### **10TH JUNE 2016**

08:45 - 10:15	PARALLEL PAPERS SESSION 1		
08:45 - 10:15	CLIMATE POLICY: INTEGRATED ASSESSMENT MODELS  Chairperson: Ivan Rudik, Iowa State University  Room Peaks 6,7		
	THE WISDOM OF THE ECONOMIC CROWD: CALIBRATING INTEGRATED ASSESSMENT MODELS USING CONSENSUS Peter Howard, New York University Co-Author(s): Sylvan Derek, New York University		
	SOCIAL DISCOUNTING IN GENERAL EQUILIBRIUM Lint Barrage, Brown University		
	AN ASSESSMENT OF THE IMPACT OF CLIMATE CHANGE ON THE INSURANCE MARKET: GLOBAL AND LOCAL ANALYSES		
	Mordechai Shechter, University of Haifa Co-Author(s): Ofira Ayalon, University of Haifa, Ayelet Davidovitch, University of Haifa and Ruslana Palatnik, University of Haifa		
	NON-CONJUGATE LEARNING IN DYNAMIC STOCHASTIC MODELS: LEARNING THE CLIMATE SENSITIVITY Ivan Rudik, Iowa State University		
	Co-Author(s): Derek Lemoine, University of Arizona and Max Rosenthal, University of Arizona		
08:45 - 10:15	WATER I Room Peak Chairperson: Jacob LaRiviere, Microsoft Economics		
	THE WELFARE CONSEQUENCES OF THE 2015 CALIFORNIA DROUGHT MANDATE: EVIDENCE FROM NEW RESULTS ON MONTHLY WATER DEMAND		
	Mehdi Nemati, University of Kentucky Co-Author(s): Steven Buck, University of Kentucky, Stephen Hamilton, California Polytechnic State University and David Sunding, University of California, Berkeley		
	DOWN, DOWN, UNDERGROUND: A COMPARISON OF CORRELATED AND UNCORRELATED RANDOM PARAMETERS LOGIT MODELS IN ESTIMATING PREFERENCES FOR WATER UTILITY INFRASTRUCTURE INVESTMENT		
	Jennifer Thacher, University of New Mexico Co-Author(s): Heidi Pitts, New Mexico Public Regulation Commission		
	PUTTING PRICES INTO CONTEXT: HOW DO WEATHER AND POLICY- RELATED EVENTS IMPACT EFFECTIVENESS OF INCREASES IN THE		

MARGINAL PRICE OF WATER

Janine Stone, California State University, Chico

Co-Author(s): Marco Costanigro, Colorado State University and Christopher Goemans, Colorado State University

## THESE ARE THE BREAKS: CAUSAL IMPACTS OF WATER INFRASTRUCTURE RELIABILITY ON TRAFFIC CONGESTION

Jacob LaRiviere, Microsoft Economics

Co-Author(s): Casey Wichman, Resources for the Future

### 08:45 - 10:15 CLIMATE CHANGE: WEATHER I

Room Peak 11

Chairperson: Maximilian Auffhammer, University of California,

Berkeley

# WEATHER AND WATER CONSUMPTION: EVIDENCE FROM CALIFORNIA TO GUIDE RESIDENTIAL WATER AND ENERGY CONSERVATION

Steven Buck, University of Kentucky

Co-Author(s): Maximilian Auffhammer, University of California, Berkeley

# WEATHER INDEX INSURANCE: A STRATEGY TO ENABLE PRODUCTIVE RESOURCE INVESTMENTS BY SMALLHOLDER FARMERS FACING CLIMATE RISK?

Geoffrey McCarney, University of Ottawa

Co-Author(s): Daniel Osgood, International Research Institute for Climate and Society (IRI)

# WELFARE EFFECTS OF CLIMATE CHANGE IMPACTS ON THE AGRICULTURAL SECTOR: EXPLORING MULTIPLE MARGINS OF ADAPTATION TO YIELD SHOCKS

Frances Moore, University of California, Berkeley

Co-Author(s): Uris Baldos, Purdue University, Delavane Diaz, Electric Power Research Institute and Thomas Hertel, Purdue University

### CLIMATE CHANGE HAS SEVERE IMPACT ON FREQUENCY AND INTENSITY OF PEAK ELECTRICITY DEMAND ACROSS THE US

Maximilian Auffhammer, University of California, Berkeley Co-Author(s): Patrick Baylis, University of California, Berkeley and Catherine Hausman, University of Michigan

### 08:45 - 10:15 **EXPERIMENTS I**

Room Peak 10

Chairperson: Sarah Jacobson, Williams College

### RISK INTERDEPENDENCY, SOCIAL NORMS, AND WILDFIRE MITIGATION BEHAVIORS

Katherine Dickinson, University of Colorado Boulder Co-Author(s): Hannah Brenkert-Smith, University of Colorado Boulder, Nicholas Flores, University of Colorado Boulder and Gregory Madonia, University of Colorado Boulder

## FORMULATING AND TESTING A NEW CONSERVATION AUCTION MECHANISM IN AN EXPERIMENTAL SETTING

Steven Otto, Cornell University

Co-Author(s): David Just, Cornell University, Gregory Poe, Cornell University and William Schulze, Cornell University

# POLICY INSTRUMENT CHOICE WHEN MARGINAL DAMAGES ARE UNCERTAIN: THEORY AND EVIDENCE FROM A LABORATORY EXPERIMENT

David Heres, Centro de Investigacion y Docencia Economicas Co-Author(s): C.-Y. Cynthia Lin Lawell, University of California, Davis

### (IM)PATIENCE BY PROXY: MAKING INTERTEMPORAL DECISIONS FOR OTHERS

Sarah Jacobson, Williams College

Co-Author(s): Angela de Oliveira, University of Massachusetts Amherst

### 08:45 - 10:15 SHALE, OIL, AND GAS I

Room Coppertop III

Chairperson: Hendrik Wolff, Simon Fraser University

### THE EFFECTS OF THE NATURAL GAS AND OIL BOOM ON WATER USE IN THE U.S.

Minhong Xu, University of Illinois, Urbana-Champaign Co-Author(s): Madhu Khanna , University of Illinois, Urbana-Champaign and Yilan Xu, University of Illinois, Urbana-Champaign

### LAND USE CHANGE AND UNCONVENTIONAL OIL AND GAS DEVELOPMENT

Yusuke Kuwayama, Resources for the Future Co-Author(s): Timothy Fitzgerald, Texas Tech University, Yusuke Kuwayama, Resources for the Future, Sheila Olmstead, University of Texas at Austin and Alexandra Thompson, Resources for the Future

## UNCONVENTIONAL OIL AND GAS DEVELOPMENT, NEIGHBORHOOD CHOICE, AND EXTERNALITIES

Chrystie Burr, University of Colorado Boulder Co-Author(s): Kathleen Nosal, University of Mannheim

## ESTIMATING INDIRECT ENVIRONMENTAL BENEFITS: FRACKING, COAL, AND AIR POLLUTION

Hendrik Wolff, Simon Fraser University

Co-Author(s): Reid Johnsen, University of California, Berkeley and Jacob LaRiviere, Microsoft Economics

### 08:45 - 10:15 RECREATION MODELING

Room Peak 2

Chairperson: Steven Dundas, Oregon State University

# COMBINING REVEALED AND STATED PREFERENCE DATA FOR VALUING RECREATION USE: A CASE STUDY FOR THE SAN JACINTO WILDERNESS

Jose Sanchez, USDA Forest Service

Co-Author(s): Kenneth Baerenklau, University of California, Riverside and Armando González-Cabán, USDA Forest Service

## INTERTEMPORAL SUBSTITUTION AND THE VALUE OF LEISURE TIME: EVIDENCE FROM RECREATIONAL ANGLERS IN THE GULF OF

### **MEXICO**

Patrick Lloyd-Smith, University of Alberta, Edmonton Co-Author(s): Joshua Abbott, Arizona State University, Wiktor Adamowicz,

University of Alberta and Daniel Willard, Environmental Defense Fund

### MODEL SELECTION IN RECREATION MODELS

Yongjie Ji, Iowa State University

Co-Author(s): Hocheol Jeon, Iowa State University and Catherine Kling, Iowa State University

### WEATHER EFFECTS ON THE DEMAND FOR COASTAL RECREATIONAL FISHING: IMPLICATIONS FOR A CHANGING **CLIMATE**

Steven Dundas, Oregon State University

Co-Author(s): Roger von Haefen, North Carolina State University

08:45 - 10:15 **ECOSYSTEMS I** Room Peak 1

Chairperson: Emi Uchida, University of Rhode Island

### SANCTIONS AND COOPERATION IN COLLECTIVE PAYMENTS FOR **ECOSYSTEM SERVICES (PES) PROGRAMS**

David Kaczan. Duke University

Co-Author(s): Alex Pfaff, Duke University, Luz Rodriguez, Duke University and Elizabeth Shapiro, Duke University

### **CAPTIVE BREEDING OF ENDANGERED SPECIES: ANOTHER** PERVERSE INCENTIVES STORY

Richard Woodward, Texas A&M University

Co-Author(s): Elizabeth A. Marchio, Texas A&M University, Kendra M. Williamson, Texas A&M University and Constance Woodman, Texas A&M University

### IMPLICATIONS OF MISSING BASELINES FOR ESTIMATING THE **IMPACTS OF PROTECTED AREAS.**

Merlin Hanauer, Sonoma State University

Co-Author(s): Paul Ferraro, Johns Hopkins University

### LONG-TERM ECONOMIC EFFECTS OF PAYMENTS FOR **ENVIRONMENTAL SERVICE SCHEME: EVIDENCE FROM RURAL CHINA**

Emi Uchida, University of Rhode Island

Co-Author(s): Aya Suzuki, University of Tokyo, Chengliang Wu, Beijing

Forestry University and Xiaojun Yang, Peking University

### 08:45 - 10:15 SPONSORED SESSION 1 - ADAPTATION TO CLIMATE: AGRICULTURE AND LAND USE

Room Coppertop II

Chairperson: Travis Warziniack, USDA Forest Service

### **ESTIMATING LAND-USE ADAPTATION TO CLIMATE CHANGE IN THE UNITED STATES**

Michael McWilliams, University of Michigan

Co-Author(s): Michael Moore, University of Michigan

Discussant: Andrew Plantinga, University of California, Santa Barbara

## GOVERNMENT PROGRAMS, MORAL HAZARD, AND LAND-USE ADAPTATION TO WEATHER RISK IN THE U.S. MIDWEST

Hsing-Hsiang Huang, University of Michigan

Co-Author(s): Michael Moore, University of Michigan Discussant: Jeremy Weber, University of Pittsburgh

