

Concurrent Sessions — Tuesday, 1:00 - 2:30 PM

2037 Regulatory Technology Policies: A Real Option View

Boylston, 1st Floor

Invited Papers

Option value and the real option approach have become major tools for analysis and explanation of adoption of agricultural technologies. But these techniques can also be effective to assess the impact and timing of regulations. While the seminal Arrow and Fisher paper shows that considering option value justify to delay in regulations, the approach also allows to assess the cost and gain from delay—and can be applied to assess regularly approaches—like the delay in the approval of GMOs and other new technologies such as those reducing greenhouse gas emission.

Organizers: Justus H. Wesseler, Wageningen University; David Zilberman, University of California, Berkeley

Moderator: David Zilberman, University of California, Berkeley

Discussant: David A. Hennessy, Michigan State University

Learn about Plants: Consumer Demand, Regulatory Delay and Regulatory Restrictions

Jinhua Zhao, Michigan State University

Foregone Benefits of Important Food Crop Improvements in Sub-Saharan Africa

Richard Danvers Smart; Jennifer Thomson, University of Cape Town; **Justus H. Wesseler**, Wageningen University; David Zilberman, University of California, Berkeley

GM-free Production: Worth Investing? The Case of GM-free Labelled Dairy Products in Germany

Thomas Johann Venus, Wageningen University; Justus H. Wesseler, Wageningen University

2038 Evolving U.S. Policy toward Cuba: Implications for U.S. and Cuban Agriculture and Natural Resources

Arlington, 3rd Floor

Organized Symposium

While the U.S. embargo of Cuba is a law and remains in force, U.S. farmers, ranchers and agricultural product suppliers have been actively involved with Cuba for 15 years since passage of the Trade Sanctions Reform and Export Enhancement Act (TSRA) of 2000 that allowed U.S. firms to sell agricultural and food products (and medicine) to Cuba. Over that period, U.S. suppliers have shipped over \$5 billion worth of food and agricultural products to Cuba, and for 11 of the past 13 years, the United States had been Cuba's most important supplier of imported food products by value (USDA/GATS database and GTIS database).

Organizers: William A. Messina Jr., University of Florida; Andrew Schmitz, University of Florida

Moderator: William A. Messina Jr., University of Florida

Discussants: Jonathan Coleman, U.S. International Trade Commission; Mechel S. Paggi, California State University, Fresno; Daniel B. Whitley, USDA-Foreign Agriculture Service

2039 Impacts and Determinants of Agricultural Labor Supply

Salon B, 4th Floor

Selected Presentation – Lightning Session

The papers in this session examine the role of government programs, government interventions, external shocks, and off-farm opportunities on agricultural labor supply in a variety of settings.

Moderator: Amanda C. Clayton Walsh, North Carolina State University

Impacts of Dengue Epidemics on Household Labor Market Outcomes

Amanda C. Clayton Walsh, North Carolina State University

Imperfect Substitution between Immigrant and Native Farm Workers in the United States

Xuan Wei, University of Florida; Zhengfei Guan, University of Florida; Gulcan Onel, University of Florida

The Labor Market Impacts of Endangered Species Regulation

Richard T. Melstrom, Oklahoma State University; Kangil Lee, Oklahoma State University; Jacob Byl, Vanderbilt Law School

The Agricultural Labor Market and Participation in U.S. Social Benefit Programs

Alexandra E. Hill, University of California, Davis; Timothy Beatty, University of California, Davis

Impact of Off-Farm Labor Supply and Government Subsidy on Korean Farmland Value

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Hyunjeong Joo, Louisiana State University; Ashok K. Mishra, Arizona State University

Do Off-farm Work and Remittances Alter Household Food Consumption Patterns? Evidence from Albania

Ayuba Seidu, University of Florida; Onel Gulcan, University of Florida; James L. Seale Jr., University of Florida; Charles B. Moss, University of Florida

Evaluating the Impacts of the 2008-2009 Great Recession on Labor Supply of Family Farm Households

Hung-Hao Chang, National Taiwan University

Determinants of Changes in Youth and Women Agricultural Labor Participation in Selected African Countries

Eugenie W.H. Maiga, Université de Koudougou

2040 Food Safety and Nutrition

Salon C, 4th Floor

Selected Presentation – Lightning Session

Topics in this session range from food borne illness outbreaks in organic versus conventional markets to consumers' willingness to pay for health-enhancing attributes in food products.

Moderator: Patrick W. McLaughlin, USDA-Economic Research Service

Evolution of the Food-Away-From-Home Industry: Recent and Emerging Trends

Patrick W. McLaughlin, USDA-Economic Research Service; Christopher W. Dicken, USDA-Economic Research Service

Where to Shop in a Desert: Shopping Behavior and Food Store Access

Timothy Beatty, University of California, Davis; **Joel Cuffey**, University of Minnesota

The Use of Food Pantries and Soup Kitchens by Low-Income Households

Craig G. Gundersen, University of Illinois at Urbana-Champaign; **Linlin Fan**, University of Illinois at Urbana-Champaign; Kathy Baylis, University of Illinois at Urbana-Champaign; Theresa DelVecchio Dys, Feeding America; Timothy A. Park, USDA-Economic Research Service; Monica Hake, Feeding America

The Value of Delegated Quality Control and Market Size with an Application to Kyrgyzstan Dairy

Alexander E. Saak, International Food Policy Research Institute

Foodborne Illness Outbreaks and Organic versus Conventional Markets: The Case of Listeriosis in Cantaloupes

Ioana (Julia) I. Marasteanu, Food and Drug Administration

Is My Plate Really Affordable? An Analysis of SNAP Benefits and the Actual Cost of Eating According to the Dietary Guidelines

Kranti Mulik, Union of Concerned Scientists; Lindsey Haynes-Maslow, Union of Concerned Scientists

Consumers' Willingness to Pay for Health-enhancing Attributes in Food Products: A Meta-analysis

Irina S. Dolgoplova, Technical University of Munich; Ramona Teuber, University of Copenhagen

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2041 Food Security in Developing Countries

Boston University, 3rd Floor

Selected Presentation

This session examines the relationship between food security and agricultural trade, input subsidies and agricultural productivity in developing countries.

