Pennsylvania State University; Richard Lammers, University of New Hampshire

#### Discussants:

- Stephie Fried, Arizona State University
- Kenneth Gillingham, Yale University
- James Archsmith, University of Maryland

#### 58. Regular Session: Prices and Pollution --Martis Peak B

- *Implications of Residential Energy Pricing for Energy Substitution and Welfare* Severin Borenstein, University of California, Berkeley; James Bushnell, University of California, Davis
- *Instrument Choice, Irreversible Investments, and the Welfare Implications of Pricing Carbon* Joseph E Aldy, Harvard Kennedy School; Sarah Armitage, Harvard University
- *Carbon Price Pass-Through in Electricity Markets* Andrew Leach, University of Alberta; Blake Shaffer, Stanford University
- *Pigou Creates Losers: On the Implausibility of Achieving Pareto Improvements from Pigouvian Taxation* James Sallee, University of California, Berkeley

**13:30-15:00**

**59. : Climate Change Policy: Growth, Uncertainty and Discounting --Castle Peak B**

- *Setting carbon taxes (or abatement credits) using declining discount rates: Implications for investment-based mitigation* Matthew Oliver, Georgia Institute of Technology; Chris Kennedy, George Mason University; Shana McDermott, Trinity University
- *HEDGING AGAINST UNCERTAINTIES IN COST OF GREENHOUSE GAS MITIGATION: THE CASE OF US BIOFUELS* Michael (Mike) Toman,; Jevgenijs Steinbuks, World Bank; Alexander Golub, The World Bank
- *Cumulative carbon emissions and economic policy: in search of general principles* Simon Dietz, London School of Economics; Frank Venmans, University of Mons
- *A Bayesian estimation of economic growth uncertainty and its implications for the climate system* Anna Sophia Ciesielski, Ludwig-Maximilians-University; David Anthoff, University of California, Berkeley

**60. : Environmental Taxes --Martis Peak B**

- *An Emission Tax Within an Emission-Capped Region is Not Necessarily Welfare Reducing: Lessons from the New York Carbon Adder* Daniel L. Shawhan, Resources for the Future; Paul Picciano, Resources for the Future; Karen Palmer, Resources for the Future
- *Estimating the Fuel-tax Elasticity of Vehicle Miles Travelled from Aggregate Data.* Werner Antweiler, University of British Columbia; Sumeet Gulati, University of British Columbia
- *How Does the Use of Carbon Tax Revenue Influence Political Support? Evidence from Washington State* Soren Anderson, Michigan State University; Ioana Marinescu, University of Pennsylvania; Boris Shor, University of Houston
- *Agglomeration Economies and the Effectiveness of Environmental Regulation* JunJie Wu, Oregon State University; Kathleen Segerson, University of Connecticut

**61. : Fisheries 2 --Martis Peak C**

- *Structural Behavioral Models for Rights-Based Fisheries* Matthew Reimer, University of Alaska Anchorage; Joshua Abbott, Arizona State University; Alan Haynie, NOAA Fisheries
- *Property rights lead to protection of global marine resources* Gabriel Englander, University of California, Berkeley
- *Renewable resource federalism: Trade-offs between centralized and decentralized control* James Sanchirico, UC Davis
- *Grandfathering by merit* Christopher Costello, University of California, Santa Barbara

**62. : Energy Efficiency and Conservation --Pyramid Peak**

- *The Welfare Costs of Misaligned Incentives: Energy Ine*



*ciency and the Principal-Agent Problem* [Joshua Blonz, Resources for the Future](#)

- *Intensive and Extensive Margin Responses in Electricity Conservation: How Households Respond to Financial Rewards* [Alastair Fraser, University of Sydney](#)
- *Decomposing the Wedge: Mechanisms Driving the Gap Between Projected and Realized Returns in Energy Efficiency Programs* Peter Christensen, University of Illinois, Urbana-Champaign; Erica Myers,; Paul Francisco, University of Illinois, Urbana-Champaign; [Mateus Souza, University of Illinois, Urbana-Champaign](#)
- *Quantifying the Behavioral Response to an Energy Efficiency Upgrade* [Kevin Michael Novan, UC Davis](#); Aaron Smith, University of California, Davis; Tianxia Zhou, Uber

### **63. : The Environment, Human Capital and Productivity --Regency A**

- *Too hot to focus: the mean and distributional effects of heat on labor productivity* [Yun Qiu, Jinan University](#); Jinhua Zhao, Michigan State University
- *Temperatures, Productivity, and Firm Competitiveness in Developing Countries: Evidence from Côte d'Ivoire* Nouhoum Traore, The World Bank; [Jeremy Foltz, University of Wisconsin, Madison](#)
- *Labor market adjustment under extreme heat shocks: evidence from Brazil* [Victoria Wenxin Xie, University of California, San Diego](#)
- *Plantation booms and structural change: the impact of the Indonesian palm oil expansion on manufacturing firm TFP* [Sebastian Martin Kraus, Mercator Research Institute on Global Commons and Climate Change \(MCC\)](#); Nicolas Koch, Mercator Research Institute on Global Commons and Climate Change (MCC)

### **64. : Non-market Valuation --Regency B**

- *The Economics of 'Conservation Debt': A Natural Capital Approach to Revealed Valuation of Ecological Dynamics* [Samantha Marie Laett Maher, EcoHealth Alliance](#); Eli Fenichel, Yale University; Vic Adamowicz, University of Alberta; Oswald Schmitz, Yale University
- *Empirically valuing natural capital* [Kendon \(Kenny\) Matthew Bell, Manaaki Whenua Landcare Research](#); Sandy Sum, University of California, Berkeley; Julia Longmate, University of California, Berkeley; Jeanette Tseng, University of California, Berkeley; Solomon Hsiang, University of California at Berkeley
- *What is a non-market valuation study worth: A demonstration using a meta-analysis of water quality values* [Steve Newbold, University of Wyoming](#); Robert Johnston, Clark University
- *Preference heterogeneity and willingness to pay for environmental health technologies* Marc Jeuland, Duke University; Ousmane Ndiaye, Université Gaston Berger; [Faraz Usmani, Duke University](#)

