

AAEA ANNUAL MEETING

# BOSTON

MASSACHUSETTS ★★★★★★

2016 July 31 - August 2

BOSTON MARRIOTT COPLEY PLACE

## 2016 Final Program

#AAEA2016



**AAEA**

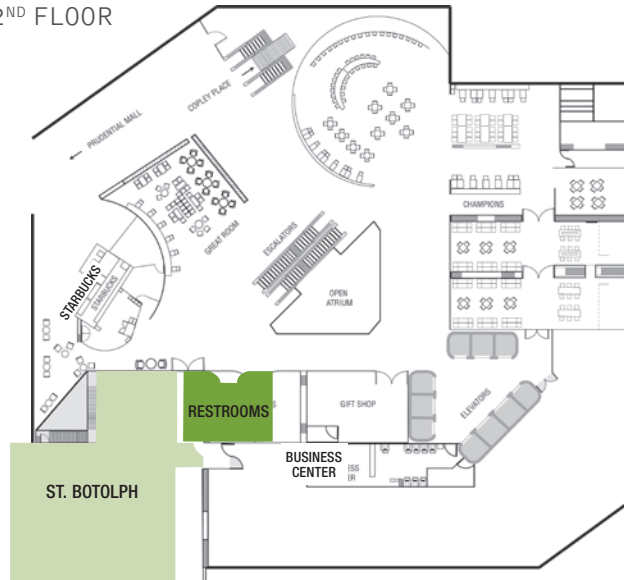
Agricultural & Applied  
Economics Association

# Boston Marriott Copley Place Floorplans

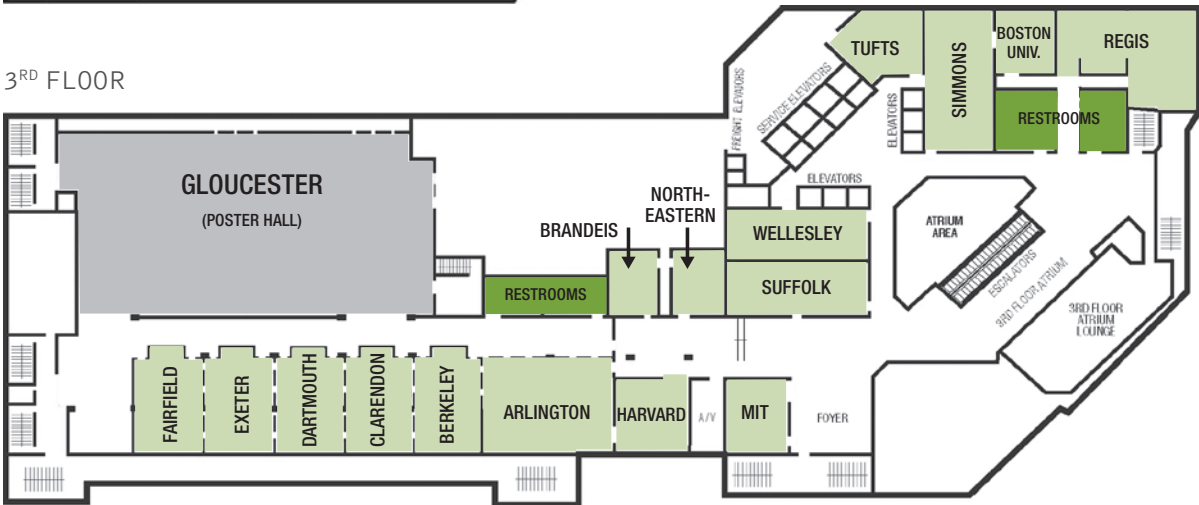
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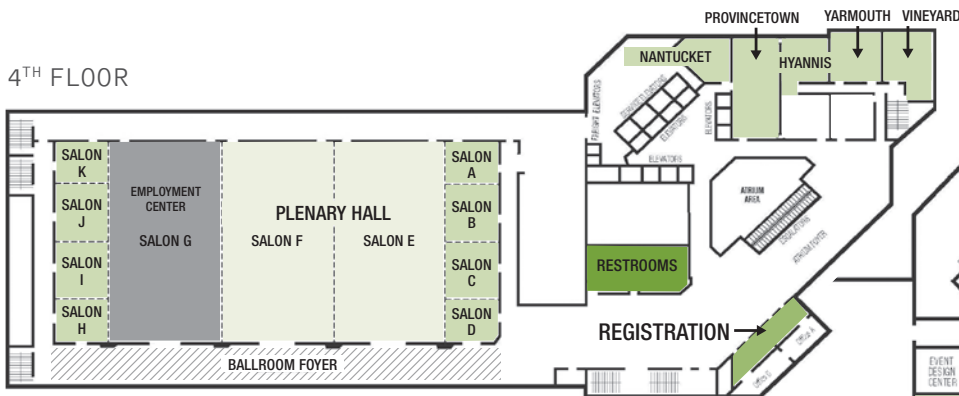
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LEGEND

- REGISTRATION DESK
- PLENARY HALL
- CONCURRENT SESSION ROOM
- EMPLOYMENT CENTER
- POSTER HALL
- EXHIBITORS
- RESTROOMS

# Welcome to Boston!

## AAEA PRESIDENT'S MESSAGE

Thank you very much for being a part of our AAEA Annual Meeting here in Boston. We are pleased to welcome you to this magnificent city. We have a fantastic program planned. Please consider downloading the AAEA Meeting Mobile App, which allows you convenient access to the program and planning tools to organize your time. You can travel a bit more lightly if you have chosen to go green without a paper copy of the program.

Our meeting kicks off with three pre-conferences on Saturday on Big Data in Applied Economics, the “How-To” of Experimental Economics, and a Brewing Industry Tour. Next comes Networking Sunday, which is packed with Section and Committee Meetings, student competitions, and Section/Committee Receptions. The *Keynote Address* at 6 pm on Sunday features **Hilary Hoynes** from the University of California, Berkeley, who will discuss why SNAP matters. Hoynes, who is co-Editor of the *American Economic Review*, explains how food assistance programs impact poverty, food insecurity and health. The Sunday Poster Session directly follows, allowing you to get a first look at the posters and meet authors before flowing into the Welcome Reception to meet up with old friends and make new ones. Please join us for appetizers and beverages to discuss research and catch up.

Monday begins with **Jayson Lusk's Presidential Address** on Consumer Research with Big Data. Jayson is provocative and entertaining, so his talk is a must-see event. As you move into the *Concurrent Sessions*, expect to have to make some hard choices! The program features Invited Paper Sessions, Section Tracks, Selected Presentation Sessions, and Organized Symposia chock full of new work and engaging conversations about applied economics and policy. Highlights on Monday include the Applied Risk Analysis (ARA) section speaker **Jeffrey Frankel**, Harvard University, who will speak at the ARA luncheon and COSBAE, CWAE, Extension luncheon speaker **Ralph Christy**, Cornell. Coffee and tea will be on tap in the morning and again during a break in the afternoon to keep everyone going.