Moderator: Marilyne Huchet-Bourdon, Agrocampus Ouest

Agricultural Support and Vulnerability of Food Security to Trade in Developing Countries

Marilyne Huchet-Bourdon, Agrocampus Ouest; Cathie Laroche-Dupraz, Agrocampus Ouest

The Effects of Tanzanian Maize Export Bans on Producers' Welfare and Food Security

Wilfred Makombe, University of Florida; **Jaclyn D. Kropp**, University of Florida

Modelling Farm-household Level Impacts of Fertilizer Subsidy Programs on Productivity and Food Security: The Case of Ethiopia

Kamel Loubichi, Institute for Prospective Technological Studies; Laura Riesgo, Institute for Prospective Technological Studies; Sergio Gomez Y Paloma, Institute for Prospective Technological Studies

Assessing the Contribution of Agricultural Productivity to Food Security in Sub-Saharan African Countries

Kolawole Ogundari, University of Delaware; Titus O. Awokuse, Michigan State University

2042 Forest Conservation

Hyannis, 4th Floor

Selected Presentation

This session addresses the effects of forest conservation on local communities and economies. The driving force for forest conservation is addressed from the standpoint of private and community preferences as well as large scale policy.

Moderator: Jayash Paudel, University of Massachusetts Amherst

Community-Managed Forests and Household Welfare: Empirical Evidence from Nepal

Jayash Paudel, University of Massachusetts Amherst

Public and Private Preferences for Urban Forest Ecosystem Services

José R. Soto, University of Florida; Francisco J. Escobedo, Universidad del Rosario; Damian C. Adams, University of Florida; Hayk Khachatryan, University of Florida

Modeling the Environmental Reserve Quota Market in Brazil's Forest Legislation

Ruohong Cai, Environmental Defense Fund; Ruben Lubowski, Environmental Defense Fund; Tiago Reis, Amazon Environmental Research Institute; Marcelo Stabile, Amazon Environmental Research Institute

2043 Price Analysis and Future Markets

Massachusetts, 5th Floor

Selected Presentation

Papers in this session examine issues related to agricultural future markets in the United States.

Moderator: Joshua D. Woodard, Cornell University

Impacts of Transportation Networks on Space-time Commodity Basis Behavior

Joshua D. Woodard, Cornell University; Peter M. Feather, USDA-Economic Research Service

A Controversial Debate Between Financial Speculation and Changes in Agricultural Commodity Spot Prices

Amilcar J.C. Serrao, University of Evora

Evaluation of Copula-based Dependence Structure in the U.S. Agricultural Future Market

Kuan-Ju Chen, Washington State University; Kuan-Heng Chen, Stevens Institute of Technology

The Value of Government Information in an Era of Declining Budgets

Michael K. Adjemian, USDA-Economic Research Service; Robert C. Johansson, USDA-Office of the Chief Economist; Andrew M. McKenzie, University of Arkansas; Michael R. Thomsen, University of Arkansas

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2044 Social Responsibility and Resource Extraction/Use

MIT, 3rd Floor

Selected Presentation

Papers in this session address the tradeoffs that are faced with increased competition between societal concern for the environment and demand for resource extraction.

Moderator: David L. Ortega, Michigan State University

Long-term Financial Incentive of Environmental Responsibility - Socially Responsible Investing and Firm Cost of Capital
Yanbing Wang, Purdue University; Michael Delgado, Purdue University; Jin Xu, Virginia Tech

Consumer Preferences for Packaging Material and Recyclability

Kimberly Klaiman, Michigan State University; David L. Ortega, Michigan State University; Cloe Garnache, Michigan State University

The Housing Market Impacts of Wastewater Injection Induced Seismicity Risk

Haiyan Liu, University of Georgia; Susana Ferreira, University of Georgia; Brady E. Brewer, University of Georgia; Joshua Philips, University of Georgia

Angler Behavior and the Welfare Effects of Stream Restorations

Michele Baggio, University of Connecticut; **Charles A. Towe**, University of Connecticut

2045 Market Events in Agricultural and Food Markets

Nantucket, 4th Floor

Selected Presentation

This session focuses on analyzing the impacts of food safety and policy-related market events on livestock, crop, and food prices.

Moderator: Veronica F. Pozo, Utah State University

Disentangling Supply and Demand Shocks to Identify Changes in the Live Cattle's Market Structure Post Livestock Mandatory Price Reporting Act

Veronica F. Pozo, Utah State University; Man-Keun Kim, Utah State University; Hernan A. Tejada, Utah State University

The Relative Impact of StarLink and MIR162

Xue Han, University of Illinois at Urbana-Champaign; Philip Garcia, University of Illinois at Urbana-Champaign

Times Series Analysis of Peanut Butter Demand in Light of the Food Safety Issue.

Rafael Bakhtavoryan, Texas A&M University - Commerce; Oral Capps Jr., Texas A&M University; Victoria Salin, Texas A&M University

Commodity Price Bubbles and Agriculture: The Case of China

Jian Li, Huazhong Agricultural University; Jean-Paul Chavas, University of Wisconsin; Chongguang Li, Huazhong Agricultural University

2046 Issues in Developing Country Food Demand

New Hampshire, 5th Floor

Selected Presentation

Papers in this session examine topics related to food consumption, procurement, and prices in developing countries.