### **65. : Water Conservation Policy --Regency C**

- *Water demand response to un-conservation pricing* [Sara A. Sutherland, North Carolina State University](#); Eric C. Edwards, North Carolina State University; Sherzod Akhundjanov, Utah State University; Arpita Nehra, Utah State University
- *From Water Cops to Smart Meters: Designing Water Conservation Policy in the New Era of Automated Enforcement* Oliver Browne, The Brattle Group; [Ludovica Gazze, University of Chicago](#); Michael Greenstone, University of Chicago; Olga Rostapshova, University of Chicago
- *Dueling Drought-mitigation Efforts: The Role of Water Use Efficiency and Conservation Policies on Effluent Generation and Quality* Kurt Schwabe, University of California, Riverside; [Mehdi Nemati, University of California, Riverside](#); Refat Amin,
- *Who signs up for free raingardens? Distributional and capitalization effects of green infrastructure subsidies* [Daniel Brent, Pennsylvania State University](#); Joseph Cook, Washington State University; Allison Lassiter, University of Pennsylvania

**66. : Natural Disasters: Hurricanes and Tornadoes --Regency D**

- *Learning from Public Information under Conflicting Signals: Evidence from U.S. Tornado Warnings* [Laura Bakkensen, University Of Arizona](#)
- *How Beliefs Change Following a Natural Disaster: Evidence From Wind Insurance Data* [David L. Kelly, University of Miami](#); [Marc N. Conte, Fordham University](#)
- *Natural Disasters and Price Gouging: Evidence from Gasoline Sales before and after US Hurricanes* [Timothy Beatty, University of California, Davis](#); [Gabriel Lade, Iowa State university](#); [Jay Shimshack, University of Virginia](#)
- *Pricing Poseidon: Extreme Weather Uncertainty and Firm Return Dynamics* [Mathias Kruttli, Federal Reserve Board](#); [Brigitte Roth Tran, Federal Reserve Board](#); [Sumudu Watugala, Cornell University](#)

**67. : International Environmental Agreements --Regency E**

- *Sober optimism and the formation of international environmental agreements* [Larry Karp, UC Berkeley](#); [Hiroaki Sakamoto, Faculty of Law Politics and Economics](#)
- *Global Economic and Environmental Outcomes of the Paris Agreement* [Weifeng Liu, Australian National University](#); [Warwick J. McKibbin, Australian National University](#); [Adele C. Morris, Brookings](#); [Peter J. Wilcoxon, Syracuse University](#)
- *International Environmental Agreements and Directed Technological Change: Evidence from the Ozone Regime* [Eugenie Dugoua, London School of Economics](#)
- *Climate Agreements with Asymmetric Countries: Theory and Experimental Results* [Charles Mason, University of Wyoming](#)

**68. : Environmental Policy and CGE Modeling --Regency F**

- *Open Access vs Restricted Access in a General Equilibrium with Mobile Capital* [Louis Hotte, University of Ottawa](#); [Ronan Congar, EconomiX](#)
- *To Build or Not to Build? Capital Stocks and Climate Policy* [Elizabeth Baldwin, Oxford University](#); [Yongyang Cai, Ohio State University](#); [Karlygash Kuralbayeva, King's College London](#)
- *Seawalls and Stilts: A Quantitative Macro Study of Climate Adaptation* [Stephie Fried, Arizona State University](#)
- *Welfare consequences of climate policy in different technology futures: Implications for environmental-technology policy* [Jared Woollacott, RTI International](#)

**69. Sponsored Session : REEP Special Session: Environmental Uncertainty and Carbon Taxation --Castle Peak A**

**Organizer:** [Joseph E Aldy, Harvard Kennedy School](#)

- *Designing and Evaluating a Carbon Tax Adjustment Mechanism* [Marc Hafstead, Resources for the Future](#); [Roberton Williams, University of Maryland, College Park](#)
- *Carbon Tax Review and Updating* [Joseph E Aldy, Harvard Kennedy School](#)
- *Managing Environmental Uncertainty under a Carbon Tax: A Perspective from the Policy World* [Susanne A. Brooks, Environmental Defense Fund](#); [Nat Keohane, Environmental Defense Fund](#)

**Session Chair:**

- [Joseph E. Aldy](#)

**70. Sponsored Session : Giannini Foundation Session 2: Agriculture and Climate Change --Martis Peak A**

- *Estimating the adaptive benefits of water market reform for Californian irrigated agriculture* [Jesus Arellano Gonzalez, University of California, Davis](#); [Fran Moore, University of California, Davis](#); [Amir](#)

Aghakouchak, University of California, Irvine; Yue Qin, University of California, Irvine; Steve Davis, University of California, Irvine

- *Coastal land use change: agricultural adaptation to saltwater intrusion and sea level rise* [Rebecca Epanchin-Niell, Resources for the Future](#); Jessica Post, University of Wyoming; Alexandra Thompson, Resources for the Future
- *Adaptation and the Envelope Theorem* [A. John Woodill, University of Hawaii, Manoa](#); Michael J. Roberts, University of Hawaii, Manoa
- *Positive and Preventive Checks on Population in a Changing Climate* [Kyle C. Meng, University of California, Santa Barbara](#); Tom Vogl, The University of Texas at Austin

**15:15-16:45**

**71. : Climate Change: Econometrics and Uncertainty --Castle Peak B**

- *Climate Change Uncertainty, and Learning* [Jonghyun Yoo, Yale University](#); Robert Mendelsohn, Yale University
- *Characterization of the First Stage Measurement Error in Climate Impact Models* Chu (Alex) Yu, University of California, San Diego; [Richard Carson, University of California, San Diego](#)
- *Accounting for Unobservable Heterogeneity in Cross Section Using Spatial First Differences* Hannah Druckenmiller, University of California at Berkeley; [Solomon Hsiang, University of California at Berkeley](#)
- *Climate econometrics: Can the panel approach account for long-run adaptation?* Matthew Gammans, UC Davis; [Pierre Romain Mérel, UC Davis](#)

