Types of Concurrent Sessions

**Invited Paper Sessions**

Invited Paper sessions are selected by the AAEA President and two additional Board members based on proposals submitted by AAEA members. These sessions are chosen because they may appeal to a broad spectrum of meeting attendees, further the development and dissemination of systematic knowledge in the field of agricultural and applied economics, and/or generate meaningful conversation. Invited Paper sessions generally involve 2-3 paper presentations and ample opportunity for discussion. Invited papers may also be published in the proceedings issue of the *American Journal of Agricultural Economics*.

**Invited Case Study Papers**

Invited Case Study Paper sessions are selected by members of the Case Study Committee based on proposals submitted by AAEA members. Papers presented in this session demonstrate how the application of economics principles to decision making in the public and/or private sectors lead to better decisions. Papers presented in this session may be published in the proceedings issue of the *American Journal of Agricultural Economics*.

**Organized Symposia**

Organized Symposia are selected by the AAEA President based on proposals submitted by AAEA members. They highlight work-in-progress and involve discussions of policy issues, research methods, emerging research results, teaching or outreach topics, and issues in professional organization. The format of a session may involve paper presentations, panel discussions, debates, roundtable meetings, or other formats.

**Selected Presentation Lightning Session**

New to the AAEA Annual Meeting is the Selected Presentation Lightning Session. This session includes 8 Selected Paper Presentations. Each presenter will have 9-10 minutes to present and discuss their paper.

**Session 2013: Food and Agricultural Marketing – Lightning Session**

Tuesday, July 29
9:45 am – 11:15 am
Greenway G, Second Level
See page 75 for more information.

**Selected Paper Presentations**

The term “Selected Presentations” refers collectively to Selected Papers and Selected Posters. Selected Paper Sessions include up to four paper presentations. Each paper presentation is given 20 minutes; 15 minutes to present and five minutes for discussion. A listing of sessions by subject can be found in the Topical Index, starting on page 111.

**Track Sessions**

Tracks are a set of multiple sessions submitted by AAEA Sections, scheduled throughout the meeting and devoted to a common interest area or topic. Sessions can be organized by a single Section or by multiple Sections to cover a wider range of topics. Track session listings by Section can be found in the Topical Index, starting on page 111.
Concurrent Sessions — Monday, 9:45 AM - 11:15 AM

1001  Cost Effective and Ecologically Effective Land Protection for Nature Conservation  
Regency, Second Level

Invited Paper and AERE, ENV, and CRENRET Section Track Session
This session provides a comprehensive study on ecological and economic effectiveness of land conservation. These three papers present cost measurement, benefit measurement, and prioritization tools that combine cost and benefit measurements of land conservation. The coherent theme deals with current needs of nature conservation under an increasingly growing demand for land conservation and increasingly limited conservation resources.

Organizer: Seong-Hoon Cho, University of Tennessee
Moderator: Seong-Hoon Cho, University of Tennessee
Discussant: Robert Haight, US Forest Service

Are There Economies of Scale in Cost Effective and Ecologically Effective Land Acquisition for Nature Conservation?  
Seong-Hoon Cho, University of Tennessee; Taeyoung Kim, University of Tennessee; Eric Larson, University of Tennessee; Paul Armsworth, University of Tennessee

The Effect of Protected Areas on Ground Cover: Evidence from Mexico  
Alexander Pfaff, Duke University; Francisco Santiago-Ávila, Resources for the Future; Lucas Joppa, Microsoft

Welfare and Biodiversity Tradeoffs in Urban Open Space Protection in the United States  
Liala Tajibaeva, University of Minnesota; Robert Haight, US Forest Service; Stephen Polasky, University of Minnesota

1002  Non-standard Risk Contracting in Agriculture and Fisheries  
Northstar A, Second Level

AFM and ARA Section Track Session
Food producers without access to the largesse of the US Federal crop insurance programs are often forced to manage risk more traditionally, through the use of futures, forwards and options contracts. However, as with mainstream crop insurance, these contracts have limited availability for produce farmers, aquaculturalists and fisheries, and for farmers in the developing world. For these underserved groups, alternative risk sharing arrangements have emerged. Community supported agriculture contracts (CSAs) and their fisheries counterpart, CSFs (in Japan), allow producers to substitute high-priced items/species out of consumer deliveries, so the contracts contain an option value providing superior risk management to producers at potentially lower cost. A challenge is to monitor the frequency of unfavorable substitutions, as multi-season renewal rates are often low. In the developing world, risk contingent credit arrangements allow for partial/complete non-repayment of loans for dairy farmers experiencing severe drought. These contracts embed an option value critical for the functioning of the Kenyan dairy industry, where limited capital and no access to forward contracting make loans difficult to secure with collateral. The session will combine results from theory, field experiments, and surveys of consumer preferences.

Organizer: Thomas Sproul, University of Rhode Island
Moderator: Thomas Sproul, University of Rhode Island

A Field Study for Assessing Risk Contingent Credit for Kenyan Pastoralists and Dairy Farmers  
Apurba Shee, International Livestock Research Institute; Calum Turvey, Cornell University; Joshua Woodard, Cornell University

Forward Contracting and Option Value in Community Supported Agriculture (CSAs)  
Thomas Sproul, University of Rhode Island

Member Retention and Contract Terms in Community Supported Fisheries (CSFs)  
Hirotugu Uchida, University of Rhode Island; Eini Uchida, University of Rhode Island
Concurrent Sessions — Monday, 9:45 AM - 11:15 AM

1003  Hunger and Hope: Progress in Reducing Poverty and Fostering Food Security in the Developing World
Lakeshore C, Main Level

**International and Senior Section Track Session**
A panel of agricultural development experts will address where the world currently stands with respect to poverty and malnutrition, where progress has been made and why, and what needs to occur in agricultural development to foster future gains in food security. One panelist will focus on poverty, a second on nutrition, a third on technical change and productivity growth in agriculture, and a fourth on institutional changes that affect agriculture. The latter two panelists will highlight how and where improved agriculture technologies and institutional changes have made a difference, who was responsible for those changes, and what technical and institutional changes are needed in the future in light of climate change, continued population growth, growing water scarcity, and persistent conflict in many countries. This international and senior track session is sponsored in part by the Blue Ribbon Development Panel of C-FARE, which is charged with identifying cutting edge solutions to international agricultural development problems that are being developed around the world, and communicating those solutions to a broad audience of practitioners and supporters of agricultural development programs.

**Organizer:** George Norton, Virginia Polytechnic Institute and State University

**Discussant:** George Norton, Virginia Polytechnic Institute and State University

- **Poverty: How Far Have We Come; Where Will We Go?**
  **Jeffrey Alwang**, Virginia Polytechnic Institute and State University

- **Global Food Security: Nutritional Status and Prospects for the Future**
  **William Masters**, Tufts University

- **Agricultural Productivity Growth: What Happened, How, Who is Responsible, the Road Ahead**
  **Paul Heisey**, USDA-Economic Research Service

- **The Critical Role of Institutions: What have We Learned?**
  **Michael Carter**, University of California, Davis

1004  Consumer Labeling Issues
Lakeshore A, Main Level

**FAMPS and FSN Section Track Session**
Labeling is one piece of a larger collaborative risk communication strategy. Labeling helps consumers to establish or reestablish individual control over consumption, leveling the playing field for making consumption decisions. Especially relevant for experience and credence goods, effective labeling initiatives can benefit both producers and consumers. This session examines three contemporary labeling issues. While the labeling of genetically engineered foods (or ingredients) is not new, the debate over labeling continues. Issues of food fraud, where a lack of labeling standards may allow adulterated or fraudulent ingredients into the marketplace has grown and, new technologies may make it easier for consumers to utilize available information. This session includes four papers that examine food labeling issues. Kolodinsky and Reynolds provide a historical perspective on consumer attitudes toward and demand for GMO labels. Pendell describes the current legislative landscape regarding GM labeling in Colorado. Derrick Jones presents a paper on horse meat food fraud. Diogo de Souza Montiero, Ben Lowe, and Iain Fraser present an analysis of willingness to pay for new technologies that provide product information.

**Organizer:** Jane Kolodinsky, University of Vermont

- **Information-seeking and Demand for GM Labeling in Vermont since 2000**
  **Jane Kolodinsky**, University of Vermont; **Travis Reynolds**, Colby College

- **GMO Labeling Legislative Update: The Colorado Experience**
  **Dustin Pendell**, Colorado State University

- **Willingness-to-Pay for Technology to Improve Access to Nutritional, Diet and Allergy Information in Retail Environments**
  **Diogo Souza Monteiro**, University of Kent; **Ben Lowe**, University of Kent; **Iain Fraser**, University of Kent

Fourth Presentation
**TBD**
Concurrent Sessions — Monday, 9:45 AM - 11:15 AM

Greenway A, Second Level

IBES Section Track Session
Given the current trends in obesity, a significant amount of attention has been devoted to identifying and understanding the factors that influence food choices. Traditional economic models generally assume that prices and income are the main factors that contribute to food selection. Unfortunately, these models ignore the everyday situations and surroundings in which consumers live. Research in the behavioral sciences shows that emotions, environments, and situations can greatly influence choice, especially when dealing with food. Recent advances in technology have generated opportunities for using fMRI machines in understanding the neural pathways associated with food selection. Research in this area has generated greater insights into consumer behavior as decisions in various contexts can be linked to specific neural activity.

In this session, experts in behavioral economics and food choice will identify key behavioral factors and neural mechanisms that influence what consumers choose. In the first presentation, research will be presented that shows how in a setting where food options have been restricted, choice architecture can generate the perception of an expanded choice set and avoid the reactance associated with heavy-handed policies. The next two presentations will provide evidence documenting the influence of visual cues, social pressure, informational nudges, and pre-ordering on selection and consumption of fruits, vegetables, and other nutrient-rich foods in school lunchrooms. The session will conclude with a presentation highlighting the neural pathways associated with food choice when individuals choose between foods processed with different technologies. Research presented in this session will provide greater insights into consumer behavior that can be leveraged to nudge individuals toward healthier lifestyles.

Organizer: Andrew Hanks, Cornell University
Moderator: David Just, Cornell University

Perceived Choice: Using Choice Architecture to Reduce Reactance in Food Choice
Andrew Hanks, Cornell University; David Just, Cornell University; Brian Wansink, Cornell University

Effects of Informational Nudging on Pre-ordered Fruit and Vegetable Choices of Middle School Students
Jaclyn Kropp, University of Florida; Sonam Gupta, University of Florida

Can Lunchroom Nudges Develop Healthy Taste Buds in Elementary School Children?
Janani Rajbhandari Thapa, Texas Tech University; Conrad Lyford, Texas Tech University

Predicting Consumer Choice in Food Price-Technology Tradeoffs Using Functional Magnetic Resonance Imaging
Jayson Lusk, Oklahoma State University; John Crespi, Kansas State University; J. Bradley Cherry, University of Missouri-Kansas City; Brandon McFadden, Oklahoma State University; Laura Martin, University of Kansas

1006 Washington Policy Update by Chief Economists from the House and Senate Ag Committees
Mirage, Second Level

Extension Section Track Session
Congress deals with a broad range of policy issues—from long-standing, agriculture-specific issues such as commodity, conservation, and trade programs, to newer, cross-cutting issues such as energy and climate change. The presenters will provide their perspectives on policy issues affecting agriculture based on their work for the Congress, as well as perspectives on farm bill development. They also will seek comments and insights on issues from session attendees.

Organizer: Steven Klose, Texas A&M University

Farm Policy Outlook: Perspective from the House Majority
Bart Fischer, US House of Representatives

Farm Policy Outlook: Perspective from the Senate Minority
Keith Coble, Mississippi State University

Farm Policy Outlook: Perspective from the Senate Majority
Joe Shultz, Senate Committee on Agriculture, Nutrition & Forestry
Concurrent Sessions — Monday, 9:45 AM - 11:15 AM

1007  Teaching Tips from AAEA Award Winners
Greenway C, Second Level

GSS and TLC Section Track Session
This session offers the opportunity for AAEA Teaching Award recipients to share teaching tips and have a dialogue with AAEA members. The emphasis is on winning strategies that have worked for them; the approaches, techniques, and/or teaching styles they consider to be instrumental to their success in the classroom. While they may utilize specific subject-matter examples to illustrate their points, the emphasis will be on pedagogical approaches to improving education in our profession.

The goal is to share ideas on what successful teachers are doing in and out of the classroom to facilitate learning. Contributions from audience members, in the form of shared experiences, questions, and observations, are both welcomed and considered a key part of this organized symposium. The session will open with a brief introduction and overview (five minutes) by the moderator. Each of the four presenters will then briefly comment on their successful strategies (15 minutes each) after which the moderator will facilitate a discussion among the presenters and the audience (30 minutes). Presenters are expected to provide the audience with written outlines of their major points.