The *Academic Bowl Finals* are at 6 pm on Monday. We will honor and recognize the impressive work of AAEA members at the *Awards and Fellows Recognition Ceremony* at 6:30 pm on Monday. Receiving the highest recognition of Fellow at this meeting are **Klaus Deininger, Jikun Huang, Madhu Khanna, John Miranowski, and Junjie Wu**. Please congratulate them when you see them throughout the meeting. Directly following the awards ceremony, **Daron Acemoglu**, MIT, will speak at the International Section Lecture and Reception. Following that at 9 pm, please socialize at the reunions and receptions that are hosted by universities and other institutions. You don't have to be an alumnus to attend a reunion. It's a great chance to get to know your colleagues from other universities in a casual setting.

Tuesday begins with conversations on economics and policy with **Jo Swinnen's Fellow's Address** at 8:30 am on the Economics and Politics of Food Standards and Global Value Chains. The day continues with a full program of Concurrent Sessions and a Networking Lunch make for a stimulating program. You are welcome to grab some food from the networking lunch and attend the Priorities and Solutions Project session at 11:30. UC Berkeley's **Alain de Janvry** will give the *Galbraith Forum Lecture* on what field experiments can tell us about the low adoption rate of technological innovations presumed to be privately profitable. This wraps up the program in the early evening on Tuesday, followed by the closing reception. The Post-conference Workshops on Wednesday include a USDA Project Directors' meeting, an Extension Tour, and a workshop on Computational Economics.

I am excited to meet you at our Annual Meeting and look forward to talking with you. We thank all of our members who gave their time through organizing tracks and sessions, reviewing selected presentation abstracts, planning Pre- and Post-conference Workshops, organizing student activities and competitions, and serving on committees to select award winners and Fellows. Thanks to all of the participants who have brought their work to Boston to share with colleagues. Thanks to our AAEA Staff for providing excellent meeting development and management. All your efforts are critical to the success of our joint endeavor of creating a meeting space that supports and inspires our work and us.

**Jill J. McCluskey**  
AAEA President



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The mobile app has many great features including:

- Personal customization of your agenda
- Quickly find a session room using the interactive maps
- Find sessions by topic code, AAEA Section Track, or by using the search tool
- Get important updates through the app through Push Notifications
- See who's attending and share contact information by networking with other attendees
- And much more!

AAEA0016-217

# AAEA Leadership

## AGRICULTURAL & APPLIED ECONOMICS ASSOCIATION EXECUTIVE BOARD

**President:** Jill McCluskey, Washington State University

**President-Elect:** Jayson Lusk, Oklahoma State University

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### **Past Presidents**

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John R. Fain 1919

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Walter F. Handschin 1921

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Thomas N. Carver 1926

John I. Falconer 1927

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John D. Black 1932

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William I. Meyers 1934

Waldo E. Grimes 1935

Joseph S. Davis 1936

Oscar B. Jesness 1937

Ernest C. Young 1938

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Foster F. Elliot 1939

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Murray R. Benedict 1941

George S. Wehrwein 1942

Sherman E. Johnson 1943

Eric Englund 1944

Lawrence J. Norton 1945

Frederic V. Waugh 1946

Asher Hobson 1947

William G. Murray 1948

Oris V. Wells 1949

Warren C. Waite 1950

Forrest F. Hill 1951

George H. Aull 1952

Harry R. Weilman 1953

Thomas K. Cowden 1954

Joseph Ackerman 1955

Karl Brandt 1956

H. Brooks James 1957

Harry C. Trelogan 1958

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Per Pinstrup-Andersen 2006

Steven T. Buccola 2007

Otto C. Doering, III 2008

Richard E. Just 2009

Ron Mittelhammer 2010

Thomas W. Hertel 2011

Robert P. King 2012

Richard J. Sexton 2013

Julie A. Caswell 2014

# Thank You to the Selected Presentations Committee

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*AAEA would like to extend a special thank you to the Selected Presentations Committee for their efforts in organizing the sessions taking place here in Boston. The committee, with the help of volunteer topic leaders and over three hundred reviewers fielded almost 1200 abstracts to create the topically diverse, high quality sessions that will be presented over the course of the 2016 Annual Meeting.*

**Chair:** Carlos Carpio, Texas Tech University

Jerome Dumortier, Indiana University – Purdue University Indianapolis

Gary Williams, Texas A&M University

Jason Grant, Virginia Tech

Xiang Bi, University of Florida

Jason Winfree, University of Idaho

**Topic Leaders:**

Amani Elobeid, Iowa State University

Bo Xiong, California Department of Social Services

Brandon McFadden, University of Florida

Carola Grebitus, Arizona State University

Catherine Larochelle, Virginia Tech

Craig Landry, University of Georgia

David Peters, Iowa State University

David Willis, Clemson University

Dayton Lambert, University of Tennessee

Fabio Mattos, University of Nebraska-Lincoln

Georgianne Artz, Iowa State University

Gregory Colson, University of Georgia

Hayley Chouinard, Washington State University

Joshua Berning, University of Georgia

Joshua Woodard, Cornell University

Joyce Chen, The Ohio State University

Juan Sesmero, Purdue University

Karen E. Lewis, University of Tennessee

Kathleen Brooks, University of Nebraska-Lincoln

Keith Fuglie, USDA-Economic Research Service

Levi Russell, Texas A&M University

Maria Bampasidou, Louisiana State University

Matthew Freeman, Mississippi State University

Metin Cakir, University of Minnesota

Michael Delgado, Purdue University

Michael Vassalos, Clemson University

Mikael Sandberg, University of Florida

Nicholas Magnan, University of Georgia

Nicholas Rada, USDA-Economic Research Service

Paula Cordero Salas, University of Alabama

Pierre Mérel, University of California, Davis

Rebekka Dudensing, Texas AgriLife Extension Service

Robert Shupp, Michigan State University

Ryan Williams, Texas Tech University

Samuel Zapata, Texas A&M University

Sebastien Pouliot, Iowa State University

Sergey Rabotyagov, University of Washington

Terry Griffin, Kansas State University

Todd Davis, University of Kentucky

Veronica Pozo, Utah State University

Veronique Theriault, Michigan State University

Thank you to all the 2016 AAEA Annual Meeting Reviewers! This year, AAEA had over 300 Selected Presentation reviewers. This meeting would not be possible without the help of these volunteers.

We would also like to thank the Selected Presentation Paper session moderators for their efforts to actively engage attendees and foster discussion during their session. Thank you!

# Meeting Information

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## REGISTRATION DESK HOURS

*4<sup>th</sup> floor Marriott Copley Place*

Sunday, July 31, 7:30 am-7:30 pm

Monday, August 1, 7:30 am-5:00 pm

Tuesday, August 2, 7:30 am-4:00 pm

## WI-FI ACCESS

AAEA is providing free Wi-Fi access in the Marriott Copley Place meeting space for all 2016 Annual Meeting attendees.