Moderator: Akinori Kitsuki, University of Minnesota

Seasonal Hunger: Heterogenous Impacts of Seasonal Price Changes and Credit Constraints on Seasonal Consumption Patterns in Rural Zambia

Akinori Kitsuki, University of Minnesota; Takeshi Sakurai, Hitotsubashi University

Examining Pricing Mechanics in the Poultry Value Chain - Empirical Evidence from Pakistan

Muhammad Imran Chaudhry, The Ohio State University; Ani Katchova, The Ohio State University; Mario J. Miranda, The Ohio State University

Finding Default? Understanding the Drivers of Default on Contracts with Farmers' Organizations Under the World Food Programme Purchase for Progress Pilot

Joanna B. Upton, Cornell University; **Erin C. Lentz**, University of Texas

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2047 Methodological Advancements in Experimental Economics

Northeastern, 3rd Floor

Selected Presentation

This session presents innovative results on experimental auctions and choice experiments as well as modeling including attribute non-attendance and attribute-level non-attendance.

Moderator: Ji Yong Lee, Kansas State University

The Effects of Allowing Substitutes on Bidding Behavior in a Private Value Experimental Auction

Ji Yong Lee, Kansas State University; John A. Fox, Kansas State University

On the Use of the BDM Mechanism in Non-hypothetical Choice Experiments

Claudia Bazzani, University of Arkansas; Rodolfo M. Nayga, University of Arkansas; Vincenzina Caputo, Korea University; Maurizio Canavari, University of Bologna; Diana Danforth, University of Arkansas

Application of Regression Discontinuity Approach in Experimental Auctions: A Case Study of Participants' Trust and Their Willingness to Pay

Hao Li, Washington State University; Levan Elbakidze, West Virginia University

Attribute Non-attendance or Attribute-level Non-attendance? A Choice Experiment Application on Extra Virgin Olive Oil

Vincenzina Caputo, Korea University; Giovanna Sacchi, Ca'Foscari University of Venice; Rodolfo M. Nayga, University of Arkansas; Riccardo Scarpa, Queens University - Belfast

2048 Vertical Price Transmission in Agricultural Markets

Regis, 3rd Floor

Selected Presentation

This session focuses on evaluating vertical asymmetric price transmissions in livestock and fluid milk markets.

Moderator: Shuwei Zeng, University of Wisconsin

Is There Asymmetric Price Transmission in U.S. Fluid Milk Market?

Shuwei Zeng, University of Wisconsin; Brian W. Gould, University of Wisconsin

Modelling Market Linkages along the Vertical Supply Chain: Price Transmission and Volatility Spillovers in the U.S. Pork Industry

Feng Qiu, University of Alberta; **Yanan Zheng**, University of Alberta

Heterogeneous Effects of Private Label and Branded Products on Farm-Retail Price Transmission: The Case of the U.S. Fluid Milk Market

Yizao Liu, University of Connecticut; Adam N. Rabinowitz, University of Connecticut; Xuan Chen, University of Connecticut

Asymmetric Price Transmission and Volatility Spillover in Canadian Beef Market

Feng Qiu, University of Alberta; **Yanan Zheng**, University of Alberta

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2049 The Role of Agricultural Policies in Less Developed Countries

Salon A, 4th Floor

Selected Presentation

Agriculture plays an important role in many developing countries and the papers in this session investigate a wide range of impacts of policies intended to benefit agricultural producers.

Moderator: Eva-Marie Meemken, University of Goettingen

Smallholder Preferences for the Design of Certification Schemes: Does Gender Matter?

Eva-Marie Meemken, Georg-August-Universität Göttingen; Prakashan Chellattan Veetil, International Rice Research Institute (IRRI); Matin Qaim, Georg-August-Universität Göttingen

Farm Input Subsidies and the Adoption of Natural Resource Management Technologies

Stefan Koppmair, Georg-August-Universität Göttingen; Menale Kassie, International Centre of Insect Physiology and Ecology; Matin Qaim, Georg-August-Universität Göttingen

The Effect of China's Pork Reserve Program on Pork Price Volatility

Yi Yu, Nanjing Agricultural University; David Brian Willis, Clemson University

Impact of Microcredit on Small-Farm Agricultural Production: Evidence from Brazil

Alexandre Gori-Maia, State University of Campinas; Gabriela Santos Eusebio, State University of Campinas; Rodrigo L. F. Silveira, State University of Campinas

2050 Farm Households and Technology Adoption

Salon D, 4th Floor

Selected Presentation

This session examines issues of technology adoption among farm households in developing countries.

Moderator: Kajal Gulati, University of California, Davis

Who's The Boss? Preference Heterogeneity, Bargaining, and Intrahousehold Valuation of an Agricultural Technology in Bihar, India

Kajal Gulati, University of California, Davis; Patrick S. Ward, International Food Policy Research Institute; Travis J. Lybbert, University of California, Davis; David J. Spielman, International Food Policy Research Institute

Off-Farm Labor Supply Effects of Farm Mechanization: Evidence from a Panel Survey from Bangladesh

Md Mansur Ahmed, North Carolina State University; Barry K. Goodwin, North Carolina State University

Farmer Heterogeneity and Differential Livelihood Impacts of Oil Palm Expansion among Smallholders in Sumatra, Indonesia

Vijesh V. Krishna, Georg-August-Universität Göttingen; Michael Euler, Georg-August-Universität Göttingen; Hermanto Siregar, Bogor Agricultural University, Indonesia; Matin Qaim, Georg-August-Universität Göttingen

Ex-post Livestock Diseases and Pastoralist's Averting Decision in Tanzania

Mazbahul Abamad, University of Nebraska-Lincoln; Christopher R. Gustafson, University of Nebraska-Lincoln; Elizabeth VanWormer, University of Nebraska-Lincoln

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2051 Upstream Market Structure and Competition

Salon H, 4th Floor

Selected Presentation

This session explores issues related to market structure in upstream markets. Three papers focus on agricultural markets and one paper on electricity generation.