### CLIMATE, INSURANCE, AND INNOVATION: THE CASE OF THE U.S. AGRICULTURE

Ruiging Miao, Auburn University

Discussant: Jason Murray, National Oceanic and Atmospheric

Administration

### 08:45 - 10:15 **ELECTRICITY I**

Room Peak 12

Chairperson: Elaine Frey, California State University, Long

Beach

### POWER FROM THE PEOPLE: OPPORTUNITY COST AND INCOME FUNGIBILITY IN SOLAR HOMES

Andrea La Nauze, University of Melbourne

### WHAT IS GAINED BY SPATIALLY DIFFERENTIATING SOLAR SUBSIDIES?

Anatolii Kokoza, University of Arizona

# THE EFFECT OF ELECTRICITY PRICES ON RESIDENTIAL SOLAR PHOTOVOLTAIC PANEL ADOPTION: FUKUSHIMA AS A NATURAL EXPERIMENT

Takahiko Kiso, University of Aberdeen

Co-Author(s): Yosuke Arino, Keio University and Ron Chan, University of

Manchester

## THE EFFECTS OF CALIFORNIA SOLAR INITIATIVE REBATES ON THE ADOPTION OF SOLAR ENERGY

Elaine Frey, California State University, Long Beach

Co-Author(s): Saba Mojtahedi, California State University, Long Beach

### 08:45 - 10:15 VALUATION: PROPERTY VALUE I

Room Peak 3

Chairperson: Ben Gilbert, University of Wyoming

# VOTING WITH FEET AND VOTING WITH VOTES: USING HOUSING PRICES AND REFERENDA VOTING TO ESTIMATE THE NET VALUE OF OPEN SPACE CONSERVATION

Corey Lang, University of Rhode Island

### ARE LAND VALUES RELATED TO AMBIENT AIR POLLUTION LEVELS? HEDONIC EVIDENCE FROM MEXICO CITY

Lopamudra Chakraborti, Centro de Investigacion y Docencia Economicas Co-Author(s): David Heres, Centro de Investigacion y Docencia

Economicas and Danae Hernandez, Centro de Investigacion y Docencia Economicas

## PIPELINE INCIDENTS AND LOCAL AVERSION TO INFRASTRUCTURE EXPANSION

Rich Sweeney, Boston College

Co-Author(s): Evan Herrnstadt, Harvard University

## SOCIAL IMAGE, SIGNALING, AND SORTING: EVIDENCE FROM A DISCRETE CHOICE EXPERIMENT WITH SOLAR HOMES

Ben Gilbert, University of Wyoming

Co-Author(s): Nicholas Gorman, University of Wyoming

### 10:30 - 12:00 PARALLEL PAPERS SESSION 2

### 10:30 - 12:00 **POLITICAL ECONOMY**

Room Peak 3

Chairperson: Gal Hochman, Rutgers University

## A LEADERSHIP CURSE? OIL SHOCKS AND THE SELECTION OF NATIONAL LEADERS

Kodjovi Eklou, Universite de Sherbrooke

# OWNERSHIP RIGHTS VERSUS ACCESS RIGHTS ALLOCATION TO CRITICAL RESOURCES: AN EMPIRICAL STUDY OF THE ECONOMIC IMPACT OF CHANGES IN OIL GOVERNANCE

Mohammad Kemal, Colorado School of Mines

### THE POLITICAL ECONOMY OF EMBODIED TECHNOLOGIES

Gal Hochman, Rutgers University

Co-Author(s): David Zilberman, University of California, Berkeley

### 10:30 - 12:00 SHALE, OIL, AND GAS II

Room Coppertop III

Chairperson: Timothy Fitzgerald, Texas Tech University

# ASYMMETRIC INFORMATION, ROYALTY DISTORTIONS, AND DRILLING DEADLINES: UNDERSTANDING OIL AND GAS LEASE CONTRACTS

Evan Herrnstadt, Harvard University

Co-Author(s): Ryan Kellogg, University of Michigan and Eric Lewis, U.S.

Department of Justice

## THE TAX TREATMENT OF OIL AND GAS PRODUCTION IN THE UNITED STATES: ASSESSING THE OPTIONS

Gilbert Metcalf, Tufts University

## WHEN EXTERNALITIES ARE TAXED: THE EFFECTS AND INCIDENCE OF PENNSYLVANIA'S IMPACT FEE ON SHALE GAS WELLS

Katie Jo Black, University of Pittsburgh

Co-Author(s): Shawn McCoy, University of Pittsburgh and Jeremy Weber, University of Pittsburgh

## REGIONAL WINDFALLS OR BEVERLY HILLBILLIES? LOCAL AND ABSENTEE OWNERSHIP OF OIL AND GAS ROYALTIES

Timothy Fitzgerald, Texas Tech University

Co-Author(s): Jason Brown, Federal Reserve Bank of Kansas City, James Sears, Montana State University and Jeremy Weber, University of Pittsburgh

10:30 - 12:00 **ECOSYSTEMS II** 

Room Peak 11

Chairperson: Michael Springborn, University of California, Davis

## ADAPTIVE RESISTANCE MANAGEMENT WITH UNCERTAIN FITNESS COSTS

Zachary Brown, North Carolina State University Co-Author(s): Hyeongyul Roh, North Carolina State University

# SPATIAL-DYNAMIC MANAGEMENT OF STOCHASTIC SPECIES INVASIONS: SPATIAL-DYNAMIC INTERACTIONS, ECOLOGICAL CHARACTERISTICS OF INVASIONS, AND SOLUTION METHODS

Kim Hall, Oregon State University

Co-Author(s): Heidi J Albers, University of Wyoming, Tom Dietterich, Oregon State University and Majid Alkaee Taleghan, Oregon State University

### **ESTIMATING THE COST OF INVASIVE SPECIES CONTROL**

Sunny Jardine, University of Delaware Co-Author(s): James Sanchirico, University of California, Davis

# THE HITCHHIKER'S GUIDE TO THE GREENERY: ESTIMATING DYNAMICS OF 150 YEARS OF TRADE-DRIVEN NON-NATIVE SPECIES INTRODUCTIONS VIA PLANT MATERIAL

Michael Springborn, University of California, Davis Co-Author(s): Andrew Liebhold, USDA Forest Service and Matthew MacLachlan, USDA ERS

### 10:30 - 12:00

### **CLIMATE POLICY: TRADE AND LEAKAGE**

Room Peak 1

Chairperson: Jevan Cherniwchan, University of Alberta

## CAP(-TURE) AND TRADE: HOW MULTINATIONAL FIRMS CAPTURE ECONOMIC RENTS THROUGH ENVIRONMENTAL REGULATIONS

Sanjay Patnaik, George Washington University

## THE ELUSIVE QUEST FOR CARBON LEAKAGE: MULTINATIONAL CORPORATIONS AND THE EU-ETS

Michael Themann, Rheinisch-Westfaelisches Institut fuer Wirtschaftsforschung - Berlin

Co-Author(s): Nils aus dem Moore, Rheinisch-Westfaelisches Institut fuer Wirtschaftsforschung - Berlin and Philipp Grosskurth, Rheinisch-Westfaelisches Institut fuer Wirtschaftsforschung - Berlin

### NO CLEANER THAN THE REST: SUPPLYING FOREIGN FIRMS YIELDS NO ENVIRONMENTAL GAIN

Paul Stroik, University of California, Irvine

### A "NEW TRADE" THEORY OF TRANSBOUNDARY POLLUTION

Jevan Cherniwchan, University of Alberta Co-Author(s): Liang Chen, Wuhan University

10:30 - 12:00 RESOURCE

### RESOURCES AND COMMON PROPERTY

Room Peak 2

Chairperson: Christopher Costello, University of California, Santa Barbara

CREDIT AND NATURAL RESOURCE MANAGEMENT: A QUASI-EXPERIMENT FROM A RURAL CREDIT PROGRAM IN INNER MONGOLIA, CHINA

Brian Robinson, McGill University

## ECONOMIC INCENTIVES AND CROWDING-IN SOCIAL NORMS IN A GROUNDWATER COMMONS

Steven M. Smith, Haverford College

### PUBLIC CONTROL OF RATIONAL AND UNPREDICTABLE EPIDEMICS

Charles Sims, University of Tennessee

Co-Author(s): David Finnoff, University of Wyoming and Suzanne O'Regan, University of Tennessee

## PROPERTY RIGHTS, REGULATORY CAPTURE, AND EXPLOITATION OF NATURAL RESOURCES

Christopher Costello, University of California, Santa Barbara Co-Author(s): Corbett Grainger, University of Wisconsin - Madison

10:30 - 12:00

### **REGULATORY ENFORCEMENT I**

Room Peaks 6,7,8

Chairperson: Jay Shimshack, University of Virginia

## GREENER CARS OR GREENER DRIVERS? HOW CARBON AND FUEL TAXES INFLUENCE THE CHOICE AND USE OF CARS.

Sumeet Gulati, University of British Columbia Co-Author(s): Werner Antweiler, University of British Columbia

## ENVIRONMENTAL EFFECTS OF ANTIDUMPING TARIFFS: EVIDENCE FROM SOLAR PHOTOVOLTAICS

Todd Gerarden, Harvard University

DO GLOBAL BUSINESSES THAT JOIN VOLUNTARY CLIMATE INITIATIVES EMIT LESS CARBON? EXPLAINING FIRM PARTICIPATION AND CARBON EMISSIONS BY INTERNAL FIRM-LEVEL FACTORS AND DYNAMICS

Lily Hsueh, Arizona State University

## DOES MANDATORY LABELING OF OUTFALL POINTS INFLUENCE POLLUTION AND COMPLIANCE? EVIDENCE FROM OHIO

Jay Shimshack, University of Virginia

Co-Author(s): Xian Liu, Indiana University-Purdue University - Indianapolis

10:30 - 12:00

### SPONSORED SESSION 2 - ADAPTATION TO CLIMATE: WEATHER AND MIGRATION

Room Coppertop II

Chairperson: Jason Murray, National Oceanic and Atmospheric Administration

### MODELLING EQUILIBRIUM RESPONSES TO CLIMATE-INDUCED MIGRATION

Sul-Ki Lee, Colorado School of Mines

Co-Author(s): Jared Carbone, Colorado School of Mines Discussant: Daniel Phaneuf, University of Wisconsin-Madison

## AGRICULTURAL ADAPTATION TO DISASTER THROUGH LAND RENTAL MARKET: EVIDENCE FROM BANGLADESH

Shaikh Eskander, London School of Economics Co-Author(s): Edward Barbier, University of Wyoming

Discussant: Katherine Dickinson, University of Colorado Boulder

## THE IMPACT OF ADAPTATION ON PRICE VS. QUANTITY INSTRUMENTS

Tamara Sheldon, University of South Carolina Co-Author(s): Stephie Fried, Carleton College Discussant: Travis Warziniack, USDA Forest Service