**72. : Water Resources Management: Climate Change and Irrigation --Martis Peak A**

- *Land Market Valuation of Groundwater Availability* [Gabriel Sampson, Kansas State University](#); Nathan Hendricks, Kansas State University; Mykel Taylor, Kansas State University
- *What Drives (No) Adoption of New Irrigation Technologies: A Structural Dynamic Estimation Approach* [Haoyang Li, Michigan State University](#); Jinhua Zhao, Michigan State University
- *A Water Portfolio Model with Time-Varying Risk in the Presence of Climate Change* [Anke D. Leroux, Monash University](#); Vance Martin, The University of Melbourne; Kathryn St. John, The University of Melbourne
- *Complements and Substitutes? Crop Insurance and Groundwater Extraction in the Ogallala Aquifer Region* [Matthew Ryan Sloggy, Colorado State University](#); Dale Manning, Colorado State University; Chris Goemans, Colorado State University; Roger Claassen, USDA Economic Research Service

**73. : Empirical Evidence on the Impacts of Air Pollution and Energy Policy --Martis Peak B**

- *Does the U.S. Pipeline Infrastructure Promote Clean Energy Use? Evidence from the EPA's Mercury and Air Toxics Standards* [Jonathan Scott, University of California, Berkeley](#)
- *How "Clean" is Clean Coal? An Empirical Assessment of a Billion Dollar Tax Credit* [Alan Krupnick, Resources for the Future](#); Brian C. Prest, Resources for the Future
- *Hard NOx: Identifying Spillovers and Operational Inefficiencies Within the EPA NOx Budget Trading Program* [Kevin Andrew Nakolan, UC Davis](#)
- *The Effectiveness and Incidence of Litigation as a Policy Instrument: The Case of New Source Review Settlements* [Samuel Krumholz, University of California, San Diego](#)

**74. : Resources and Ecosystem Studies: Irreversibility, Risk and Uncertainty --Martis Peak C**

- *Integrating Climate Science and Adaptation Policy: The Effects of Uncertainty on Coastal Housing Markets* [Lee Parton, Boise State University](#); Steven J. Dundas, Oregon State University

- *ENERGY TRANSITION UNDER THE RISK OF AN ENVIRONMENTAL CATASTROPHE: A TWO-SECTOR APPROACH IN A RIGID ECONOMY* [Prudence Dato, University of Basel](#)
- *Climate policy tipping and stranded carbon assets* [Frederick van der Ploeg, University of Oxford](#); [Armon Rezai, Vienna University of Economics and Business](#)
- *Labor Market Effects of In-Kind Food Subsidies* [Aditya Shrinivas, University of Illinois, Urbana-Champaign](#)

#### 75. : Perspectives on Environmental and Energy Policy --*Pyramid Peak*

- *WATER AND CONCRETE: COMPLEMENTARITY (NOT SUBSTITUTION) BETWEEN NATURAL AND PRODUCED CAPITAL* [Mani Rouhi Rad, Colorado State University](#); [Vic Adamowicz, University of Alberta](#); [Alicia Entem, Yale University](#); [Eli Fenichel, Yale University](#); [Patrick Lloyd-Smith, University of Saskatchewan](#)
- *Economic and Policy Considerations for Large Scale Investments in Natural Climate Solutions to Achieve Climate Stabilization Goals* \*\*No Authors Listed\*\*
- *The Political Economy of Electricity Rates* [Linda Cohen, University of California, Irvine](#); [Kyle Kettler, University of California, Irvine](#)
- *So You Want to be Relevant: A Policy Analyst's Reflections on Academic Literature* [Gloria Helfand, Environmental Protection Agency](#)

#### 76. : Impacts of Temperature on Violence and Nutrition --*Regency A*

- *Police Brutality and Extreme Temperatures* [Sébastien Annan-Phan, University of California, Berkeley](#); [Bocar Ba, Duke University](#)
- *Distribution of Environmental Damages: The Case of the Temperature-Violence Relationship in Mexico* [Teevrat Garg, University of California, San Diego](#); [Gordon Carlos McCord, University of California, San Diego](#); [Aleister Montfort, University of Chicago](#)
- *Temperature & Children's Nutrition: Evidence from West Africa* [Sylvia Blom, Cornell University](#); [Ariel Ortiz-Bobea, Cornell University](#); [John Hoddinott, Cornell University](#)
- *Understanding Interpersonal Violence with Warm Temperatures in Mexico* [Francois Cohen, University of Oxford](#); [Fidel Gonzalez, Sam Houston State University](#)

#### 77. : Behavior, Big Data and Spatial Analysis --*Regency B*

- *Costs of Labor Market Adjustment to News* [Jeffrey Shrader, Columbia University](#); [Nelson Lind, Emory University](#); [Mitch Downey, University of Stockholm, IIES](#)
- *Updating our understanding of exposure and access: Using cellphone movement data to reduce mismeasurement and bias* [Edward Rubin, University of Oregon](#)
- *How Much Does Standardized Time Change Behavior?: Evidence from Twitter* [Patrick Baylis, University of British Columbia](#); [Severin Borenstein, University of California, Berkeley](#)
- *Environmental constraints on elite worker productivity: evidence from professional tennis* [Marshall Burke, Stanford University](#); [Vincent Tanutama, Stanford University](#); [Sam Heft-Neal, Stanford University](#); [Miyuki Hino, Stanford University](#); [David Lobell, Stanford University](#)

