

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1095 Strategic Decision Making in Agribusiness

Massachusetts, 5th Floor

Case Studies

This session includes three decision cases showing how the application of economic concepts and tools may inform the public or private sectors in making better decisions. The first case provides alternative investment options in a corn-ethanol plant to be analyzed with the real options approach using panel data. The second case considers innovation in the food sector and how economic value can be created in a dynamic market environment. The third case involves the entry of a mid-size firm in the growing Chinese food market and allows students to formalize strategic decisions in a business to business situation.

Moderator: William Secor, University of Minnesota

Ethanol Plant Investment: A Real Options Case Study

William Secor, University of Minnesota; Michael A. Boland, University of Minnesota

Local and Regional Organic Small Grains in the Northeast: Articulation of a Value

Brian P. Baker, Self-Employed

Following the Giant to an Emerging Market: Bama China

Hong Holly Wang, Purdue University; Yi-An Li, Purdue University

1096 Agricultural Economics as a Behavioral Discipline

Arlington, 3rd Floor

Organized Symposium

Agricultural economics has a strong behavioral element throughout its history. This session identifies these elements and proposes how they can influence future research in agricultural and general economics. Topics include: (i) elements of behavioral economics in research of agricultural production, technology and risk; (ii) behavioral economics and food economics and policy; (iii) the role of behavioral economics, and in particular social capital, in explaining patterns of trade and (iv) the role of behavioral economics, and in particular self-efficacy, in explaining technology adoption in developing countries. Each presentation will run 15 minutes, followed by 15 minutes of Q&A.

Organizer: David Zilberman, University of California, Berkeley

Panelists: David R. Just, Cornell University; Lindon J. Robison, Michigan State University; David Wuepper, Technical University Munich; David Zilberman, University of California, Berkeley

Behavioral Elements in the Study of Agricultural Technology and Risk

David Zilberman, University of California, Berkeley

The Average Consumer Misses the Mark: Behavioral Approaches to Fine Tuning Food Policy

David R. Just, Cornell University

Resolving Exchange Anomalies by Accounting for Relational Goods

Lindon J. Robison, Michigan State University; Jeffrey R. Oliver, Michigan State University

Self-Efficacy, Economic Behavior, and Agricultural Economics

David Wuepper, Technical University Munich

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1098 Food and Agricultural Policy Analysis

Salon B, 4th Floor

Selected Presentation – Lightning Session

This session includes presentations highlighting key findings in a range of topics related to food and agricultural policy analysis.

Moderator: Xudong Rao, Wageningen University

Are Agricultural R&D Returns Declining and Development Dependent?

Xudong Rao, Wageningen University; Terrance M. Hurley, University of Minnesota; Philip G. Pardey, University of Minnesota

On the Relations Between Nutrition and Economic Growth: Evidence from Sub-Saharan Africa

Kolawole Ogundari, University of Delaware; Adebayo B. Aromolaran, Adekunle Ajasin University

What Drives India's Rice Stocks? Empirical Evidence

Jan Brockhaus, Center for Development Research, University of Bonn; Matthias Kalkuhl, University of Bonn; Marta Kozicka, Center for Development Research, University of Bonn

An Evaluation of the 2015 Outbreak of Avian Influenza in the United States.

James W. Richardson, Texas A&M University; Aleksandre Maisashvili, Texas A&M University; **Lei Gao**

The Effects of American Diets on Food System Energy Use

Sarah Rehkamp, USDA-Economic Research Service; Patrick N. Canning, USDA-Economic Research Service

Adaptations to Achieve Future Sustainable Irrigation

Jing Liu, Purdue University; Thomas W. Hertel, Purdue University; Uris Lantz C. Baldos, Purdue University; Richard Lammers, University of New Hampshire; Alexander Prusevich, University of New Hampshire

Foreign Guest Workers or Domestic Workers? Farm Labor Decisions and Implications

Feng Wu, University of Florida; Zhengfei Guan, University of Florida

1099 Response to Concerns about Climate

Salon C, 4th Floor

Selected Presentation – Lightning Session

This lightning session presents papers about current and projected responses to climate change.

Moderator: Kevin Meyer, Iowa State University

Climate Change and Agriculture: the Role of Tile Drainage

Kevin Meyer, Iowa State University; David A. Keisler, Iowa State University

Global Land Use Changes due to the U.S. Cellulosic Biofuel Program

Xin Zhao, Purdue University; Wallace E. Tyner, Purdue University

Flexible-Fuel Automobiles and CO₂ Emissions in Brazil: a Semiparametric Analysis using Panel Data

Alexandre N. Almeida, University of Sao Paulo; Alexandre Amorin, University of Sao Paulo; Tiago Diniz, University of Sao Paulo; Leandro Gilio, University of Sao Paulo; Vinicius Halmenschlager, University of Sao Paulo; Augusto Santos, University of Sao Paulo

Valuation of Water-Related Ecosystem Services Under Climate Change: The Case of Chaparral Landscapes in National Forests

Lorie Srivastava, University of California, Davis; Cloe Garnache, Michigan State University; Frank Lupi, Michigan State University; Michael S. Hand, U.S. Forest Service

Welfare Analysis for Climate Risk Reductions: Are Current Treatments of Outcome Uncertainty Sufficient?