10:30 - 12:00

### **ELECTRICITY II**

Room Peak 12

Chairperson: Shaun McRae, University of Michigan

## MEASURING SPLIT INCENTIVES IN COMMERCIAL ELECTRICITY USAGE

Maya Papineau, Carleton University

Co-Author(s): Katrina Jessoe, University of California, Davis and David

Rapson, University of California, Davis

## SPILLOVER EFFECTS OF ENERGY-INTENSIVE INDUSTRIES ON RESIDENTIAL ELECTRICITY DEMAND

Nathaly Rivera, Michigan State University

### LOSS AVERSION, TEMPORAL FRAMING, AND HOUSEHOLD ENERGY DECISIONS

Carrie Gill, University of Rhode Island

Co-Author(s): Stephen Atlas, University of Rhode Island

### PRICE PERCEPTION AND ELECTRICITY DEMAND WITH NONLINEAR TARIFFS

Shaun McRae, University of Michigan

Co-Author(s): Robyn Meeks, University of Michigan

10:30 - 12:00

### **DEVELOPING COUNTRIES I**

Room Peak 10

Chairperson: Heidi J Albers, University of Wyoming

COLLECTIVE INCENTIVES INSTITUTIONS IN REGULATING SMALL-SCALE GOLD MINING: A FIELD-LAB EXPERIMENT ON CONDITIONAL COOPERATION, COMPLIANCE AND FAIRNESS UNDER GROUP

### **REWARDS**

Luz Rodriguez, Duke University Co-Author(s): Alexander Pfaff, Duke University and Maria Alejandra Velez, Universidad de los Andes

# THE COST OF CONSERVATION IN DEVELOPING COUNTRIES: SATELLITE EVIDENCE FROM CHINA'S FARMLAND PROTECTION PROGRAM

Peter Christensen, University of Illinois, Urbana-Champaign

# THE VALUE OF ACTING LOCAL: MICRO-INSTITUTIONS AND ADOPTION OF AN ENVIRONMENTAL HEALTH-IMPROVING TECHNOLOGY

Marc Jeuland, Duke University Co-Author(s): Subhrendu Pattanayak, Duke University and Faraz Usmani, Duke University

# MARINE PROTECTED AREAS IN LOW-INCOME COUNTRIES: LABOR ALLOCATION, LOCATION DECISIONS, AND INCOMPLETE ENFORCEMENT

Heidi J Albers, University of Wyoming Co-Author(s): Roger Madrigal, CATIE, Louis Preonas, University of

Co-Author(s): Roger Madrigal, CATIE, Louis Preonas, University of California, Berkeley and Elizabeth JZ Robinson, University of Reading

### 10:30 - 12:00 VALUATION: METHODS AND APPLICATION

Room Peak 9

Chairperson: Alan Krupnick, Resources for the Future

### ALTERNATIVE VALUE ELICITATION QUESTIONS IN CONTINGENT VALUATION: A NEW HOPE

Christian Vossler, University of Tennessee Co-Author(s): J. Scott Holladay, University of Tennessee

### PRICE PREMIA FOR USDA ORGANIC CERTIFIED GROCERY ITEMS AND NUTRITIONAL QUALITY

Tyler Mangin, University of Colorado Boulder

# ESTIMATING TOTAL ECONOMIC VALUE OF THE NATIONAL PARK SYSTEM USING CHOICE EXPERIMENTS: RANK ORDERED LOGIT MODELS AND RANKING A MORE REPRESENTATIVE SAMPLE

John Loomis, Colorado State University Co-Author(s): Linda Bilmes, Harvard University and Michelle Haefele, Colorado State University

### PREFERENCES FOR EQUALITY IN ENVIRONMENTAL OUTCOMES

Alan Krupnick, Resources for the Future

Co-Author(s): Maureen Cropper, University of Maryland, Alan Krupnick, Resources for the Future and William Raich, Resources for the Future

11:45 - 01:45 **BOXED LUNCH** Room Peaks 4,5

12:15 - 01:45 **POSTER SESSION** 

Room Third Floor South Fover

# COMPARING PERFORMANCE OF DISCRETE CHOICE MODELS IN STATED CHOICE METHODS: A PREDICTION-BASED APPROACH USING PREFERENCE ORDER DATA

Yau-Huo Shr, Pennsylvania State University Co-Author(s): Richard Ready, Montana State University

## INDIVIDUAL AND COMMUNITY-LEVEL INFLUENCES ON WILDFIRE RISK MITIGATION DECISIONS ON PRIVATE PROPERTY

James Meldrum, University of Colorado Boulder Co-Author(s): Hannah Brenkert-Smith, University of Colorado Boulder, Patricia Champ, USDA Forest Service and Travis Warziniack, USDA Forest Service

## MORE EVIDENCE FOR IMPACTS OF CLIMATE CHANGE ON ENERGY CONSUMPTION

Hocheol Jeon, Iowa State University

# DO PEOPLE LEARN FROM THE MISFORTUNE OF THEIR NEIGHBORS? AN EMPIRICAL ANALYSIS OF THE EFFECT OF EXPERIENCE ON NATURAL DISASTER DAMAGE IN THE UNITED STATES

Patrick Prendergast, University of Rhode Island

## BAD WEATHER, SAFE DAY? THE EFFECT OF WEATHER AND POLLUTION ON CRIME

Bo Liu, Georgia State University

# DO CONSUMERS RESPOND TO MARGINAL PRICE UNDER INCREASING BLOCK TARIFFS WHEN RATE INFORMATION IS CHEAP? EVIDENCE FROM RESIDENTIAL WATER DEMAND.

Corey Lott, University of California, Santa Barbara

# RECREATIONAL DIVER WILLINGNESS TO PAY FOR GOLIATH GROUPER ENCOUNTERS DURING THE MONTHS OF THEIR SPAWNING AGGREGATION OFF EASTERN FLORIDA, USA

Geoffrey Shideler, University of Miami Co-Author(s): Pierce Brett, University of Miami

### THE DYNAMICS OF A FISHERY FACED WITH THE AQUACULTURE DILEMMA

Andreea L. Cojocaru, University of Stavanger Co-Author(s): Frank Asche, University of Stavanger

## THE EFFECT OF TROPICAL CYCLONES ON ECONOMIC SECTORS WORLDWIDE: A PANEL DATA ANALYSIS USING GEODATA

Sven Kunze, Heidelberg University

### THE IMPACT OF RESTRUCTURING ON US ELECTRICITY MARKET INVESTMENT

Alex Hill, University of Colorado Boulder

### TURNING THE TIDE: IMPACT OF FRAMING ON COASTAL WATER QUALITY DECISIONS

Caroline Noblet, University of Maine

Co-Author(s): Kathleen Bell, University of Maine

### VALUING CARBON ABATEMENT BENEFITS OF INTERMITTENT RENEWABLE ENERGY

Miguel Castro, Michigan State University

## 01:00 - 05:15 SPECIAL SESSION - THE 2010 GULF OF MEXICO OIL SPILL: ESTIMATING THE ECONOMIC LOSSES

Room Imperial Ballroom

Chairpersons: Norman Meade, NOAA and Roger Von Haefen, North Carolina State University

### 01:45 - 03:15 PARALLEL PAPERS SESSION 3

### 01:45 - 03:15 AIR POLLUTION I

Room Peak 12

Chairperson: Corbett Grainger, University of Wisconsin -

Madison

## AVOIDANCE BEHAVIOR AGAINST AIR POLLUTION: DO PEOPLE RESPOND TO PM2.5 INFORMATION?

Tong Liu, Hong Kong University of Science and Technology Co-Author(s): Guojun He, Hong Kong University of Science and Technology and Alexis Lau, Hong Kong University of Science and Technology

## AIR POLLUTION AND CRIMINAL ACTIVITY: EVIDENCE FROM CHICAGO MICRODATA

Erich Muehlegger, University of California, Davis Co-Author(s): Evan Herrnstadt, Harvard University

### AIR POLLUTION AND LABOR SUPPLY: EVIDENCE FROM SOCIAL SECURITY DATA

Ulrich Wagner, University of Mannheim

Co-Author(s): Felix Holub, University of Mannheim and Laura Hospido, Bank of Spain

### HOW STATE REGULATORS COMPLY WITH FEDERAL STANDARDS: STRATEGIC AMBIENT POLLUTION MONITOR SITING

Corbett Grainger, University of Wisconsin - Madison Co-Author(s): Andrew Schreiber, University of Wisconsin - Madison and Wonjun Chang, University of Wisconsin - Madison

### 01:45 - 03:15 **LEAKAGE AND COMPETITIVENESS IN CLIMATE CHANGE**

Room Coppertop II

POLICY

Chairperson: Peter Maniloff, Colorado School of Mines

## TRADE BETWEEN MASS- AND RATE-BASED REGULATORY REGIMES: BAD FOR EMISSIONS?

Carolyn Fischer, Resources for the Future

### DOES CLIMATE CHANGE POSE A RISK TO COMPETITIVENESS? - GLOBAL FIRM LEVEL EVIDENCE

Ralf Martin, Imperial College London

Co-Author(s): Antoine Dechezlepretre, London School of Economics, Stefania Lovo, London School of Economics and Misato Sato, London School of Economics

### **MEASURING LEAKAGE RISK**

Meredith Fowlie, University of California, Berkeley

Co-Author(s): Mar Reguant, Northwestern and Stephen Ryan, University of Texas at Austin

### **UPDATING ALLOCATION OF EMISSIONS ALLOWANCES**

Peter Maniloff, Colorado School of Mines

Co-Author(s): Ian Lange, Colorado School of Mines

### 01:45 - 03:15 SHALE, OIL, AND GAS III

Chairperson: Charles Mason, University of Wyoming

Room Coppertop III

### RENTS, YIELDS AND HYDRAULIC FRACTURING: THE CASE OF THE BAKKEN

Timothy Rakitan, Iowa State University

### SUPPLY-SIDE COINTEGRATION IN NATURAL GAS PRICES AND CRUDE OIL PRICES

Gavin Roberts, University of Wyoming

Co-Author(s): Benjamin Gilbert, University of Wyoming

### OPTION VALUE, LEARNING, AND LOCAL OPPOSITION TO HYDRAULIC FRACTURING

Joshua Hess, Colorado State University

Co-Author(s): Harvey Cutler, Colorado State University, Terrence Iverson, Colorado State University and Dale Manning, Colorado State University

### THE IMPACT OF NEW TECHNOLOGIES ON NATURAL GAS WELL PRODUCTIVITY

Charles Mason, University of Wyoming

Co-Author(s): Gavin Roberts, University of Wyoming

### 01:45 - 03:15 **FISHERIES I**

Chairperson: Joshua K. Abbott, Arizona State University

### Room Peak 2

### A MODEL OF QUOTA ARBITRAGE IN MULTISPECIES FISHERIES

Jorge Holzer, University of Maryland

Co-Author(s): Geret DePiper, NOAA Fisheries

# MANAGING FOR A DIVERSE PORTFOLIO: THE VALUE OF GENETIC VARIATION IN SALMON FOR RESILIENCE UNDER ENVIRONMENTAL CHANGE

Amanda Faig, University of California, Davis Co-Author(s): Michael Springborn, University of California, Davis