Wi-Fi Network: AAEA

Network Password: AAEA2016

## ACCESSIBILITY

In accordance with the Americans with Disabilities Act, please inform an AAEA staff member if you need special assistance. Staff members are available on site at the Registration Desk to assist you.

## GUESTS

Guests must be registered in order to attend any and all meeting functions, including the Welcome and Closing Receptions, plenary sessions, and all concurrent sessions. Guests include any interested party not professionally in the field of agricultural economics or a related discipline. Children under the age of 16 may attend the meeting for free and do not need to register as a guest.

## TAPING OF SESSIONS

Session content is copyright-protected by AAEA. Recording of any session without the consent of AAEA is prohibited. Any taping done with the consent of the appropriate association is for personal use only and cannot be reproduced or distributed.

## OTHER EVENTS

Registration is required for all speaker series luncheons and banquets, as well as other special events. A limited number of spots may be available for sale on site. If available, spots will be sold at the registration desk up until the day before the event. No spots will be sold on the day of the event.

AAEA is committed to the “True Cost Pledge.” The association attests that the fee associated with each event is the true cost of the price to cover that event.

## ASSOCIATION PHOTOGRAPHER

A professional photographer will be on site at the Annual Meeting taking photos which may be used in future promotional materials for AAEA. If you prefer that you are not included in these photos, please notify the photographer.

# Sponsors

THANK YOU!



## AAEA Trust

- AAEA Student & Early Career Professional Travel Grants
- AARES-AAEA Young Professional Exchange Program (Heading North/Heading South)
- Pre-conference Workshop: Big Data in Applied Economics: Knowledge and Applications



## Farm Foundation

- Pre-conference Workshop: Big Data in Applied Economics: Knowledge and Applications
- Extension/Graduate Student Section Competition



## Center for Behavioral & Experimental Agri-Environmental Research (CBEAR)

- Pre-conference Workshop: The “How-To” of Experimental Economics in Agricultural, Environmental, and Applied Research



## Center for Farm Financial Management (CFFM)

- Extension Reception



## Central University of Finance and Economics (CUFE)

- China Reception



## Council on Food, Agriculture, and Resource Economics (CFARE)

- Pre-conference Workshop: Big Data in Applied Economics: Knowledge and Applications



## Food and Agricultural Marketing Policy Section of AAEA (FAMPS)

- Pre-conference Workshop: Brewing Industry Tour
- Pre-conference Workshop: Big Data in Applied Economics: Knowledge and Applications



## FarmDoc

- Extension Reception



## Food Safety and Nutrition Section of AAEA (FSN)

- Pre-conference Workshop: Big Data in Applied Economics: Knowledge and Applications



## National Crop Insurance Services Inc. (NCIS)

- COSBAE, CWAE, and Extension Luncheon Speaker Series
- Extension Reception



## National Institute of Food and Agriculture (NIFA)

- USDA-NIFA AFRI Project Directors Post-conference Workshop: Economics, Markets & Trade and Environmental Projects



## Office of the Chief Economist (OCE)

- Pre-conference Workshop: Big Data in Applied Economics: Knowledge and Applications



## Sponsors

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### Senior Section of AAEA

- Pre-conference Workshop: Big Data in Applied Economics: Knowledge and Applications



### Southern Risk Management Education Center (SRMEC)- University of Arkansas

- COSBAE, CWAE, and Extension Luncheon Speaker Series



### United Soybean Board

- Pre-conference Workshop: Big Data in Applied Economics: Knowledge and Applications



### United States Department of Agriculture-Economic Research Service (USDA-ERS)

- Galbraith Forum
- Pre-conference Workshop: Big Data in Applied Economics: Knowledge and Applications

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### AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS (AJAE)

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### APPLIED ECONOMIC PERSPECTIVES AND POLICY (AEPP)

#### Managing Editor:

Spiro Stefano, University of Florida

#### Submitted Article Editors:

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Roderick Rejesus, North Carolina State University

### CHOICES MAGAZINE

#### Editor:

Mary Ahearn, USDA-Economic Research Service (Retired)

## Exhibitors — 4th Floor Foyer 2015

### AGECON SEARCH

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### CENTER FOR AGRICULTURAL AND RURAL DEVELOPMENT

The Center for Agricultural and Rural Development (CARD) provides leadership in economic analysis to improve agricultural, food, and environmental policy by developing and applying economic theory, quantitative methods, and interdisciplinary approaches to create relevant knowledge to inform and benefit society.



### ECONOMIC RESEARCH SERVICES, USDA

The Economic Research Service is a primary source of economic information and research in the U.S. Department of Agriculture. The ERS mission is to inform and enhance public and private decision making in economic and policy issues related to agriculture, food, the environment, and rural development.



### USDA/NATIONAL AGRICULTURAL SERVICES (NASS)

NASS is the federal statistical agency responsible for producing official data about U.S. agriculture and is committed to providing timely, accurate and useful statistics in service to U.S. agriculture. We invite you to provide occasional feedback on our products and services. Sign up at [http://bit.ly/NASS\\_Subscriptions](http://bit.ly/NASS_Subscriptions) and look for the "NASS Data User Community".



### PURDUE UNIVERSITY

Purdue's Agricultural Economics Department covers a wide array of issues from development, trade, agribusiness, production, and consumption all the way to environmental and resource issues. We also house some outstanding centers: the Global Trade Analysis Project (GTAP), the Center for Food and Agribusiness (CAB), and the Center for Commercial Agriculture (CCA) to name a few.



### COUNCIL ON FOOD, AGRICULTURAL AND RESOURCE ECONOMICS

The Council on Food, Agricultural and Resource Economics (C-FARE) is a non-profit organization that promotes the work of applied economists, serving as a conduit between the research and outreach community and Washington, D.C., stakeholders.



### IMPLAN

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### UNIVERSITY OF CHICAGO PRESS JOURNALS DIVISION

Founded in 1891, the University of Chicago Press is one of the oldest continuously operating university presses in the United States. Its first scholarly publication, the Journal of Political Economy, is now joined by a strong portfolio of economics, humanities, social science, and physical science journals.



# Undergraduate Recruitment Fair

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**Monday, 8:00 am-4:00 pm**

*Marriott Copley Place, MIT Foyer*

The Undergraduate Recruitment Fair gives undergraduate students who are in Boston a chance to participate in Undergraduate Student Section (SS-AAEA) events and meet and interact with academic departments from around the country that have graduate programs in agricultural and applied economics. Be sure to stop and visit with representatives from these universities in between rounds of the Academic Bowl.