Christos Makriyannis, Clark University; Robert J. Johnston, Clark University

Assessing Climate Vulnerability of Agricultural Systems Using High-order Moments: A Case Study in the U.S. Pacific Northwest

Hongliang Zhang, Oregon State University; John M. Antle, Oregon State University

Are U.S. Farmers Expecting Imminent Impacts from Climate Change? Evidence from Weather Shocks on the Farmland Market

Matthew L. Utterback, Cornell University; Ariel Ortiz-Bobea, Cornell University

Few and Not So Far Between: A Meta-Analysis of Climate Damage Estimates

Peter H. Howard, Institute for Policy Integrity; Thomas Sterner, University of Gothenburg

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1100 Rural Economic Growth and Human Capital Accumulation

Columbus 1, 1st Floor

Selected Presentation

This session explores a series of factors affecting human capital accumulation, rural economic growth and local governance in developing countries.

Moderator: Teevrat Garg, London School of Economics

Pro-Poor Growth in Rural Bangladesh: On the Role of Schooling, Microfinance and Connectivity

Md Mansur Ahmed, North Carolina State University; Madhur Gautam, World Bank

Intergenerational Effects of Childhood Shocks on Human Capital: Evidence from Ethiopia

Kibrom Tafere, Cornell University

The Role of Local Governments in Preserving the Commons: Theory and Evidence from Indonesia

Stefania Lovo, London School of Economics; Caterina Gennaioli, London School of Economics; **Teevrat Garg**, London School of Economics

1101 Impacts of Biofuels

Harvard, 3rd Floor

Selected Presentation

This session focuses on the market for and trade of biofuels and their impacts on food security. Presentations address these issues at the state and country level.

Moderator: Luis M. Pena-Levano, Purdue University

The Causes of Two-Way U.S.-Brazil Ethanol Trade and the Consequences for Greenhouse Gas Emissions

Deepayan Debnath, Food and Agricultural Policy Research Institute, University of Missouri; Jarrett Whistance, University of Missouri; Wyatt Thompson, University of Missouri

Trading Food Security for Climate Change Mitigation? The Implications of Renewable Electricity Expansion on U.S. Food Production and Trade

Justin S. Baker, RTI International; Gregory Latta, Oregon State University; Jason P H Jones, RTI International; Robert H. Beach, RTI International; Bruce A. McCarl, Texas A&M University; Jared Creason, U.S. Environmental Protection Agency; Jan Lewandrowski, USDA-Economic Research Service; Sara B. Ohrel, U.S. Environmental Protection Agency

The Dark Side of Biofuels on Emissions and Food Security: Economic and Environmental Effects of the European Biofuel Policy in the Global Economy

Luis M. Pena-Levano, Purdue University; Michele Rasetti, Università Politecnica delle Marche; Grace Rocio Melo, University of Georgia; Verena Mecklenbrauck, Purdue University; Rodrigo Vasquez-Panizza, Purdue University; Adenola O. Osinubi, The University of Georgia

1102 Land Management and the Environment

Hyannis, 4th Floor

Selected Presentation

The papers in this session address factors which influence on-farm management decisions and the influence of those practices on the environment.

Moderator: Douadia Bougherara, Institut National de la Recherche Agronomique

Mapping, Valuing and Maximizing the Nutrient Retention Return on Investment in Forest Conservation: The Case of the Classified Forest and Wildlands Program in Indiana

Shadi S. Atallah, University of New Hampshire; **Yangyang Wang**, Purdue University; Guofan Shao, Purdue University

Spatial Relationships Between Nutrient Loading in Watersheds and Socio-Economic Factors: An Analysis with Geographically Weighted Lasso Regression

Santosh Neupane, University of Tennessee, Knoxville; Christopher D. Clark, University of Tennessee; Dayton M. Lambert, University of Tennessee

Community Supported Agriculture and Preferences for Risk and Fairness

Kévin Bernard, Institut National de la Recherche Agronomique; Aurélie Bonein, Center for Research in Economics and Management; **Douadia Bougherara**, Institut National de la Recherche Agronomique

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1103 Food Policies and Healthy Food Choices

Maine, 5th Floor

Selected Presentation

With obesity becoming an increasingly chronic public health problem, more government policies have been geared toward affecting dietary choices and access to healthy foods. Papers in these session examine several food related policies.

Moderator: Adelaide Fadhuile, Université Grenoble Alpes - Institut National de la Recherche Agronomique

Hunger for Meat: Can Animal Protein-Based Taxation Reverse the Trend?

Adelaide Fadhuile, Université Grenoble Alpes - Institut National de la Recherche Agronomique; France Caillavet, Institut National de la Recherche Agronomique; Veronique Nichele, Institut National de la Recherche Agronomique

An Economic Analysis of Beverage-Size Restrictions

Brian A. Bourquard, Purdue University; Steven Y. Wu, Purdue University

The Effect of Subsidizing Supermarkets to Enter Food Deserts on Welfare

Linlin Fan, University of Illinois at Urbana-Champaign

Neighborhoods' Food Environments Revisited: Food Deserts or Food Swamps?

Haoluan Wang, University of Alberta; Feng Qiu, University of Alberta

1104 Demand Model Specification

Nantucket, 4th Floor

Selected Presentation

This session examines the impact and status of agricultural and transportation policies.