Moderator: Cornelia Ilin, University of Wisconsin

The Effect of Competition on Price Dispersion: Evidence from the U.S. Corn Seed Industry

Cornelia Ilin, University of Wisconsin; Guanming Shi, University of Wisconsin

A Theoretical Analysis of Multiproduct Mergers: Application in the Major Meat Sectors

Benjamin L. Sanderson, Mississippi State University; Kalyn T. Coatney, Mississippi State University; Bryon J. Parman, Mississippi State University; Jesse B. Tack, Mississippi State University

A New Approach to Identify Market Power along Agri-food Supply Chains – The German Dairy Supply Chain

Aaron Grau, Leibniz Institute of Agricultural Development in Transition Economies (IAMO); Heinrich Hockmann, Leibniz Institute of Agricultural Development in Transition Economies (IAMO)

An Effect of Vertical Integration for Non-Vertically Integrated Firms: An Analysis of Electric Distribution Cooperatives

Brent M. Hueth, University of Wisconsin; **Heesun Jang**, University of Wisconsin

2052 Getting Over Hurdles with Limited Dependent Variables

Salon I, 4th Floor

Selected Presentation

Limited dependent variables techniques are widely used throughout all areas of applied research. This collection of papers addresses aspects of reliability and implementation.

Moderator: Marco A. Palma, Texas A&M University

The Order of Variables, Simulation Noise and Accuracy of Mixed Logit Estimates.

Marco A. Palma, Texas A&M University; Yajuan Li, Texas A&M University; Dmitry Vedenov, Texas A&M University; David A. Bessler, Texas A&M University

Developing Consistent Estimates of Marginal Effects in a Simultaneous Equation Model with Limited Dependent Variables

Joseph A. Atwood, Montana State University; Alison Joglekar, University of Minnesota; Vincent H. Smith, Montana State University

On the Evaluation of Probability Forecasts: An Application to Discrete Choice Models

Senarath Dharmasena, Texas A&M University; David A. Bessler, Texas A&M University; Oral Capps Jr., Texas A&M University

Estimating Latent Variable Models under the Presence of Heteroscedasticity When the Latent Variable is Observable

James K. Binkley, Purdue University; **Luis M. Pena-Levano**, Purdue University

2053 Conflict and Economic

Salon J, 4th Floor

Selected Presentation

Papers in this session cover issues related to civil conflict and development with a particular focus on foreign aid, slave trading, and rural infrastructure.

Moderator: Yu Zhang, Texas A&M University

How Wealth of Nations Interact with Aid and Peace: A Time and Country Variant Analysis

Shahriar Kibriya, Conflict and Development Center; **Yu Zhang**, Texas A&M University; David A. Bessler, Texas A&M University; Edwin C. Price, Texas A&M University

The Impact of a Rural Road Development Project on Multidimensional Poverty in Nepal

José R. Bucheli, University of New Mexico; Alok Bohara, University of New Mexico; Kira M. Villa, University of New Mexico

The Impact of Slave Trade on Current Civil Conflict in Sub-Saharan Africa

Yu Zhang, Texas A&M University; Shahriar Kibriya, Conflict and Development Center

Concurrent Sessions — Tuesday, 1:00 - 2:30 PM

2054 The Impact of Tariffs and Non-Tariff Barriers to Trade

Salon K, 4th Floor

Selected Presentation

Understanding the impact of tariffs and non-tariff barriers are important for a more informed policy debate. These papers take a closer look at these barriers in the context of agricultural trade flows.

Moderator: Byung Min Soon, University of Missouri

Measuring Non-Tariff Barriers by Combining Cointegration Tests and Simulation Models with an Application to Russian Chicken Imports

Byung Min Soon, University of Missouri; Wyatt Thompson, University of Missouri

Does Tariff Reduction Have a Positive Effect on the World's Grain Self-Sufficiency?

Byeong-il Ahn, Korea University; Younghyeon Jeon, Korea Rural Economic Institute

China's Agricultural Exports and Their Effects on Other Exporters

Huong T. Nguyen, Deakin University, Australia; Cong S. Pham, Deakin University, Australia

China's Emerging Dairy Markets and Impacts on U.S. Alfalfa and Dairy Product Exports

Qingbin Wang, University of Vermont; James M. Hansen, USDA-Economic Research Service; Xu Fang, Southwestern University of Finance and Economics; Hao Cui, University of Vermont

2055 Economic Policy and Natural Hazards

Simmons, 3rd Floor

Selected Presentation

Papers in this section use novel economic and econometric techniques to evaluate the impacts of natural disaster and climate change on economic outcomes.

Moderator: Mona Ahmadiani, University of Georgia

Defending the Shoreline: A Duration Model of Beach Re-Nourishment

Yun Qiu, The Ohio State University; Sathya Gopalakrishnan, The Ohio State University

Well-being Effects of Extreme Weather Events in the U.S.

Mona Ahmadiani, University of Georgia; Susana Ferreira, University of Georgia

Market Response to Flood Risk: A Matching Study of Farmland Values Using Boundary Discontinuities

Haoying Wang, Cornell University

Temperature and U.S. Economic Activity: Evidence from Disaggregated Data

Ding Du, Northern Arizona University; Xiaobing Zhao, Northern Arizona University

2056 Producers' Risk Preferences and Perceptions

St. Botolph, 2nd Floor

Selected Presentation

This session focuses on producers' risk preferences and producers' risk perceptions, discussing new ideas on elicitation procedures and empirical applications.

Moderator: Golo Bauermeister, Georg-August-Universität Göttingen

Risk Aversion and Inconsistencies: Does the Choice of Risk Elicitation Task and Display Format Influence the Outcomes?