#### 78. : Water Quality 2 --*Regency C*

- *Drinking Water and Infant Health: Evidence from Contaminant Levels in California* [Katherine K. Grooms, Southwestern University](#); [Heather Royer, University of California, Santa Barbara](#); [Kevin Schnepel, Simon Fraser University](#)
- *The Effect of Incomplete Enforcement Information on Ambient Pollution Levels: Evidence from the Clean Water Act* [Tihitina Tesfaye Andarge, University of Maryland, College Park](#)
- *Cleaning Up the Rust Belt: Housing Market Impacts of Removing Legacy Pollutants* [Alecia Cassidy, University of Alabama](#); [Robyn Meeks, Duke University](#); [Michael Moore, University of Michigan-Ann Arbor](#)

- *Water Quality, Policy Diffusion Effects and Farmers Behavior* [Eva Tène, Toulouse School of Economics](#); [Sylvain Chabé-Ferret, Toulouse School of Economics](#); [Arnaud Reynaud, Toulouse School of Economics](#)

#### **79. : Avoidance Behavior and Mitigation --Regency D**

- *Community Resilience to Natural Disasters: The Effects of Environmental Changes on Homeownership Rates and Community Quality* [Xiaoyu Li, The Ohio State University](#); [Allen Klaiber, The Ohio State University](#); [Sathya Gopalakrishnan, The Ohio State University](#)
- *Housing Discrimination and the Pollution Exposure Gap in the United States* [Peter Christensen, University of Illinois, Urbana-Champaign](#); [Ignacio Sarmiento, University of Illinois, Urbana-Champaign](#); [Christopher Timmins, Duke University](#)
- *Bag "Leakage": The Effect of Disposable Carryout Bag Regulations on Unregulated Bags* [Rebecca Taylor, University of Sydney](#)
- *Willingness-to-pay for construction noise abatement in Singapore: Evidence from a choice modelling survey* [Chi Hoong Leong, Australian National University](#); [Jeff Bennett, Australian National University](#)

#### **80. : Transportation: Prices --Regency E**

- *Natural Gas Transportation Price Regulation and the Dash for Gas* [Ian Lange, Colorado School of Mines](#)
- *Correcting heterogeneous externalities: Evidence from local fuel price controls* [Cody Nehiba, University of California, Irvine](#)
- *Formative Experiences and the Price of Gasoline* [Christopher Severen, Federal Reserve Bank of Philadelphia](#); [Arthur van Benthem, University of Pennsylvania](#)
- *Gasoline Price, Driving Behavior, and Demand for Gasoline: Evidence from Fueling Level Micro Data* [Christopher Knittel, Massachusetts Institute of Technology](#); [Shinsuke Tanaka, Tufts University](#)

#### **81. Sponsored Session : Fisheries and Marine Conservation --Castle Peak A**

- *Sharing is not caring: the case of transboundary fisheries* [Renato Molina, University of Miami](#); [Owen Liu, University of California at Santa Barbara](#)
- *Networks and Policy-Induced Spillovers: Defining the Scope for Ecosystem-Based Fishery Management* [Kailin Kroetz, Resources for the Future](#); [Matthew Reimer, University of Alaska Anchorage](#); [James Sanchirico, UC Davis](#); [Daniel Lew, NOAA Fisheries](#); [Justine Huetteman, Resources for the Future](#)
- *The Economics of Marine Conservation* [Jonathan Colmer, University of Virginia](#); [Robin Burgess, London School of Economics](#); [Michael Greenstone, University of Chicago](#)

#### **Discussants:**

- [Sabrina Eisenbarth, University of Exeter](#)
- [Martin Smith, Duke University](#)
- [Christopher Costello, University of California, Santa Barbara](#)

#### **82. Organized Session: Monitoring and Regulatory Agency Decisions --Regency F**

- *Do environmental disasters change the regulator's approach?* [Zach Raff, University of Wisconsin-Stout](#)
- *Regulating Hazardous Wastes under U.S. Environmental Federalism: The Role of State Resources* [Wesley Blundell, California State University, East Bay](#); [Mary Evans, Claremont McKenna College](#); [Sarah Stafford, College of William & Mary](#)
- *Citizen complaints, regulator behavior, and air pollution: Evidence from the CAA in Texas* [Mary Evans, Claremont McKenna College](#); [Jay Shimshack, University of Virginia](#)
- *If you see (or smell) something, say something: Citizen complaints and regulation of oil and gas wells* [Peter Maniloff, Colorado School of Mines](#); [Daniel Kaffine, University of Colorado – Boulder](#)

# Index to Participants

Abbott, Joshua : 3 , 61  
Adamowicz, Vic : 49 , 64 , 75  
Agerton, Mark : 16  
Aghakouchak, Amir: 70  
Akhundjanov, Sherzod: 46 , 65  
Akin-Olcum, Gokce: 35  
Aldy, Joseph E : 18 , 32 , 58 , 69  
Alix-Garcia, Jennifer : 10 , 54  
Amin, Refat: 65  
Andarge, Tihitina Tesfaye : 78  
Anderson, Sarah: 7  
Anderson, Soren : 60  
Ando, Amy: 38  
Annan-Phan, Sébastien : 76  
Anthoff, David: 11 , 59  
Antweiler, Werner: 60  
Archsmith, James: 57  
Arellano Gonzalez, Jesus : 34 , 70  
Armitage, Sarah : 58  
Asche, Frank: 10  
Asher, Sam: 51  
Assunção, Juliano: 5 , 25  
Auffhammer, Maximilian : 52  
Austin, Garrett Wesley : 28  
Ba, Bocar: 76  
Baggio, Michele: 56  
Baker, Rachel: 28  
Bakkensen, Laura : 66  
Baldos, Uris: 32  
Baldwin, Elizabeth: 68  
Banzhaf, H.Spencer: 10  
Barreca, Alan: 37  
Barrett, Scott : 44  
Basu, Sayahnika : 22  
Baumgratz Chimeli, Ariaster: 53  
Bayham, Jude : 19  
Baylis, Kathy: 5 , 48  
Baylis, Patrick : 77  
Beasley, William Jason: 47  
Beattie, Graham : 20  
Beatty, Timothy : 66  
Bell, Kendon (Kenny) Matthew: 53 , 64  
Bennett, Jeff: 79  
Bera, Somenath: 3  
Berazneva, Julia: 14  
Berman, Jesse: 19  
Bernedo, Maria: 6  
Bi, Xiang: 9  
Bigelow, Daniel P.: 34  
Birkenbach, Anna M. : 24  
Blachly, Ben : 27  
Black, Katie Jo : 7  
Blom, Sylvia : 76  
Blonz, Joshua : 62  
Blundell, Wesley: 23 , 82  
Bocci, Corinne : 26  
Boehlert, Brent: 26  
Boehringer, Christoph: 13  
Borenstein, Severin : 58 , 77  
Boslett, Andrew : 42 , 56  
Bowling, Laura: 32  
Bragança, Arthur : 5  
Brent, Daniel : 21 , 31 , 65  
Brolinson, Becka : 20  
Bronnmann, Julia: 24  
Brooks, Susanne A: 69  
Brotalho, Sara: 25  
Brown, Gardner: 41  
Brown, Jason P. : 33  
Browne, Oliver: 65  
Bruno, Ellen : 46  
Bui, Linda: 12  
Bunzel, Helle: 3  
Burgess, Robin: 81  
Burke, Marshall : 77  
Burkhardt, Jesse: 19