Moderator: Vahé Heboyan, Augusta University

Cigarette Price Elasticity of Demand for Young Adults in the United States: An Application of Panel Quantile Regression Analysis

Vahé Heboyan, Augusta University; Vardges Hovhannisyan, University of Wyoming

Carbon Tax Incidence and Household Energy Demand in the U.S.

Jun Zhang, University of Maryland

A Global Demand Analysis of Vegetable Oils for Food and Industrial Use: A Cross-Country Panel Data Analysis

Yasutomo Kojima, Cornell University; Joe L. Parcell, University of Missouri; Jewelwayne S. Cain, University of Missouri

1105 The Demand for Eco-Labeled and Local Products

Regis, 3rd Floor

Selected Presentation

These papers investigate the characteristics of consumers of local or eco-labeled products. Consumer perceptions, estimates of the demand, and impact of consumption for these products are analyzed. Ideas for how to improve the marketing of these products are described as well.

Moderator: Michael Vassalos, Clemson University

Who are the Community Supported Agriculture (CSA) Consumers and How to Promote CSA to More Consumers?

Michael Vassalos, Clemson University; Zhifeng Gao, University of Florida; Lisha Zhang, University of Florida

Consumer Perception of Local Grown Produce and Causal Factors in the Southeastern States

Xuanli Liu, Fort Valley State University; Mohammed Ibrahim, Fort Valley State University; Nalini Pattanaik, Fort Valley State University

The Effects of Emotion on Consumers' WTP for Eco-Labeled Fresh Produce

Xuqi Chen, University of Florida; Zhifeng Gao, University of Florida

Potential Demand for Local Fresh Produce by Mobile Markets

Lydia Zepeda, University of Wisconsin; Anna Reznickova, University of Wisconsin

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1106 The Effect of Climate Uncertainties on Agriculture

Salon A, 4th Floor

Selected Presentation

The papers in this session explore the interaction between the climate and agriculture. Specifically, how does the climate affect agriculture and how does agricultural production affect climate change?

Moderator: Sunil Dhoubhadel, Fort Hays State University

Cost of Risk Exposure, Farm Disinvestment and Adaptation with Climate Uncertainties: The Case of Arable Farms in the EU
Habtamu Y. Ayenew, Technical University of Munich; Johannes Sauer, Technical University of Munich; Getachew Abate Kassa, Technical University of Munich

Livestock Demand, Global Land Use, and Greenhouse Gas Emissions

Sunil Dhoubhadel, Fort Hays State University; Farzad Taheripour, Purdue University; Matthew C. Stockton, University of Nebraska-Lincoln

Agricultural R&D Policy Under Climate and Economic Uncertainty

Alla Golub, Purdue University; Yongyang Cai, Hoover Institution, Stanford University; Thomas W. Hertel, Purdue University; Kenneth L. Judd, Hoover Institution, Stanford University

Climate Change and Rice Self-Sufficiency Policy: Exploring Adaptation Strategy through Agricultural Policy Reform in the Philippines

Angga Pradesha, International Food Policy Research Institute

1107 Factors Impacting Healthy Food Choice

Salon D, 4th Floor

Selected Presentation

Several factors may impair individuals from choosing healthy food options. This session examines product attributes ranging from taste to brand to examine if they impact healthy choices.

Moderator: Derek Headey, International Food Policy Research Institute

Is Exposure to Animal Feces Harmful to Child Nutrition and Health? A Multi-Country Observational Analysis

Derek Headey, International Food Policy Research Institute; Nguyen Phuong, International Food Policy Research Institute

How Healthy are the Food Stores in Your Neighborhood? Using TDLinx and ACS Data to Measure Healthy Store Choices for American Households across the United States over Time

Nestor M. Rodriguez, USDA-Economic Research Service

Does Taste Trump Health? Effects of Nutritional Characteristics on Brand-Level Demand for Chips in the U.S.

Matthias Staudigel, University of Alberta; Sven M. Anders, University of Alberta

Children's Purchase Behavior in the Snack Market: Can Branding or Low Price Motivate a Healthy Choice?

Monika Hartmann, University of Bonn; Sean B. Cash, Tufts University; Ching-Hua Yeh; Stefanie C. Landwehr, Rheinische Friedrich-Wilhelms-Universität Bonn; Anna R. McAlister, Endicott College

1108 The U.S. Biofuel Policy and the Challenges of Biomass Feedstock Supply

Salon H, 4th Floor

Selected Presentation

The papers in this session empirically and theoretically address various issues related to biofuels production and policy.

Moderator: Alicia Rosburg, University of Northern Iowa

Opportunity Costs, Supply Chain Logistics and Carbon Balances of Advanced Biofuel Production

Aaron V. De Laporte, North Dakota State University

Mitigating Feedstock Supply Risk in Corn Stover Biofuel Production

Alicia Rosburg, University of Northern Iowa; John A. Miranowski, Iowa State University; Jonathan McFadden, USDA-Economic Research Service

Spatial Competition and Welfare-Ranking of Biofuel Policies

Juan Pablo Sesmero, Purdue University; Joseph V. Balagtas, Purdue University

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1109 Emissions Policies

Salon I, 4th Floor

Selected Presentation

Papers on this session examine the role of regulations, technology transfer and firm's organizational structure on emissions.