Golo Bauermeister, Georg-August-Universität Göttingen; Oliver Musshoff, Georg-August-Universität Göttingen

Role of Farmer's Risk Attitude in the Relationship Between Trust and Contract Decision: The Fresh Apple Market in South Korea

Kyeong Ah Ahn, Seoul National University; Young-Chan Choe, Seoul National University

Producers' Perceptions of Risk of Intensified Conservation Practices on-Farm

Steven Ramsey, Kansas State University; Jason S. Bergtold, Kansas State University; Elizabeth Canales Medina, Roll Global LLC

Can Stated Risk Preferences Accurately Reflect True Risk Preferences?

Sankalp Sharma, University of Nebraska-Lincoln; Karina Schoengold, University of Nebraska-Lincoln

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2057 Teaching Evaluation Methods

Suffolk, 3rd Floor

Selected Presentation

This session will focus on teaching evaluation methods in the classroom and in the field.

Moderator: Elizabeth A. Yeager, Kansas State University

Academic, Demographic and Spatial Factors in the Classroom Affecting Student Performance in Principles of Agricultural Economics Courses

Jason S. Bergtold, Kansas State University; **Elizabeth A. Yeager**, Kansas State University

Quest- A Virtual Faculty Teaching Community

Siny Joseph, Kansas State University; Jung Oh, Kansas State University; Patricia Ackerman, Kansas State University

Reshaped for High-Level Learning: Student Outcomes in the Redesign of an Undergraduate Macroeconomics Course

Lawrence P. DeBoer, Purdue University; David Nelson, Purdue University; Angelika N. Zissimopoulos, Purdue University; **Anna Josephson**, Purdue University

2058 Applied Environment and Natural Resource Valuation: Water

Tremont, 1st Floor

Selected Presentation

Papers in this session estimate values of water quality, quantity, and damages utilizing various valuation methodologies.

Moderator: Yau-Huo Shr, The Pennsylvania State University

Valuing Complementarity between Environmental Goods and Housing Attributes with the Benefit Function: An Application to Flood Hazards

Yau-Huo Shr, The Pennsylvania State University; Katherine Y. Zipp, The Pennsylvania State University

Combining Revealed and Stated Preferences to Value Water Quality at Great Lakes Beaches

Li Cheng, Michigan State University; **Frank Lupi**, Michigan State University

Estimating the Capitalization Effects of Harmful Algal Bloom Incidence, Intensity and Duration? A Repeated Sales Model of Lake Erie Lakefront Property Values

Aneil Baron, The Ohio State University; **Wendong Zhang**, Iowa State University; Elena G. Irwin, The Ohio State University

Water-based Recreation and Water Quality Indices: A Revealed Preference Approach

Yongjie Ji, Iowa State University; David A. Keisier, Iowa State University

2059 Economics of Water Use in Agriculture

Tufts, 3rd Floor

Selected Presentation

Papers in this session examine the economics of water in agriculture.

Moderator: Farzad Taheripour, Purdue University

Economic and Land Use Impacts of Improving Water Use Efficiency in South Asia

Farzad Taheripour, Purdue University; Thomas W. Hertel, Purdue University; Sebnem Sahin, World Bank

Well Capacity and the Gains from Coordination in a Spatially Explicit Aquifer: An Application to Groundwater Management Districts in Colorado

Jordan F. Suter, Colorado State University; Robert A. Hrozencik, Colorado State University

Spatial Dynamics of Groundwater Usage and Management: The Upslope-downslope Problem in Regional Drainwater Management

Keith C. Knapp, University of California, Riverside

Retiring Land to Conserve Water: Evidence from Colorado and Nebraska

Randall G. Monger, Colorado State University; Jordan F. Suter, Colorado State University; Dale Manning, Colorado State University; Joel Schneekloth, Colorado State University

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2060 Agricultural Water Use Efficiency

Vermont, 5th Floor

Selected Presentation

This session consists of four papers related to water use efficiency in agriculture.

Moderator: Maria Vrachioli, University of Florida

Agricultural Water Productivity under Spatial Adjustments

Maria Vrachioli, University of Florida; Spiro E. Stefanou, University of Florida

Determining Water use Efficiency for Wheat and Cotton: A Meta-analysis

Yubing Fan, University of Missouri; Chenggang Wang, Texas Tech University; Zhibiao Nan, Lanzhou University, China

Rebound Effect of Irrigation Technologies: The Role of Water Rights

Haoyang Li, Michigan State University; Jinhua Zhao, Michigan State University

Climatic Variability and Irrigation Water Efficiency in the United States: An Empirical Assessment of the 1987-2012 Period

Eric Njuki, University of Connecticut; Boris E. Bravo-Ureta, University of Connecticut

2061 The Efficacy of the Supplemental Nutrition Assistance Program (SNAP)

Vineyard, 4th Floor

Selected Presentation

The Supplemental Nutrition Assistance Program (SNAP) is designed to reduce food insecurity in the United States. This session discusses the effectiveness of SNAP in reducing food insecurity in a variety of ways.

Moderator: Jeffrey J. Reimer, Oregon State University

Effects of the Supplemental Nutrition Assistance Program on Rural and Urban Areas in Oregon

Senal A. Weerasooriya, Oregon State University; **Jeffrey J. Reimer**, Oregon State University

Do Personal Attitudes About Welfare Influence Food Stamp Participation?

Roshini Brizmohun, Auburn University; Patricia A. Duffy, Auburn University

Price Variation Over the SNAP Benefit Cycle

Timothy Beatty, University of California, Davis; **Xinzhe H. Cheng**, University of California, Davis

Do Grocery Taxes Cause Food Insecurity?

Norbert L.W. Wilson, Auburn University; Yuqing Zheng, University of Kentucky; Harry M. Kaiser, Cornell University; **Shaheer**

Burney, University of Kentucky

2062 Food Demand Studies in Asia

Wellesley, 3rd Floor

Selected Presentation

These presentations explore food consumption and preferences in China and South Korea.