### SCALLOPS AND SHELLFISH FISHERMEN: A BIO-ECONOMETRIC ANALYSIS

Brian Reed, Yale School of Forestry & Environmental Studies Co-Author(s): Eli Fenichel, Yale School of Forestry & Environmental Studies and Seong Do Yun, Yale School of Forestry & Environmental Studies

## THE BENEFITS OF ESCAPING RECREATIONAL "DERBIES": EVIDENCE FROM A POLICY TRIAL

Joshua K. Abbott, Arizona State University Co-Author(s): Wiktor Adamowicz, University of Alberta, Edmonton, Patrick Lloyd-Smith, University of Alberta, Edmonton and Daniel Willard, Environmental Defense Fund

### 01:45 - 03:15 INCIDENCE AND DISTRIBUTIONAL EFFECTS

Room Peak 10

Chairperson: Billy Pizer, Duke University

### THE DISTRIBUTIONAL EFFECTS OF ADOPTING A CARBON TAX

Stephie Fried, Carleton College

Co-Author(s): Kevin Novan, University of California, Davis and William Peterman, Federal Reserve Board of Governors

### WHAT IMPACTS SOLAR SUBSIDY INCIDENCE?

Jacquelyn Pless, Colorado School of Mines Co-Author(s): Ruben Lobel, University of Pennsylvania and Arthur van Benthem, University of Pennsylvania

## CARBON TAXATION, INEQUALITY AND ENGEL'S LAW - THE DOUBLE DIVIDEND OF REDISTRIBUTION

David Klenert, Mercator Research Institute on Global Commons and Climate Change (MCC)

Co-Author(s): Ottmar Edenhofer, Mercator Research Institute on Global Commons and Climate Change (MCC); Potsdam Institute for Climate Impact Research (PIK); Technical University Berlin, Linus Mattauch, Mercator Research Institute on Global Commons and Climate Change (MCC) and Gregor Schwerhoff, Mercator Research Institute on Global Commons and Climate Change (MCC)

### THE INEQUITY OF POLLUTION TAXES

Billy Pizer, Duke University Co-Author(s): Steven Sexton, Duke University

### ENVIRONMENTAL REGULATION AND LABOR DEMAND -- RESEARCH USING MICRODATA

Chairperson: Wayne Gray, Clark University

Room Peak 11

01:45 - 03:15

# ENVIRONMENTAL REGULATION, POLLUTION REDUCTION AND LABOR DEMAND: EVIDENCE FROM TEXTILE PRINTING AND DYEING INDUSTRY IN CHINA

Liu Mengdi, Nanjing University

Co-Author(s): Zhang Bing, Nanjing University and Ronald Shadbegian, National University of Singapore

### ENVIRONMENTAL REGULATION AND INPUT REALLOCATION: EVIDENCE FROM U.S. MANUFACTURING PLANTS

Ron Shabegian, National University of Singapore Co-Author(s): Randy Becker, U.S. Census Bureau, Center for Economic Studies, Ann Ferris, US EPA and Christos Makridis, Stanford University

### INDUSTRIAL COMPETITIVENESS AND STATE-LEVEL CLIMATE POLICY

Brendan Casey, Clark University

Co-Author(s): Wayne Gray, Clark University, Joshua Linn, Resources for the Future and Richard Morgenstern, Resources for the Future

## GROSS VS NET EMPLOYMENT EFFECTS OF ENVIRONMENTAL REGULATORY STRINGENCY

Wayne Gray, Clark University

Co-Author(s): Ann Ferris, US EPA and Ronald Shadbegian, National University of Singapore

01:45 - 03:15

### **ENERGY ECONOMICS**

Room Peak 3

Chairperson: Andrew Leach, University of Alberta

# WEAK LINKS AND ENERGY PRODUCTIVITY: MEASURING AND EXPLAINING INTERNATIONAL DIFFERENCES IN ENERGY PRODUCTIVITY

Botong Zhang, University of California, Los Angeles Co-Author(s): Christos Makridis, Stanford University

## MARKET POWER, CLIMATE CHANGE, AND COAL RETIREMENT: EVIDENCE FOR THE TEXAS ELECTRICITY MARKET

Matt Woerman, University of California, Berkeley

### EXPANDING CROSS-BORDER ELECTRICITY COOPERATION AND TRADE IN SOUTH ASIA

Mike Toman, World Bank

### OIL SANDS, GREENHOUSE GAS POLICY, AND THE OIL PRICE CRASH

Andrew Leach, University of Alberta

Co-Author(s): Branko Boskovic, University of Alberta

01:45 - 03:15

### **CLIMATE CHANGE: WEATHER II**

Room Peaks 6,7,8

Chairperson: Olivier Deschenes, University of California, Santa Barbara

### ADAPTATION AND THE MORTALITY EFFECTS OF TEMPERATURE ACROSS US CLIMATE REGIONS

Nolan Miller, University of Illinois at Urbana-Champaign Co-Author(s): Garth Heutel, Georgia State University and David Molitor, University of Illinois at Urbana-Champaign

## CATCHING A COLD: THE DYNAMIC RELATIONSHIP BETWEEN TEMPERATURE AND HEALTH

Corey White, University of California, Santa Barbara

### WEATHER, TRAFFIC ACCIDENTS, AND EXPOSURE TO CLIMATE CHANGE

Kevin Roth, University of California, Irvine Co-Author(s): Benjamin Leard, Resources for the Future

## MAYBE NEXT MONTH? TEMPERATURE SHOCKS, CLIMATE CHANGE, AND DYNAMIC ADJUSTMENTS IN BIRTH RATES

Olivier Deschenes, University of California, Santa Barbara

01:45 - 03:15 TRANSPORTATION I Room Peak 9

Chairperson: Gabriel Lade, Iowa State University

## CHARGING DRIVERS BY THE POUND: THE EFFECT OF THE VED SYSTEM IN THE UK

Davide Cerruti, University of Maryland Co-Author(s): Anna Alberini, University of Maryland and Joshua Linn, Resources for the Future

# STRATEGIC RESPONSE TO ENVIRONMENTAL REGULATION: THEORY, AND EVIDENCE FROM THE U.S. FREIGHT TRUCK INDUSTRY

Matthew Zaragoza-Watkins, Environmental Defense Fund and Massachusetts Institute of Technology Co-Author(s): Katherine Rittenhouse, Environmental Defense Fund

## PASS-THROUGH AND MARKET STRUCTURE: EVIDENCE FROM THE RENEWABLE FUEL STANDARD

Gabriel Lade, Iowa State University Co-Author(s): James Bushnell, University of California, Davis

03:30 - 05:00 PARALLEL PAPERS SESSION 4

03:30 - 05:00 MARKET MECHANISMS Room Peak 12 Chairperson: Sebastian Rausch, ETH Zurich

### WHEN DO FIRMS GO GREEN? COMPARING PRICE INCENTIVES WITH COMMAND AND CONTROL REGULATIONS IN INDIA

Ann Harrison, University of Pennsylvania Co-Author(s): Ann Harrison, University of Pennsylvania, Leslie Martin, University of Melbourne and Shanthi Nataraj, RAND Corporation

### PRICES VERSUS QUANTITIES WITH POLICY UPDATING

Brian Prest, Duke University

Co-Author(s): William Pizer, Duke University

### THE EFFECTS OF CONSIGNMENT SALES ON EMISSION ALLOWANCE AUCTIONS

William Shobe, University of Virginia

Co-Author(s): Charles Holt, University of Virginia

### COMBINING PRICE AND QUANTITY CONTROLS UNDER PARTITIONED ENVIRONMENTAL REGULATION

Sebastian Rausch, ETH Zurich Co-Author(s): Jan Abrell, ETH Zurich

03:30 - 05:00 FISHERIES II Room Peak 11

Chairperson: Scott Barrett, Columbia University

### OBSERVER EFFECTS IN THE GULF OF MAINE GROUNDFISH SECTOR

Angela Muench, NOAA Northeast Fisheries Science Center Co-Author(s): Chad Demarest, NOAA Northeast Fisheries Science Center, SSB

# SPATIAL BEHAVIOR AND THE VALUE OF SPATIALLY DIFFERENTIATED RESOURCE MANAGEMENT: EVIDENCE FROM THE GREAT BARRIER REEF COMMERCIAL FISHERY

Gabriel Sampson, University of California, Davis

# CREATING LOCAL ECONOMIC VALUE THROUGH ARTISANAL FISHERIES MANAGEMENT: AN ECOSYSTEM SERVICE VALUATION APPROACH

Jacob Salcone, Colorado State University Co-Author(s): Dale Manning, Colorado State University

### PROPERTY RIGHTS VS. COOPERATIVE AGREEMENTS: THE OCEAN FISHERIES GAME

Scott Barrett, Columbia University

03:30 - 05:00 CARBON OFFSETS Room Peak 3

Chairperson: Leslie Martin, University of Melbourne

# BIOPHYSICAL AND ECONOMIC ANALYSIS OF CARBON DIOXIDE REMOVAL OPTIONS: FOREST SEQUESTRATION AND WOODY BIOMASS PRODUCTION FOR BECCS

Alice Favero, Georgia Institute of Technology

## ASSESSING THE ADDITIONALITY OF THE CLEAN DEVELOPMENT MECHANISM IN CHINA WITH EMISSIONS FORECASTS

Gabriel Chan, University of Minnesota

Co-Author(s): Joseph Aldy, Harvard University

## ANTICIPATION OF PES INCENTIVES AND ENVIRONMENTAL SERVICE GOALS

Augustina Odame, Yale School of Forestry & Environmental Studies Co-Author(s): Vic Adamowicz, University of Alberta, Alicia Entem, Smithsonian Tropical Research Institute and Eli Fenichel, Yale School of Forestry & Environmental Studies

# SUPPLY AND IMPACT OF VOLUNTARY CARBON OFFSETS: PARTICIPATION OF INDIA'S MANUFACTURING FIRMS IN THE CLEAN DEVELOPMENT MECHANISM

Leslie Martin, University of Melbourne Co-Author(s): Kim Liu, University of Melbourne