PARTICIPATING ORGANIZATIONS  
INCLUDE:

- Texas A&M University
- University of Georgia
- Purdue University
- University of Arkansas
- Tufts University
- University of Illinois at Urbana-Champaign
- West Virginia University
- Oklahoma State University

# Plenary Sessions

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## AAEA KEYNOTE ADDRESS

**Sunday, July 31st, 6:00-7:00 pm**

Salon E/F, 4th floor



**Hilary Hoynes**, University of California, Berkeley  
“Why SNAP Matters: Effects on Poverty, Food Insecurity and Health”

Hilary Hoynes is a Professor of Economics and Public Policy at the University of California Berkeley where she holds the Haas Distinguished Chair in Economic Disparities. She is the co-editor of the leading journal in economics, *American Economic Review*. Hoynes specializes in the study of poverty and inequality and the effects of government policies on low income families. In recent projects she examines how exposure to Food Stamps and the Earned Income Tax Credit in childhood influences health and human capital contemporaneously and in adulthood. In addition to her faculty appointment, Hoynes has research affiliations at the NBER, the University of California, Davis Center for Poverty Research and the Institute for

Fiscal Studies. Hoynes received her undergraduate degree from Colby College and her PhD from Stanford University in 1992.

## AAEA PRESIDENTIAL ADDRESS

**Monday, August 1, 8:30-9:30 am**

Salon E/F, 4th floor



**Jayson Lusk**, Oklahoma State University  
“Consumer Research with Big Data: Applications from the Food Demand Survey (FooDS)”

Jayson Lusk is Regents Professor and Willard Sparks Endowed Chair in the Department of Agricultural Economics at Oklahoma State University. He has a BS in Food Technology and a PhD in Agricultural Economics from Kansas State University. He held previous faculty appointments at Mississippi State and Purdue University.

Lusk is a food and agricultural economist who studies what we eat and why we eat it. Since 2000, Lusk has published more than 170 journal articles in peer reviewed journals, including several of the most cited papers in the profession. He has served on the editorial councils of eight academic journals including the *American*

*Journal of Agricultural Economics*, the *Journal of Environmental Economics and Management*, and *Food Policy*. He was elected to and served on the executive committees of the Southern Agricultural Economics Association, the Western Agricultural Economics Association, and most recently the Agricultural & Applied Economics Association (AASA) for which he currently serves as the President-Elect. Lusk was named a fellow of the AAEA in 2015.

In 2007, Lusk co-authored a book on experimental auctions and coauthored an undergraduate textbook on agricultural marketing and price analysis. In 2011, Lusk released a book co-authored with Bailey Norwood on the economics of farm animal welfare and also co-edited the *Oxford Handbook on the Economics of Food Consumption and Policy*. In 2013 he published the popular book, *The Food Police*. His latest popular book is *Unnaturally Delicious: How Science and Technology Are Serving up Super Foods to Save the World*.

# Plenary Sessions

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## AAEA FELLOWS ADDRESS

**Tuesday, August 2, 8:30-9:30 am**

Salon E/F, 4th floor



**Johan Swinnen**, University of Leuven

“Dynamic Economics and Politics of Food Standards and Global Value Chains”

Johan Swinnen is Professor of Economics and Director of the LICOS-Centre for Institutions and Economic Performance at the KU Leuven; Senior Research Fellow at the Centre for European Policy Studies (CEPS); a Visiting Scholar at the Centre for Food Security and the Environment (FSE) at Stanford University.

He is a Fellow of the *Agricultural & Applied Economics Association* (AAEA), a Fellow of the *European Association of Agricultural Economists* (EAAE), President of the *International Association of Agricultural Economists* (IAAE, 2012-15) and is the President of *The Beeronomics Society*. He was previously Lead Economist at the World Bank (2003-04) and Economic Advisor at the European Commission (1998-2001), and has been advisor to many international organizations and governments. He holds a PhD from Cornell University.

He has published widely on agricultural and food policies, political economy, institutional reform, trade, global value chains, and standards. His publications have appeared in leading academic journals, such as the *Journal of Economic Literature*, the *Review of Economics and Statistics*, *Science*, *Nature*, *The Lancet*, and leading field journals. His recent books include “*Quality Standards, Value Chains and International Development*” (2015); “*The Economics of Chocolate*” (2015), “*Political Power and Economic Policy*” (2011), “*The Economics of Beer*” (2009), “*Global Supply Chains, Standards, and the Poor*” (CABI), and “*From Marx and Mao to the Market*.”

## AAEA GALBRAITH FORUM

**Tuesday, August 2, 6:15-7:15 pm**

Salon E/F, 4th floor



**Alain de Janvry**, University of California, Berkeley

“The Adoption Puzzle: What Can We Learn from Field Experiments in Agriculture?”

Alain de Janvry is an agricultural economist working on international economic development with expertise in agriculture and rural development. He is a professor of Agriculture and Resource Economics and of Public Policy at the University of California, Berkeley. He was co-director of the World Bank’s “*World Development Report*” (2008) on Agriculture for Development and author with Elisabeth Sadoulet of “*Development Economics: Theory and Practice*” (2016). He is a member of the French National Academy of Agriculture and a Fellow of the *Agricultural & Applied Economics Association* (AAEA).

# Speaker Series Events

## COSBAE, CWAE, & EXTENSION LUNCHEON SPEAKER SERIES

**Monday, August 1, 11:30am-1:00 pm**

Salon E/F, 4th floor

*\* This is a ticketed event.*



### **Professor Ralph D. Christy**

“Caught Between a Discipline and a Profession: Agricultural Economics and the Well-Being of Society”

Professor Ralph D. Christy is Director of Cornell International Institute for Food, Agriculture and Development and Professor of Emerging Markets at Cornell University in Ithaca, New York, where he teaches and conducts food marketing research and educational programs on the economic performance of markets and distribution systems. He has advised industry leaders and public policy makers on food marketing strategies, economic development, and the organization of the global food economy. A PhD graduate of Michigan State University’s Department of Agricultural Economics, Christy is past President of the Agricultural & Applied Economics Association, and is currently a Board Member of the Winthrop

Rockefeller Foundation, WinRock International, and the Agribusiness Capital Fund. He is the author of three books, “A Century of Service: Land Grant Colleges and Universities: 1890-1990” (1992); “Achieving Sustainable Communities in a Global Economy” (2004); and “Emerging Markets” (forthcoming). His most recent research calls attention to the role of creating an enabling environment for accelerating agro-industries’ contributions to sustain economic growth and development.

## APPLIED RISK ANALYSIS INVITED SPEAKER LECTURE AND LUNCHEON

**Monday, August 1, 11:30-1:00 pm**

St. Botolph, 2nd floor

*\* This is a ticketed event.*



### **Professor Jeffrey Frankel**

“How Can Commodity-Exporting Countries Cope with Price Volatility?”

Jeffrey Frankel is James W. Harpel Professor of Capital Formation and Growth at Harvard Kennedy School. He directs the program in International Finance and Macroeconomics at the National Bureau of Economic Research, where he is also on the Business Cycle Dating Committee, which officially declares recessions. He served at the Council of Economic Advisers (CEA) in 1983-84 and 1996-99. As the CEA Member appointed by President Clinton, Frankel’s responsibilities included international economics, macroeconomics, and the environment. Before moving to Harvard, he had been Professor of Economics at the University of California, Berkeley, having joined the faculty in 1979. He has visited the IMF, Federal Reserve Board, and Peterson

Institute for International Economics. His research interests include international finance, monetary and fiscal policy, currencies, crises, commodities, international trade, and global environmental issues. His most cited papers are: “The Endogeneity of the Optimum Currency Area Criteria” (with Rose, 1998) and “Does Trade Cause Growth?” (with Romer, 1999). He writes a monthly column for Project Syndicate. He was born in San Francisco, graduated from Swarthmore College, and received his Economics PhD from MIT.