Moderator: Jinhyeung Kim, Seoul National University

A Study on Consumer Characteristics of Processed Rice and Meat Products on Food-related Lifestyles using Beta Regression Model

Jinhyeung Kim, Seoul National University; Young-Chan Choe, Seoul National University

The Consumption Pattern of Convenience Food: A Comparison of Different Income Levels in South Korea

Yeseul Hwang, Seoul National University; Young-Chan Choe, Seoul National University

Societal Context and its Impact on Demand for New Products: The Case of Grapefruit in South Korea

Hyeyoung Kim, University of Florida; Lisa A. House, University of Florida

Consumer Preference for Supermarket Food Sampling in China

Lijun Chen, University of Missouri

Concurrent Sessions — Tuesday, 1:00 - 2:30 PM

2063 Agricultural R&D and Science Policy

Yarmouth, 4th Floor

Selected Presentation

Presentations in this session analyze science policy impacts by examining knowledge spillovers and agricultural, environmental, and firm innovation.

Moderator: Yoo Hwan Lee, Colorado State University

Innovation and Firm Productivity: Evidence from the U.S. Patent Data

Jingbo Cui, Wuhan University; Xiaogang Li, Iowa State University

Academic Knowledge Spillovers and the Role of Geographic Proximity and Network in Regional Agriculture-related Sectors

Yoo Hwan Lee, Colorado State University; Gregory D. Graff, Colorado State University

Promoting Environmental Innovation: R&D Subsidies and Carbon taxes

Matthew S. Clancy, USDA-Economic Research Service; GianCarlo Moschini, Iowa State University

2064 Applications of Financial Engineering in Agriculture

Berkeley, 3rd Floor

Track Session – AFM and ARA Sections

Motivation: Financial engineering uses mathematical methods to generate new financial products for pricing assets and hedging risk. Financial engineering is now being used in agriculture as a means to provide more effective risk management by tailoring contracts to the specific risk preferences of firms. While agribusiness firms have used financial engineering techniques and financial engineering products have been offered to farmers, the methods underlying these products have largely been ignored in academic circles. Presenters in this session will provide three applications of financial engineering to agriculture in order to introduce the audience to these methods. The final presenter will speak to the general nature of financial engineering and its relationship to agricultural economics.

Organizer: Eric Belasco, Montana State University

When Does Sophisticated Hedging Help?

Gabriel Power, Laval University; Dmitry Vedenov, Texas A&M University

Grain Marketing with Upside Contracts

Eric Belasco, Montana State University; Joseph A. Atwood, Montana State University

Financial Engineering and Agricultural Insurance

Hirbod Assa, University of Liverpool

Financial Engineering and the Securitization of Biomedical Research

Roger Stein, Massachusetts Institute of Technology

Concurrent Sessions — Tuesday, 1:00 - 2:30 PM

2065 Gender and Generation: Intrahousehold Perspectives on Technology Adoption in the West Africa Sahel

Brandeis, 3rd Floor

Track Session – International Section

This session brings together innovative research on intrahousehold technology adoption in the West African Sahel, with special focus on gender and generations. Especially, this session explores: 1) the nature of linkages between fertilizer use decisions on collective and individual maize plots in Burkina Faso, 2) the gender and intra-generational differences in fertilizer adoption on cereals in the Sudanian Savanna of Mali, 3) the effects of both organic and inorganic fertilizer use on cereals on a wide range of welfare outcomes (i.e., yields, diet diversity) in the West African Sahel, and 4) the gender differences in herbicide adoption in the high productive sorghum zone in Mali. The results offer critical perspectives on the intrahousehold adoption of agricultural technology, and contribute to the discussion on how to design and implement more comprehensive and inclusive policies in order to stimulate agricultural productivity.

Organizer: Veronique Theriault, Michigan State University

Discussants: Timothy J. Dalton, Kansas State University; Catherine Larochelle, Virginia Tech

Intensification and Intra-Household Decisions: Fertilizer Adoption on Collective and Individual Fields in Burkina Faso

Melinda Smale, Michigan State University

Gender, Generation and Agricultural Intensification: A Case of Two Cereals in the Sudanian Savanna of Mali

Alpha O. Kergna; Veronique Theriault, Michigan State University

Effects of Organic and Inorganic Fertilizer Use on (Intra) Household Welfare in Burkina Faso

Hamza Haider, Michigan State University

Gender Differences in Herbicide Adoption in the High Productive Sorghum Zone in Mali

Steven Haggblade, Michigan State University

2066 Marketing Sustainability: Consumer Interest in Sustainability and Health Attributes on Food and Beverage Products

Clarendon, 3rd Floor

Track Session – FAMPS and FSN Sections

This session is focused on examining consumer demand for sustainability and health-related credence attributes of food and beverage products and implications for producers and food markets. Two of these presentations will discuss how sensory evaluations of food products can be linked to choice experiments in order to understand how willingness to pay for environmental attributes is influenced by consumer perceptions of quality. In the second half of this session results from two studies using retail scanner data from U.S. and UK will show how consumer purchasing behavior influences prices and firm behavior. More detailed abstracts for each presentation are attached below.

Organizers: Rebecca L. Boehm, Tufts University; Sean B. Cash, Tufts University

Climate Change and Consumer Food Choices: Linking a Choice Experiment and Product Sensory Evaluation to Elicit Consumer Interest in Carbon Footprint Mitigation, Seasonality, and Climate-driven Quality Changes

Rebecca L. Boehm, Tufts University; Sean B. Cash, Tufts University; Amanda Kowalsick, Tufts University; Nicole Kfoury, Tufts University; Tim Griffin, Tufts University; Albert Robbat Jr., Tufts University; Richard Stepp, University of Florida; Selena Ahmed, Montana State University; Colin M. Orians, Tufts University

Effect of Quality Attributes and Local Label on Consumer Purchase and Repurchase of Fresh Produce: An Application of Sensory Evaluation and Auctions for Fresh Strawberries