Organizer: Aaron Johnson, University of Idaho

Presenters: TBD

1008  Agribusiness Data: Where Do We Get It? What Are The Questions We Should Be Answering? And What Big Data Means for Our Research
Greenway B, Second Level

AEM Section Track Session
This track session focuses on the emerging and nontraditional data sources available to agribusiness researchers. Three of the panelists will provide a brief discussion of three sources of data that are not only underutilized in Agribusiness research but also have the potential to contribute significantly to our research endeavors. The final panelist will provide a brief discussion on the pressing issues we need to answer in agribusiness and how these data sources help us accomplish this. The remainder of the session will be open to discussion with the panelists to inquire about the databases and how to use them. It is also our hope that audience members will also share with others databases they are using in their research as well as pressing questions we need to answer in agribusiness.

Organizer: Joshua Detre, Louisiana State University

Moderator: Robert Brent Ross, Michigan State University

Big Data and How We Can Use It in Agribusiness Research
Allan Gray, Purdue University

Utilizing Compustat and CRSP Data in Agribusiness Research
Ani Katchova, University of Kentucky

Data Sources for Food Industry Analysis
Robert Harrison, Louisiana State University

What Are the Questions We Need to Be Answering?
Michael Gunderson, Purdue University

1009  Agricultural Impacts on US National and Regional Accounts
Northstar B, Second Level

Organized Symposium
This purpose of this session is to present and discuss agricultural impacts on the U.S. national and regional accounts pertaining to GDP and personal income as estimated by the Bureau of Economic Analysis in the U.S. Department of Commerce. Emphasis will be on the impacts of recent droughts, crop insurance payments, other federal agricultural programs, agricultural exports, and agricultural prices. Differential impacts of various agricultural factors on the national and regional economies will be highlighted.

Moderator: Sarahelen Thompson, Bureau of Economic Analysis

Panelists: Carrie Litkowski, Bureau of Economic Analysis; Sarahelen Thompson, Bureau of Economic Analysis; James Zavrel, Bureau of Economic Analysis
Concurrent Sessions — Monday, 9:45 AM - 11:15 AM

1010 Leadership, Legacy, and Love – Remembering Dr. Sylvia Lane, her Contribution to AAEA and Impacts on Emerging Scholars
Greenway J, Second Level

Organized Symposium
This symposium will offer an opportunity for scholars to share their own experiences from working with Dr. Lane in their career; share the influence and impact of Sylvia Lane Special Purpose Fund on their career and professional development; and exchange ideas to further develop and enhance mentoring services, financial support, and other services.

Organizer: Kathleen Liang, University of Vermont
Panelists: Mary Ahearn, USDA-Economic Research Service; Jean Kinsey, University of Minnesota; Vicki McCracken, Washington State University

1011 Grain Markets and Price Discovery
Greenway D, Second Level

Selected Paper Presentation
This session discusses corn and grain production and marketing strategies with an emphasis on price discovery. Various econometric methods are used to test price discovery hypothesis as well as a paper on mixed oligopolies in the grain market.

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

Pricing under Uncertainty in Agricultural Grain Markets and the Objectives of Cooperatives: A Mixed Oligopoly Analysis
Ziran Li, Iowa State University; Hang Qian, Iowa State University

Causality and Price Discovery in US Corn Markets: An Application of Error Correction Modeling and Directed Acyclic Graphs
Xiaojie Xu, North Carolina State University; Wally Thurman, North Carolina State University

Economic Role of Corn Price Discovery in US Corn Cash and Futures Markets: The Role of Cash Market Selection
Xiaojie Xu, North Carolina State University; Wally Thurman, North Carolina State University

Economic Role of Corn Production and Marketing Systems in the Midwest US
Sangnyeol Jung, Southwest Minnesota State University; Peter Wui, University of Arkansas

1012 Agricultural Commodity Price Transmission and Market Linkage
Greenway E, Second Level

Selected Paper Presentation
This session focuses on empirical applications that examine the transmission of prices and market linkage in the US broccoli, timber, beef and lumber markets.

Moderator: Daniel Toro-Gonzalez, Universidad Tecnologica de Bolivar

Examining Spatiotemporal Market Integration in the US Broccoli Market: Implications for the Eastern Broccoli Industry
Xiaoli Fan, Cornell University; Miguel Gomez, Cornell University; Juan Nicolas Hernandez-Aguilera, Cornell University; Shady Atallah, Cornell University

Testing Timber Market Linkages with a STAR Model with Housing Start-Controlled Transitions
Harrison Hood, University of Georgia; Jeffrey Dorfman, University of Georgia

Asymmetric Vertical Price Transmission in the US Beef Sector: Differences among Product Cuts and Quality Grades
Prasanna Surathkal, Oklahoma State University; Chanjin Chung, Oklahoma State University; Sungill Han, Konkuk University

Spatial Price Transmission and Market Linkages in US Framing Lumber Markets
Evan Rogers, North Carolina State University
Concurrent Sessions — Monday, 9:45 AM - 11:15 AM

1013 Economic Impacts of Climate Change
Greenway F, Second Level

Selected Paper Presentation
Papers in this session study the impacts of climate change on economic activity with a specific focus on the agricultural sector. The impacts of climate change on yields, food prices and food security are considered.

Moderator: Mahesh Ramachandran, Cape Cod Commission

Climate Change, Monsoon Dynamics, and Tea Production in China
Rebecca Boehm, Tufts University; Sean Cash, Tufts University; Tim Griffin, Tufts University; Bruce Anderson, Boston University; Selena Ahmed, Montana State University; Colin M. Orians, Tufts University; Albert Robbat, Jr., Tufts University; Wenyan Han, Tea Research Institute, Chinese Academy of Agricultural Sciences; Richard Stepp, University of Florida

Raising the Temperature on Food Prices: Climate Change, Food Security, and the Social Cost of Carbon
Peter Howard, New York University - Institute for Policy Integrity; Thomas Sterner, University of Gothenburg

The Impacts of Decadal Climate Variability on Crop Yields in Missouri River Basin: A Bayesian Approach
Pei Huang, Texas A&M University; Bruce McCarl, Texas A&M University

The Welfare Impacts of a Conservation Easement
James Vercammen, University of British Columbia

1014 Methods in Food and Agricultural Marketing
Greenway G, Second Level

Selected Paper Presentation
Researchers share methods used to better estimate consumer and market behavior.

Moderator: Gayaneh Kyureghian, Korea University

Assessing the Impact of Fresh Vegetable Growers’ Risk Aversion Levels and Risk Perception on the Probability of Adopting Marketing Contracts: A Bayesian Ordered Probit Analysis
Michael Vassalos, Clemson University; Yingbo Li, Clemson University

Demand for Organic/Non-Organic Non-alcoholic Beverages in the United States: Application of Semiparametric Estimation of Censored Quadratic Almost Ideal Demand System (C-QUAIDS) with Household-Level Micro Data
Senarath Dharmasena, Texas A&M University; Oral Capps, Jr., Texas A&M University

Visual Attribute Non-Attendance in a Food Choice Experiment: Results from an Eye-tracking Study
Ellen Van Loo, Ghent University; Rodolfo Nayga, University of Arkansas; Han-Seok Seo, University of Arkansas; Wim Verbeke, Ghent University

1015 Biotechnology Economics
Greenway H, Second Level

Selected Paper Presentation
This session analyzes the economics of biotechnology, the management of biotechnology, and the impact of biotechnology.

Moderator: Marin Bozic, University of Minnesota-Twin Cities

More of Less Isn’t Less of More: Assessing Environmental Impacts of Genetically Modified Seeds in Brazilian Agriculture
Renato Seixas, University of California, Berkeley; José Maria Silveira, State University of Campinas

An Economic Analysis of Nanofood Labeling
Van Tran, University of Nebraska; Amalia Yiannaka, University of Nebraska; Konstantinos Giannakas, University of Nebraska

Don’t Farm So Close to Me: Testing Whether Spatial Externalities Contributed to the Emergence of Glyphosate-Resistant Weed Populations
Dallas Wood, North Carolina State University
This session presents work on the relationships between dietary health and recession. More specifically, the impact of the great recession and job security on food choices are discussed. Also, preferences of pregnant women on dietary supplements are presented and quality and safety characteristics of duck on entrée choice are presented.

**Moderators:** Annemarie Kuhns, USDA-Economic Research Service; Trenton Smith, University of Otago

- Assessing the Impact of the Great Recession on Healthfulness of Food Purchase Choices
  **Annemarie Kuhns,** USDA-Economic Research Service; **Richard Volpe, III,** USDA-Economic Research Service

- Is Job Insecurity Making Australians Fat? Evidence from Panel Data on Perceived Risk of Job Loss
  **Philippa Currie,** University of Otago; **Trenton Smith,** University of Otago; **Steven Stillman,** University of Otago

- A Discrete Choice Experiment to Understand Women's Preferences for Nutritionally Enhanced Food and Dietary Supplements During Pregnancy
  **Lenka Malek,** University of Adelaide; **Wendy Umberger,** University of Adelaide; **Terry Flynn,** University of South Australia; **Shao Zhou,** University of Adelaide; **Maria Makrides,** University of Adelaide

- Consumer Preference for Quality and Safety Attributes of Duck in Restaurant Entrees: Is China a Market for the US Duck Industry?
  **Hong Holly Wang,** Purdue University; **Rachel Carnegie,** Purdue University; **Nicole Widmar,** Purdue University; **David Ortega,** Michigan State University

**1017** The Role of Social Networks in Rural Livelihoods and Food Security: Evidence from Pakistan, India, and Tanzania.

**Lakeshore B, Main Level**

**Selected Paper Presentation**

The papers in this session explore the role of social networks in technology adoption, natural resource management, food security, and income diversification.

**Moderator:** Subbu Kumarappan, The Ohio State University

- The Role of Social Network in an Imperfect Market for Agricultural Technology Products: Evidence on Bt Cotton Adoption in Pakistan
  **Xingliang Ma,** International Food Policy Research Institute; **David Spielman,** International Food Policy Research Institute; **Hina Nazli,** Pakistan Strategy Support Program; **Fatima Zaidi,** International Food Policy Research Institute; **Patricia Zambrano,** International Food Policy Research Institute; **Shahzad Kouser,** University of Agriculture, Faisalabad, Pakistan

- Role of Social Networks in Diversification of Income Sources in Rural India
  **Judit Johny,** University of Alberta; **Brent Swallow,** University of Alberta; **Bruno Wichmann,** University of Alberta

- Gift Giving, Kinship Network and Household Food Security in Rural Tanzania: The Way they Give
  **Shaoyan Sun,** University of Alberta; **Henry An,** University of Alberta; **Philippe Andre Marcoul,** University of Alberta

- The Impact of Water Users’ Associations on the Productivity of Irrigated Agriculture in Pakistan
  **Dawit Mekonnen,** International Food Policy Research Institute; **Hira Channa,** Pakistan Strategy Support Program; **Claudia Ringler,** International Food Policy Research Institute
Concurrent Sessions — Monday, 9:45 AM - 11:15 AM

1018  Observable and Unobservable Factors Affecting Quality and Varietal Adoption in Africa and Asia
Lake Superior A, Fifth Level

Selected Paper Presentation
This session investigates the observable and unobservable factors that affect staple crop prices and varietal adoption in both Africa and Asia. Papers in this session address issues that include health, consumer preference and food security.

Moderator: William Burke, Stanford University

Maize Prices and Unobservable Quality: Evidence from Aflatoxin Tests in Kenya
Christine Moser, Western Michigan University; Vivian Hoffmann, University of Maryland; Romina Ordonez, University of Maryland

Dynamics of Modern Wheat Varieties on Farms in Pakistani Punjab: A Duration Analysis
Hina Nazli, Pakistan Strategy Support Program; Melinda Snale, Michigan State University

Impacts of Improved Bean Varieties on Food Security in Uganda and Rwanda
Catherine Larochelle, Virginia Polytechnic Institute and State University; Jeffrey Alwang, Virginia Polytechnic Institute and State University

Procurement of Fresh Produce by Modern Marketing Channels and their Impact on Farming Household - Evidence from India
Rajib Sutradhar, Jawaharlal Nehru University

1019  Broad Topics in International Trade
Lake Superior B, Fifth Level

Selected Paper Presentation
Moderator: Tim Graciano, Ernst & Young

The Impact of the African Growth and Opportunity Act (AGOA): An Empirical Analysis of Sub-Saharan African Agricultural Exports
Addisalem Zenebe, University of Nebraska; E. Wesley Peterson, University of Nebraska; Kassu Wamisho, University of Nebraska

Examining the Trade Adjustment Assistance for Farmers in the U.S.: Role of Information and Incentives in Program Participation
Ya Na Lee, University of Minnesota; Nancy Chau, Cornell University; David Just, Cornell University

Environmental Regulation and Competitiveness: Evidence from Trade and Production in the Manufacturing Sector
Tsung Yu Yang, North Carolina State University

Towards a Global Carbon Dioxide Market: Shadow Pricing CO2 Across Countries
Flavius Badau, Oregon State University

1020  Shale Gas and Wildfire
Lake Harriet, Fourth Level

Selected Paper Presentation
This session includes two papers addressing wildfire risk management and two papers examining the effects of shale oil and gas development on agricultural and biofuel industries and on local housing markets.