## Speaker Series Events (continued)

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### INTERNATIONAL LECTURE AND RECEPTION

**Monday, August 1, 8:00-9:30 pm**

*St. Botolph, 2nd floor*

*\* This is a ticketed event.*



**Professor Daron Acemoglu**

“Is Democracy an Obstacle to Economic Growth?”

Daron Acemoglu is Charles P. Kindleberger Professor of Applied Economics in the Department of Economics at the Massachusetts Institute of Technology and a member of the Economic Growth program of the Canadian Institute of Advanced Research. He is also affiliated with the National Bureau Economic Research, the Center for Economic Performance, the Center for Economic Policy Research, and Microsoft Research Center.

He is an elected Fellow of the American Academy of Arts and Sciences, the Econometric Society, the European Economic Association, and the Society of Labor Economists.

Daron Acemoglu received a BA in economics at the University of York in 1989, a MSc in mathematical economics and econometrics at the London School of Economics in 1990, and a PhD in economics at the London School of Economics in 1992. Since 1993, he has held the academic position of Lecturer at the London School of Economics, and Assistant Professor, Pentti Kouri Associate Professor and Professor of Economics at MIT.

He has received numerous awards and fellowships, including the award for best paper published in the *Economic Journal* in 1996 for his paper “Consumer Confidence and Rational Expectations: Are Agents’ Beliefs Consistent With Theory?”, the inaugural T.W. Shultz Prize from the University of Chicago in 2004, and the inaugural Sherwin Rosen Award for outstanding contribution to labor economics in 2004, Distinguished Science Award from the Turkish Sciences Association in 2006, the John von Neumann Award, Rajk College, Budapest in 2007.

He was also awarded the John Bates Clark Medal in 2005, given every two years to the best economist in the United States under the age of 40 by the American Economic Association, and holds an Honorary Doctorate from the University of Utrecht.

His work has been published in leading scholarly journals, including the *American Economic Review*, *Econometrica*, *Journal of Political Economy*, *Quarterly Journal Economics*, *Review of Economic Studies*, and *Mathematics of Operations Research*.

Daron Acemoglu’s research covers a wide range of areas within economics, including political economy, economic development and growth, human capital theory, growth theory, innovation, search theory, network economics, and learning.

Daron Acemoglu is also the co-editor of “Econometrica” and of the “National Bureau of Economic Research Macroeconomic Annual.”

# Meeting Timeline

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## Saturday, July 30

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### **8:00 am-4:00 pm** *Ticketed Event*

Pre-Conference Workshop: Big Data in Applied Economics: Knowledge and Applications  
*Arlington, 3rd floor*

### **1:00-4:30 pm** *Ticketed Event*

Pre-Conference Workshop Breakouts: Big Data in Applied Economics: Knowledge and Applications  
*Harvard, Brandeis, and MIT, 3rd floor*

### **11:00 am-4:45 pm** *Ticketed Event*

Pre-conference Workshop: Brewing Industry Tour  
Offsite

### **1:00-2:00 pm**

Government Relations Committee Meeting  
*Provincetown, 4th floor*

### **1:00-5:00 pm** *Ticketed Event*

Pre-conference Workshop: The “How-To” of Experimental Economics in Agricultural, Environmental and Applied Research  
*Wellesley, 3rd floor*

### **3:00-5:00 pm**

Agribusiness: An International Journal Business Meeting  
*Simmons, 3rd floor*

## Sunday, July 31

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**Registration Desk Hours:** 7:30 am-7:30 pm, 4th floor