Burlig, Fiona : 10 , 21 , 25  
Burtraw, Dallas : 25  
Bushnell, James: 30 , 58  
Butner, Matthew Ridge : 4  
Cai, Yongyang : 68  
Camuzeaux, Jonathan: 35  
Carattini, Stefano : 6  
Carleton, Tamma : 22 , 28  
Carozzi, Felipe: 37  
Carson, Richard : 71  
Carter, Ellison: 19  
Cassidy, Alecia : 78  
Castellanos, Kenneth Austin : 57  
Caviglia-Harris, Jill : 54  
Chabé-Ferret, Sylvain: 78  
Chambers, Robert: 34  
Champ, Patricia Ann : 6  
Chan, Ron: 14  
Chang, Paul: 6  
Chatterjee, Anomitra: 6  
Chen, Luoye : 38  
Chen, Tengjiao : 1  
Cherry, Todd: 6  
Christensen, Peter : 62 , 79  
Chua, Kenn: 36  
Cicala, Steve : 50  
Ciesielski, Anna Sophia : 59  
Claassen, Roger: 72  
Clay, Karen: 2  
Cobourn, Kelly: 22  
Coggins, Jay: 36  
Cohen, Francois : 76  
Cohen, Linda : 75  
Cole, Matthew: 15 , 23  
Colmer, Jonathan: 37  
Colmer, Jonathan : 81  
Congar, Ronan: 68  
Conte, Marc N.: 66  
Cook, Joseph : 65  
Cooke, Roger: 11  
Costa, Francisco : 36  
Costello, Christopher : 10 , 61 , 81  
Cropper, Maureen L : 17  
Crost, Ben: 48

Cui, Ryna: 17  
Curtis, Mark : 35  
Cust, James : 33  
D`Agostino, Anthony: 28  
Dahis, Ricardo: 5  
Damania, Richard: 53  
Dannenberg, Astrid: 44  
Das, Ipsita : 17  
Dato, Prudence : 74  
Davis, Steve: 70  
De Figueiredo Silva, Felipe: 7  
Delgado, Michael: 28  
Deltas, George: 9  
DePiper, Geret: 3  
Desbureaux, Sebastien: 53  
Deschenes, Olivier: 36  
DeShazo, J.R.: 39  
Diekert, Florian : 52  
Dietz, Simon : 59  
Dikgang, Johane: 41  
Ding, Iza: 20  
Dissanayake, Sahan : 54  
Don, Fullerton: 33  
Donovan, Pierce : 3  
Dorsey, Jackson : 4  
Downey, Mitch: 77  
Druckenmiller, Hannah: 71  
Dugoua, Eugenie : 67  
Dundas, Steven J. : 27 , 47 , 74  
Edwards, Eric C. : 46 , 65  
Eisenbarth, Sabrina : 5 , 81  
Elliott, Robert: 15 , 43  
Englander, Gabriel : 61  
Enriquez, Aaron: 15  
Entem, Alicia: 75  
Eom, Young Sook: 12  
Epanchin-Niell, Rebecca : 70  
Ericson, Sean: 16  
Errickson, Frank: 11  
Evans, Mary: 82  
Evans, Samuel : 7  
Eyer, Jonathan : 43  
Farah, Naima : 56  
Fell, Harrison: 50