Moderator: Michael Hand, US Forest Service

Spatial Interactions in Wildfire Risk Management Decisions
Gwenlyn Busby, Virginia Polytechnic Institute and State University; Richelle Geiger, Virginia Polytechnic Institute and State University; D. Evan Mercer, Southern Research Station

Attitudes and Private Investment to Mitigate Natural Disaster Risk: Explaining Homeowner Investment in Defensible Space in the Wildland-Urban Interface
Laine Christman, University of Nevada, Reno; Kimberly Rollins, University of Nevada, Reno; Michael Taylor, University of Nevada, Reno

Shale Oil and Gas Booms: Consequences for Agricultural and Biofuel Industries
Farzad Taberipour, Purdue University; Wallace Tyner, Purdue University

Boomtowns and the Nimbleness of the Housing Market: An Investigation into the Impact of Shale Oil and Gas Drilling on Local Housing Markets
Michael Farren, The Ohio State University
Concurrent Sessions — Monday, 9:45 AM - 11:15 AM

1021  Diverse Topics
Minnehaha, Second Level

Selected Paper Presentation
Papers in this session address a variety of issues in production economics.

**Moderator:** Raymond Massey, University of Missouri

A Hedonic Model of Corn Seed Price
**Jorge Fernandez-Cornejo, USDA-Economic Research Service; Karen Valle, USDA-Economic Research Service**

Exploring Agricultural Production Systems: Interactions between Crop and Livestock Sectors
**Dong Hee Suh, University of Florida; Charles Moss, University of Florida**

Contracting in the Presence of Insurance: The Case of Bioenergy Crop Production
**Xi Yang, University of Illinois at Urbana-Champaign; Ruiqing Miao, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign**

1022  Household Environmental Behavior
LaSalle, Second Level

Selected Paper Presentation
This session presents four papers that use detailed datasets to examine household energy use and recycling. Policy effectiveness in reducing energy use or increasing adoption is analyzed.

**Moderator:** Kathleen Segerson, University of Connecticut

Solar Photovoltaic Technology Adoption in the United States: An Empirical Investigation of State Policy Effectiveness
**Ilya Chernyakhovskiy, University of Massachusetts Amherst; Christine Lasco Crago, University of Massachusetts Amherst**

An Empirical Analysis of Residential Adoption of Energy Efficiency by Different Housing Types and Occupancy
**Kelly Miller, University of Massachusetts Amherst; Francesca Colantuoni, University of Massachusetts; Christine Lasco Crago, University of Massachusetts Amherst**

Crunch the Can or Throw the Bottle? Effect of “Bottle Deposit Laws” and Municipal Recycling Programs
**Benjamin Campbell, University of Connecticut; Hayk Khachatryan, University of Florida; Bridget Behe, Michigan State University; Charles Hall, Texas A&M University; Jennifer Dennis, Purdue University**
### Concurrent Sessions — Monday, 1:00 PM - 2:30 PM

#### 1023  Adapting to Climate Change: Water Resources, Extreme Weather Events, and Agricultural Sustainability

**Regency, Second Level**

**Invited Paper**

Under climate change, the rising frequency of serious extreme weather events has challenged agriculture production efficiency and productivity growth. The vulnerability of agriculture to climate change will depend, in part, on its ability to adapt to changing production conditions. Designing appropriate adaptation measures to extreme weather events requires rigorous and empirical analysis. Therefore, the goal of this session is to present studies from different perspectives in addressing the impacts of climate change.

**Organizers:** Paul Heisey, USDA-Economic Research Service; Sun Ling Wang, USDA-Economic Research Service

**Moderator:** Virgil Eldon Ball, USDA-Economic Research Service

**Discussant:** C. Richard Shumway, Washington State University

**Farmer’s Adaptation to Extreme Weather Events and Its Determinants in China**

**Jikun Huang, Chinese Academy of Sciences**

**Agricultural Production under Climate Change: The Potential Impacts of Shifting Regional Water Balances in the US**

**Elizabeth Marshall, USDA-Economic Research Service**

#### 1024  Effective Approaches to Working with Hard-to-Contact Limited Resource Agricultural Producers

**Lakeshore B, Main Level**

**COSBAE and CWAE Section Track Session**

Mainline extension programs frequently miss the specific needs of hard-to-contact limited resource and socially disadvantaged agricultural producers. Well-crafted partnerships between public and private organizations involving the government, higher education and the private sector hold the key to effectively addressing the needs of this client group. Four presenters will discuss some of successful and effective strategies used to work with this client group. The presenters represent extension, private industry, and community based organizations. The discussion will center on broad application of these strategies with specific examples from around the United States. Justification: Small, limited resource and socially disadvantaged agricultural producers are valuable members of rural communities. Frequently, it is from this population that new approaches to production and marketing are developed, out of the shear necessity for survival. Moreover, mainline programs (production, education, marketing, etc.) typically miss the specific needs of these individuals. Frequently, this group of producers or farming community is difficult to contact using traditional extension channels or approaches. Identifying feasible approaches and credible organizations to address their needs is key and pivotal to ensuring the survival of this often neglected clientele.

**Organizers:** Blondel Brinkman, USDA-Animal and Plant Health Inspection Service; Duncan Chembezi, Alabama A&M University; Laurence Crane, National Crop Insurance Services

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

**Discussant:** Duncan Chembezi, Alabama A&M University

**Panelists:** Ntam Baharanyi, Tuskegee University; Laurence Crane, National Crop Insurance Services; Albert Essel, Virginia State University; Ronald Rainey, University of Arkansas
Concurrent Sessions — Monday, 1:00 PM - 2:30 PM

1025  Role of Credit in Economic Performance of Rural Areas
      Lakeshore C, Main Level

AFM and CRENET Section Track Session
Credit has been an important lifeline to rural communities. As wealth creation becomes a greater focus of economic development efforts in rural America, issues surrounding the financing of rural asset investments become increasingly important. This session provides a contemporary evaluation of the role of credit and institutions providing credit on the economic performance of rural places. The first paper studies the link between agricultural and rural credit and economic growth in rural counties. The second paper examines the role of the recent recession on the capital adequacy of Farm Credit System wholesale banks. The third paper explores the efficiency of rural financial institutions, specifically credit unions in rural counties.

Organizer: James Fannin, Louisiana State University
Moderator: James Fannin, Louisiana State University

Role of Agricultural and Rural Credit Growth on Economic Performance in Rural Counties
Denis Nadolnyak, Auburn University; Valentina Hartarska, Auburn University; Xuan Shen, Auburn University

Farm Credit: Reliable Credit for Rural America?
Jeremy D’Antoni, USDA-Economic Research Service

Notions of Efficiency with Rural Credit Unions
Steven Deller, University of Wisconsin; Jean-Paul Chavas, University of Wisconsin

1026  Food Quality and Trade
      Lake Superior B, Fifth Level

FAMPS and International Section Track Session
This session focuses on three aspects of the connection between food quality and trade: (1) Luisa Menapace and GianCarlo Moschini provide an overview of key institutional aspects of Geographical Indications (GIs), including differing national policies and international harmonization efforts (TRIPS agreement), with an emphasis on their role in the provision of quality in agri-food markets. The implications for international trade in GI products that can be derived from the existing theoretical literature on the economics of GIs will also be discussed. Data on trade flows of GI products will then be used to illustrate some of potential implications of the ongoing debate on alternative approaches to the international protection of GI rights. (2) Alessandro Olper and Daniele Curzi review the role of product quality in recent firm heterogeneity models, followed by a discussion of methods to infer product quality from trade data, and how to analyze the effects of trade liberalization in the origin country, and/or the diffusion of voluntary food standards in the destination market, on the rate of quality upgrading in food export markets. (3) Ian Sheldon and Brian Roe extend existing work on credence goods and trade, to include a “diagnosis” stage whereby ill-informed consumers rely on a third party to certify that a food product has beneficial characteristics, e.g., shade-grown coffee is good for the environment. This compares to existing models of credence goods which focus only on a “treatment” stage, i.e., the coffee is simply certified as having been shade-grown. Adding the diagnosis stage allows for “deep capture” by food producers who attempt to influence regulatory outcomes on what quality claims can be made about food products, which has implications for the analysis of equilibrium food quality as well as trade flows.

Organizer: Ian Sheldon, The Ohio State University
Moderator: Jill McCluskey, Washington State University

Geographical Indications and International Trade in Agri-food Products
Luisa Menapace, Technische Universität München; GianCarlo Moschini, Iowa State University
Firms, Trade and Food Quality Upgrading
Daniele Curzi, University of Milan; Alessandro Olper, University of Milano
Certification, Food Quality Standards and Trade
Ian Sheldon, The Ohio State University; Brian Roe, The Ohio State University
FSN and Senior Section Track Session

Given changes for food safety net programs in the new Farm Bill, innovative food access programs must be developed or enhanced. This session outlines the current state of food security policy in the U.S. and presents several ways in which the not-for-profit and private sectors are stepping up their initiatives to decrease food insecurity. The session concludes with a discussion of areas of research that can provide evidence as to improving the efficacy of, and exploration of new food delivery channels that can lead to decreased food security and improved nutrition while improving the economics conditions of communities.

Organizer: Jane Kolodinsky, University of Vermont
Moderator: Craig Gundersen, University of Illinois at Urbana-Champaign
Discussant: Jean Kinsey, University of Minnesota
The Current State of the Food Security Safety Net
Craig Gundersen, University of Illinois at Urbana-Champaign
NGO Sector Innovations
Rob Zeaske, Second Harvest
Private Sector Innovations
Sarah Geisert, General Mills, Inc.
Current Evidence and Future Research Needs for Community Food Security and Health
Jane Kolodinsky, University of Vermont

Behavioral Finance: Insurance, Loans, and Timing of Home Ownership
Greenway A, Second Level

IBES Section Track Session

This session aims to present and discuss the use of behavioral and experimental economics to empirically test and model individual decision-making involving risk. Topics cover insurance demand with choice-set-dependent preferences; relative efficiency of costly incentives and almost costless information in loan decisions; and the timing of homeownership as a function of credit constraints and future price expectations. Discussion will be focused on the power of experiment in establishing reliable causal inference, the strategies to distinguishing behavioral patterns from competing explanations, and policy implications that can inspire more cost-effective program designs.

Organizer: Jessica Cao, University of Guelph
Moderator: Travis Lybbert, University of California, Davis
Discussant: Christopher Barrett, Cornell University
Optimal Insurance Contract Design When Consumers Exhibit Choice-Set-Dependent Preferences
Jing Cai, University of Michigan
Costly Incentives and Costless Information in Loan Decision: A Framed Field Experiment on China’s Responsibility System for Rural Credit
Jessica Cao, University of Guelph; Calum Turvey, Cornell University
Rushing into American Dream? House Prices, Timing of Homeownership, and Adjustment of Consumer Credit
Xing Huang, Michigan State University; Sumit Agarwal, National University of Singapore; Luojia Hu, Federal Reserve Bank of Chicago
Applications of Hierarchical Regression Models in Development Economics

Lake Superior A, Fifth Level

Econometrics and International Section Track Session

Although used widely outside of economics, hierarchical or mixed models have received relatively little attention by agricultural and applied economists. As research continues to take advantage of datasets constructed and assembled from multiple sources, utilizing data observed at different spatial or organizational scales, the scope for hierarchical estimation techniques expands. This is especially true in the context of development economics, where household data are increasing merged with institutional and geospatial data to draw statistical inferences about the importance of the economic, policy and physical environments in which economic decisions are made. This session focuses attention on the design and application of mixed model regression techniques. We provide a broad overview of the advantages and uses of hierarchical models, and provide examples from developing country contexts that include the incorporation of geospatial and institutional levels of analysis in the context of household- and individual-level analysis. We expect the topic to attract a wide audience given the focus on new methods and a range of innovative applications. Note that the session includes only three presentations in order to maximize discussion among those in attendance.