03:30 - 05:00 **ENERGY EFFICIENCY I** 

Room Coppertop III

Chairperson: Garth Heutel, Georgia State University

## INVESTMENT IN THE HEAT OF THE MOMENT: HEATING AND COOLING UPGRADES IN RESPONSE TO EXTREME WEATHER

Alecia Cassidy, University of Michigan

## ENERGY EFFICIENCY SAVINGS IN LOW-INCOME HOUSEHOLDS: EVIDENCE FROM THE CALIFORNIA ENERGY SAVINGS ASSISTANCE PROGRAM

Joshua Blonz, University of California, Berkeley

# CONSUMER INATTENTION AND ENERGY INTENSIVE DURABLES: A REJOINDER AND NEW EVIDENCES FOR THE US APPLIANCE MARKET

Sebastien Houde, University of Maryland Co-Author(s): Erica Myers, University of Illinois, Urbana-Champaign

### PROSPECT THEORY AND ENERGY EFFICIENCY

Garth Heutel, Georgia State University

03:30 - 05:00 **EXPERIMENTS II** 

Room Peak 9

Chairperson: Tsvetan Tsvetanov, University of Kansas

### TRIGGERING COOPERATION

Peter Martinsson, University of Gothenburg Co-Author(s): Martin Dufwenberg, University of Arizona and University of Gothenburg, Gunnar Köhlin, University of Gothenburg and Haileselassie Medhin, University of Gothenburg

## SOCIAL IDENTITY, SOCIAL PREFERENCES, AND THE PROVISION OF PUBLIC GOODS: EVIDENCE FROM SWITZERLAND

Marcella Veronesi, University of Verona and ETH Zurich Co-Author(s): Devesh Rustagi, Goethe University Frankfurt

## AN ONLINE EXPERIMENT ON COOPERATION AND GROUPISHNESS ACROSS URBAN DISTRICTS

Carlo Gallier, Centre for European Economic Research (ZEW)
Co-Author(s): Timo Goeschl, University of Heidelberg, Martin Kesternich,
Centre for European Economic Research (ZEW), Johannes Lohse,
University of Heidelberg, Christiane Reif, Centre for European Economic

Research (ZEW) and Daniel Roemer, Centre for European Economic Research (ZEW)

## NUDGING ENERGY EFFICIENCY ADOPTION: EVIDENCE FROM A FIELD EXPERIMENT

Tsvetan Tsvetanov, University of Kansas Co-Author(s): Kenneth Gillingham, Yale University

03:30 - 05:00

**BIOFUELS** 

Room Coppertop II

Chairperson: Mark Jacobsen, University of California, San

Diego

### INVESTMENT IN CORN-ETHANOL PLANTS IN THE MIDWESTERN UNITED STATES

C.-Y. Cynthia Lin Lawell, University of California, Davis Co-Author(s): Karen Thome, USDA Economic Research Service

# LAND USE IMPACT OF THE RENEWABLE FUEL STANDARD - EVIDENCE FROM CHANGES IN THE CONSERVATION RESERVE PROGRAM ENROLLMENT

Deepak Rajagopal, University of California, Los Angeles Co-Author(s): Jenny Ifft, Cornell University and Ryan Weldzius, University of California, Los Angeles

### EXAMINING THE EFFECTS OF UNCERTAINTY ON SECOND-GENERATION BIOFUEL INVESTMENT BY USING A TWO STOCHASTIC PROCESS APPROACH

Evan Markel, University of Tennessee Co-Author(s): Charles Sims, University of Tennessee

## BIOFUEL AND THE REGULATION OF LIFE-CYCLE EMISSIONS ACROSS BOUNDARIES

Mark Jacobsen, University of California, San Diego Co-Author(s): William Leung, University of California, Davis

03:30 - 05:00

**LAND USE** 

Room Peak 10

Chairperson: David Newburn, University of Maryland

## CURRENT USE PROPERTY TAXATION IN PROTECTING RURAL LAND: AN APPLICATION USING DURATION ANALYSIS

Darshana Udayanganie, Central Michigan University

# MEETING WATER QUALITY STANDARDS BY ALTERING LAND USE PATTERNS: AN ANALYSIS OF PRICE VS. QUANTITY BASED POLICY INSTRUMENTS

Douglas Wrenn, Pennsylvania State University Co-Author(s): Allen Klaiber, The Ohio State University

## BURNING DOWN THE HOUSE: HOUSING CHARACTERISTICS AND THE POLITICAL ECONOMY OF WILDFIRE SUPPRESSION

Matthew Wibbenmeyer, University of California, Santa Barbara Co-Author(s): Sarah Anderson, University of California, Santa Barbara, Andrew Plantinga, University of California, Santa Barbara and Randall Walsh, University of Pittsburgh

## ADDITIONALITY AND FOREST CONSERVATION POLICY FOR RESIDENTIAL DEVELOPMENT

David Newburn, University of Maryland

Co-Author(s): Jeffrey Ferris, University of Maryland

### 03:30 - 05:00 **REGULATING FIRMS**

Room Peaks 6,7,8

Chairperson: Jonathan Hughes, University of Colorado Boulder

### **MANAGEMENT AND POLLUTION**

Mark Curtis, Wake Forest University

### THE IMPACTS OF ENVIRONMENTAL REGULATION IN THE PRESENCE OF HETEROGENOUS FIRMS

Scott Holladay, University of Tennessee

Co-Author(s): Lawrence LaPlue, University of Tennessee

## RATE OF RETURN REGULATION AND ENVIRONMENTAL EXTERNALITIES: EVIDENCE FROM METHANE LEAKS

Catherine Hausman, University of Michigan

Co-Author(s): Lucija Muehlenbachs, University of Calgary

## WHO (ELSE) BENEFITS FROM ELECTRICITY DEREGULATION? RAILROADS, INFORMATION AND PRICE DISCRIMINATION

Jonathan Hughes, University of Colorado Boulder Co-Author(s): Ian Lange, Colorado School of Mines

### 03:30 - 05:00

### **CLIMATE CHANGE: ASSESSING THE IMPACTS**

Room Peak 2

Chairperson: Justin Caron, HEC Montreal

## TEMPERATURE AND ECONOMIC GROWTH: NEW EVIDENCE FROM TOTAL FACTOR PRODUCTIVITY

Peng Zhang, University of California, Santa Barbara

### LONG-TERM IMPACTS OF HIGH TEMPERATURES ON ECONOMIC PRODUCTIVITY

Jason Russ, George Washington University

Co-Author(s): Paul Carrillo, George Washington University and Ram

Fishman, Tel Aviv University

## TEMPERATURE AND GROWTH: A PANEL ANALYSIS OF THE UNITED STATES

Bridget Hoffmann, Inter-American Development Bank

Co-Author(s): Riccardo Colacito, University of North Carolina Chapel Hill

and Toan Phan, University of North Carolina Chapel Hill

## PER CAPITA INCOME, CONSUMPTION PATTERNS, ENERGY DEMAND AND CO2 EMISSIONS

Justin Caron, HEC Montreal

Co-Author(s): Thibault Fally, University of California, Berkeley

### 11TH JUNE 2016

09:00 - 10:30	PARALLEL PAPERS SESSION 5		
09:00 - 10:30	ELECTRICITY III Chairperson: Ujjayant Chakravorty, Tufts University	Room Peak 11	
	HYDRO POWER. MARKET MIGHT. Grant McDermott, University of California, Santa Barbara		
	WASTE NOT: CAN BIOGAS DELIVER A DOUBLE DIVIDEND? Hope Thompson, University of Michigan Co-Author(s): Robyn Meeks, University of Michigan and Katharine Sims, Amherst College		
	DO ENERGY SAVINGS GROW WITH (SHADE) TREES? Joe Maher, National Socio-Environmental Synthesis Center		
	CHINA'S CLEAN ENERGY STRATEGY: SOLAR, SHALE GAS OR NUCLEAR? Ujjayant Chakravorty, Tufts University Co-Author(s): Carolyn Fischer, Resources for the Future and Marie-H Hubert, University of Rennes	elene	
09:00 - 10:30	FORESTRY: DEFORESTATION Chairperson: Teevrat Garg, University of California, San Diego and London School of Economics	Room Peak 1	
	ASSESSING THE IMPACT OF PROTECTED AREAS ON FOREST		

### ASSESSING THE IMPACT OF PROTECTED AREAS ON FOREST RECOVERY AND REFORESTATION

Jordi Honey-Rosés, University of British Columbia Co-Author(s): Kathy Baylis, University of Illinois, Urbana-Champaign and Isabel Ramirez, Universidad Nacional Autonoma de Mexico (UNAM)

## CONSEQUENCES OF PROTECTED AREAS FOR FOREST EXTRACTION AND HUMAN WELL-BEING: EVIDENCE FROM NEPAL

Aparna Howlader, University of Illinois Urbana-Champaign Co-Author(s): Amy Ando, University of Illinois Urbana-Champaign

## COMMUNITY-MANAGED FORESTS AND HOUSEHOLD WELFARE: EMPIRICAL EVIDENCE FROM NEPAL

Jayash Paudel, University of Massachusetts Amherst

### THE ROLE OF LOCAL GOVERNMENT IN PRESERVING THE COMMONS: THEORY AND EVIDENCE FROM INDONESIA

Teevrat Garg, University of California, San Diego and London School of Economics

Co-Author(s): Caterina Gennaioli, London School of Economics and Stefania Lovo, London School of Economics

09:00 - 10:30 VALUATION: PROPERTY VALUE II

Chairperson: Sathya Gopalakrishnan, Ohio State University

### HOUSEHOLD LOCATION DECISIONS AND THE VALUE OF CLIMATE AMENITIES

Paramita Sinha, RTI International

Co-Author(s): Maureen Cropper, University of Maryland

# ASSESSING THE ECONOMIC BENEFITS OF STRUCTURAL FLOOD PROTECTION: A REPEAT-SALES APPROACH FROM THE ENGLISH HOUSING MARKET

Allan Beltran, University of Birmingham

Co-Author(s): Robert Elliott, University of Birmingham and David Maddison,

University of Birmingham

### MIGRATION AS REVEALED PREFERENCE FOR AMENITIES: EVIDENCE FROM TAX FILING LOCATIONS

Brett Close, University of Wisconsin - Madison

Co-Author(s): Daniel Phaneuf, University of Wisconsin - Madison

## COASTAL ADAPTATION TO CLIMATE CHANGE AND THE CAPITALIZED IMPACT OF BEACH NOURISHMENT

Sathya Gopalakrishnan, Ohio State University Co-Author(s): Yun Qiu, Ohio State University