Fenichel, Eli : 64 , 75  
Fernandez, Linda Maria : 24  
Ferraro, Paul: 6  
Fetter, Theodore Robert : 40  
Finnoff, David Christopher : 15  
Fischer, Carolyn : 13  
Fischer, Emily: 19  
Fisher-Vanden, Karen : 32 , 57  
Fitzgerald, Timothy : 33  
Foltz, Jeremy : 63  
Fonseca, Antônio : 54  
Ford, Bonne: 19  
Foreman, Timothy: 28  
Forge, Fabien: 36  
Fraas, Arthur: 2  
Francisco, Paul: 62  
Franco, Sofia : 56  
Fraser, Alastair : 62  
Freundt, Jana: 52  
Fried, Stephie : 32 , 57 , 68  
Fripp, Matthias : 4  
Frischia, Bronwyn Lewis: 39  
Gall, Heather: 1  
Gallagher, Justin : 43  
Gammans, Matthew : 47 , 71  
Garg, Teevrat : 51 , 76  
Garred, Jason: 36  
Gatti, Nicolas : 48  
Gazze, Ludovica : 65  
Ge, Muyang: 46  
Gerlagh, Reyer: 13  
Ghanem, Dalia : 51  
Ghosh, Aniruddha : 38  
Gibbs, Holly: 26  
Gibson, John : 45  
Gibson, Matthew: 29  
Gilbert, Ben : 16  
Gillingham, Kenneth: 4 , 14 , 30 , 57  
Giraudet, Louis-Gaëtan : 9  
Goemans, Chris: 1 , 72  
Goeschl, Timo : 23  
Goette, Lorenz: 31  
Golub, Alexander: 59  
Gomez-Gelvez, Julian A. : 8  
Gonzalez, Fidel: 76  
Gonzalez-Navarro, Marco: 5  
Goodman, Joshua: 28  
Gopalakrishnan, Sathya: 79  
Gordon, Hal: 37  
Goulder, Lawrence H : 13  
Graham, Louis: 5  
Grant, Laura : 55  
Gray, Wayne B : 9  
Greenstone, Michael: 22 , 28 , 65 , 81  
Grooms, Katherine K. : 78  
Guignet, Denny: 12  
Gulati, Sumeet : 60  
Guthrie, Amanda: 47  
Guttikunda, Sarath: 17  
Haas, Christian: 9  
Hafstead, Marc: 57 , 69  
Hagerty, Nick : 46  
Hanauer, Merlin Mack : 54  
Harding, Matt: 20  
Harding, Torfinn : 33  
Hartley, Daniel: 43  
Haynie, Alan: 3 , 61  
Heft-Neal, Sam: 77  
Heijmans, Roweno J.R.K. : 13  
Helfand, Gloria : 8 , 75  
Hendricks, Nathan: 72  
Hertel, Thomas: 32  
Heutel , Garth: 28 , 45 , 57  
Hill, Elaine: 42 , 56  
Hino, Miyuki: 77  
Hochard, Jacob : 43  
Hoddinott, John: 76  
Holladay, Scott : 44  
Hollingsworth, Alex: 42  
Holt, Christopher: 35  
Holzer, Jorge : 3  
Hotte, Louis : 68  
Houde, Sebastien: 30  
Houser, Trevor: 28  
Hsiang, Solomon : 22 , 28 , 53 , 64 , 71  
Huang, Pei : 14  
Huetteman, Justine: 81  
Hultgren, Andrew : 22



Hultgren, Andrew: 28  
Hultman, Nate: 17  
Hurwitz, Michael: 28  
Ibañez , Roberto : 38  
Irwin, Nicholas: 7  
Jacobsen, Mark : 30  
Jacobson, Sarah : 54  
Jacqz, Irene : 28  
Jame, Sadia: 32  
Jang, Channing: 5  
Jawahar, Puja: 17  
Jesso, Katrina : 46  
Jeuland, Marc: 64  
Jha, Akshaya: 2 , 25  
Ji, Xinde : 22  
Jiang, Fei: 1  
Jina, Amir: 22 , 28  
Jodlowski, Margaret Christine : 34  
Johnson, Reid: 33  
Johnston, Robert : 27 , 64  
Kaffine, Daniel : 16 , 82  
Kaiser, Brooks: 24  
Kalinin, Alexey : 49  
Kallbekken, Steffen: 6  
Kaplan, Scott : 37  
Karasik, Rachel: 24  
Karp, Larry : 67  
Karplus, Valerie: 39  
Kassem, Dana: 17  
Kellogg, Ryan : 13  
Kelly, David L. : 66  
Kempa, Karol : 9  
Kennedy, Chris: 59  
Keohane, Nat: 69  
Ketcham, Jonathan: 18  
Kettler, Kyle : 20 , 75  
Keyman, Ariana: 5  
Khanna, Madhu: 9 , 15 , 38 , 55  
Khanna, Neha : 14  
Kim, Hyun-gyu : 4  
Kim, Moon Joon : 12  
Klaiber, Allen: 79  
Klemick, Heather: 12  
Kling, Catherine: 32

Kling, David : 27  
Klotz, Richard : 14  
Knittel, Christopher: 80  
Koch, Nicolas: 63  
Koefod, Cassandra Lynn : 41  
Kopp, Robert: 22 , 28  
Kourantidou, Melina: 24  
Kousky, Carolyn: 29 , 48  
Kraus, Sebastian Martin : 63  
Kreisman, Dan: 28  
Kroetz, Kailin : 81  
Krumholz, Samuel : 73  
Krupnick, Alan : 2 , 73  
Krutli, Mathias: 66  
Kucharik, Christopher: 32  
Kumar, Vljay: 57  
Kuminoff, Nicolai V : 18  
Kunreuther, Howad: 48  
Kunze, Sven P. : 48  
Kuralbayeva, Karlygash: 68  
Kuwayama, Yusuke: 21  
La Nauze, Andrea : 20 , 31  
Lackner, Maureen: 35  
Lade, Gabriel: 66  
Lamarche, Carlos: 20  
Lammers, Richard: 57  
Lampert, Adam : 26  
Lang, Corey : 18  
Lang, Megan : 40  
Lange, Andreas : 52  
Lange, Ian : 80  
Langpap, Christian : 7  
LaRiviere, Jacob : 6 , 33  
Lassiter, Allison: 65  
Lau, Peiley Golden : 53  
Laukkanen, Marita : 45  
Leach, Andrew : 58  
Leard, Benjamin : 55  
Lee, Jonathan: 35  
Lee, Min-Yang: 24  
Leonard, Bryan : 36  
Leonard, Bryan: 49  
Leong, Chi Hoong : 79  
Leroux, Anke D.: 72