Moderator: Jesus Barreiro-Hurle, European Commission DG Joint Research Centre

Can Technology Transfer Avoid Emission Leakage from Unilateral Mitigation Targets in Agriculture?

Jesus Barreiro-Hurle, European Commission DG Joint Research Centre; Ignacio Perez Dominguez, European Commission; Torbjorn Jansson, Swedish University of Agricultural Science; Thomas Fellman, European Commission; Franz Weiss, European Commission

Emissions Leakage: A U.S. Multi-plant Firms' Perspective

Yongjie Ji, Iowa State University and Center for Agricultural and Rural Development; Jingbo Cui, Wuhan University

ISO-14001 Standard and Firms' Environmental Performance: Testing Cost vs. Benefit Effects

Mehdi Nemati, University of Kentucky; Yuqing Zheng, University of Kentucky; Wuyang Hu, University of Kentucky

Intra-Firm Diffusion of Pollution Prevention Technologies: The Role of Organization Structure

Lifan Qian, University of Florida; Xiang Bi, University of Florida

1110 Migration Causes and Consequences

Salon J, 4th Floor

Selected Presentation

Papers presented in this session investigate the causes and implications of migration in Kyrgyzstan, Tanzania, Mali, and China.

Moderator: Elizabeth R. Bageant, Cornell University

Migration and Subjective Well Being of Left behind Household Members: Evidence from Kyrgyzstan

Elizabeth R. Bageant, Cornell University; Yanyan Liu, International Food Policy Research Institute; Kamiljon Akramov, International Food Policy Research Institute

Intra-Rural Migration in Tanzania and Mechanisms of Welfare Change

Ayala Y. Wineman, Michigan State University; Thomas S. Jayne, Michigan State University

The Causes of Agricultural Migration: A Natural Experiment in Southern Mali

Zachary Barnett-Howell, University of Wisconsin; **Jeremy D. Foltz**, University of Wisconsin

Driving Factors of Rural-Urban Migration in China

Grace Rocío Melo, University of Georgia; Glenn C. W. Ames, University of Georgia

1111 Direct Investment and Agricultural Trade

Salon K, 4th Floor

Selected Presentation

Foreign direct investment is becoming increasingly important in the agribusiness sector. These papers investigate foreign direct investment decisions made in a variety of agricultural contexts

Moderator: Ivan T. Kandilov, North Carolina State University

Foreign Direct Investment and Trade in the U.S. Food Processing Industry: Complements or Substitutes?

Victor O. Ajaero, South Dakota State University; **Evert Van Der Sluis**, South Dakota State University

Similarity in Aggregated Preferences and Foreign Direct Investment in the Food Industry

Sandro Steinbach, ETH Zurich

A Dynamic Model of Firms' Production Offshoring and Clean Technology Adoptions

Xianwei Meng, University of Wisconsin

Strategic Acquisitions: Determinants of Chinese Outward Direct Investment in Agrifood Industry

Ivan T. Kandilov, North Carolina State University; Kathryn A. Boys, North Carolina State University

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1112 Risk and Uncertainty in the Energy Market

St. Botolph, 2nd Floor

Selected Presentation

This session addresses several dimensions of risk and uncertainty applied to energy markets. The papers address topics such as downside risk, option value analysis and market entry related to ethanol mandate, biofuel investment, perennial energy production and the natural gas market.

Moderator: Rebecca J. Davis, University of Tennessee

The Ethanol Mandate and Downside Risk in Agriculture

Levi A. Russell, Texas A&M University; Michael R. Langemeier, Purdue University; Jon T. Biermacher, The Samuel Roberts Noble Foundation, Inc.; **Gregory A. Ibendahl**, Kansas State University

Examining the Effects of Uncertainty on Second-Generation Biofuel Investment by Using a Two Stochastic Process Approach
Evan L. Markel, University of Tennessee; Charles Sims, University of Tennessee

Contracting Arrangements for Perennial Energy Crops

Tanner McCarty, Purdue University; Juan Pablo Sesmero, Purdue University; Ben Gramig, Purdue University

To Frack or Not to Frack: Option Value Analysis on the U.S. Natural Gas Market

Rebecca J. Davis, University of Tennessee; Charles Sims, University of Tennessee

1113 Domestic Rural Policy

Suffolk, 3rd Floor

Selected Presentation

This session addresses policy components of U.S. rural development, including local and federal government programs. Policy areas discussed include education, housing, and disaster management.

Moderator: Alexander W. Marre, USDA-Economic Research Service

School Quality and the Location and Expansion of Rural Manufacturers

Alexander W. Marre, USDA-Economic Research Service; Anil Rupasingha, USDA-Economic Research Service

Are Rural Areas Underserved by Federal Housing Assistance Programs?

Paul E. McNamara, University of Illinois at Urbana-Champaign; **Han Bum Lee**, University of Illinois at Urbana-Champaign

Using System Dynamics for Disaster Debris Management in a Changing Policy Environment

Alejandra R. Breve Ferrari, Louisiana State University; J. Matthew Fannin, Louisiana State University

1114 Behavioral Insights on Brand and Food Purchase Decisions

Tremont, 1st Floor

Selected Presentation

This set of papers addresses internal and external factors that influence consumers' choice of brands and food purchase decisions.

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

The Effects of Self-Control on Subsequent Purchasing Decisions.