**Employment Center Hours:** 9:30 am-5:00 pm, Salon G, 4th floor

**Professional Headshots Hours:** 1:00-6:00 pm, 4th floor

### **7:30-9:00 am**

Section Leader Meeting  
*Wellesley, 3rd floor*

### **8:00-11:00 am**

C-FARE Board Meeting  
*Simmons, 3rd floor*

### **8:00 am-1:30 pm**

AJAE Editors' Meeting  
*Tufts, 3rd floor*

### **8:00 am-3:00 pm**

GSS Extension Competition  
*MIT, 3rd floor*

### **8:00 am-3:00 pm**

GSS Case Study Competition  
*Harvard, Brandeis and Northeastern, 3rd floor*

### **9:30-11:00 am**

FSN Section Business Meeting  
*Regis, 3rd floor*

### **9:30-10:30 am**

Mentorship Committee Meeting  
*Suffolk, 3rd floor*



# Meeting Timeline

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## **10:00-11:00 am**

ARA Section Business Meeting  
*Clarendon, 3rd floor*

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## **10:00-11:00 am**

CWAE Section Business Meeting  
*Dartmouth, 3rd floor*

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## **10:00-11:00 am**

ESIRC Committee Meeting  
*Exeter, 3rd floor*

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## **11:00 am-12:00 pm**

Communications Committee Meeting  
*Fairfield, 3rd floor*

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## **11:00 am-12:00 pm**

COSBAE Section Business Meeting  
*Nantucket, 4th floor*

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## **11:00 am-12:00 pm**

Employment Services Committee Meeting  
*Salon G, 4th floor*

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## **11:15 am-12:15 pm**

BEER Section Business Meeting  
*Exeter, 3rd floor*

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## **11:30 am-1:00 pm**

Africa Section Business Meeting  
*Suffolk, 3rd floor*

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## **11:30 am-12:30 pm**

AEPP Editorial Board Meeting  
*Clarendon, 3rd floor*

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## **12:00-1:00 pm**

AAEA Trust Committee Meeting  
*Regis, 3rd floor*

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## **12:00-2:00 pm**

EOHDS Spreadsheet Competition  
*Boston University, 3rd floor*

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## **12:30-1:30 pm**

AFM Section Business Meeting  
*Dartmouth, 3rd floor*

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## **12:30-2:00 pm**

TLC Section Business Meeting  
*Exeter, 3rd floor*

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## **1:00-2:30 pm**

International Section Business Meeting  
*Fairfield, 3rd floor*

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## **1:00-3:00 pm**

NAAEA Business Meeting  
*Simmons, 3rd floor*

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# Meeting Timeline

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## **1:15-2:15 pm**

Membership Committee Meeting  
*Regis, 3rd floor*

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## **1:30-2:30 pm**

AJAE Editorial Board Meeting  
*Tufts, 3rd floor*

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## **1:30-2:30 pm**

Experimental Economics Section Business Meeting  
*Nantucket, 4th floor*

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## **2:00-3:00 pm**

ENV Section Business Meeting  
*Suffolk, 3rd floor*

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## **2:00-3:00 pm**

Econometrics Section Business Meeting  
*Clarendon, 3rd floor*

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## **2:30-3:30 pm**

Related Journal Editors' Meeting  
*Tufts, 3rd floor*

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## **2:30-3:30 pm**

Finance Committee Meeting  
*Dartmouth, 3rd floor*

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## **2:30-4:30 pm**

Latin American Section Business Meeting and Reception  
*Exeter, 3rd floor*

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## **3:00-4:30 pm**

AEM Section Business Meeting  
*Simmons, 3rd floor*

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## **3:00-4:00 pm**

CRENET Section Business Meeting  
*Nantucket, 4th floor*

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## **3:00-5:00 pm**

Extension Section Business Meeting  
*Regis, 3rd floor*

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## **3:00-5:30 pm**

Student Section Paper Competition  
*Boston University, 3rd floor*

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## **3:30-4:30 pm**

Publications Committee Meeting  
*Suffolk, 3rd floor*

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## **3:30-4:30 pm**

Mentoring Recognition Reception  
*Clarendon, 3rd floor*

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## **4:00-6:00 pm**

Australasia Section Business Meeting  
*Dartmouth, 3rd floor*

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# Meeting Timeline

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## **4:00-5:00 pm**

FAMPS Section Business Meeting and Reception  
*Wellesley, 3rd floor*

## **3:00-4:30 pm**

Senior Section Business Meeting and Reception  
*Fairfield, 3rd floor*

## **4:30-5:30pm**

Choices Editorial Board Meeting  
*Nantucket, 4th floor*

## **4:30-5:30 pm**

Early Career Professionals Networking Reception  
*St. Botolph, 2nd floor*

## **5:00-6:00 pm**

Extension Section Reception  
*Arlington, 3rd floor*

## **5:00-6:00 pm**

COSBAE & CWAE Section Reception  
*Suffolk, 3rd floor*

## **4:30-5:30 pm**

AEM Section Reception  
*Simmons, 3rd floor*

## **5:00-6:00 pm**

China Section Business Meeting and Reception  
*Berkeley, 3rd floor*

## **6:00-7:00 pm**

Keynote Address: Hilary Hoynes, University of California, Berkeley  
*Salons E/F, 4th floor*

## **7:00-8:00 pm**

Sunday Poster Session  
*Gloucester, 3rd floor*

## **7:00-9:00 pm**

SS-AAEA Student Mixer and Academic Bowl Orientation  
*Arlington, 3rd floor*

## **8:00-10:00 pm**

Welcome Reception  
*Salons E/F and Ballroom Foyer, 4th floor*

# Meeting Timeline

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## Monday, August 1

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**Registration Desk Hours:** 7:30 am-5:00 pm, 4th floor

**Employment Center Hours:** 9:30 am-5:00 pm, Salon G, 4th floor

**Exhibit Booth Hours:** 8:00 am-4:00 pm, Ballroom Foyer, 4th floor

**Poster Hall Hours:** 8:00 am-4:00 pm, Gloucester, 3rd floor

### 8:00-8:30 am

AAEA Business Meeting

Salons E/F, 4th floor

### 8:00 am-4:00 pm

SS-AAEA Academic Bowl

MIT, Brandeis, and Northeastern, 3rd floor

### 8:00 am-4:00 pm

Undergraduate Recruitment Fair

MIT Foyer, 3rd floor

### 8:30-9:30 am

AAEA Presidential Address: Jayson Lusk, Oklahoma State University

Salon E/F, 4th floor

### 9:45-11:15 am

AAEA Concurrent Sessions (see page 31)

### 9:45 am-11:15 am

BREXIT

Salon C

### 11:30 am-1:00 pm

Selected Poster Presentations

Gloucester, 3rd floor

### 11:30 am-1:00 pm

COSBAE & CWAE and Extension Section Speaker Series and Luncheon

Salon E/F, 4th floor

### 11:30 am-1:00 pm

Applied Risk Analysis Invited Speaker Lecture and Luncheon

St. Botolph, 2nd floor

### 1:00-2:30 pm

AAEA Concurrent Sessions (see page 31)

### 1:30-4:00 pm

GSS Case Study Finals

Tufts and Boston University, 3rd floor

### 2:45-4:15 pm

AAEA Concurrent Sessions (see page 31)

### 4:30-6:00 pm

AAEA Concurrent Sessions (see page 31)

### 6:00-6:30 pm

SS-AAEA Academic Bowl Finals

Salons E/F, 4th floor

### 6:30-7:45 pm

AAEA Awards and Fellows Recognition Ceremony

Salons E/F, 4th floor

# Meeting Timeline

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## 8:00-9:00 pm

Student Section Business Meeting

*Provincetown, 4th floor*

## 8:00-9:30 pm

International Lecture and Reception

*St. Botolph, 2nd floor*

## Reunions & Receptions

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### Monday, 9:00 –11:00 pm

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*Various rooms, 3rd floor*

**University of Connecticut, University of Massachusetts, University of Rhode Island, Clark University, Tufts University**

*Dartmouth*

**Cornell University, The Pennsylvania State University**

*Harvard*

**Washington State University, Oregon State University, University of Idaho**

*Arlington*

**Giannini Foundation of Agricultural Economics, University of California, Berkeley, University of California, Davis,**

**University of California, Riverside**

*Clarendon/Berkeley*

**North Carolina State University, University of Maryland, Virginia Tech, Journal of Environmental Economics and Management**

*Wellesley*

**Oklahoma State University, University of Missouri, Kansas State University, University of Nebraska-Lincoln**

*Suffolk*

**University of Minnesota, Iowa State University, University of Wisconsin**

*Simmons*

**University of Illinois at Urbana-Champaign, Purdue University, Michigan State University, The Ohio State University**

*Fairfield/Exeter*

**Texas A&M University, University of Arkansas, University of Georgia, University of Florida, Auburn University, Mississippi State University**

*Regis*

**Canadian Agricultural Economics Society (CAES)**

*MIT*

**Renmin University of China**

*Tufts*

# Meeting Timeline

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## Tuesday, August 2

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**Registration Desk Hours:** 7:30 am-4:00 pm, 4th floor

**Employment Center Hours:** 9:30 am-4:00 pm, Salon G, 4th floor

**Exhibit Booth Hours:** 8:00 am-4:00 pm, Ballroom Foyer, 4th floor

**Poster Hall Hours:** 8:00 am-2:00 pm, Gloucester, 3rd floor

### 8:30-9:30 am

AAEA Fellows Address: Jo Swinnen, University of Leuven

Salon E/F, 4th floor

### 9:45-11:15 am

AAEA Concurrent Sessions (see page 31)

### 11:15 am-12:45 pm

Selected Poster Presentations

Gloucester, 3rd floor

### 11:15 am-12:45 pm

Networking Lunch

Ballroom Foyer, 4th floor

### 11:30 am-12:30 pm

Galbraith Committee Meeting

Salon D, 4th floor

### 11:30 am-12:30 pm

IBES Section Business Meeting

Salon C, 4th floor

### 11:30 am-12:45 pm

Working with the Media Training Session

Provincetown, 4th floor

### 1:00-2:30 pm

AAEA Concurrent Sessions (see page 31)