Lew, Daniel: 27 , 81  
Lewis, David : 27  
Lewis, Joshua: 2  
Li, Haoyang : 72  
Li, Liqing : 56  
Li, Qingran : 11 , 24  
Li, Xiaogu : 1  
Li, Xiaoyu : 79  
Li, Yijia : 15  
Li, Yuanhao : 43  
Liebhold, Andrew: 38  
Lin, Yatang : 17  
Lin, Yujie : 30  
Lind, Nelson: 77  
Linn, Joshua: 30 , 35 , 55  
Lips, Karen R.: 38  
Liu, Antung Anthony : 55  
Liu, Jing : 32  
Liu, Owen: 81  
Liu, Weifeng: 67  
Liu, Xiaoyu: 25  
Liu, Yaqin : 10  
Liu, Yi: 43  
Lloyd-Smith, Patrick: 41 , 49 , 75  
Lobell, David: 34 , 77  
Loeschel, Andreas: 31  
Lofgren, Asa E : 31  
Long, Xianling: 13  
Longmate, Julia: 53 , 64  
Lu, Jieyi: 13  
Lu, Na : 53  
Lu, Yangsiyu: 51  
Lubowski, Ruben: 35  
Macdonald, Jacob: 56  
MacLachlan, Mathew: 38  
Maddison, David: 23  
Madhok, Raahil: 19  
Maguire, Karen : 35  
Mahadevan, Meera : 40  
Maher, Samantha Marie Laett : 64  
Maniloff, Peter : 16 , 33 , 82  
Manning, Dale: 1 , 72  
Mansur, Erin: 45  
Marcus, Michelle : 21  
Marinescu, Ioana: 60  
Marten, Alex : 32  
Martin, Leslie : 8  
Martin, Vance: 72  
Mason, Charles : 10 , 67  
Mathes, Sophie : 18  
Matsushima, Hiroshi : 55  
McCord, Gordon Carlos : 76  
McCoy, Shawn J. : 7  
McCusker, Kelly: 28  
McDermott, Shana: 59  
McFadden, Jon : 34  
McJeon, Haewon: 17  
McKibbin, Warwick J.: 67  
Meeks, Robyn : 39  
Meeks, Robyn: 78  
Melstrom, Richard : 1  
Mendelsohn, Robert: 71  
Meng, Kyle C. : 10 , 70  
Mérel, Pierre Romain : 71  
Miao , Ruiqing : 15  
Miller, Nolan: 19  
Miller, Steve : 36  
Moeltner, Klaus : 27  
Moffette, Fanny : 26  
Mohsin, Mohammed: 44  
Mohtadi, Hamid: 36  
Molina, Renato : 81  
Molitor, David: 19  
Montfort, Aleister: 76  
Moore, Fran : 46 , 70  
Moore, Michael: 78  
Morgenstern, Richard: 13  
Morris, Adele C. : 67  
Moskalik, Andrew: 8  
Muehlegger, Erich: 30  
Mullan, Katrina: 54  
Mullins, Jamie T. : 29  
Munasib, Abdul: 35  
Myers, Erica: 62  
Nakolan, Kevin Andrew : 73  
Nath, Ishan: 28  
Ndiaye, Ousmane: 64  
Nehiba, Cody : 80

Nehra, Arpita: 65  
Nemati, Mehdi : 65  
Netusil, Noelwah R. : 48  
Neumann, James: 26  
Newbold, Steve : 41 , 64  
Newell, Richard : 11  
Nicklisch, Andreas: 52  
Noack, Frederik: 10  
Nordblom, Katarina: 31  
Novan, Kevin Michael : 32 , 62  
Novosad, Paul: 51  
Ocko, Ilissa: 35  
ODell, Katelyn: 19  
Oliver, Matthew : 59  
Ollikka, Kimmo: 45  
Olmstead, Sheila : 21 , 29  
Ordonez, Pablo Jose : 5  
Ortiz-Bobea, Ariel : 34 , 46 , 76  
Ottoni Santiago, Thaís Muniz: 54  
OVAERE, MARTEN : 4  
Palan, Stefan: 52  
Palmer, Karen: 25 , 60  
Pande, Rohini: 19  
Park, R. Jisung : 28  
Park, Yongjoon: 17  
Parker, Dominic: 16 , 24 , 49  
Parton, Lee : 74  
Pearson-Merkowitz, Shanna: 18  
Pecenco, Matthew: 28  
Perla, Joseph : 57  
Persico, Claudia : 12  
Perumbillissery, Krishnapriya  
Parameswaran : 39  
Pessoa, Joao Paulo: 36  
Peterman, William: 32  
Peters, Jörg: 40  
Petronevich, Anna: 9  
Phaneuf, Daniel : 21  
Picciano, Paul: 60  
Pierce, Jeffrey: 19  
Pizer, William: 11  
Plantinga, Andrew: 7 , 49  
Pless, Jacquelyn : 51  
Plough, Julian : 29  
Post, Jessica: 70  
Potts, Matthew: 7  
Pradhan, Shreekar: 44  
Preonas, Louis : 10 , 25  
Prest, Brian C: 11 , 73  
Pullabhotla, Hemant : 19  
Qin, Ping: 55  
Qin, Yue: 70  
Qiu, Yun : 63  
Quaas, Martin: 24  
Raff, Zach: 23 , 82  
Ramankutty, Navin: 32  
Ramírez, Isabel: 5  
Rapson, David: 30  
Reimer, Matthew : 61 , 81  
Rennert, Kevin J : 11  
Reynaud, Arnaud: 78  
Rezai, Armon : 74  
Rigterink, Anouk: 5  
Rijal, Binish : 14  
Rising, James: 22 , 28  
Rivera, Nathaly M. : 17  
Roberts, Gavin: 16  
Roberts, Michael J. : 4 , 70  
Rode, Ashwin : 22 , 28  
Rodemeier, Matthias : 31  
Roh, Hyeongyul : 50  
Rostapshova, Olga: 65  
Roth Tran, Brigitte : 29 , 66  
Roth, Sefi : 37  
Rouhi Rad, Mani : 1 , 75  
Rowe, Kevin Atwell : 19  
Roy, Samuel: 27  
Royer, Heather: 78  
Rozenfeld, Tales : 53  
Ruangmas, Thanicha: 24  
Rubin, Edward : 77  
Rucker, Randal: 24  
Rudik, Ivan: 42  
Ruiz-Tagle, Cristobal : 17  
Russ, Jason : 53  
Sager, Lutz : 2  
Saha, Nirman: 18  
Sakai, Yutaro : 3