Marco A. Palma, Texas A&M University; Michelle Stefania Segovia Coronel, Texas A&M University; Bachir Kassas, Texas A&M University; Luis A. Ribera, Texas A&M University; Charles Hall, Texas A&M University

Changes in Food Choices after Tray Removal in a University Dining Hall

Janani Rajbhandari Thapa, University of Georgia; Kristina Lewis, Wake Forest University; Katherine Ingerson, University of Georgia

The Consumer Paradox: Why Bottom-Tier Consumers Are Loyal To Brand Names

Simba Pasirayi, Arizona State University; Andrea Morales, Arizona State University; Carola Grebitus, Arizona State University

Buy Locally? Big-Box Stores and Time-Inconsistent Preferences

Lindsey K. Novak, University of Minnesota

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1115 Spanning the Field: Investment, Insurance, Production Decisions, and Returns to Applied Research

Vermont, 5th Floor

Selected Presentation

This session covers four exciting aspects of agricultural economics: Midwest corn-ethanol, crop choice, measurement of weather variables, and the quality and quantity incentives in our profession.

Moderator: John K. Gibson, University of Waikato

Dynamic Modeling of Bundled Tillage-Crop Choices: Impact of Soil Erodibility on the Interactions Between Continuous Conservation Tillage and Crop Rotations in Iowa

Dat Q. Tran, North Carolina A&T State University; Lyubov A. Kurkalova, North Carolina A&T State University

Analysis of Weather Variables for the Design of Weather Index Insurance: The Case of Forage

Shuo Wang, University of Manitoba; Lysa Porth, University of Manitoba; Milton Boyd; Ken Seng Tan, University of Waterloo

Are Returns to Research Quality Lower in Agricultural Economics than in Economics?

John K. Gibson, University of Waikato; Ethan Burton-McKenzie, University of Waikato

1116 Precision Agriculture

Yarmouth, 4th Floor

Selected Presentation

This session is comprised of four papers analyzing precision agriculture. These papers vary from estimating site-specific yield response functions to adoption of automated technologies.

Moderator: Xiaofei Li, Mississippi State University

Estimating Site-Specific Crop Yield Response using Varying Coefficient Models

Xiaofei Li, Mississippi State University; Keith H. Coble, Mississippi State University; Jesse B. Tack, Mississippi State University; Barry J. Barnett, Mississippi State University

Factors Influencing the Adoption of Automatic Section Control Technologies and GPS Guidance Systems in Cotton Production

Brittani Edge, University of Tennessee; **Margarita M. Velandia**, University of Tennessee; Roland K. Roberts, University of Tennessee; Dayton M. Lambert, University of Tennessee; James A. Larson, University of Tennessee; Christopher N. Boyer, University of Tennessee; Burton C. English, University of Tennessee; **Margarita M. Velandia**, University of Tennessee; Roderick M. Rejesus, North Carolina State University; Larry Falconer, Mississippi State University

An Assessment of the Site-Specific Nutrient Management for Irrigated Rice in Asia

Divina Gracia P. Rodriguez, Norwegian Institute of Bioeconomy Research

The Impact of Perceptions of Future Profitability on Precision Technology Adoption: An Application of Averting-decision Behavior

Doris Sande, North Carolina State University; Roderick M. Rejesus, North Carolina State University; Michele C. Marra, North Carolina State University; Roland K. Roberts, University of Tennessee; James A. Larson, University of Tennessee; Margarita M. Velandia, University of Tennessee

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1117 The Role of Regulation in the Agricultural Sector: The Case of Plant and Animal Diseases

Berkeley, 3rd Floor

Track Session – COSBAE Section

Plant and animal disease impose costs on society, and market mechanisms alone are not well suited to address these types of problem. Thus, there is a role for government. The U.S. government, USDA, and other agencies, perform a variety of functions with respect to plant and animal diseases. The regulatory process defines the scope of the functions. USDA import programs safeguard U.S. agriculture and natural resources from the risks associated with the entry, establishment, or spread of animal and plant pests and noxious weeds. USDA responds to new introductions of plant and animal pests and diseases to eradicate, or contain them in cooperation with states. Plant and animal health experts work closely with other federal agencies, states, foreign governments, industry and professional groups to enhance international trade and cooperation while preventing the introduction of dangerous and costly pests and diseases.

Organizers: Blondel A. Brinkman, USDA-Animal and Plant Health Inspection Service; Christopher Kloczek, U.S. Department of Agriculture

Moderator: Blondel A. Brinkman, USDA-Animal and Plant Health Inspection Service

Presenter: Hyeyoung Kim, University of Florida
Academic Perspective on Regulations

Clare A. Narrod, University of Maryland

Government Role in the Regulatory Process

Linda Abbott, USDA-Office of the Chief Economist, Office of Risk Assessment and Cost-Benefit Analysis

1118 Malthus vs. Ricardo Redux: How Much Food and Farmland in 2050?

Clarendon, 3rd Floor

Track Session - International Section and IATRC

What will be the environmental cost of feeding nine-plus billion people in 2050? In light of current and anticipated adverse climate impacts, concerns have also been raised about the long run trajectory of food prices. Given the importance of these issues, the wide range of projections of growth in global crop output and land use from 2005 to 2050 is disturbing. What is behind these divergent estimates for output growth and land use? How do they relate to underlying uncertainty in the drivers of global change and economic elasticities? What can the profession do to narrow the 'error bars' associated with these long run projections for the global agricultural economy? This session gathers leading experts from around the world to shed light on these questions and to chart the way forward for future agricultural economics research on this topic.