09:00 - 10:30 REGULATORY ENFORCEMENT II

Room Peak 12

Room Peak 2

Chairperson: David Finnoff, University of Wyoming

### MANDATORY MINIMUM PENALTIES FOR ENVIRONMENTAL ENFORCEMENT

Mary Evans, Claremont McKenna College

Co-Author(s): J.R. DeShazo, University of California Los Angeles

## REGULATING THE REGULATORS? FEDERAL OVERSIGHT OF STATE ENVIRONMENTAL ENFORCEMENT

Sarah Stafford, College of William and Mary

Co-Author(s): Mary Evans, Claremont McKenna College

## WHEN THREATS BECOME CREDIBLE: A NATURAL EXPERIMENT OF ENVIRONMENTAL ENFORCEMENT FROM FLORIDA

Wesley Blundell, University of Arizona

# NATURAL VS ANTHROPOGENIC INSURANCE: MANAGING A NATIVE SPECIES FACING INVASION RISKS INVOLVING MULTI-STABLE OUTCOMES

David Finnoff, University of Wyoming

Co-Author(s): Kevin Berry, Yale University, Richard Horan, Michigan State University, Carson Reeling, Michigan State University and Jason Shogren, University of Wyoming

, , ,

09:00 - 10:30

RESOURCE DEVELOPMENT AND EXTRACTION

Room Peak 9

Chairperson: Martin Stuermer, Federal Reserve Bank of Dallas

## CREATING ANTICOMMONS: HISTORICAL LAND PRIVATIZATION AND MODERN NATURAL RESOURCE USE

Bryan Leonard, University of California, Santa Barbara Co-Author(s): Dominic Parker, University of Wisconsin, Madison

### SOCIAL LICENSING OF MINERAL RESOURCES: FORMAL AND INFORMAL ROADBLOCKS FOR AVAILABILITY

Brett Jordan, Colorado School of Mines

### OPTIMAL GROUNDWATER EXTRACTION UNDER STOCHASTIC CLIMATE CHANGE.

Nicolas Quintana Ashwell, Kansas State University Co-Author(s): Nathan Hendricks, Kansas State University and Jeff Peterson, University of Minnesota

### NON-RENEWABLE RESOURCES, EXTRACTION TECHNOLOGY AND ENDOGENOUS GROWTH

Martin Stuermer, Federal Reserve Bank of Dallas Co-Author(s): Gregor Schwerhoff, Potsdam Institute for Climate Impact Research

### 09:00 - 10:30 ENVIRONMENTAL AGREEMENTS

Room Peaks 6,7,8

Chairperson: Glenn Sheriff, US Department of State

## (UN)FAIR DELEGATION: EXPLORING THE STRATEGIC USE OF EQUITY RULES IN INTERNATIONAL CLIMATE NEGOTIATIONS

Andreas Lange, University of Hamburg Co-Author(s): Claudia Schwirplies, University of Hamburg

## THE STRATEGIC DIMENSION OF FINANCING GLOBAL PUBLIC GOODS

Ulrike Kornek, Mercator Research Institute on Global Commons and Climate Change

Co-Author(s): Ottmar Edenhofer, Mercator Research Institute on Global Commons and Climate Change

## EVALUATING THE PARIS AGREEMENT'S MITIGATION PLEDGES WITH STATISTICAL FORECASTING MODELS

Cuicui Chen, Harvard University Co-Author(s): Joseph Aldy, Harvard University and William Pizer, Duke University

# WHAT IS THE IMPLICIT BURDEN SHARING ARRANGEMENT FOR INTERNATIONAL ALLOCATION OF GREENHOUSE GAS REDUCTION REVEALED BY SUBMISSIONS TO THE 2015 PARIS AGREEMENT?

Glenn Sheriff, US Department of State

09:00 - 10:30 AIR POLLUTION II Room Coppertop III

Chairperson: Paulina Oliva, University of California, Santa Barbara

### THE IMPACT OF ENERGY POLICY ON RESPIRATORY HEALTH AND **MORTALITY**

Alex Hollingsworth, Indiana University

Co-Author(s): Ivan Rudik, Iowa State University

### THE WELFARE COSTS OF AIR POLLUTION INDUCED MEDICAL **EXPENDITURES**

Austin Williams, University of Wisconsin - Madison

### THE EFFECT OF POLLUTION ON HEALTH AND SPENDING: **EVIDENCE FROM CHANGES IN WIND PATTERNS**

Tatvana Dervugina, University of Illinois at Urbana-Champaign Co-Author(s): Garth Heutel, Georgia State University, Nolan Miller, University of Illinois at Urbana-Champaign, David Molitor, University of Illinois at Urbana-Champaign and Julian Reif, University of Illinois at Urbana-Champaign

### AIR POLLUTION AND PROCYCLICAL MORTALITY: CAUSAL **EVIDENCE FROM THERMAL INVERSIONS**

Paulina Oliva, University of California, Santa Barbara Co-Author(s): Daniel Hicks, University of Oklahoma and Patrick Marsh, NOAA/NWS/NCEP Storm Prediction Center

**AGRICULTURE I** 09:00 - 10:30

Room Peak 3

Chairperson: Jeremy Weber, University of Pittsburgh

### AN ANALYSIS OF CLIMATE IMPACTS ON HERBICIDE, INSECTICIDE, AND FUNGICIDE EXPENDITURES: A FORWARD LOOKING ANALYSIS

Lauren Rhodes, Texas A&M University

Co-Author(s): Bruce A. McCarl, Texas A&M University

### COST-BENEFIT ANALYSIS OF CONTROLLING PHOSPHORUS **EMISSION FROM AGRICULTURAL FIELDS: A DYNAMIC APPROACH**

Shaohui Tang, The Ohio State University

Co-Author(s): Brent Sohngen, The Ohio State University

### ESTIMATION OF SPILLOVER EFFECTS FROM LARGE SCALE ADOPTION OF BT CORN IN THE PHILIPPINES

Lawson Connor, North Carolina State University

Co-Author(s): Zachary Brown, North Carolina State University, Roderick Rejesus, North Carolina State University and Jose Yorobe, University of the Philippines Los Banos

### DOES FEDERAL CROP INSURANCE INCREASE ENVIRONMENTAL **EXTERNALITIES FROM AGRICULTURE?**

Jeremy Weber, University of Pittsburgh

Co-Author(s): Nigel Key, USDA ERS and Erik O'Donoghue, USDA ERS

**SPONSORED SESSION 3 - BEHAVIORAL ECONOMICS:** 09:00 - 10:30 **HOUSING AND ENERGY** 

Room Coppertop II

Chairperson: Stephan Kroll, Colorado State University

### THE ADAPTATION OF THE US RESIDENTIAL SECTOR TO GLOBAL WARMING

Matthieu Glachant, MINES ParisTech

Co-Author(s): François Cohen, London School of Economics and Magnus

Söderberg, University of Gothenburg

Discussant: Nicholas Flores, University of Colorado Boulder

### THE PERSISTENCE OF MORAL SUASION ON ENERGY USE

Michael Price, Georgia State University

Co-Author(s): Alec Brandon, University of Chicago, Paul Ferraro, Johns Hopkins University, John List, University of Chicago, Robert Metcalfe, University of Chicago and Florian Rundhammer, Georgia State University

Discussant: James Meldrum, University of Colorado Boulder

## CARROT AND STICK: USING A REGRESSION KINK DESIGN TO IDENTIFY IMPACTS OF ENERGY FEEBATES

Laura Grant, Claremont McKenna College

Discussant: Meredith Fowlie, University of California, Berkeley

09:00 - 10:30 **WATER II** Room Peak 10

Chairperson: John Rolfe, CQ University

## (NOT SO) GENTLY DOWN THE STREAM: HEALTH AND RIVER POLLUTION IN INDONESIA

Evan Plous, Columbia University

Co-Author(s): Teevrat Garg, University of California, San Diego and London

School of Economics, Stuart Hamilton, Salisbury University, Jacob Hochard, East Carolina University and John Talbot, Eastern Shore

Regional GIS Cooperative

### WATER QUALITY RESILIENCE IN TRANSBOUNDARY GAME

Linda Fernandez, Virginia Commonwealth University

### BEHAVIORAL RESPONSE TO AGRICULTURAL COST SHARING AND IMPLICATIONS FOR WATER QUALITY IN THE CHESAPEAKE BAY

Patrick Fleming, Franklin & Marshall College

Co-Author(s): Erik Lichtenberg, University of Maryland and David A.

Newburn, University of Maryland

## RECONCILING COSTS OF IMPROVING AGRICULTURAL WATER MANAGEMENT: THE GREAT BARRIER REEF IN AUSTRALIA

John Rolfe, CQ University

### 10:45 - 12:15 PARALLEL PAPERS SESSION 6

10:45 - 12:15 AGRICULTURE II Room Peak 1

Chairperson: Frederik Noack, University of California, Santa

Barbara

### ASEAN AGRICULTURAL TOTAL FACTOR PRODUCTIVITY

Lee Kottmeyer, University of Nebraska Lincoln Co-Author(s): Lilyan Fulginiti, University of Nebraska-Lincoln

# "PRODUCING LAND". TECHNOLOGICAL DIFFUSION, INSTITUTIONAL INNOVATION, AND PRICE EFFECTS DURING THE SOYBEAN BOOM IN BRAZIL.

Gil DePaula, Yale University

# PERCEIVED, MEASURED, AND ESTIMATED SOIL FERTILITY: IMPLICATIONS FOR FARMER MANAGEMENT PRACTICES IN EAST AFRICA

Julia Berazneva, Middlebury College Co-Author(s): David Guerena, One Acre Fund, Linden McBride, Cornell University and Megan Sheahan, Cornell University

### **TECHNOLOGY ADOPTION AND CROP DIVERSITY**

Frederik Noack, University of California, Santa Barbara Co-Author(s): Ashley Larsen, University of California, Berkeley and Martin Quaas, University of Kiel

10:45 - 12:15 VALUATION: HEDONIC Room Peak 11

Chairperson: Brent Sohngen, The Ohio State University

# THE IMPACT OF TIME-VARYING UNOBSERVABLES ON HEDONIC REGRESSION ESTIMATION: EVIDENCE FROM BROWNFIELD CLEANUP PROGRAM IN NEW YORK, NY.