### 2:45-4:15 pm

AAEA Concurrent Sessions (see page 31)

### 4:30-6:00 pm

AAEA Concurrent Sessions (see page 31)

### 6:15-7:15 pm

AAEA Galbraith Forum: Alain de Janvry, University of California, Berkeley

Salons E/F, 4th floor

### 7:15-8:15 pm

Closing Reception

Salon G, 4th floor

## Wednesday, August 3

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### 8:00 am-5:00 pm

Post-conference Workshop: Applied Computational Economics

Suffolk, 3rd floor

### 8:00 am-12:00 pm, continued at 1:00-5:00 pm

Post-conference Workshop: USDA-NIFA AFRI Project Directors Workshop – Economics, Markets, & Trade and Environmental & Natural Resource Economics Projects

Arlington, 3rd floor

## Posters

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Gloucester, 3rd floor

All posters will be on display Sunday through Tuesday. A Poster Session will be held on Sunday evening 7:00-8:00 pm. *Complimentary drink tickets (redeemable at the Welcome Reception) to the first 300 attendees to visit the poster hall.* Poster presenters with odd poster numbers will present at 11:30 am-1:00 pm on Monday and poster presenters with even poster numbers will present 11:15 am-12:45 pm on Tuesday.

### Agribusiness Economics and Management

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- 2** Commodity Investment Flows and Crude Oil Futures Returns  
*Lei Yan*, Illinois at Urbana-Champaign; Scott H. Irwin, University of Illinois at Urbana-Champaign; Dwight R. Sanders, Southern Illinois University
- 3** Determinants of Weanling Thoroughbred Auction Prices  
*Charlotte R. Hansen*, University of Kentucky; Christina Jill Stowe, University of Kentucky
- 4** Price Discovery and Price Transparency in the U.S. Cheese Industry  
*Yuliya Bolotova*, Clemson University
- 5** Economics of Aflatoxin Risk Management in Selected Southern States  
*Mark L. Waller*, Texas A&M AgriLife Extension Service; Joe L. Outlaw, Texas A&M University; James W. Richardson, Texas A&M University; Nicholas Richburg, Texas A&M University; Mark Welch, Texas A&M University; Levi A. Russell, Texas A&M University; Larry Falconer, Mississippi State University; Kurt M. Guidry, Louisiana State University; Nathan Smith, The University of Georgia
- 6** Comprehensive Partial Budgets for Cover Crops in Midwest Row Crop Agriculture  
*Fangge Liu*, Iowa State University; Alejandro Plastina, Iowa State University

### Ag Finance and Farm Management

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- 7** Optimally Achieving Milk Bulk Tank Somatic Cell Count Thresholds  
*Jason Troendle*, Cornell University; Loren W. Tauer, Cornell University; Yrjo Grohn, Cornell University
- 8** Financial Characteristics of Arkansas Farms, 2002-2013  
*Yuying Zhao*, University of Arkansas; Bruce L. Ahrendsen, University of Arkansas; Bruce L. Dixon, University of Arkansas; Diana Danforth, University of Arkansas
- 9** U.S. Farm Transition and the Process of Transferring Land Ownership  
*James Michael Harris*, USDA-Economic Research Service; Ashok K. Mishra, Arizona State University
- 10** Economic Incentives, Transaction Costs and Carbon Trading: The Economics of Alberta's Reduced Age to Harvest Protocol  
*Paul J. Thomassin*, McGill University
- 11** The Value of Social Capital in Cropland Leasing Relationships  
*Mykel R. Taylor*, Kansas State University; *Allen M. Featherstone*, Kansas State University

### Behavioral & Institutional Economics

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- 12** Is the Physical Activity of Immigrants Influenced by Moving to America? An Empirical Analysis of Immigrants Using Metabolic Equivalence Time Use Data  
*Chelsea E. Chambers*, University of Georgia; *Joshua P. Berning*, University of Georgia
- 13** Risk, Technology Adoption and Land Use Dynamics: Economics of Multi-Purpose Forestry and Agro-Forestry Practices in Ethiopia  
*Habtamu Y. Ayenew*, Technical University of Munich; Getachew Abate Kassa, Technical University of Munich; Johannes Sauer, Technical University of Munich
- 14** Validating the Use of Time Preference Proxies to Explain Effects on Health Outcomes  
*Fuad Alagsam*, University of Kentucky; Jack Schieffer, University of Kentucky
- 15** Eliciting Trust in Information Sources for Nanotechnology  
*Seda Erdem*, University of Stirling

## Posters

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- 16** Eliciting Demand for Flood Insurance Against Climate Change: A Choice Experiment  
*Ching-Cheng Chang*, Academia Sinica; Ya-Pin Lyu, APEC Research Center for Typhoon and Society; Shu-Ling Chen, National Taipei University
- 17** The Effects of Urbanization on Rural Land Rental Market Participation: Household Panel Evidence from China  
Xiang Bi, University of Florida; *Dengwang Li*, Renmin University of China; Huangang Qiu, Renmin University of China; Xiaohui Tian, Renmin University of China; Wendong Zhang, Iowa State University

## Demand and Price Analysis

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- 18** The CWT Program Effects: An Analysis of Retail Fluid Milk Pricing in Selected U.S. Cities  
Ralph I. Mondesir; *Yuliya Bolotova*, Clemson University; William Bridges, Clemson University; Scott R. Templeton, Clemson University
- 19** Do SNAP Beneficiaries Pay Different Prices throughout the Benefit Month?  
Travis A. Smith, University of Georgia; *Pourya Valizadeh*, University of Georgia
- 20** Co-Movements of Energy-Bioenergy-Agricultural Commodity Prices: New Empirical Evidence from the USA  
*Md Zabid Iqbal*, Iowa State University
- 21** Consumption Patterns of Urban Punjab of Pakistan: Evidence for HIES 2013-14  
*Waqar Akram*, Sukkur Institute of Business Administration; Shida Rastegari Henneberry, Oklahoma State University
- 22** Potential Consumers in Consumer Behavior Models  
*Yuan Jiang*, University of Florida; Hyeyoung Kim, University of Florida; Lisa A. House, University of Florida; Susan S. Percival, University of Florida
- 23** Reduced Tariffs of Net Energy Metering: More Competitive Retail Rates of Electric Utilities Come Next?  
*Dyna Ty*, University of Georgia; John C. Bergstrom, University of Georgia
- 24** Impact of Dam's Age and Parity on Yearling's Price and Future Performance  
*Xiurui Cui*, University of Kentucky
- 25** Estimating Price Flexibility of Demand in Agricultural Commodities  
*Madhav Regmi*, Kansas State University
- 27** The Interaction of Biofuel Production and Labeling of New Plant Breeding Techniques  
*Thomas Johann Venus*, Wageningen University; Dušan Drabik, Wageningen University
- 28** Changing Economic Geography of U.S. Grain Transportation Markets  
*Heidi Schweizer*, University of California, Davis
- 29** Intra-School District Capitalization of Property Tax Rates  
*Mitchell R. Livy*, California State University, Fullerton