Organizer: Gerald Shively, Purdue University

Hierarchical Models: Some History, A Primer and An Application
Garth Holloway, University of Reading

Crop Portfolio Choice Under Risk: Discrete-continuous Hierarchical Analysis of Household Panel Data in West Africa
Jeremy Foltz, University of Wisconsin; Daniel Phaneuf, North Carolina State University

A Global Comparison of Economic Development and Natural Resource Use: Evidence from Hierarchical Regressions
Gerald Shively, Purdue University

New Pathway and Scenario Concepts for Assessment of Climate Impacts and Adaptation at Regional and Global Scales

Greenway B, Second Level

ENV Section Track Session

The global change research community has recognized that new pathway and scenario concepts are needed to implement impact and vulnerability assessment that is logically consistent across local, regional and global scales (Moss et al. Science 2010). For global climate models, Representative Concentration Pathways (RCPs) have been developed; for impact and vulnerability assessment, new socio-economic pathway and scenario concepts have also been developed (Kriegler et al. 2012; van Vuuren et al. 2012, Global Env Change), with leadership from the Integrated Assessment Modeling Consortium (IAMC). One of the goals of these new developments is for them to be linked to sector-specific and regional pathways and scenarios. A major effort in this direction is the development of global and regional Representative Agricultural Pathways (RAPs), with leadership from the Agricultural Model Inter-comparison and Improvement Project (AgMIP). This session will provide an overview of the RAP’s concept and methods for their development within the integrated assessment framework developed by AgMIP (presentation 1), and then illustrate their development and use by the global agricultural modeling community (presentation 2) and by a regional study of climate change in Pacific NW wheat systems in the United States (presentation 3). Applications using this methodology will also be presented in an International Section Track Session on “A New Trans-Disciplinary Approach to Regional Integrated Assessment of Climate Impact and Adaptation in Agricultural Systems,” based on studies being carried out in Africa and South Asia.

Organizer: John Antle, Oregon State University

Moderator: John Antle, Oregon State University

Representative Agricultural Pathways: A New Trans-Disciplinary Approach to Integrated Assessment of Climate Impacts and Adaptation
Roberto Valdivia, Oregon State University; John Antle, Oregon State University; Lieven Claessens, ICRISAT; Gerald Nelson, University of Illinois at Urbana-Champaign; Cynthia Roseweig, NASA; Alex Ruane, NASA; Joost Vervoort, Oxford University

Global RAPs -- Framing Agricultural Futures at Different Scales
Hermann Lotze-Campen, PIK; Martin Von Lampe, OECD; Hans Van Meijl, LEI-Wageningen University; Keith Weibe, International Food Policy Research Institute; Dominique Van Der Mensbrugghe, FAO of the United Nations

Representative Agricultural Pathways and Climate Impact Assessment for Pacific Northwest Agricultural Systems
Jianhong Mu, Oregon State University; John Antle, Oregon State University; Hongliang Zhang, Oregon State University; Sanford Eigenbrode, University of Idaho; Chad Kruger, Washington State University; Claudio Stuckle, Washington State University; J.D. Wulfhurst, University of Idaho
Concurrent Sessions — Monday, 1:00 PM - 2:30 PM

1031 Hydraulic Fracturing of Tight Formations to Produce Oil and Gas Creates New Competition for Resources: Balancing the Interests of Production Companies with Those of Agricultural and Other Resource Users

Mirage, Second Level

**Extension Section Track Session**

Hydraulic fracturing is transforming oil and gas production, but raises concerns among agricultural interests and others that also use surface and groundwater resources, as well as the land surface. This session explores balancing interests of landowners, water users, oil and gas companies, and public interest in resource protection and conservation.

**Organizer:** Theodore Feitshans, North Carolina State University

**Moderator:** L. Leon Geyer, Virginia Polytechnic Institute and State University

Water Quantity: Competition and Complementarity - Balancing Water Needs of Agriculture with Needs of Gas and Oil Production

Jesse Richardson, West Virginia University

Water Quality: Protecting the Quality of Water Needed for Agriculture in the Context of Gas and Oil Production

L. Leon Geyer, Virginia Polytechnic Institute and State University

Oil and Gas Lease/Surface Use Agreement Considerations

Shannon Ferrell, Oklahoma State University

Ownership of Oil and Gas Rights

Theodore Feitshans, North Carolina State University

1032 TAA for Farmers Program: Linking Extension Education Technologies with Economic Stimulus

Northstar A, Second Level

**Organized Symposium**

TAA for Farmers is a national multifaceted USDA program that used Extension to deliver technical and financial assistance to 10,983 agricultural producers and fishermen. This symposium presents the innovative application of Extension education technologies, financial assistance and how Extension delivered $83 million in direct economic stimulus.

**Organizers:** Shannon Neibergs, Washington State University; Ronald Rainey, University of Arkansas

**Moderator:** Robert Craven, University of Minnesota

The Future of Extension Program Delivery: The Case for Online Training

Curtis Mahnken, University of Minnesota

The Effect of Cash Incentives on Extension Program Outcomes

Nathan Kemper, University of Arkansas

Beyond Evaluation as Usual: Evaluating TAA Program Effectiveness and Outcomes with a Broadened Range of Methods and Progressive Measures

Danna Moore, Washington State University

1033 New Data Opportunities and Data Challenges for Agricultural Economics Research

Northstar B, Second Level

**Organized Symposium**

Changes in the “data environment” and data availability can create challenges for Agricultural Economists and can limit the types of questions that economists can explore empirically. Yet, new data techniques and data possibilities are continually evolving, creating opportunities for new lines of inquiry. The presentations and discussion in this session highlight data opportunities and new data techniques and possibilities.

**Moderator:** James Michael Harris, USDA-Economic Research Service

**Panelists:** Kathleen Farrin, USDA-Economic Research Service; Barrett Kirwan, University of Illinois at Urbana-Champaign; Ashok Mishra, Louisiana State University; Jeremy Weber, USDA-Economic Research Service
Concurrent Sessions — Monday, 1:00 PM - 2:30 PM

1034  Information and Behavior
Greenway C, Second Level

AERE Section Organized Symposium
Information and its assimilation are critical for economic decision making. This session examines behavioral responses in a range of environmental contexts.

Economics of a Light Bulb: Experimental Evidence on CFLs and End-user Behavior
Robyn Meeks, University of Michigan; Eliana Carranza, The World Bank

Shock or Salience? A Natural Experiment in Billing Frequency
Casey Wichman, University of Maryland

Forecasts and Adaptation
Jeffrey Shrader, Jr., University of California, San Diego

Loss Aversion and Public Goods: A Field Experiment in Alternative Commuting
Laura Grant, University of Wisconsin

1035  Empirical Methods in Agricultural Finance
Greenway D, Second Level

Selected Paper Presentation
This session includes papers that advance the empirical methods in agricultural finance.

Moderator: James Williamson, USDA-Economic Research Service

A Relative Information Approach to Modeling Dynamics of US Farmland Values
Olufemi Bolarinwa, University of Florida; Gulcan Onel, University of Florida; Jaclyn Kropp, University of Florida; Charles Moss, University of Florida

A Split-Population Duration Approach to Understanding Agricultural Banking Survival Strategies During the Late 2000s Recession
Xiaofei Li, University of Georgia; Cesar Escalante, University of Georgia; James Epperson, University of Georgia

The Impact of Crop Price on Nitrous Oxide Emissions: A Dynamic Programming Approach
Ruohong Cai, Princeton University; Xin Zhang, Princeton University; David Kanter, Princeton University

Analysis of Supply Response and Price Risk on Rice Production in Nigeria
Opeyemi Ayinde, University of Ilorin

1036  Using Demand Analyses to Inform Public Health Policy
LaSalle, Second Level

Selected Paper Presentation
There are unique opportunities for agricultural economists to apply various consumer demand models to study public health topics. This session brings together four papers that aim to shed new light on important food and tobacco policies using demand analysis tools.

Moderator: Janani Rajbhandari Thapa, Texas Tech University

US Demand For Tobacco Products in a System Framework
Yuqing Zheng, RTI International; Chen Zhen, Research Triangle Institute; James Nonnemaker, RTI International; Daniel Dench, RTI International

Store-Differentiated Demand and Retail Food Availability
Gayaneh Kyureghian, Korea University; Azzeddine Azzam, University of Nebraska; Rodolfb Nayga, University of Arkansas

Dynamics of Advertising and Demand for Fluid Milk in the United States: An Incomplete Demand Approach
Rejeana Gvillo, Texas A&M University; Senarat Dhamaratna, Texas A&M University; Oral Capps, Jr., Texas A&M University

Information Cost and Consumer Choices of Healthy Foods
Xiaoou Liu, Renmin University of China; Chen Zhu, China Agricultural University; Rigoberto Lopez, University of Connecticut
Concurrent Sessions — Monday, 1:00 PM - 2:30 PM

1037 Adaptation to Climate Change
Greenway F, Second Level

Selected Paper Presentation
The papers in this session consider land use changes and other adaptations to changes in weather and water availability. The costs of adaptation choices are measured, and climate damage functions are assessed.

**Moderator:** John Stoll, University of Wisconsin, Green Bay

- Loaded DICE: Refining the Meta-analysis Approach to Calibrating Climate Damage Functions
  **Peter Howard**, New York University; **Thomas Sterner**, University of Gothenburg

- Accounting for Land Use Adaptation to Climate Change Impacts on US Agriculture
  **Shun Chonabayashi**, Cornell University

- Farmer Adaptation to Heterogeneous Canal Water Supply
  **Agha Akram**, Yale University

- Evaluating the Cost-Effectiveness of Flood Mitigation Policies
  **Qin Fan**, California State University; **Meri Davlasheridze**, Texas A&M University

1038 Consumer Preferences for Labels and Certifications
Greenway G, Second Level

Selected Paper Presentation
This session will highlight applied research on consumer preferences for a variety of labels that indicate production practices or supply chain decisions that have outcomes important to consumers.

**Moderator:** Sapna Kaul, University of Utah

- Altruism and Preference for Social Certification Schemes
  **Leslie Verteramo Chiu**, Cornell University

- Understanding Producers’ Motives to Adopt Sustainable Practices: The Role of Expected Rewards, Risk Perception, and Risk Tolerance
  **Dianne Hofenk**, Wageningen University; **Joost Penning**, Maastricht University; **Andres Trujillo-Barrera**, Wageningen University

- Consumer Preferences, Ecolabels, and Effects of Negative Environmental Information
  **Xianwen Chen**, Norwegian University of Life Sciences; **Frode Alfnes**, Norwegian University of Life Sciences; **Kyrre Rickertsen**, Norwegian University of Life Sciences

- Humane, Organic, or Grass-fed: Which Production Methods Matter Most to Consumers?
  **Kathleen Brooks**, University of Nebraska-Lincoln; **Brenna Ellison**, University of Illinois at Urbana-Champaign

1039 Trade
Greenway H, Second Level

Selected Paper Presentation
Trade issues, policies, and economic effects.

**Moderator:** Bradley Rickard, Cornell University

- Technology, Ecology and Agricultural Trade
  **Kari Heerman**, USDA-Economic Research Service

- A Political-Economy Analysis of the GMO Trade Agreement
  **Qianqian Shao**, Technische Universität München; **Justus Wesseler**, Technische Universität München

- Export Restrictions and Price Volatility Development in the Argentinian Wheat Market
  **Kateryna Schroeder**, University of Missouri; **Estepania Puricelli**

- Trade Liberalization in the Presence of Domestic Regulations: Likely Impacts of the TTIP on Wine Markets
  **Bradley Rickard**, Cornell University; **Olivier Gergaud**, KEDGE, Bordeaux Business School; **Wenjing Hu**, Colorado State University

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**FINAL PROGRAM**

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

1040  Topics in Water Resources and Water Use
Greenway I, Second Level

Selected Paper Presentation
Water resource availability and the efficient use of water will become increasingly important in the future. This set of studies extends from the optimal design of dams to farmer irrigation and water use by households.

**Moderator:** Nikos Zirogiannis, Indiana University Bloomington

The Economics of Water Project Capacities and Conservation Technologies
*Yang Xie, University of California, Berkeley; David Zilberman, University of California, Berkeley*

Adapting to Monsoon Variability in India: The Case for Irrigation

Modeling Effects of Multiple Conservation Policy Instruments and Exogenous Factors on Urban Residential Water Demand through Household Heterogeneity
*Elena Tchigriaeva, University of Nevada, Reno; Corey Lott, University of California, Santa Barbara; Kimberly Rollins, University of Nevada, Reno*

Household Adoption of Water Conservation and Resilience Under Drought: The Case of Oklahoma City
*Patrick Kanza, Oklahoma State University; Tracy A. Boyer, Oklahoma State University; Justin Moss, Oklahoma State University*

1041  Agriculture in a Changing Climate: Evidence from Latin America and Sub-Saharan Africa
Greenway J, Second Level

Selected Paper Presentation
This session considers the dynamic relationship between agricultural productivity and climate. Papers focus on changing agricultural productivity in Brazil, examine the effect of climate change on smallholder land use in Zambia, analyze the effect of climate fluctuations on rural labor markets in Mexico, and estimate the evolution of total factor productivity over in Sub-Saharan Africa.

**Moderator:** Channing Arndt, University of Copenhagen

The Effects of Climate Changes on Brazilian Agricultural Production – A Multisector Growth Model Analysis
*Humberto Spolador, University of Sao Paulo; Rodney Smith, University of Minnesota*

Climate Change and Crop Choice in Zambia: A Mathematical Programming Approach
*Ayala Wineman, Michigan State University; Eric Crawford, Michigan State University*

Rural Mexican Labor Market Responses to Weather Shocks
*Katrina Jessoe, University of California, Davis; Dale Manning, Colorado State University; J. Edward Taylor, University of California, Davis*

Agricultural Productivity and Climate Change in Sub-Saharan Africa: Water Scarcity, Moisture, and Temperature Effects
*Aziza Kibonge, University of Nebraska*

1042  The Increasing Role of Biofuels and Clean Technology in International Trade
Greenway E, Second Level

Selected Paper Presentation
The rise of new and alternative technology can have important implications for agricultural production and trade. Papers in this session explore aspects of alternative fuels and clean technology as well as their impact on international trade.