Organizers: Thomas W. Hertel, Purdue University; Dominique Van Der Mensbrugge, Purdue University

Moderator: Alexander F. McCalla, University of California, Davis

Discussants: Josef Georg Schmidhuber, Food and Agriculture Organization of the United Nations; Frank Van Tongeren, Organization for Economic Cooperation and Development

Predicting Long Term Food Demand, Cropland Use and Prices

Thomas W. Hertel, Purdue University; Uris Lantz C. Baldos, Purdue University; Dominique Van Der Mensbrugge, Purdue University

Livestock in the Global Economy: Implications for Land Use and Agricultural Production

Petr Havlik, International Institute for Applied Systems Analysis; Hugo Valin, International Institute for Applied Systems Analysis ; David Leclère, International Institute for Applied Systems Analysis ; Mario Herrero, International Livestock Research Institute; Erwin Schmid, University fuer Bodenkultur Wien; Michael Obersteiner, IIASA

Long Run Agricultural Projections within a General Equilibrium Context

Marijke Kuiper, LEI-Wageningen University; Hans Van Meijl, LEI-Wageningen University

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1119 Scanner Data and Nutrition Links: Early Findings and Future Research Directions

Dartmouth, 3rd Floor

Track Session – FSN and FAMPS Sections – Lightning Session

The U.S. Dietary Guidelines for Americans provide evidence-based nutrition guidance for Americans who wish to consume a healthy diet. They are the cornerstone of Federal nutrition policies and nutrition education. Scanner data provide a detailed look at what consumers purchase, but the nutrition information included is not sufficient to judge whether Americans are adhering to dietary guidance. USDA-ERS is developing a link between the Information Resources Inc. scanner data and USDA's extensive nutrition databases. When this project is complete, researchers will be able to both measure how individual products in the IRI data line up with dietary recommendations, and estimate local prices for foods reported consumed in National Health and Nutrition Examination Survey (NHANES).

This session will provide an overview for researchers who wish to use this new set of links. We will discuss how the links were created, how they were verified, and present some new findings on the healthfulness of ready-to-eat products. We will also discuss other potential uses of these data and how researchers can gain access.

Organizer: Andrea C. Carlson, USDA-Economic Research Service

Moderator: Abigail M. Okrent, USDA-Economic Research Service

Limitations of Using Nutrition Facts Panel Information for Nutrition Research

Ilya M. Rahkovsky, USDA-Economic Research Service

Nuts and Bolts of How the Links are Established and Why Links are Not Enough

Andrea C. Carlson, USDA-Economic Research Service; Thea Pamer Zimmerman, Westat; Sigurd Hermansen, Westat; Elina T. Page, USDA-Economic Research Service; Ilya M. Rahkovsky, USDA-Economic Research Service; Abigail M. Okrent, USDA-Economic Research Service

Quality Control: Is the Product Dictionary Clean Enough to Use for This Project?

Megan D. Sweitzer, USDA-Economic Research Service

Eating Out of the Box—How Healthy Is It?

Elina T. Page, USDA-Economic Research Service; Andrea C. Carlson, USDA-Economic Research Service; Ilya M. Rahkovsky, USDA-Economic Research Service

Linking IRI Data with Nutrition and Price Information

Xiaowei Cai, California Polytechnic State University; **Christiane Schroeter**, California Polytechnic State University; Richard Volpe, California Polytechnic State University; Lisa Mancino, USDA – Economic Research Service

Estimating the Effects of Food Prices and Access on Diet Quality in a Complete System of Food-at-home Demand

Chen Zhen, University of Georgia; Biing-Hwan Lin, USDA – Economic Research Service; Abigail Okrent, USDA – Economic Research Service; Shawn Karns, RTI; David Chrest, RTI

Big Data for Better Diets: Using Scanner Data to Assess Household Dietary Habits

Christiane Schroeter, California Polytechnic State University; Xiaowei Cai, California Polytechnic State University; Richard Volpe, California Polytechnic State University; Lisa Mancino, USDA – Economic Research Service

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1120 Under the Influence of Others: Jealousy, Risk-Sharing, and Learning

Exeter, 3rd Floor

Track Session – International and IBES Sections

The influence of social norms, emotion, altruism and other non-standard preferences is increasingly studied in the context of both developed and developing countries. The importance of societal influences, risk sharing, and learning are especially important in poor countries due to market imperfections such as imperfect insurance and savings markets, and imperfect information. In the presence of market failures, humans are likely to be even more social animals than in other contexts, and insights from behavioral economics offer alternative ways of explaining why decision-makers sometimes act in contradiction with standard models of homo economicus. This session is motivated by a belief that understanding the various departures from the standard model of homo economicus can help improve the design of anti-poverty programs and policies.