Sakamoto, Hiroaki: 67  
Salant, Steve: 52  
Sallee, James : 30 , 58  
Sampson, Gabriel : 72  
Sanchirico, James : 61 , 81  
Sanders, Nicholas J : 37  
Sarmiento, Ignacio: 79  
Sato, Misato : 44  
Saussay, Aurelien : 44  
Savelsberg, Jonas David : 50  
Sayre, Susan Stratton : 2  
Schillinger, Moritz: 50  
Schlenker, Wolfram : 46 , 47  
Schmitz, Oswald: 64  
Schnepel, Kevin: 78  
Schreiber, Andrew: 32  
Schutze, Amanda Motta : 25  
Schwabe, Kurt: 65  
Scott, Jonathan : 73  
Segerson, Kathleen: 60  
Severen, Christopher : 80  
Severnini, Edson: 2  
Sexton, Steven: 25  
Shadbegian, Ron : 12  
Shaffer, Blake: 58  
Shah, Payal : 38  
Shapiro, Joseph S. : 30 , 44  
Shawhan, Daniel L: 60  
Sheldon, Tamara L : 39 , 48  
Shen, Shu: 51  
Sheriff, Glenn : 45  
Shih, Jhih-Shyang : 25  
Shimshack, Jay: 21 , 66 , 82  
Shobe, William: 52  
Shor, Boris: 60  
Shortle, James: 1  
Shrader, Jeffrey : 77  
Shrinivas, Aditya : 74  
Sievert, Maximiliane: 40  
Sills, Erin: 54  
Simcock, Justin: 28  
Simon, David : 12  
Sims, Charles : 38  
Sims, Katharine R.E.: 54  
Singla, Akheil: 42  
Sipic, Toni: 41  
Skidmore, Marin: 26  
Sloggy, Matthew Ryan : 72  
Smith, Aaron: 62  
Smith, Brock : 42  
Smith, David: 34  
Smith, Jonathan: 28  
Smith, Martin : 10  
Smith, Martin: 24  
Smith, Martin : 24 , 81  
Smyth, Seamus: 18  
Sohngen, Brent : 26  
Somanathan, Rohini: 39  
Souza, Mateus : 19 , 62  
Spiller, Beia : 17  
Springborn, Michael: 38  
Springel, Katalin : 55  
St. John, Kathryn: 72  
Stafford, Sarah : 47 , 82  
Steinbuks, Jevgenijs : 40 , 59  
Stopnitzky, Yaniv : 22  
Strobl, Eric : 15 , 43 , 48  
Strzepek, Kenneth: 26  
Sturgeon, Lianne: 55  
Sugathan, Anish: 19  
Sum, Sandy: 53 , 64  
Suter, Jordan: 1  
Sutherland, Sara A. : 65  
Szerman, Dimitri : 5  
Szmurlo, Daniel : 29  
Tambet, Heleene: 22  
Tamminen, Saara: 45  
Tanaka, Shinsuke : 80  
Tanutama, Vincent: 77  
Tao, Tao: 9  
Taylor, Charles: 47  
Taylor, Mykel: 72  
Taylor, Rebecca : 27 , 79  
Tène, Eva : 78  
Thompson, Alexandra: 70  
Thornton, Sam: 8  
Thurlow, James: 26  
Thurman, Walter: 49

Timmins, Christopher: 79  
Toman, Michael (Mike): 59  
Tong, Meng: 43  
Towe, Charles : 56  
Trachtman, Carly : 27  
Traore, Nouhoum: 63  
Tseng, Jeanette: 53 , 64  
Uchida, Emi: 27  
Uler, Neslihan : 52  
Usmani, Faraz : 40 , 64  
van Benthem, Arthur: 30 , 80  
van der Ploeg, Frederick: 74  
Van Dop, Molly: 27  
Venmans, Frank: 59  
Vézina, Pierre-Louis: 33  
Villa, Kira: 53  
Villas-Boas, Sofia: 27  
Vogl, Tom: 70  
Voorheis, John : 37  
Wallander, Steven: 34  
Walls, Margaret : 49  
Walter, Jason M. : 23  
Wang, Xiao : 9  
Watten, Asa : 8  
Watugala, Sumudu: 66  
Waxman, Andrew Robert : 42  
Weber, Jeremy: 33  
Webster, Mort: 57  
Weigel, Collin: 6  
Weill, Joakim A. : 38  
Weninger, Quinn R A : 3  
Wenz, Leonie : 51  
West, Thales: 54  
Wheeler, Will : 41  
Wibbenmeyer, Matthew : 7  
Wichman, Casey: 21 , 31  
Wietelman, Derek: 21

Wilcoxon, Peter J.: 67  
Williams, Roberton : 57 , 69  
Willwerth, Jacqueline : 26  
Wilson, Ander: 19  
Wilson, Daniel J. : 29  
Winikoff, Justin B: 16  
Woerman, Matt : 10 , 50  
Wolff, Hendrik : 8 , 33  
Wolverton, Ann: 32  
Woodill, A. John : 70  
Woollacott, Jared : 68  
Wrenn, Douglas: 29  
Wu, JunJie : 7 , 60  
Xie, Lusi : 49  
Xie, Victoria Wenxin : 63  
Yamanaka, Takehiko: 38  
Yang, Jun: 55  
Yao, Qian: 49  
Yao, Xinlu: 17  
Yao, Zhenyu: 27  
Yoo, Jonghyun : 71  
Yu, Chu (Alex) : 71  
Yuan, Jiacan: 28  
Zaveri, Esha : 53  
Zhan, Crystal : 48  
Zhang, Da : 39  
Zhang, Junjie : 36  
Zhang, Junjie: 51  
Zhang, Liyun: 23  
Zhang, Xin : 45  
Zhao, Jinhua: 63 , 72  
Zheng, Jiameng: 21  
Zhou, Tianxia: 62  
Zhou, Yichen Christy : 14  
Zikatanov, Ludmil: 15  
Zipp, Katherine: 1 , 15  
Zou, Eric : 19