**Moderator:** Jeffrey Luckstead, University of Arkansas

The Nexus of Trade and Environmental Policy for Biofuels
*Getachew Nigatu, USDA-Economic Research Service; Jayson Beckman, USDA-Economic Research Service; Joseph Cooper, USDA-Economic Research Service*

Impacts of US Biofuel Mandate Waiver on World Ethanol and Biodiesel Market
*Deepayan Deb Nath, University of Missouri; Julian Binfield, University of Missouri; Jarrett Whitance, University of Missouri*

Does the US Have Market Power in Importing Ethanol from Brazil?
*Sunil Dhoubhadel, University of Nebraska; Azzeddine Azzam, University of Nebraska; Matthew Stockton, University of Nebraska*
Concurrent Sessions — Monday, 1:00 PM - 2:30 PM

1043  Fisheries Management and Modeling
Lake Harriet, Fourth Level

Selected Paper Presentation
This session examines topics related to fisheries management and modeling, including a study introducing a methodological innovation for estimating fisheries production functions, two bioeconomic studies examining fisheries management questions, and an empirical study estimating the impacts of disease management regulations on recreational fishing value.

Moderator: Jad Ziolkowska, University of Texas at Austin
Measurement Error in the Generalized Schaefer Production Model
Christopher Burns, University of Massachusetts Amherst
Optimal Management of a Multi-Species Fishery with Bypatch
Richard Melstrom, Jr., Salisbury University
Are Two Rents Better than None? When Monopoly Harvester Co-ops are Preferred to a Rent Dissipated Resource Sector
Hirotsugu Uchida, University of Rhode Island
A Natural Experiment Identifying Disease Regulation Effects on Recreational Fishing
Jessica Klatt, Michigan State University; Frank Lupi, Michigan State University; Richard Melstrom, Jr., Salisbury University

1044  Agricultural Production Efficiency
Minnehaha, Second Level

Selected Paper Presentation
In this session a diverse set of applied papers are presented. Topics include the introduction of new crops, biotechnology, and migration on agricultural production efficiency.

Moderator: Alicia Rosburg, University of Northern Iowa
Stochastic Frontier Yield Function Analysis to Predict Returns to a New Crop: An Example of Camelina Sativa Yields Conditional on Local Factor Levels
Sofia Kotsiri, North Carolina State University; Kelly Zering, North Carolina State University; Michelle Mayer, North Carolina State University
Farm Heterogeneity in Biotechnology Adoption with Risk and Learning: An Application to US Corn
Do-il Yoo, Chungbuk National University
Migration, Local Off-farm Employment and Agricultural Production Efficiency: Evidence from China
Hui Wang, Michigan State University; Jin Yang, Zhejiang University; Songqing Jin, Michigan State University; Kevin Chen, IFPRI-Beijing; Jeffrey Riedinger, University of Washington; Chao Peng, China Research Center for Rural Economy
A Meta-regression Analysis of Frontier Efficiency Estimates from Africa
Kolawole Ogundari, Kyushu University Fukuoka Japan
**Concurrent Sessions — Monday, 2:45 PM - 4:15 PM**

**1045  Methodological Developments and Challenges in Choice Experiments**  
*Regency, Second Level*

**Invited Paper**
This session is designed to highlight developments in state of the art methodological aspects in choice experiment (CE) studies. This session will cover three methodological issues related to CE: (1) position bias in CE, (2) randomization in CE multi-products valuation, and (3) analytical approaches to account for attribute non-attendance (ANA). Given the burgeoning reliance upon CEs across the many subfields of agricultural, environmental and food economics to elicit preferences and WTP values for both public and private goods, we hope to appeal to a broader cross-section of meeting attendees by proposing this topical session.

**Organizers:** Vincenzina Caputo, Korea University; Ellen Van Loo, Ghent University  
**Moderator:** Rodolfo Nayga, University of Arkansas  
**Discussant:** Riccardo Scarpa, University of Waikato

*Position Bias in Best-worst Scaling Surveys: A Case Study on Trust in Institutions*
*Danny Campbell, University of Stirling; Seda Erdem, University of Stirling*

*Using a Randomized Choice Experiment to Test Willingness-to-Pay for Multiple Differentiated Products*
*Madiha Zaffou, University of Connecticut; Benjamin Campbell, University of Connecticut; Jennifer Martin, University of Connecticut*

*Using Experiments to Address Attribute Non-attendance in Consumer Food Choices*
*Vincenzina Caputo, Korea University; Ellen Van Loo, Ghent University; Riccardo Scarpa, University of Waikato; Rodolfo Nayga, University of Arkansas; Wim Verbeke, Ghent University*

**1046  Agricultural and Applied Economics Priorities for Government Statistics**  
*Lakeshore B, Main Level*

**Econometrics and Senior Section Track Session**
The output of federal statistical agencies – USDA, the Census, Bureau of Labor Statistics, and National Center for Health Statistics (to name a few) -- are input to commodity market modulation, agribusiness and other market decision making, and research performed by AAEA members and other applied economists. Statistical agencies are going through prioritization processes to identify programs that would be discontinued if they receive funding below current, real funding levels. This symposium provides a platform for the collection of AAEA member priorities as input to agencies’ upcoming, really tough program decisions. Four prominent AAEA data users present priorities for their field. Abundant audience discussion is encouraged and a voting “slate” will be distributed for reaction.

**Organizer:** Katherine Smith, Council of Professional Associations on Federal Statistics  
**Moderator:** Katherine Smith, Council of Professional Associations on Federal Statistics

*Agribusiness and Market Research Priorities for Federal Data and Information*
*Scott Irwin, University of Illinois at Urbana-Champaign*

*Economic Development Priorities for Federal Statistical Data*
*Stephan Goetz, The Pennsylvania State University*

*Environmental Economics Priorities for Federal Statistical Data*
*Timothy Haab, The Ohio State University*

*Strategies for Identifying AAEA Priorities*
*Jayson Lusk, Oklahoma State University*
**COSBAE and CWAE Section Track Session**

The Committee on Women in Agricultural Economics (CWAE) was formed in 1981 with the purpose of promoting the welfare of women and underrepresented groups in agricultural and applied economics by representing their interests and engaging in activities that encourage their professional advancement through networking and leadership opportunities. Throughout the years, CWAE has addressed critical issues faced by the collective group. In its 2000 annual report, CWAE found that women continue to enter the academic profession though the agricultural research areas remain predominantly male; women generally accounted for less than half of students enrolled in the doctoral programs in agricultural business and management; salaries of recent PhD and MS women were almost identical with those of men; and women agricultural economists have successfully moved into senior positions in government. It’s been 14 years since this report and a little over three decades since the inception of CWAE. It is time to revisit the issue and reassess the role of CWAE and its accomplishments to date. A lot of gains have been made, but a lot more needs to be done to empower women and other underrepresented professionals. Does the gap between minority groups and their male counterparts continue to narrow?

**Organizers:** Blondel Brinkman, USDA-Animal and Plant Health Inspection Service; Duncan Chembezi, Alabama A&M University  
**Moderator:** Blondel Brinkman, USDA-Animal and Plant Health Inspection Service  
**Discussant:** Dawn Thilmany McFadden, Colorado State University  
**Presenters:** Corinne Alexander, Purdue University; Mariah Ehmke, University of Wyoming; Cheryl Wachenheim, North Dakota State University

**Crop Insurance and Implementation of the Farm Bill**  
*Mirage, Second Level*

Crop insurance is now the primary component of the farm safety net. It is the one risk management tool that is slated for expansion in the new Farm Bill, and is widely supported by growers, farm and commodity organizations, and policymakers. This discussion would provide industry, government, and academic perspectives on how the Farm Bill’s crop insurance and related farm safety net changes will be implemented and their impacts.

**Organizer:** Laurence Crane, National Crop Insurance Services  
**Moderator:** Keith Collins, National Crop Insurance Services  
**Presenters:** Dwight Lanclos, USDA-Risk Management Agency; Joe Outlaw, Texas A&M University; Thomas Zacharias, National Crop Insurance Services
The Development of the US Brewing Industry

Greenway A, Second Level

AEM and FAMPS Section Track Session

Over the past 20 years, the US brewing industry has experienced dramatic changes. While macro breweries continue to consolidate and expand, they have sought new ways to compete with both price and non-price marketing. In addition, the Craft beer segment has experienced a tremendous resurgence in popularity, resulting in a proliferation of the industry in terms of scale and scope. This session examines marketing in the US brewing industry. From a consumer perspective, the session explores both price and non-price marketing and its influence on consumer demand. With regards to the firm, the session analyzes how various market characteristics affect firm production and pricing behavior.

Organizer: Joshua Berning, University of Georgia
Moderator: Bradley Rickard, Cornell University

Quality Competition in the Craft Beer Industry: An Empirical Analysis of New England
Joshua Berning, University of Georgia; Michael McCullough, California Polytechnic State University

Retail Beer Prices Across Channels and Locations: A Hedonic Analysis
Joshua Berning, University of Georgia; Alessandro Bonanno, Wageningen University; Michael McCullough, California Polytechnic State University

That's Not My Style: US Beer Preferences in the Expanded Market
Gnel Gabrielyan, Washington State University; Jill McCluskey, Washington State University; Thomas Marsh, Washington State University; Carolyn Ross, Washington State University

Product Line Extension and Market Power in the Beer Industry
Yizao Liu, University of Connecticut; Omer Hoke, University of Connecticut

Classroom Experiments, Games, and Simulations: Examples, Resources, and Assessment

Greenway B, Second Level

IBES and TLC Section Track Session

This session highlights classroom experiments, simulations, and games originally authored and developed, or adapted from existing sources, for use in an agricultural, environmental, or general microeconomics undergraduate classroom. The presenters will suggest ways to incorporate experiments for a variety of economic contexts to deepen student engagement with the process of scientific inquiry in the social sciences. The presenters will elaborate on methods for achieving better student outcomes through organization, participation and assessment.

Organizer: Hillary Sackett, Westfield State University

Encouraging Scientific Inquiry through Experimental Lab Reports: Assessing Student Outcomes with Classroom Experiments
Hillary Sackett, Westfield State University

Classroom Experiments with Money on the Line: Experience from a Game Theory Class
Matthew Rousu, Susquehanna University

Teachable Moments and Lessons Learned in Using Simulations and Games in Agribusiness Marketing and Management
Forrest Stegelin, University of Georgia

Do Students Learn from Classroom Economic Experiments?
Subbu Kumararppan, The Ohio State University
Economists have increasingly been called upon to estimate the economic impacts of climate change in order to identify management actions or investments to adapt existing systems to climate variability and change. Part of this includes developing policies and management guidelines that result in human-environmental systems that are resilient to extreme weather events and acceptable to economic decision-makers. The papers in this session utilize econometrics, novel data sets and integrated biophysical simulation and economic optimization to investigate shoreline management, the role of climate and water rights in adaptations already undertaken by farmers in different regions of the US, and how maize-based cropping systems in different Corn Belt states can most profitably adapt to projected climate change.

Organizer: Ben Gramig, Purdue University

Moderator: Scott Swinton, Michigan State University

Coupled Coastal Economic Modeling for Climate Adaptation and the Nourishment Dilemma

Sathya Gopalakrishnan, The Ohio State University; Dylan McNamara, University of North Carolina, Wilmington; Martin Smith, Duke University; Brad Murray, Duke University

Adaptation to Climate Change: Evidence from US Agriculture

Kyle Emerick, University of California, Berkeley; Marshall Burke, University of California, Berkeley


Kelly Cobourn, Virginia Polytechnic Institute and State University; Alejandro Flores, Boise State University; Blaine Dawson, Boise State University

Profit Maximizing Adaptations to Projected Climate Change in the US Corn Belt

Ben Gramig, Purdue University; E.M. Sajeev, Purdue University; Paul Preckel, Purdue University; Otto Doering, III, Purdue University

Frontier Topics in International Agricultural Development

International Section Track Session

This section will feature four papers at the research frontier in the microeconomics of international agricultural development by established researchers in that area. As with almost all cutting-edge research in development economics, each paper relies on an experimental methodology to identify a causal relationship that is of interest to policy makers. As such, the papers in this session not only contribute to our understanding of persistent underdevelopment, but several of them also include a methodological innovation.