Chenyi He, University of Florida; *Zhifeng Gao*, University of Florida; Charles Sims, University of Florida; Lisa A. House, University of Florida; Zhengfei Guan, University of Florida

Voluntary Non-GMO Food Labeling: Consumer WTP and Firm Behavior

Aaron A. Adalja, University of Maryland

The Demand for Sustainable Food Attributes: The Case of the British Egg Market

Diogo M. Souza Monteiro, Newcastle University; Luca A. Panzone, Newcastle University

Concurrent Sessions — Tuesday, 1:00 - 2:30 PM

2067 Statistical Approaches for Addressing Data-Driven Concerns Regarding the Rating of Crop Insurance

Dartmouth, 3rd Floor

Track Session – Econometrics Section

It is widely recognized that dependence between individual sources of risk plays an important role in pricing insurance coverage. In addition, research focused on crop insurance is often plagued by a paucity of data from which premium rates can be estimated. Other pertinent issues include the identification of systemic risk and spatial basis risk, which are detrimental to the supply of and demand for index based insurance. This session will explore each of these issues with a focus on the statistical techniques being used to address them.

Organizer: Jesse B. Tack, Mississippi State University

Moderator: Jesse B. Tack, Mississippi State University

Accounting for Dependence in the Federal Crop Insurance Program

Barry K. Goodwin, North Carolina State University

Using Extraneous Data to Rate Crop Insurance Contracts: Issues of Correlation and Consistency

Alan P. Ker, University of Guelph

Modeling Systemic Risk and Spatial Basis Risk in Index-Based Insurance

Martin Odening, Humboldt University Berlin; Zhiwei Shen, Humboldt-Universität zu Berlin

2068 Transformations in Food Systems: Opportunities and Challenges for Alternative Food Systems

Exeter, 3rd Floor

Track Session – CRENET and China Sections – Lightning Session

In order to feed the increasing urban population alternative food production systems need to be identified and implemented. Among those are Community Supported Agriculture (CSA) and other urban farming systems. This session aims to highlight opportunities and challenges of these food production systems along the supply chain. In particular, the presentations will focus on consumers' perception of urban farming, and their acceptance of and willingness to pay for produce grown in a vertical farm production system. The impacts of CSA program participation on consumer attitudes and behaviors related to food consumption and preparation are discussed. Teaching Gardens that provide school children with opportunities to learn about food and nutrition while planting, maintaining, harvesting, and preparing produce from their school garden are analyzed. Presenters examine whether subsidizing the cost of CSAs, integrated with tailored education increases produce consumption and improves overall diet quality. Finally, this session provides a discussion on the emerging marketing and business strategies in the CSA sector, with a focus on multi-farm operations. Specifically, the impact of these innovations on firm and producer-level profitability are evaluated and prospects for the future evolution of the sector are assessed.

Organizer: Carola Grebitus, Arizona State University

Moderator: Dawn D. Thilmany McFadden, Colorado State University

Consumer Perception of Urban Agriculture

Carola Grebitus, Arizona State University; Antonios Printezis, Arizona State University; Iryna Printezis, Arizona State University

Consumer Acceptance of Alternative Production Systems: The Case of Vertical Farming

Bradford Coyle, University of Illinois at Urbana-Champaign; **Brenna Ellison**, University of Illinois at Urbana-Champaign

CSA Programs and Dietary Behavioral Change

Kynda R. Curtis, Utah State University; Karin Allen, Utah State University; Ruby A. Ward, Utah State University

Impacts of the American Heart Association Teaching Gardens Program on Fruit and Vegetable Consumption: A National Study

Erin Roche, University of Vermont; Jane M. Kolodinsky, University of Vermont; Rachel Johnson, University of Vermont

Economic Contribution and Potential Impact of Farm to School Programs in Vermont

Florence Becot, University of Vermont; Erin Roche, University of Vermont; Jane Kolodinsky, University of Vermont

Cost-offset CSAs: Working Toward Better Nutrition for Resource Challenged Families and Better Livelihoods for Farmers

Jane Kolodinsky, University of Vermont; Rebecca Sequin, Cornell University; Stephanie Bell Jilcott, Eastern Carolina University; Marilyn Sitaker, Battelle Memorial Institute

The Changing CSA Strategic Business Model

Debra Tropp, USDA-Agricultural Marketing Service; Timothy Woods, University of Kentucky

The Promise of Urban Agriculture: National Study of Commercial Farming in Urban Areas

Samantha Schaffstall, USDA-Agricultural Marketing Service; Anu Rangarajan, Cornell University

Concurrent Sessions — Tuesday, 1:00 - 2:30 PM

2069 Agricultural Data Linkages for Research and Policy Illumination

Fairfield, 3rd Floor

Track Session – Senior Section

This session provides an opportunity for broad input from AAEA members on what agricultural data linkages would be most useful to research and analysis and how they can be achieved. Speakers will summarize agricultural data linkage priorities identified at a small, invited Workshop, report on successful linkages achieved and the policy insights that have arisen from their use in analysis, demonstrate the value of using administrative data to illuminate program and policy issues, and discuss the feasibility of potentially gainful linkages. The discussion portion of the session focuses on exploring specific actions that could be taken by individual researchers or by institutions to open up opportunities for data linkage across federal agencies that have agriculturally-related survey and administrative data. The speakers bring to the table the views of statistical agencies and academics from within and outside food and agriculture.