Organizer: Emilia Tjernström, University of Wisconsin

Discussant: Cynthia G. Kinnan, Northwestern University

Signals, Similarity and Seeds: Social Learning in the Presence of Imperfect Information and Heterogeneity

Emilia Tjernström, University of Wisconsin

Catching Up or Pulling Down? Motivations for Destructive Actions Among Dairy Farmers in Bolivia

Eliana Zeballos, University of California, Davis

Does Financial Inclusion Exclude? The Effect of Access to Savings on Informal Risk-Sharing in Kenya

Felipe Dizon, University of California, Davis

1121 What's Next? Tips on Securing a Job with an Agricultural or Applied Economics Degree

Fairfield, 3rd Floor

Track Session – GSS Section

Graduate students rightfully focus much of their attention on obtaining their degree. But the true end goal is to land a job for which that degree qualifies them. This session will step out of the coursework and research arena and present an inside look at the hiring process for Agricultural Economists. Attendees will learn from professionals in academia and industry and will gain valuable information to help navigate the job market. This session will be beneficial to anyone seeking to become a better job market candidate.

Organizers: Joshua G. Maples, Oklahoma State University; Clinton L. Neill, Oklahoma State University

Moderator: Clinton L. Neill, Oklahoma State University

Looking Back: Advice from a Recent Hire

Brady E. Brewer, University of Georgia

Another Path: Interviewing at the AAEA (ASSA) Meetings

Ariel Ortiz-Bobea, Cornell University

Looking in: An Industry Perspective

Mathew Salois, University of Florida

Tips from the Top: Insight from a Department Head

Paul N. Ellinger, University of Illinois at Urbana-Champaign

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1122 Consumer Preference for Food and Food Technology in China: Willingness to Pay and Willingness to Accept for Food Attributes Related to Perceived Risks, Credence Quality, Animal Welfare and Eco-Friendly

New Hampshire, 5th Floor

Track Session – China Section - Lightning Session

Food safety concern has been a top agenda in China for many years and it is still growing. Meanwhile, it has attracted attentions of policy makers and economists inside and outside of China. There is a growing body of research exploring consumers' willingness to pay (WTP) and willingness to accept (WTA) to consume safer agricultural products, for eco-friendly, for credence quality attribute, for perceived risk and information exposure, etc. Others study the effectiveness of the implementation of various monitoring mechanisms on food suppliers' behaviors toward food safety, such as food additives and food technologies. More research methods are evolving to better estimate the WTPs and WTAs, for instance, more researchers are using better-fit economic models or carrying out non-hypothetical experiments. A set of papers were included attempting to explore these important issues.

Organizer: Guzhen Zhou, Jiangxi University of Finance and Economics

Moderator: Wuyang Hu, University of Kentucky

Chinese Consumer Preference on Red Wine Attributes

Wuyang Hu, University of Kentucky; Ping Qing, Huazhong Agricultural University

Incorporating Incentive Compatible Consequentiality in Choice Experiments: Consumer Preference for Alaska Salmon in China

Qiuji Zheng, University of Alaska; Hong Holly Wang, Purdue University; Jason F. Shogren, University of Wyoming

Effects of Food Additives Information on Consumers' Risk Perceptions and Willingness to Accept: Based on a Random Nth-Price Auction

Yingqi Zhong, Zhejiang University; Zuhui Huang, Zhejiang University; Linhai Wu, Jiangnan University School of Business

Chinese Consumer Willingness to Pay for Pork with Credence Quality Attributes

Hao Dong, University of Kentucky; Wuyang Hu, University of Kentucky

An Alternative Approach to Estimate the Economic Loss of Porcine Epidemic Diarrhea (PED) via Data Envelopment Analysis: The Case in Taiwan

Shang-Ho Yang, National Chung Hsing University; Kenny Burdine, University of Kentucky; Wu-Yueh Hu, National Chung Hsing University

Are Consumers' Choice of Eco-Friendly Agri-products Driven by their Environmental Motives? Evidence from Choice Experiment in China

Liu Qing, Zhejiang University; Jiehong Zhou, Zhejiang University; Zhen Yan, Zhejiang University

Market Opportunities to Export Pork to China

John Lai, Purdue University; H. Holly Wang, Purdue University

Consumers' Preference of and Willingness to Pay for Food Nanotechnology in China

Guzhen Zhou, Jiangxi University of Finance and Economics; Dan Pan, Institute of Poyang Lake Eco-economics, Jiangxi University of Finance and Economics; Weidong Liao, Jiangxi University of Finance and Economics; Qing Xiao, Jiangxi University of Finance and Economics

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1123 Regulatory Costs in California Agriculture

Provincetown, 4th Floor

Track Session – AEM and Senior Sections

California agribusinesses face increasing regulatory costs. The combined effects of air, water, pesticide, and labor regulations drastically increases the cost of production in California relative to other states, and reduces farmers' ability to compete globally.

We discuss results of a 2014-16 study to assess the total cost of regulation on California agriculture at both the farm and regional level. Twenty-two case studies were completed with growers of various commodities, farm sizes, and locations. Detailed production budgets and regulatory costs were collected and the data was used to develop stochastic farm models to estimate the current cost of regulation and allow for marginal analysis of future possible regulation. Finally, a regional model was developed to assess the broader impact of regulation. Presenters will discuss findings and well as describe the current and potential future impact of regulation on California agriculture.