Organizer: Marc Bellemare, University of Minnesota

Moderator: Paul Glewwe, University of Minnesota

Discussant: Paul Glewwe, University of Minnesota

Health Information, Treatment, and Worker Productivity: Experimental Evidence from Malaria Testing and Treatment among Nigerian Sugarcane Cutters

Andrew Dillon, Michigan State University; Jed Friedman, The World Bank; Pieter Serneels, University of East Anglia

Experimental Markets for Ready-to-Use Supplementary Foods (RUSFs) in Burkina Faso: Implications for Private and Public Sector Involvement in RUSF Supply Chains

Travis Lybbert, University of California, Davis; Stephen Vosti, University of California, Davis

Index-Based Livestock Insurance and Cash Transfers: A Comparative Analysis from Northern Kenya

Nathaniel Jensen, Cornell University; Christopher Barrett, Cornell University; Andrew Mude, International Livestock Research Institute

Adaptation to Climate Change: Experimental Evidence from the Ethiopian Rift

Marc Bellemare, University of Minnesota; Marc Jeuland, Duke University; Christopher Paul, Duke University; Erika Weinthal, Duke University
Concurrent Sessions — Monday, 2:45 PM - 4:15 PM

1053  The National Household Food Acquisition and Purchase Survey: Early Findings and Future Research Directions
Northstar A, Second Level

Organized Symposium
The National Food Acquisition and Purchase Survey (FoodAPS) is the first nationally representative survey of American households to collect unique and comprehensive data about household food purchases and acquisitions. This symposium has three main objectives: 1) Summarize food acquisition patterns among US households and across subgroups of particular interest, 2) Present geographical data collection and analysis that complements the survey and expands the research possibilities, and 3) Provide a format to exchange information about the intricacies of working with the data.

Organizers: Jessica Todd, USDA-Economic Research Service; Michele Ver Ploeg, USDA-Economic Research Service
Moderator: Chen Zhen, Research Triangle Institute
Discussants: Timothy Beatty, University of Minnesota; Julie Caswell, University of Massachusetts Amherst
Panelists: Mark Denbaly, USDA-Economic Research Service; Christian Gregory, USDA-Economic Research Service; Craig Gunderson, University of Illinois at Urbana-Champaign; Joseph Llobrera, Tufts University; Jessica Todd, USDA-Economic Research Service

1054  What is the Value of Agricultural Economics Research - New Data and Analysis
Northstar B, Second Level

Organized Symposium
The federal budget allocates $2.3 billion for the USDA to support R&D. What does that buy? What are the results? This symposium describes some preliminary results of a new USDA funded project that uses food safety as an example of how to answer these questions.

Moderator: Kaye Husbands Fealing, University of Minnesota
Panelists: John King, USDA-Economic Research Service; Evgeny Kchochikhin, American Institutes for Research; Robbin Shoemaker, National Institute of Food and Agriculture

1055  Prices, Marketing, and Risk in Agricultural Finance
Greenway E, Second Level

Selected Paper Presentation
This session includes papers on price, marketing, and risk in agricultural markets.

Moderator: Jon Biermacher, The Samuel Roberts Noble Foundation
Relative Performance of Semi-Parametric Nonlinear Models in Forecasting Basis
Gulcan Onel, University of Florida; Berna Karali, University of Georgia

Heterogeneous Responses to Market Information and The Impact on Price Volatility and Trading Volume: The Case of Class III Milk Futures
Xiaodong Du, University of Wisconsin; Fengxia Dong, University of Wisconsin

Is Storage Rational When the Price is Expected to Decline? An Empirical Study Using Data from US Futures and Options Markets
Carl Zulauf, The Ohio State University; Sanghyo Kim, The Ohio State University

Cooperatives and the Risk Aversion of Farmers
Jafar Olimov, The Ohio State University
Concurrent Sessions — Monday, 2:45 PM - 4:15 PM

1056 Scanner Data in Demand Studies: Issues and Solutions
Greenway F, Second Level

Selected Paper Presentation
Scanner data are becoming increasingly available to academic researchers for conducting advanced analyses. These four papers address challenges associated with using these data including data quality, censored purchases, construction of price indices, and curse of dimensionality.

**Moderator:** Alba Collart, Texas A&M University

A Comparison of Food Demand Estimation from Homescan and Consumer Expenditure Survey Data
*Tullaya Boonsaeng, Texas Tech University; Carlos Carpio, Texas Tech University*

Explaining the Shift from Preserved to Fresh Vegetable Consumption
*Peyton Ferrier, USDA-Economic Research Service; Chen Zhen, Research Triangle Institute*

Estimating Demand for Differentiated Eggs Using Scanner Data
*Yan Heng, Kansas State University; Hikaru Hanawa Peterson, Kansas State University*

Beer Snobs Do Exist: Estimation of Beer Demand by Type
*Daniel Toro-Gonzales, Universidad Tecnologica de Bolivar; Jill McCluskey, Washington State University; Ron Mittelhammer, Washington State University*

1057 Studies in Choice Experiments
Greenway G, Second Level

Selected Paper Presentation
This session contains applications of and innovations in choice experiments.

**Moderator:** Kenneth Baerenklau, University of California, Riverside

The Effect of Forced Choice with Constant Choice Experiment Complexity
*Jerrod Penn, University of Kentucky; Wuyang Hu, University of Kentucky; Linda Cox, University of Hawaii*

Identifying Which Ecosystem Services Coastal Residents Actually Value: A Choice Experiment Survey of the Eastern Shore of Virginia Regarding Climate Change Adaptation
*Ian Yue, University of Connecticut; Stephen Swallow, University of Connecticut*

Assurance Payments for Multiple Units Public Goods Provision: Experiments Motivated by Ecosystem Service Markets
*Zhi Li, University of Washington; Pengfei Liu, University of Connecticut; Stephen Swallow, University of Connecticut*

Spatially-Referenced Choice Experiments: Tests of Individualized Geocoding in Stated Preference Questionnaires
*Benedict Holland, Clark University; Robert Johnston, Clark University*

1058 Implications of Food Policies on Food Markets
Greenway H, Second Level

Selected Paper Presentation
The applied research presented in this session will explore how various food policies and programs affect the markets for various foods and beverages.

**Moderator:** René Roy, McGill University

Prevalence and Cost of On-Farm Produce Safety Measures in the Mid-Atlantic
*Erik Lichtenberg, University of Maryland; Elina Tselepidakis, University of Maryland*

The Incidence of Soda Taxes with Imperfect Information and Strategic Firm Behavior
*Hualu Zheng, University of Connecticut; Lu Huang, University of Connecticut*

The Use of Food Nutrition Fact Panel Information and Juice Consumption
*Hyeyoung Kim, University of Florida; Carlos Jauregui, University of Florida; Jong-Ying Lee, Retired*

The Dynamics of Brand Value in the Carbonated Soft Drinks Industry
*Lu Huang, University of Connecticut; Yizao Liu, University of Connecticut*
Concurrent Sessions — Monday, 2:45 PM - 4:15 PM

1059  Bioenergy  
Greenway I, Second Level

Selected Paper Presentation  
Bioenergy policies and economic effects.

Moderator: Omer Hoke, University of Connecticut

The Political-Economy of Biofuel and Cheap Oil Policies in Brazil  
Madhu Khanna, University of Illinois at Urbana-Champaign; Hector Nunez, Centro de Investigación y Docencia Económicas; David Zilberman, University of California, Berkeley

Impact of US Biofuel Policy in the Presence of Drastic Climate Conditions  
Hector Nunez, Centro de Investigación y Docencia Económicas; Andres Trujillo-Barrera, Wageningen University

How Biofuels Policies Boosted Grain Staple Prices: A Counterfactual Analysis  
Di Zeng, Lawrence Berkeley National Laboratory; Brian Wright, University of California, Berkeley; Eugenio Bobenrieth, Pontificia Universidad Católica De Chile

Food Versus Crude Oil: What Do Prices Tell Us? Evidence from China  
Yumeng Wang, Renmin University of China; Donald Liu, University of Minnesota; Shuoli Zhao, University of Minnesota; Zhibai Yang, Huazhong Agricultural University

1060  Effects of Federal Nutritional Programs on Food Choices  
Greenway J, Second Level

Selected Paper Presentation  
This session is about federal nutrition programs such as SNAP and NSLP and their impacts on food choices.

Moderator: Norbert Wilson, Auburn University

Effect of the School Lunch Program on Children's Food Preferences and Family Grocery Shopping  
Yuan Jiang, University of Florida; Lisa House, University of Florida; Zhifeng Gao, University of Florida

The Effect of an Information Intervention on the Healthfulness of College Meal Plan Purchases in a Use-it or Lose-it Meal Plan Currency System  
Matthew Pham, The Ohio State University; Brian E. Roe, The Ohio State University

Gender-disaggregated Time and Risk Preferences and Agricultural Technology Adoption in Kenya and Tanzania  
Abby Moore, University of Georgia; Nicholas Magnan, University of Georgia; Ruth Meinzen-Dick, International Food Policy Research Institute

New Production Technologies: Household Responses and Preferences in the Developing World  
Lake Superior A, Fifth Level

Selected Paper Presentation  
This session examines the ways households incorporate and adopt new technologies. Papers focus on household preferences and intra-household bargaining over new technologies as well as the income effects of a new hybrid rice variety.

Moderator: Conner Mullally, University of Florida

Jose Yorobe, Jr., University of the Philippines - Los Banos; Valerien Pede, International Rice Research Institute; Jauhar Ali, International Rice Research Institute; Roderick Rejesus, North Carolina State University; Orlee Velarde, Asian Development Bank

Gender-disaggregated Time and Risk Preferences and Agricultural Technology Adoption in Kenya and Tanzania  
Abby Moore, University of Georgia; Nicholas Magnan, University of Georgia; Ruth Meinzen-Dick, International Food Policy Research Institute

Household Bargaining Over Technology Adoption  
Sandeep Mohapatra, University of Alberta; Leo Simon, University of California, Berkeley
**Concurrent Sessions — Monday, 2:45 PM - 4:15 PM**

**1062  Land Allocation and Risk Management Issues in Africa**  
*Lake Superior B, Fifth Level*

**Selected Paper Presentation**

Papers in this session address two key issues that affect household well-being in Africa. Two papers address financial and insurance services, while the other two papers focus on land related challenges facing farmers.

**Moderator:** Anita Regmi, CGIAR

Land Fragmentation with Double Bonuses -- The Case of Tanzanian Agriculture  
*Xudong Rao, University of Minnesota*

Productive Spillovers of the Take-up of Index-Based Livestock Insurance  
*Russell Dean Toth, University of Sydney; Christopher Barrett, Cornell University; Rich Bernstein, Cornell University; Patrick Clark, USDA-Agricultural Research Service; Carla Gomes, Cornell University; Shibia Mohamed, International Livestock Research Institute; Andrew Mude, International Livestock Research Institute; Birhanu Tadesse, International Livestock Research Institute*

Determinants of Land Allocation in a Multi-crop Farming System: An Application of the Fractional Multinomial Logit Model to Agricultural Households in Mali  
*James Allen, IV, University of Kentucky*

Financial Services and Divisible Technology Dis-adoption among Farm Households: Theory and Empirical Application Using Data from Ethiopia  
*Isai Guizar, Tecnologico de Monterrey; Nicholas Dadzie, The Ohio State University*

**1063  Price and Labor Dynamics in International Trade**  
*Lakeshore A, Main Level*

**Selected Paper Presentation**

Price adjustments and labor mobility are two important mechanisms for the diffusion of volatility in world markets. Papers in the session investigate how fast market participants adjust to changes in trade policy, with an emphasis on price dynamics.

**Moderator:** Mark Gibson, Washington State University

The Role of Self-Employment in Mitigating Trade Shocks on US County Labor Markets  
*Jiaochen Liang, The Pennsylvania State University; Stephan Goetz, The Pennsylvania State University*

Price Discovery of World and China Vegetable Oil Markets and Causality with Non-Gaussian Innovations  
*Senarath Dharmasena, Texas A&M University; Lu Fang, Texas A&M University; David Bessler, Texas A&M University; Jing Wang, Northeast Agricultural University*

**1064  Water Use and Externalities**  
*Minnehaha, Second Level*

**Selected Paper Presentation**

This session explores effects of climate variability on water use and crop yields; externalities and strategic scheduling of irrigation; externalities related to water transfers in managed water systems; and the effects of agricultural policy change on groundwater management in China and other places.

**Moderator:** David Lambert, Kansas State University

Inter-Decadal Climate Variability in the Edwards Aquifer: Regional Impacts of DCV on Crop Yields and Water Use  
*Jinxiu Ding, Texas A&M University*

Hydrologic Externalities and Water Transfers in Conjunctively Managed Water Systems  
*Levan Elbakidze, University of Idaho; Hannah Vinson, University of Idaho; Kelly Cobourn, Virginia Polytechnic Institute and State University; R. Garth Taylor, University of Idaho*

Safe Water, Sanitation and WTP (Willingness to Pay)  
*Alaba Modupe Dare, Federal University of Agriculture*
Concurrent Sessions — Monday, 2:45 PM - 4:15 PM

1065  Health and the Environment
LaSalle, Second Level

Selected Paper Presentation
This set of empirical studies examines the effect of the environment on health and the effect of healthy behaviors on the environment, particularly climate change. The studies use unique datasets to examine these issues.