Olesya Savchenko, University of Illinois Urbana-Champaign Co-Author(s): John Braden, University of Illinois Urbana-Champaign and Taro Mieno, University of Nebraska-Lincoln

### THE IMPACT OF POLLUTION BURDEN ON MICRO-LEVEL RESIDENTIAL SORTING

Cristina Connolly, California Polytechnic State University Co-Author(s): Mitchell Livy, California State University Fullerton

## DOES WETLAND QUALITY MATTER? A SEMI-PARAMETRIC HEDONIC STUDY IN FRANKLIN, OHIO

Brent Sohngen, The Ohio State University Co-Author(s): Yingdan Mei, The Ohio State University

10:45 - 12:15 **WATER III** Room Peaks 6,7,8

Chairperson: Charles Howe, University of Colorado Boulder

### PRICE EFFICIENCY IN U.S. WATER RIGHTS MARKETS

Renata Rimsaite, Pennsylvania State University Co-Author(s): Karen Fisher-Vanden, Pennsylvania State University and Sheila Olmstead, University of Texas at Austin

## DEMAND FOR INCREASED WATER RELIABILITY AMONG URBAN HOUSEHOLDS IN JORDAN

Jennifer Orgill, Duke University
Co-Author(s): Marc Jeuland, Duke University

## DROUGHTS AND SURFACE WATER SALES: AN INVESTIGATION OF SPATIAL DATA ON RICE FARMS IN CALIFORNIA

Anita Chaudhry, California State University, Chico

Co-Author(s): Dean Fairbanks, California State University, Chico

## GETTING WESTERN WATER PRICES RIGHT: CORRECTLY REFLECTING THE SCARCITY VALUE OF RAW WATER

Charles Howe, University of Colorado Boulder Co-Author(s): Peter Nichols, Berg Hill Greenleaf Ruscitti LLP

10:45 - 12:15 ELECTRICITY IV Room Peak 12

Chairperson: Dallas Burtraw, Resources for the Future

# ON THE INTERACTION OF RATE-BASED POLICY OPTIONS AND ELECTRICITY STORAGE CAPACITY UNDER THE CLEAN POWER PLAN

Maxwell Brown, Colorado School of Mines Co-Author(s): Jared Carbone, Colorado School of Mines

# TRADE-OFFS IN TRADE: EXAMINING REGIONAL COST AND EMISSIONS OUTCOMES UNDER ALTERNATIVE CLEAN POWER PLAN COMPLIANCE SCENARIOS

David Bielen, National Renewable Energy Laboratory

# CARBON-POLICY INTERACTIONS IN CALIFORNIA AND THE COMPETITIVE SELECTION OF RENEWABLE GENERATION TECHNOLOGIES

Ed Balistreri, Colorado School of Mines Co-Author(s): Fadli Rahman, Colorado School of Mines

## EMISSIONS ALLOCATION DESIGN TO AVOID LEAKAGE UNDER THE CLEAN POWER PLAN

Dallas Burtraw, Resources for the Future

Co-Author(s): Karen Palmer, Resources for the Future, Anthony Paul, Resources for the Future and Hang Yin, Resources for the Future

10:45 - 12:15 TRADE Room Coppertop III

Chairperson: Carol McAusland, University of British Columbia

### GARBAGE IN AND GARBAGE OUT? ON WASTE HAVENS IN SWITZERLAND

Tobias Erhardt, University of Basel

### SULFUR DIOXIDE REGULATION, EMISSIONS LEAKAGE AND U.S. COAL EXPORTS

Ron Chan, University of Manchester

## GLOBAL TRADE AND RISK SHARING IN A SPATIALLY CORRELATED CLIMATE

Kyle Meng, University of California, Santa Barbara

Co-Author(s): Solomon Hsiang, University of California, Berkeley and Jonathan Dingel, University of Chicago

### **CARBON REROUTING**

Carol McAusland, University of British Columbia

### **10:45 - 12:15 FORESTRY: MANAGEMENT**

Room Peak 10

Chairperson: Andrew Plantinga, University of California, Santa

Barbara

# ADAPTATION TO CLIMATE CHANGE IN FORESTRY - AN EMPIRICAL ANALYSIS OF HARVEST AND REPLANTING DECISIONS UNDER CLIMATE CHANGE IN THE WESTERN U.S.

Yukiko Hashida, Oregon State University Co-Author(s): David Lewis, Oregon State University

### THE OPTIMAL CONTROL OF WILDFIRES IN COMPLEX LANDSCAPES

James Goodenberger, The Ohio State University

## COLONIAL ORIGINS AND FORESTLAND OUTCOMES - THE IMPACT OF INSTITUTIONS ON FORESTS AND TIMBER

Chris Goodwin, University of California, Santa Barbara

### SALIENCE OF WILDFIRE RISK AND PUBLIC LAND MANAGEMENT

Andrew Plantinga, University of California, Santa Barbara Co-Author(s): Sarah Anderson, University of California, Santa Barbara, Heather Hodges, University of California, Santa Barbara and Matthew Wibbenmeyer, University of California, Santa Barbara

### 10:45 - 12:15

## SPONSORED SESSION 4 - BEHAVIORAL ECONOMICS: WATER AND ENERGY

Room Coppertop II

Chairperson: David Chapman, USDA Forest Service

# THE MICRO-BEHAVIORAL ECONOMICS OF TECHNOLOGY ADOPTION FOR WATER CONSERVATION AND CLIMATE CHANGE ADAPTATION: ENGINEERS VS BEHAVIORAL SCIENTISTS

Paul Ferraro, Johns Hopkins University

Co-Author(s): Francisco Alpizar, Centro Agronómico Tropical de Investigación y Enseñanza and Maria Bernedo, Georgia State University Discussant: Stephan Kroll, Colorado State University

## CONSERVATION SPILLOVERS AND BEHAVIORAL INTERVENTIONS: EXPERIMENTAL EVIDENCE FROM WATER AND ENERGY USE

Katrina Jessoe, University of California, Davis

Co-Author(s): Gabriel Lade, Iowa State University, Frank Loge, University of California, Davis and Edward Spang, University of California, Davis Discussant: Casey Wichman, Resources for the Future

## MOTIVATIONS FOR WATER CONSERVATION FROM BEHAVIORAL INTERVENTIONS

Daniel Brent, Louisiana State University
Co-Author(s): Joseph Cook, University of Washington, Corey Lott,
University of California, Santa Barbara, Kimberly Rollins, University of

Nevada, Reno, Shawn Stoddard, Truckee Meadows Water Authority and Michael Taylor, University of Nevada, Reno Discussant: David Chapman, USDA Forest Service

### 10:45 - 12:15 CLIMATE CHANGE: WEATHER III

Room Peak 3

Chairperson: Nathan Hendricks, Kansas State University

### CLIMATE CHANGE AND AGRICULTURE: THE ROLE OF TILE DRAINAGE

Kevin Meyer, Iowa State University

Co-Author(s): David Keiser, Iowa State University

### THE ROLE OF CROP INSURANCE PROGRAMS IN CLIMATE CHANGE IMPACT MEASUREMENT: A 2SLS ESTIMATION

Zhangliang Chen, University of Illinois Urbana-Champaign Co-Author(s): Sandy Dall'Erba, University of Illinois Urbana-Champaign

### HOW DO HEAT WAVES, COLD WAVES, DROUGHTS, HAIL AND TORNADOES AFFECT US AGRICULTURE?

Emanuele Massetti, Georgia Institute of Technology Co-Author(s): Robert Mendelsohn, Yale University

## THE ECONOMIC EFFECTS OF HEAT AND WATER STRESS IN AGRICULTURE

Nathan Hendricks, Kansas State University

### 10:45 - 12:15 **TRANSPORTATION II**

Room Peak 9

Chairperson: J.R. DeShazo, University of California Los Angeles

## PROVIDING THE SPARK: IMPACT OF FINANCIAL INCENTIVES ON BATTERY ELECTRIC VEHICLE ADOPTION

Bentley Clinton, University of Colorado Boulder

Co-Author(s): Daniel Steinberg, National Renewable Energy Laboratory

### PUBLIC TRANSIT AND PROPERTY VALUES: DID THE METRO BLUE LINE AFFECT HOME PRICES IN MINNEAPOLIS?

Sarah West, Macalester College

Co-Author(s): Clemens Pilgram, Macalester College

### FUEL COSTS, ECONOMIC ACTIVITY, AND THE REBOUND EFFECT FOR HEAVY-DUTY TRUCKS

William Raich, Resources for the Future

Co-Author(s): Benjamin Leard, Resources for the Future, Joshua Linn, Resources For the Future and Virginia McConnell, Resources For the Future

# HOW DOES THE PRESENCE OF HOV LANES AFFECT PLUG-IN ELECTRIC VEHICLE ADOPTION IN CALIFORNIA? A GENERALIZED PROPENSITY SCORE APPROACH

J.R. DeShazo, University of California Los Angeles Co-Author(s): Tamara Sheldon, University of South Carolina Chairperson: Jacob Hochard, East Carolina University

## THE WEALTH OF ECOSYSTEMS: VALUING NATURAL CAPITAL IN THE CONTEXT OF ECOSYSTEM BASED MANAGEMENT

Seong Do Yun, Yale University

Co-Author(s): Joshua K. Abbott, Arizona State University, Eli P. Fenichel, Yale University and Barbara Hutniczak, National Oceanic and Atmospheric Administration (NOAA)

## ANGLER BEHAVIOR AND THE WELFARE EFFECTS OF STREAM RESTORATIONS

Michele Baggio, University of Connecticut Co-Author(s): Charles Towe, University of Connecticut

# ECONOMIC VALUATION OF RESTORATION ACTIONS FOR SALMON AND FORESTS AND ASSOCIATED WILDLIFE IN AND ALONG THE ELWHA RIVER

Colleen Donovan, ABT Environmental Research

Co-Author(s): Richard Bishop, Professor Emeritus from the University of Wisconsin, James Boyd, Resources for the Future, Adam Domanski, National Oceanic and Atmospheric Administration, John Duffield, University of Montana, Peter Edwards, National Oceanic and Atmospheric Administration, Heather Hosterman, ABT Environmental Research, Barbara Kanninen, BK Econometrics, LLP, John Loomis, Colorado State University, Jason Murray, National Oceanic and Atmospheric Administration, Giselle Samonte, National Oceanic and Atmospheric Administration and Roger Tourangeau, Westat

### STORM PROTECTION SERVICES OF MANGROVE FORESTS

Jacob Hochard, East Carolina University

Co-Author(s): Edward Barbier, University of Wyoming and Stuart Hamilton, Salisbury University

12:30 - 01:15	LUNCH	Room Peaks 4,5
01:00 - 01:45	AERE AWARDS PROGRAM	Room Peaks 4,5
01:45 - 02:30	KEYNOTE ADDRESS Catherine Wolfram, University of California, Berkeley Effective Carbon Mitigation Strategies	Room Peaks 4,5
02:45 - 04:15	PARALLEL PAPERS SESSION 7	

02:45 - 04:15 **BEHAVIORAL ECONOMICS** 

Room Coppertop II

Chairperson: Severin Borenstein, University of California, Berkeley

# DO EXTRINSIC INCENTIVES UNDERMINE SOCIAL NORMS? EVIDENCE FROM A FIELD EXPERIMENT IN ENERGY CONSERVATION

Gonzalo Sanchez, Escuela Superior Politecnica del Litoral Co-Author(s): Jose Pellerano, Universidad Iberoamericana, Michael Price, Georgia State University and Steven Puller, Texas A&M University

# THE EFFECT OF CONSERVATION MESSAGING ON URBAN RESIDENTIAL WATER DEMAND: AN EVENT STUDY USING HOURLY METER DATA FROM SAN FRANCISCO