Organizers: Lynn L. Hamilton, California Polytechnic State University; Michael P. McCullough, California Polytechnic State University

Discussant: Jay Noel, California Polytechnic State University

Presenters: Lynn L. Hamilton, California Polytechnic State University; Duncan MacEwan, ERA Economics; Michael P. McCullough, California Polytechnic State University

1124 Issues about Agricultural Productions, Natural Resources and Human Capital Resources in China

Simmons, 3rd Floor

Track Session – China Section – Lightning Session

This session consists of eight papers closely related and centered on the topic of agricultural productions, natural and human capital resources in China. The first four papers addressed issues about production, natural resources, and their relations. Another two papers analyzed in depth specific questions during production process: the dairy industry and vegetable production. The last two papers selected provides the other aspect factor relating to the production—the human capital resources. One paper discussed the potential job candidate in the market, the college students and the last paper provides a discussion of leaders by using an investment experiment in China.

Organizer: Guzhen Zhou, Jiangxi University of Finance and Economics

Moderator: Yanhong Jin, Rutgers University

Are Resources Cursed? An Investigation of Chinese Provinces

Na Zuo, University of Kentucky; Jack Schieffer, University of Kentucky

Private R&D and Its Productivity in China's Agriculture

Yanhong Jin, Rutgers University; Carl E. Pray, Rutgers University; Ruifa Hu, Beijing Institute of Technology; Yahong Hu, Rutgers University

Adaptation to Climate Change and Rice Production in Southern China

Zhengfei Guan, University of Florida; Honggen Zhu, Jiangxi Agricultural University; Xi Liang, Jiangxi Agricultural University; Feng Wu, University of Florida

Relationship Between the Development of China's Sea and River Port Infrastructure and Dynamics in China's Import of U.S. Agricultural Products

Elizabeth Gooch, USDA-Economic Research Service

Whether Dairy Farmers' Loss Could be Reduced by Dairy Cattle Insurance—Base on Survey of the Dairy Cattle Mongolia Producer in the Inner Mongolia

Yuanfeng Zhao, Inner Mongolia Agricultural University; Xuguang Zhang, Inner Mongolia Agricultural University

Contract Farming in China: Perspectives of Smallholders in Vegetable Production

Xiaokang Li, Zhejiang University; Hongdong Guo, Zhejiang University

College Students on the Job Market and the Screening of Prospect Employers: Evidence from a Randomized Experiment in China

Jian Zhang, Central University of Finance and Economics; Tao Li, Central University of Finance and Economics; Haigang Wang, Central University of Finance and Economics

Are Leaders More Trustworthy? Evidence from an Investment Experiment in China

Haigang Wang, Central University of Finance and Economics; Tao Li, Central University of Finance and Economics; Jingyi Ma, Central University of Finance and Economics

Concurrent Sessions — Monday, 4:30 - 6:00 PM

1125 Crop Insurance: Opportunities and Challenges Facing the Industry

Vineyard, 4th Floor

Track Session – ARA Section

Current and future economic and policy opportunities and challenges facing the crop insurance industry will be addressed by a panel of leading experts from government, private industry, and academia. The discussion will focus on both domestic and international policy issues affecting the crop insurance industry and the implications for producer risk management options going forward.

Organizer: Oscar Vergara, Air Worldwide

Discussant: Keith H. Coble, Mississippi State University

Crop Insurance: Domestic Opportunities and Challenges Facing the Industry

Tom Zacharias, National Crop Insurance Services

Crop Insurance: Opportunities and Challenges Facing Program Administrators

Robert C. Johansson, USDA-Office of the Chief Economist

Crop Insurance: International Opportunities and Challenges Facing the Industry

Oscar Vergara, Air Worldwide; **Julia I. Borman**, Air Worldwide

1126 Food and Nutrition Issues in Sub-Saharan Africa

Wellesley, 3rd Floor

Track Session – COSBAE and International Sections

In this session, we focus on the supply and demand-side drivers of food choice and nutrition in Sub-Saharan Africa. The old narrative about food security was that poor people and countries suffered from undernutrition while rich countries suffered from “over-nutrition.” That narrative has been upended by the growing prevalence of obesity and chronic noncommunicable diseases such as diabetes in developing countries, even while undernutrition continues to be a problem. We present findings on the socioeconomic factors that influence dietary habits globally with a particular focus on the behavior of individuals and households in Sub-Saharan Africa.

Organizer: Andrew Muhammad, USDA-Economic Research Service

Discussant: Nicole M. Mason, Michigan State University

Tapping Irrigation’s Potential for Nutritional Outcomes in Sub-Saharan Africa

Dawit K. Mekonnen, International Food Policy Research Institute; Simone Passarelli, International Food Policy Research Institute; Elizabeth Basauri Bryan, International Food Policy Research Institute; Claudia Ringler, International Food Policy Research Institute

The Influence of Income and Prices on Global Food Choices: A Focus on Sub-Saharan Africa

Andrew Muhammad, USDA-Economic Research Service; Anna D’Souza, Baruch College, City University of New York; Birgit G. Meade, USDA-Economic Research Service; Renata Micha, Tufts University; Dariush Mozaffarian, Tufts University

Production Diversity, Dietary Quality, and Food Demand: Exploring Causality and Responsiveness in a Participatory Agricultural Research

Beliyon A. Haile, International Food Policy Research Institute; Carlo Azzarri, International Food Policy Research Institute; Josée Randriamamonjy, International Food Policy Research Institute; Cleophelia Roberts, International Food Policy Research Institute; John M. Ulimwengu, International Food Policy Research Institute