Moderator: Catherine Greene, USDA-Economic Research Service

Long-term Effect of Climate Change on Health: Evidence from Heat Waves in Mexico  
Jorge Aguero, University of Connecticut

Does Obesity Matter for the Environment? Evidence from Vehicle Choices and Driving  
Hocheol Jeon, Iowa State University; Joseph Herriges, Iowa State University

Taxing Animal Products: Protein Demand Under Environmental Pressure and Social Impact in France  
France Caillavet, INRA ALISS; Fadhuile Adelaide, INRA-ALISS; Veronique Nichele, INRA-ALISS

Pollution Whack-a-Mole: Ambient Acetaldehyde and the Introduction of E-10 Gasoline in the Northeast  
Christopher Steiner, University of California, San Diego

1066  Risk Preferences
Lake Harriet, Fourth Level

Selected Paper Presentation
Presentations in this session focus on producer risk preferences and the impact these preferences may have on production decisions. This session includes both applied and theoretical examinations of the challenges associated with eliciting producer attitudes towards risk.

Moderator: Harun Bulut, NCIS

Cow-calf Producer Risk Preference Impacts on Willingness-to-Pay for Sustainable Breeding Practices  
Albert Boaitey, University of Alberta

Identifying Risk Preferences with Seminonparametric Estimation of Risk  
Feng Wu, University of Florida; Zhengfei Guan, University of Florida

Firm Exit under Inefficiency and Uncertainty: The Case of Dairy Farming  
Simone Pieralli, University of Maryland; Silke Huettel, Humboldt University of Berlin; Martin Odening, Humboldt University of Berlin
Concurrent Sessions — Monday, 4:30 PM - 6:00 PM

1067 Agriculture, Food, and Natural Resources Case Studies
Regency, Second Level

Invited Case Studies
Case studies show how the application of economic principles may inform the public or private sectors in making better decisions. They present solutions and explanations of AAEA relevant problems for their targeted audiences and cover a wide range of topics, from food safety to environmental policy. This year the session's topics cover the organic farm, dairy, and seed industries.

Moderator: David Widmar, Purdue University

Dairy United
Jingjing Wang, University of Missouri; Mei Chen, Dongbei University of Finance and Economics; Peter Klein, University of Missouri

Ye Su, University of Missouri; Michael Cook, University of Missouri

Wilson Seeds, Inc. A Period of Transition
David Widmar, Purdue University; Allan Gray, Purdue University; Michael Gunderson, Purdue University

1068 Crop Insurance: Opportunities and Challenges Facing the Industry
Lakeshore B, Main Level

ARA Section Track Session
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: Scott Fausti, South Dakota State University

Discussant: Dmitry Vedenov, Texas A&M University

Crop Insurance: Domestic Opportunities and Challenges Facing the Industry
Thomas Zacharias, National Crop Insurance Services

Crop Insurance: International Opportunities and Challenges Facing the Industry
Oscar Vergara, Air Worldwide

Crop Insurance: Opportunities and Challenges Facing Policy Administrators
Dwight Lanclos, USDA-Risk Management Agency
COSBAE and International Section Track Session

In recent years interest has grown in explaining how African smallholders make choices that affect the productivity and resilience of their operations and how agricultural policy influences the choices made. The four papers in this moderated session provide state-of-the-art empirical analysis drawing on data at the farm- or household-level. Issues related to agricultural productivity and poverty reduction are emphasized. Topics addressed include adoption of modern maize varieties, efficiency of agricultural input subsidy programs, and critical review of how different African countries are attempting to foster agricultural development. Policy implications and new hypotheses arising from these papers will be discussed.

Organizers: Monica Fisher, International Maize and Wheat Improvement Center; Jeffrey Reimer, Oregon State University

Moderator: Titus Awokuse, University of Delaware

Whom Should Farm Input Subsidy Programs Target? Evidence from Malawi
Jacob Ricker-Gilbert, Purdue University; Francis Darko, Purdue University; Talip Kilic, The World Bank; Gerald Shively, Purdue University

Do Adult Equivalence Scales Matter in Poverty Estimates? Evidence from Ghana
Timothy Dalton, Kansas State University; Gregory Regier, Kansas State University; Yacob Zereyesus, Kansas State University; Vincent Amanor-Boadu, Kansas State University

Economic Analysis of Modern Maize Varieties in Malawi
Jeffrey Reimer, Oregon State University; Monica Fisher, International Maize and Wheat Improvement Center; Woinishet Asnake, CIMMYT-Ethiopia

Heterogeneous Approaches to Agricultural Development in Africa: Lessons from Ethiopia and Malawi
Guush Berhane, International Food Policy Research Institute; Karl Pauw, International Food Policy Research Institute

AEM and TLC Section Track Session

In this track session, we will examine internationalizing the curriculum and research efforts by several universities. The Export Project at Illinois State University started with the intent to assist businesses in their international marketing efforts. The presenters will highlight the challenges of establishing a hands-on global project and the strategies they followed to overcome them. The incentives offered by various agriculture-related businesses and government or private entities as well as the challenges University of Kentucky faculty and students face to respond to the need for proactive agribusiness education abroad programs in China will be discussed. Presenter from Penn State University will introduce participants to a number of case studies and discuss how they prepare students for the embedded trip to France after the semester ends. Finally, presenters from University of Vermont and Ohio State University will discuss the opportunities and challenges for educators in designing, creating, and delivering global supply chain courses.

Organizer: Adilhan Spaulding, Illinois State University

Multidisciplinary Approach to Help Creating a Global Campus – Export Project
Adilhan Spaulding, Illinois State University; Klaus Schmidt, Illinois State University

Creating Agribusiness Education Abroad in China: Institutional Support and Challenges Faced by Faculty and Students
Wuyang Hu, University of Kentucky

Internationalizing the Curriculum with an Embedded International Trip and Food-based Case Studies
Edward Jaenicke, The Pennsylvania State University

Challenges and Opportunities in Developing Global Agribusiness Curriculum
Kathleen Liang, University of Vermont; Subbu Kumarappan, The Ohio State University
Concurrent Sessions — Monday, 4:30 PM - 6:00 PM

**1071  Livestock Outlook**  
*Mirage, Second Level*

**Extension Section Track Session**
This session continues the tradition of Extension Section Outlook organized symposia 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, Louisiana State University  
**Discussant:** David Anderson, Texas A&M University

*Cattle and Beef*  
*Kenneth Burdine, University of Kentucky*

*Hogs and Pork*  
*Lee Schulz, Iowa State University*

*Dairy*  
*Scott Brown, University of Missouri*

*Poultry*  
*Jeremy Ross Pruitt, Louisiana State University*

**1072  To Nudge or Not to Nudge: When Does Food Policy Become Paternalism?**  
*Greenway A, Second Level*

**FSN and IBES Section Track Session**
Should high calorie foods and beverages be taxed? Should SNAP recipients be restricted in what they are allowed to purchase? In this session, panelists will discuss (1) whether and (2) to what extent policymakers should be involved in influencing consumers' food choices.

**Organizer:** Brenna Ellison, University of Illinois at Urbana-Champaign  
**Moderator:** Jane Kolodinsky, University of Vermont  
**Panelists:** Sean Cash, Tufts University; David Just, Cornell University; Jayson Lusk, Oklahoma State University; Lisa Mancino, USDA-Economic Research Service; Trenton Smith, University of Otago

**1073  Developments in China’s Agriculture**  
*Lake Superior A, Fifth Level*

**IAAE and International Section Organized Symposium**
This session will involve three papers examining different aspects of China’s agricultural development. The first paper will report on a major study examining the implications of China’s urbanization for food security in China. The second will examine the implications of structural change in China’s agriculture. The third uses a simple econometric approach to examine the implications of income growth on China’s demand and supply for food.

**Organizer:** William Martin, The World Bank  

*Urbanization and Food Security in China*  
*Jikun Huang, Chinese Academy of Sciences; Scott Rozelle, Stanford University; Jun Yang, Chinese Academy of Sciences; Jinxia Wang, Chinese Academy of Sciences; Xiangzheng Deng, Chinese Academy of Sciences; Junfei Bai, Chinese Academy of Sciences*

*Wage Growth, Landholding, Machine Investment and Services in China*  
*Futoshi Yamauchi, The World Bank; Keiijro Ottaka, National Graduate Institute for Policy Studies; Xiaohong Wang, Center for Chinese Agricultural Policy, Chinese Academy of Sciences; Jikun Huang, Center for Chinese Agricultural Policy, Chinese Academy of Sciences*

*Who Will Feed China in the 21st Century*  
*William Martin, The World Bank; Emiko Fukase, The World Bank*
Organized Symposium

China’s growing and rapidly modernizing swine industry is a major driver of trends in world commodity markets, has contributed to improved diets in China, but is also generating adverse environmental effects and food safety concerns. While modern swine production facilities are growing rapidly in China, the bulk of pork production still takes place at the village-level with medium-sized producers that are getting larger and more sophisticated. Despite its importance, little is known about this industry. This symposium provides a series of presentations on village-level swine production in China using a panel survey of 450 swine producers stratified throughout China taken in 2011 and 2013. The data covers issues such as size and structure of village-level production, feed and sow efficiency measures and their determinants, animal health and manure management practices, and marketing arrangements. This symposium will present preliminary research from this project to paint a picture of swine production in China, and opportunities to discuss implications for trade in feed and meat, future pork production growth, environmental outcomes, and food safety.

Organizer: Bryan Lohmar, US Grains Council
Moderator: Michael Boddington, Asian Agribusiness Consulting
Discussants: Fred Gale, USDA-Economic Research Service; Dermot Hayes, Iowa State University

Pork Production in China: Triangulating Feed, Consumption, and Slaughter Data to Determine Current Levels and Potential for Future Production and Consumption growth

Bryan Lohmar, US Grains Council

Feeding and Sow Productivity in Rural China: The Role of Size, and Technical Assistance from Input Providers and Contractors

Dan Wang, Chinese Academy of Sciences

Swine Marketing Arrangements in China: Implications for Traceability and Food Safety

Xiangping Jia, Chinese Academy of Sciences

Swine Waste Management in Rural China: Implications of Size, Markets, and Cropping Patterns

Huang Weiming, Stanford University

1075 How to Fund and Where to Publish the Scholarship of Teaching and Learning in Agricultural Economics and Agribusiness

Organized Symposium

The session will highlight the similarities and differences of the scholarship of teaching and learning (SoTL) from other funding and publication practices with which most academics are familiar. Panelists include SoTL researchers, editors of journals who publish SoTL work, and a university Center for Teaching and Learning director. These perspectives will provide attendees the ability to determine if SoTL work is compatible with their position, which opportunities may be most appropriate to pursue, and where to fund and publish their SoTL work.

Organizer: Leah Mathews, University of North Carolina, Asheville
Moderator: Leah Mathews, University of North Carolina, Asheville
Panelists: Michael Gunderson, Purdue University; Leah Mathews, University of North Carolina, Asheville; Rick Parker, NACTA Journal; Ann Marie VanDerZanden, Iowa State University
Concurrent Sessions — Monday, 4:30 PM - 6:00 PM

1076  Land Use Issues at the Urban Fringe: Is there a Fundamental Disconnect between Rural and Urban Analysts? Practitioners?
Northstar B, Second Level

Organized Symposium
This symposium is part of a larger funded project designed to bring together scholars working on fringe land use issues from within rural disciplines, like agricultural economics, and urban disciplines, like city and regional planning. Our premise is that these two groups of applied scholars study the same issues: “rural preservation” and “sprawl control” are essentially two names for the same perceived problem. But they talk to different stakeholders, have different research approaches, read different journals, and often have different perspectives on what is important.

Organizer: Paul Gottlieb, Rutgers University
Moderator: Paul Gottlieb, Rutgers University

The Urban-Rural Fringe: Removing Siloed Scholarship and Planning for the Future
Paul Gottlieb, Rutgers University

A Multidisciplinary Middle-Ground Examination of Land Use Planning Outcomes in the Portland, OR-Vancouver, WA Metropolitan Area
Jeffrey Kline, USDA-Forest Service

Moving Beyond Land Preservation: Planning for Viable Agriculture at the Fringe
Brian Schilling, Rutgers University

Deconstructing the Real Purpose of Agricultural Zoning
Jesse Richardson, West Virginia University; Paul Gottlieb, Rutgers University

1077  Innovation in the Agricultural Bioeconomy: Implications for Yield, Market Concentration, and Regulation in the Crop Sector
Greenway D, Second Level

AARES Organized Symposium
Human-induced climate change is projected to increase the frequency and intensity of extreme events. However, the welfare impacts of these changes are poorly understood. The papers in this session examine the short- and long-run impacts of tornadoes, hurricanes, and ENSO on a range of economically important outcomes, including migration, employment, earnings, and human capital. The authors also consider the effects of ex-ante and ex-post policies, such as disaster assistance and rebuilding and draw implications as to what their appropriate role should be.