Dina Gorenshteyn, University of California, Berkeley

## BEHAVIORAL NUDGES IN NUTRIENT MANAGEMENT DECISIONS: ARE THEY "ONE-SIZE-FITS-ALL"?

Wendong Zhang, Iowa State University

## NUDGING WITH TIME: HOW MUCH DOES STANDARDIZING TIME CHANGE BEHAVIOR?

Severin Borenstein, University of California, Berkeley

### 02:45 - 04:15 VALUATION: PROPERTY VALUE III

Chairperson: Allen Klaiber, The Ohio State University

A VALUATION OF URBAN STREAM RESTORATIONS
Charles Towe, University of Connecticut
Co-Author(s): H. Allen Klaiber, The Ohio State University and Joe Maher,
National Socio-Environmental Synthesis Center

# DO HOUSING VALUES RESPOND TO UNDERGROUND STORAGE TANK RELEASES? EVIDENCE FROM HIGH-PROFILE CASES ACROSS THE UNITED STATES

Dennis Guignet, US Environmental Protection Agency Co-Author(s): Robin Jenkins, US Environmental Protection Agency, Matthew Ranson, Abt Associates Inc. and Patrick Walsh, US Environmental Protection Agency

# QUESTIONING THE DISTANCE-ONLY PARADIGM: OPTIMIZED QUANTITY-WITHIN-DISTANCE MODELS OF SPATIAL WELFARE HETEROGENEITY

Robert Johnston, Clark University Co-Author(s): Benedict Holland, Clark University

## BLUE-GREEN ALGAE'S IMPACT ON OHIO'S INLAND LAKE HOUSING MARKETS

Allen Klaiber, The Ohio State University

Co-Author(s): David Wolf, The Ohio State University

### 02:45 - 04:15 **ENERGY EFFICIENCY II**

Chairperson: Ian Lange, Colorado School of Mines

### Room Peak 12

Room Peaks 6,7,8

ENERGY SAVINGS FROM RESIDENTIAL BUILDING CODES: EVIDENCE FROM SMART-METER DATA

Tianxia Zhou, University of California, Davis Co-Author(s): Kevin Novan, University of California, Davis and Aaron Smith, University of California, Davis

## DO ENERGY RETROFITS WORK? EVIDENCE FROM COMMERCIAL AND RESIDENTIAL BUILDINGS IN PHOENIX

Yueming Qiu, Arizona State University Co-Author(s): Jing Liang, Arizona State University

### DO ENERGY EFFICIENCY INVESTMENTS DELIVER AT THE RIGHT TIME?

Judson Boomhower, Stanford University Co-Author(s): Lucas Davis, University of California, Berkeley

### THE SUPPLY-SIDE EFFECTS OF ENERGY EFFICIENCY LABELS

Ian Lange, Colorado School of Mines Co-Author(s): David Comerford, University of Stirling and Mirko Moro, University of Stirling

### 02:45 - 04:15 **DEVELOPING COUNTRIES II**

Room Peak 3

Chairperson: Kelly Jones, Colorado State University

## THE OPPORTUNITY COST OF FOREST PRESERVATION IN TERMS OF AGRICULTURAL ACTIVITY FORGONE IN THE BRAZILIAN AMAZON

Felipe de Figueiredo Silva, University of Nebraska-Lincoln Co-Author(s): Lilyan Fulginiti, University of Nebraska-Lincoln and Richard Perrin, University of Nebraska-Lincoln

## DETERMINANTS OF AMAZON DEFORESTATION: THE ROLE OF OFF-FARM INCOME

Jose Feres, Institute for Applied Economics Research (IPEA) Co-Author(s): Claudio Araujo, CERDI/Universite d'Auvergne and Jean-Louis Combes, CERDI/Universite d'Auvergne

## INDIA'S GREENHOUSE GAS ABATEMENT POLICIES - CONSIDERING THE CASE FOR MARKET BASED INSTRUMENTS

Ashish Tyagi, Pennsylvania State University

### GENERATING EVIDENCE ON THE IMPACT OF HYBRID PUBLIC-PRIVATE CONSERVATION APPROACHES IN ECUADOR: DO FOREST ECONOMIC INCENTIVES INCREASE PROTECTED AREA EFFECTIVENESS?

Kelly Jones, Colorado State University

### INTERTEMPORAL DYNAMICS

02:45 - 04:15

Room Peak 9

Chairperson: Ashley Langer, University of Arizona

## THE REPRESENTATIVE AGENT MUST DIE:USING DEMOGRAPHICS TO INFORM SOCIAL DISCOUNT RATES

Ethan Addicott, Yale University

Co-Author(s): Eli Fenichel, Yale School of Forestry & Environmental Studies and Matthew Kotchen, Yale University

## REPUTATION-INDUCED HYSTERESIS AND DYNAMIC ENVIRONMENTAL REGULATION

Beat Hintermann, University of Basel

Co-Author(s): Andreas Lange, University of Hamburg

### CLIMATE CHANGE AND LONG-RUN DISCOUNT RATES: EVIDENCE FROM REAL ESTATE

Andreas Weber, New York University

Co-Author(s): Stefano Giglio, University of Chicago, Matteo Maggiori, Harvard University and Johannes Stroebel, New York University

### **DYNAMIC TECHNOLOGY SUBSIDIES**

Ashley Langer, University of Arizona

Co-Author(s): Derek Lemoine, University of Arizona

### 02:45 - 04:15 **NATURAL DISASTERS**

Room Peak 10

Chairperson: Daniel Osberghaus, Centre for European

Economic Research

## MEASURING THE FINANCIAL SHOCKS OF NATURAL DISASTERS: A PANEL STUDY OF US STATES

Qing Miao, Arizona State University

Co-Author(s): Michael Abrigo, University of Hawaii and Hou Yilin, Syracuse University

### SEA LEVEL RISE, FLOOD RISK, AND PROPERTY VALUES: EVIDENCE FROM NEW YORK CITY

Jamie Mullins, University of Massachusetts Amherst Co-Author(s): Matthew Gibson, Williams College and Alison Hill, Williams College

## THE EFFECT OF FEDERAL DISASTER ASSISTANCE ON HOUSEHOLD FINANCE AND BUSINESS SURVIVAL AFTER A NATURAL DISASTER

Justin Gallagher, Case Western Reserve University Co-Author(s): Daniel Hartley, Chicago Federal Reserve Bank

## THE DEMAND FOR INDEX-BASED FLOOD INSURANCE IN A HIGHLY DEVELOPED COUNTRY

Daniel Osberghaus, Centre for European Economic Research Co-Author(s): Martin Achtnicht, Leibniz Institute of Ecological Urban and Regional Development

### 02:45 - 04:15 CLIMATE POLICY: TECHNICAL CHANGE

Room Peak 2

Chairperson: Derek Lemoine, University of Arizona

### OPTIMAL EXPERIMENTATION WITH SOLAR GEOENGINEERING

David Kelly, University of Miami

Co-Author(s): Garth Heutel, Georgia State University, Juan Moreno-Cruz, Georgia Tech University and Soheil Shayegh, Stanford University

### SHARING R&D INVESTMENTS IN BREAKTHROUGH TECHNOLOGIES TO CONTROL CLIMATE CHANGE

Santiago Rubio, University of Valencia

### ENERGY TRANSITIONS: DIRECTED TECHNICAL CHANGE MEETS DIRECTED EXTRACTION

Derek Lemoine, University of Arizona

02:45 - 04:15 **AIR POLLUTION III** 

Room Peak 11

Chairperson: Nicolai Kuminoff, Arizona State University

## THE EFFECTS OF AIR POLLUTION ON EDUCATION AND HUMAN CAPITAL: EVIDENCE FROM CHINESE CITIES

Niall Williams, Connecticut College Co-Author(s): Wei Zhang, Connecticut College

## CANARY IN A COAL MINE: IMPACT OF MID-20TH CENTURY AIR POLLUTION ON INFANT MORTALITY AND PROPERTY VALUES

Edson Severnini, Carnegie Mellon University Co-Author(s): Karen Clay, Carnegie Mellon University and Joshua Lewis, University of Montreal

## THE (NON)SEPARABILITY OF AIR QUALITY: EVIDENCE FROM MILLIONS OF HOUSEHOLDS ACROSS THE UNITED STATES

Christos Makridis, Stanford University

# HAZED AND CONFUSED: AIR POLLUTION, COGNITIVE FUNCTIONING, AND FINANCIAL DECISION MAKING AMONG THE ELDERLY

Nicolai Kuminoff, Arizona State University Co-Author(s): Kelly Bishop, Arizona State University, Jonathan Ketcham, Arizona State University and Christopher Powers, U.S. Centers for Medicare and Medicaid Services

02:45 - 04:15

### TRANSPORTATION III

Room Coppertop III

Chairperson: Gloria Helfand, U.S. Environmental Protection Agency

### FUEL ECONOMY STANDARDS, ATTRIBUTE-BASING, AND FUEL PRICE UNCERTAINTY

Ryan Kellogg, University of Michigan

## FUEL PRICES, NEW VEHICLE FUEL ECONOMY, AND IMPLICATIONS FOR ATTRIBUTE-BASED STANDARDS

Benjamin Leard, Resources for the Future Co-Author(s): Joshua Linn, Resources for the Future

## OVERLAPPING STRATEGIES FOR REDUCING CARBON EMISSIONS FROM THE PERSONAL TRANSPORTATION SECTOR

Soren Anderson, Michigan State University Co-Author(s): Carolyn Fischer, Resources for the Future

## EXAMINING THE AFFORDABILITY IMPACTS OF LIGHT-DUTY VEHICLE GREENHOUSE GAS EMISSION STANDARDS

Gloria Helfand, U.S. Environmental Protection Agency Co-Author(s): Geoffrey Burmeister, University of Michigan and Alecia Cassidy, University of Michigan

02:45 - 04:15 **WATER IV** Room Peak 1

Chairperson: Casey Wichman, Resources for the Future

### IMPLICATION OF WELL CAPACITY FOR INTRA-SEASONAL VALUE OF AQUIFER MANAGEMENT

Mani Rouhi Rad, University of Illinois at Urbana-Champaign Co-Author(s): Nicholas Brozovic, University of Nebraska-Lincoln

## GROWING INTO WATER CONSERVATION? DECOMPOSING THE DRIVERS OF REDUCED WATER CONSUMPTION IN LAS VEGAS, NV

Christa Brelsford, Santa Fe Institute Co-Author(s): Joshua Abbott, Arizona State University

## SUBSIDIES FOR SUCCULENTS: THE WELFARE IMPACTS OF LAS VEGAS' CASH-FOR-GRASS REBATE PROGRAM

Jonathan Baker, Harvard University

## ENDURING EFFECTS OF CHANGES IN BILLING FREQUENCY: EVIDENCE FROM URBAN WATER USE

Casey Wichman, Resources for the Future