Organizer: Katherine R. Smith, Council of Professional Associations on Federal Statistics

Moderator: Katherine R. Smith, Council of Professional Associations on Federal Statistics

Discussant: Mary E. Bohman, USDA-Economic Research Service

Opportunities for Linking Household Statistics from the U.S. Census Bureau with Statistics from the Agricultural Resource Management Survey (ARMS)

James M. MacDonald, USDA-Economic Research Service; Lucia Foster, Census Bureau

Using Census and IRS Data to Define and Describe Non-Farm Activities in the U.S. Food and Agriculture Supply Chain

Brent M. Hueth, University of Wisconsin; Richard Dunn, University of Connecticut

Utilizing Farmland and Financial Transactions Data to Better Understand Agricultural Structure and Performance

Bruce J. Sherrick, University of Illinois at Urbana-Champaign

Linking Spatial and Agricultural Program Data

Patrick Flanagan, USDA-Natural Resources Conservation Service; **Vincent E. Breneman**, USDA-Economic Research Service

2070 Extension Section Livestock Outlook

Harvard, 3rd Floor

Track Session – Extension Section

This session continues the tradition of Extension Section Outlook organized symposium and will focus on livestock situation and outlook. The presenters will discuss the trends in domestic and global livestock production, trade, supplies, demand and prices as well as the prospects for profitability for the coming year.

Organizer: Jeremy Ross Pruitt, University of Tennessee at Martin

Discussant: Jeremy Ross Pruitt, University of Tennessee at Martin

Cattle and Beef Outlook

Kathleen R. Brooks, University of Nebraska-Lincoln

Hogs and Pork Outlook

Brenda L. Boetel, University of Wisconsin-River Falls

Dairy Outlook

John C. Newton, National Milk Producers Federation

Concurrent Sessions — Tuesday, 1:00 - 2:30 PM

2071 Emerging Issues in Rural China: Health Insurance, Children Education, Children Nutrition, and Decision Behavior
Provincetown, 4th Floor

Track Session – China Section – Lightning Session

China's rural economics and labor resources issues continues to draw attentions from the public and researchers. Eight papers are selected to address different aspects that a typical rural household would face in practice. The first paper examined the impact of a public health insurance program and found that it did not in fact improve health outcomes, but increased the use of preventative health services in the short term. The followed three papers discussed the issues of rural children's education, cognition, nutrition, and the relationships among them using continuing tracking surveys about left-behind children and infant and caregivers. The rest four papers discussed other decision making issues and decision behavior patterns of the rural households, including whether take off-farm employment, whether choose online shopping, whether adopt of agricultural machinery service and production systems.

Organizer: Guzhen Zhou, Jiangxi University of Finance and Economics

Moderator: Songqing Jin, Michigan State University

Heterogeneous Effects of Health Insurance Coverage on Health Service Utilization and Health in Rural China

Yiqiu Wang, Nanjing Agricultural University; Maria Porter, Michigan State University; Songqing Jin, Michigan State University

Effect of Parental Migration on the Left Behind Children's the Academic Performance: Evidence from Rural China

Chengfang Liu, Peking University; Yu Bai, Chinese Academy of Sciences; Linxiu Zhang, CCAP; Yaojiang Shi, Shaanxi Normal University; Di Mo, Stanford University; Scott D. Rozelle, Stanford University

Effect of Deworming on Indices of Health, Cognition, and Education among Schoolchildren in Rural China: A Cluster-randomized Controlled Trial

Linxiu Zhang, CCAP; Chengfang Liu, Peking University; Louis Lu, Stanford University; Renfu Luo, Peking University; Sean Y. Sylvia, University of Maryland; Alexis Medina, Stanford University; Scott D. Rozelle, Stanford University; Yingdan Che, Chinese Center for Disease Control and Prevention; Tingjun Zhu, Chinese Center for Disease Control and prevention

Nourishing the Future: Targeting Infants and Their Caregivers to Reduce Malnutrition in Rural China

Renfu Luo, Peking University; Linxiu Zhang, Center for Chinese Agricultural Policy; Ai Yue, Shaanxi Normal University; Yaojiang Shi, Shaanxi Normal University; Huan Zhou, Sichuan University; Sean Sylvia, Remin University of China; Alexis Medina, Stanford University; Scott Rozelle, Stanford University

Assessing Off-farm Employment Decisions of Rural Households in China

Xuan Chen, University of Maine; Jing Chen, University of Maine; Chien-Yu, Huang, Southwestern University of Finance and Economics

Chinese Rural Consumers' Online Shopping

Hua Zhong, University of Kentucky; Ping Qing, Huazhong Agricultural University; **Wuyang, Hu**, University of Kentucky

The Relationship Between Household Endowments of Labor and Land and the Adoption of Agricultural Machinery Service in Rural China

Yating Zeng, The State University of New Jersey; Yanhong Jin, The State University of New Jersey; Zhong Tang, The State University of New Jersey

Investigating the "One Farm Household, Two Production Systems" for Rural Farmers in China

Man Zhang, Rutgers University; Yanhong Jin, Rutgers University; Fengtian Zheng, Renmin University of China

Concurrent Sessions — Tuesday, 1:00 - 2:30 PM

2072 Supplemental Nutrition Assistance Program (SNAP)

Maine, 5th Floor

Selected Presentation

The U.S. government offers nutrition assistance to millions of eligible, low income individuals and families through the Supplemental Nutrition Assistance Program (SNAP). This session includes four papers that analyze SNAP.

Moderator: Lisa Mancino, USDA-Economic Research Service

Who Benefits Most from SNAP?

Christian A. Gregory, USDA-Economic Research Service; Partha Deb, Hunter College

How do SNAP Participation, Food Access and Food Prices Affect Nutritional Quality of Food Purchases? An Analysis of Food APS Data

Lisa Mancino, USDA-Economic Research Service; Michele L. Ver Ploeg, USDA-Economic Research Service; Biing-Hwan Lin, USDA-Economic Research Service; Joanne Guthrie, USDA-Economic Research Service

Do SNAP Recipients Get the Best Prices?

Raymond March, Texas Tech University; Carlos E. Carpio, Texas Tech University; Tullaya Boonsaeng, Texas Tech University; Conrad P. Lyford, Texas Tech University

Incorporating Time Costs into SNAP Allotment Calculation: A Home Food Production Time Use Analysis

Wen You, Virginia Tech; George C. Davis, Virginia Tech