Organizers: Gregory Graff, Colorado State University; Elizabeth Nolan, University of Sydney; Alan Randall, University of Sydney
Moderator: Alan Randall, University of Sydney

Panelists: Gregory Graff, Colorado State University; Emily Gray, Australian Bureau for Agricultural and Resource Economics and Sciences; Elizabeth Nolan, University of Sydney; Alan Randall, University of Sydney

Innovation in the Global Bioeconomy
Gregory Graff, Colorado State University; Devon Phillips, University of Minnesota; Philip Pardey, University of Minnesota

Elizabeth Nolan, University of Sydney; Guanming Shi, University of Wisconsin; Paulo Santos, Monash University

Financial Risk Analysis of the Decision to Release a GM Crop Variety
Emily Gray, Australian Bureau for Agricultural and Resource Economics and Sciences
Concurrent Sessions — Monday, 4:30 PM - 6:00 PM

1078  Farm Finance
      Greenway E, Second Level

Selected Paper Presentation
This session examines a number of important topics in farm financial management.

Moderator: Forrest Stegelin, University of Georgia

Modernization of United States Farm Income Forecasts
Kevin Patrick, USDA-Economic Research Service; Ryan Kuhns, USDA-Economic Research Service; Mitchell Morehart, USDA-Economic Research Service; Chris McGath, USDA-Economic Research Service

Federal Crop Insurance and Credit Constraints: Theory and Evidence
Jennifer Ifft, USDA-Economic Research Service; Liang Lu, University of California, Berkeley; Xiaoxue Du, University of California, Berkeley; David Zilberman, University of California, Berkeley

The Crowd-Out Effect of Crop Insurance and Farm Survival and Profitability
Barrett Kirwan, University of Illinois at Urbana-Champaign

1079  The Interdependence of US Food and Energy Policies
      Greenway F, Second Level

Selected Paper Presentation
The policy push toward clean renewable sources of energy has created closer interrelationship between fuel and grain prices. The four studies explore the mechanisms and extent to which grain prices are associated with energy prices.

Moderator: Yizao Liu, University of Connecticut

Food for Stomachs or Fuel for Tanks: What Do Prices Tell Us?
Kashi Kafle, University of Illinois at Urbana-Champaign

The Impacts of Energy Prices on Global Agricultural Commodity Supply, Demand and Trade
Getachew Nigatu, USDA-Economic Research Service; Kim Hjort, USDA-Economic Research Service; James Hansen, USDA-Economic Research Service; Agapi Somwaru

Using Copula to Test Dependency between Energy and Agricultural Commodities
Krishna Koirla, Louisiana State University; Ashok Mishra, Louisiana State University; Joey Mehlborn, University of Tennessee at Martin

1080  Beyond Hedonic Models
      LaSalle, Second Level

Selected Paper Presentation
This session contains applications of and innovations in choice experiments.

Moderator: Cheryl Wachenheim, North Dakota State University

Estimating the Impact of Water Quality on Surrounding Property Values in Upper Big Walnut Creek Watershed in Ohio
Hongxing Liu, The Ohio State University; Sathya Gopalakrishnan, The Ohio State University; Drew Browning, The Ohio State University; Patrick Herak, The Ohio State University; Gajan Sivandran, The Ohio State University

The Effect of Spatial Interpolation on the Hedonic Model: A Case of Forest Damages
Xiaoshu Li, Virginia Polytechnic Institute and State University; Kevin Boyle, Virginia Polytechnic Institute and State University; Thomas Holmes, USDA-Forest Service; Evan Pressier, University of Rhode Island; Klaus Moeltner, Virginia Polytechnic Institute and State University; Andrew Liebhold, USDA-Forest Service; David Orwig, Harvard Forest

Preference Tradeoffs Across Spatial Scales: Developing a Micro Level Sorting Model
Mitchell Liey, The Ohio State University; Allen Klaiber, The Ohio State University

Marketing Ecosystem Services Using a Lindahl-Style Individual Price Auction Mechanism: A Case Study from Vermont
Anwesha Chakrabarti, University of Connecticut; Stephen Swallow, University of Connecticut; Christopher Anderson, University of Washington
Concurrent Sessions — Monday, 4:30 PM - 6:00 PM

1081 Causes and Effects of Farm Programs
Greenway H, Second Level

Selected Paper Presentation
Economic analysis of farm policy, causes of political action, and impacts of farm programs.

Moderator: Matthew Pham, The Ohio State University

Why Do Members of Congress Support Agricultural Protection?
Marc Bellemare, University of Minnesota; Nicholas Carnes, Duke University

Revisiting Decoupled Agricultural Policies in CGE Frameworks: Theory and Empirics
Emanuele Ferrari, European Commission - Joint Research Centre - IPTS; Pierre Boulanger, European Commission - Joint Research Centre - IPTS; Aida Gonzalez-Mellado, Johann Heinrich von Thünen Institute; Scott McDonald, Oxford Brookes University

Are Subsidies Decoupled from Production in the Presence of Incomplete Financial Markets?
Daniel Voica, University of Maryland

1082 Food Marketing
Greenway I, Second Level

Selected Paper Presentation
This session discusses food marketing trends, issues, and policy impacts.

Moderator: Siny Joseph, Kansas State University

Dynamics of the Food Environment in the United States
Senarath Dharmasena, Texas A&M University; Jessica Todd, USDA-Economic Research Service; David Bessler, Texas A&M University; Oral Capps, Jr., Texas A&M University

What’s Cooking? The Rise in Demand for Prepared Foods in the United States
Abigail Okrent, USDA-Economic Research Service; Aylin Kumcu, USDA-Economic Research Service

A Century of Eating: Revealed Preferences for Nutrients and Foods in the United States
Rebekah Shrader, Washington State University; Jeffrey LaFrance, Monash University; Hayley Chouinard, Washington State University; Philip Wandschneider, Washington State University

Long Term Consequences of Changing Global Food Consumption Patterns on US Agricultural Commodity Export Demand
Deepayan Debnath, University of Missouri; Michael Helmar, University of Nevada, Reno; Julian Binfield, University of Missouri; Wyatt Thompson, University of Missouri

1083 Entrepreneurship and Labor: Issues and Transitions
Greenway J, Second Level

Selected Paper Presentation
This session focuses on labor issues within the context of entrepreneurship, self-employment, and small business. During tough economic times, entrepreneurs may be forced to reconsider their self-employment/wage and salary labor trade-off. Entrepreneurial businesses may be more nimble and able to better adapt to changing macroeconomic conditions.

Moderator: Aycan Koksal, Cleveland State University

Employment Transitions among the Self-Employed During the Great Recession
Julia Beckhusen, US Census Bureau

Direct and Indirect Effects of Cash Transfers on Entrepreneurship
Rafael Ribas, University of Illinois at Urbana-Champaign

Small Business Disaster Resilience: The Importance of Informal Insurance
Tia McDonald, Purdue University; Maria Marshall, Purdue University

Veterinary Supply, Gender and Practice Location Choices in the United States, 1990-2010
Tong Wang, Texas AgriLife Research; David Hennessy, Iowa State University; Seong Park, Texas AgriLife Research
**Concurrent Sessions — Monday, 4:30 PM - 6:00 PM**

**1084 Evaluating the Impacts of Cash and Food Transfer Programs in Africa**  
*Lakeshore C, Main Level*

**Selected Paper Presentation**

Papers in this section evaluate the impact of cash transfer programs in Africa. Two of the papers compare cash and food transfers, while the other two papers focus on assets and savings issues surrounding cash transfers.

**Moderator:** Michael Reed, University of Kentucky

Households’ Investments in Productive Assets in Rural Niger: Quasi-experimental Evidences From a Cash Transfer Project

*Quentin Stoeffler, Virginia Polytechnic Institute and State University; Bradford Mills, Virginia Polytechnic Institute and State University*

Resolving the Puzzle of the Conditional Superiority of In-kind versus Cash Food Assistance: Evidence from Niger

*Joanna Upton, Cornell University*

Much Ado about Modalities: A Multicountry Experiment on the Effect of Cash and Food Transfers on Consumption Patterns


How to Bank the Poor? Evidence from a Savings Field Experiment in Malawi

*Jeffrey Flory, Claremont McKenna College*

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**1085 Climate and Water**  
*Lakeshore A, Main Level*

**Selected Paper Presentation**

This session explores the effects of climate change on water management, demand, and availability. Papers explore residential water demand, economic impacts and groundwater use, migration and water shortages, and irrigation demand.

**Moderator:** Wendong Zhang, The Ohio State University

Residential Water Demand, Climate Change and Exogenous Economic Trends

*Corey Lott, University of California, Santa Barbara; Elena Tchigriaeva, University of Nevada, Reno; Kimberly Rollins, University of Nevada, Reno*

Projecting the Economic Impact and Level of Groundwater Use in the Southern High Plains under Alternative Climate Change Forecasts Using a Coupled Economic and Hydrologic Model

*David Brian Willis, Clemson University; Rachna Tewari, Texas Tech University; Jeff Stovall, Espey Consultants, Inc.; Katharine Hayhoe, Texas Tech University; Annette Hernandez, Texas Tech University; Steven Mauget, USDA-ARS Plant Stress and Water Conservation Lab; Gary Leiker, USDA-Agricultural Research Service; Jeffery Johnson, Mississippi State University*

Climate Change, Migration, and Water Shortage

*Ruohong Cai, Princeton University*

Irrigation Demand in a Changing Climate: Using Disaggregate Data to Predict Future Groundwater Use

*Calvin Shaneyfelt, University of Nebraska; Karina Schoengold, University of Nebraska*
### Concurrent Sessions — Monday, 4:30 PM - 6:00 PM

#### 1086  Topics in Bioenergy

**Minnehaha, Second Level**

**Selected Paper Presentation**

Papers in this session address issues pertaining to bioenergy vertical supply chain. Issues range from land use implications of bioenergy markets to assessment of policies designed to facilitate investment in processing plants.

**Moderator:** James MacDonald, USDA-Economic Research Service

- Estimating the Supply of Corn Stover at the Farm Level for Biofuel Production: Taking Account of Farmers’ Willingness to Harvest
  *Jason Bergtold, Kansas State University; Aleksan Shanoyan, Kansas State University; Ira Altman, Southern Illinois University; Jason Fewell, University of Tennessee; Jeffery Williams, Kansas State University*

- Cost Effectiveness of Alternative Policies to Induce Investment in Cellulosic Biofuels
  *Juan Pablo Sesmero, Purdue University; Tanner McCarty, Purdue University*

- Impact of Different Bioenergy Crops on Area Allocation and Cellulosic Ethanol Feedstock Mix
  *Jerome Dumortier, Indiana University-Purdue University Indianapolis*

#### 1087  Rural Wealth Creation

**Lake Harriet, Fourth Level**

**Selected Paper Presentation**

To better understand the wealth creation process in rural areas is not only of theoretical but also practical importance. This session includes four presentations that address the same theme from different perspectives: (1) rural-urban difference in wealth creation, (2) the impact of broadband investment (3) The presence of Shale oil and gas and (4) the impact of hospitals and medical services.

**Moderator:** Peter Stenberg, USDA-Economic Research Service

- Rural and Urban Differences in Household Wealth Accumulation: What Role Do Demographics, Wages and Property Values Play?
  *Alexander Marre, USDA-Economic Research Service*

- The Farm Bill and Rural Economies: Broadband Investment Over the Last Decade
  *Peter Stenberg, USDA-Economic Research Service*

- Land Values and Shale Oil and Gas Development: Research Opportunities, Perils, and Some Evidence from the Pennsylvania-New York Border
  *Jeremy Weber, USDA-Economic Research Service; Claudia Hitaj, USDA-Economic Research Service*

- The Impact of Hospitals on Local Labor Markets in Georgia: Going Beyond IMPLAN
  *Anne Mandich, University of Georgia; Jeffrey Dorfman, University of Georgia*

#### 1088  Insurance: Empirical Issues and Implementation

**Greenway B, Second Level**

**Selected Paper Presentation**

Insurance has long been considered an effective method for managing risk. This session examines crop, dairy margin, and livestock insurance as well as examining insurance structures and investment choices.

**Moderator:** Feng Qiu, University of Alberta

- The Importance of Crop Insurance Subsidies: Examining Enterprise Units
  *Erik O’Donoghue, USDA-Economic Research Service*

- Parametric Bootstrap Tests for Futures Price and Implied Volatility Biases with Application to Rating Dairy Margin Insurance
  *Marin Bozic, University of Minnesota-Twin Cities; John Newton, The Ohio State University; Cameron Thraen, The Ohio State University; Brian Gould, University of Wisconsin*

- Estimating the Effect of Index Based Livestock Insurance on Subjective Wellbeing
  *Christopher Barrett, Cornell University; Kibrom Hirrifiot, Cornell University; Erin Lentz, Bucknell University*