## Environmental and Nonmarket Valuation

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- 30** Gender and Preference Heterogeneity for Direct Seeded Rice: A Case Study of Men and Women Farmers in Maharashtra, India  
*Md Tajuddin Khan Sr.*, International Food Policy Research Institute; Avinash Kishore, International Food Policy Research Institute; P K Joshi, International Food Policy Research Institute
- 31** Pollution Comes with the Wind: The Effects of Transboundary Air Pollutants from China on Air Ambient Conditions in South Korea  
*Moon Joon Kim*, North Carolina State University
- 32** Understanding the Impact of Offshore Wind Energy Development on Beach Trip Demand to the Coast of North Carolina  
*Amanda J. Harker*, University of Georgia; Craig Landry, University of Georgia; John C. Bergstrom, University of Georgia
- 33** Estimation of Spillover Effects from Large Scale Adoption of Bt Corn in the Philippines  
*Zachary S. Brown*, North Carolina State University; Roderick M. Reyes, North Carolina State University; Jose M. Yorobe Jr., University of the Philippines - Los Banos; Lawson Connor, North Carolina State University
- 34** The Economic Value of Open Space in Riverside County  
*James Yoo*, California Baptist University



## Posters

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- 35** Valuing New Invasive Species Management Programs in the Context of Pre-existing Regional Water Quality and Resource Management Programs  
*Kimberly S. Rollins*, University of Nevada, Reno; Michael H. Taylor, University of Nevada, Reno
- 36** An Economic Approach to Measuring the Impacts of Higher Temperatures on Wildfire Size in the Western United States  
*Dallas W. Wood*, RTI International

## Experimental Economics

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- 37** How Safety Recalls Affect Consumer Preferences for Eggs: An Experimental Analysis  
*Tongzhe Li*, University of Delaware; John C. Bernard, University of Delaware; Zachary A. Johnston, University of Delaware; Kent D. Messer, University of Delaware; Harry M. Kaiser, Cornell University
- 38** Experimental Evidence of Nutrition Interventions in Northern Ghana  
*Yacob A. Zereyesus*, Kansas State University; Vincent Amanor-Boadu, Kansas State University; Francis Tsiboe, University of Arkansas; Kara Ross, Kansas State University; Aleksan Shanoyan, Kansas State University
- 39** Linking Agricultural Subsidies and Ambient Water Quality to Reduce Nutrient Loss  
*Leah H. Palm-Forster*, University of Delaware; Jordan F. Suter, Colorado State University; Kent D. Messer, University of Delaware
- 40** Loss Aversion, Temporal Framing, and Household Energy Decisions  
*Carrie A. Gill*, University of Rhode Island; Stephen Atlas, University of Rhode Island

## Food and Agricultural Marketing

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- 41** An Evaluation of Factors Influencing Consumer Purchases of Cut Flowers  
*Zongyu Li*, Washington State University; Vicki A. McCracken, Washington State University; Jenny R. Connolly, Washington State University
- 42** Consumers' Willingness to Pay for Tennessee Wine  
Connie Everett, University of Tennessee; *Christopher N. Boyer*, University of Tennessee; Kimberly L. Jensen, University of Tennessee; David W. Hughes, University of Tennessee
- 43** Is the Grass Really Greener across the State Line? A Regional Analysis of State Branding Programs  
*Clinton L. Neill*, Oklahoma State University; Rodney B. Holcomb, Oklahoma State University
- 44** Effects of 2015 Avian Influenza Virus on Price of Eggs and Economic Impact to Egg Producers at the Wholesale Level in the United States: Stochastic Partial Equilibrium Hedonic Price Analysis  
Senarath Dharmasena, Texas A&M University; *Michelle Paukett*, Texas A&M University
- 45** Optimal Licensing Contracts and Market Competition  
*Tian Xia*, Kansas State University; Zhengfei Guan, University of Florida
- 46** Product Differentiation and Cost Pass-through  
*Jens-Peter Loy*, University of Kiel; Christoph Weiss, Vienna University of Economics; Thomas Glauben, Leibniz Institute of Agricultural Development in Transition Economies (IAMO)
- 47** The Value of Information in a Whole-chain Traceability System for Beef Cattle – Applications to Meat Tenderness, Injection-Site Lesion Control, and Feed Efficiency  
*Candi Ge*, Oklahoma State University; Brian D. Adam, Oklahoma State University
- 48** Zero Inflated Ordered Probit Approach to Modeling Mushroom Consumption in the U.S.  
*Yuan Jiang*, University of Florida; Hyeyoung Kim, University of Florida; Lisa A. House, University of Florida; Susan S. Percival, University of Florida
- 49** Examining the Effect of Food Recalls on Demand: The Case of Beef in the U.S.  
*Samane Zarebanadkoki*, University of Kentucky; Yuqing Zheng, University of Kentucky; Timothy A. Woods, University of Kentucky; Steven C. Buck, University of Kentucky
- 50** Willingness to Pay for the “Taste of Europe”: Country of Origin Labeling Controversy in Chinese Market  
*Chenguang Li*, University College Dublin; Junfei Bai, China Agricultural University; Zhifeng Gao, University of Florida

## Posters

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- 51** How Much Do Japanese Really Care about Food Origin? A Case of Beef Bowl Shop  
Koichi Yamaura, Tokyo University of Agriculture and Technology; **Hikaru Hanawa Peterson**, University of Minnesota
- 52** Bridging the Gap: Food Choices and the Dietary Guidelines for Americans  
**Jeta Rudi**, University of Minnesota

## Food and Agricultural Policy Analysis

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- 53** Are Dairy Subsidies Effective to Increase Milk Productivity and Income in Kosovo? A Propensity Score Matching Approach  
**Egzon Bajrami**, University of Arkansas; Eric J. Wailes, University of Arkansas; Bruce L. Dixon, University of Arkansas; Arben Musliu, University of Prishtina
- 54** Random-Parameter PSM: A Novel Method of Program Evaluation Suitable when Program Participation is affected by Unobservable Variables  
**Taro Takahashi**, University of Bristol; Toru Nakajima, The University of Tokyo; Daiki Matsutaka, The University of Tokyo; Janet Dwyer, Countryside and Community Research Institute
- 55** Worldwide Market and Welfare Impacts From Introducing GM Oranges to Manage Citrus Greening  
**Ariel Singerman**, University of Florida; Sergio H. Lence, Iowa State University
- 56** Crop Insurance in India: Drivers and Impact  
Aditya KS, Indian Agricultural Research Institute; **Avinash Kishore**, International Food Policy Research Institute; P K Joshi, International Food Policy Research Institute
- 57** Effects of Smallholder Diversification on Rural Household Food Security in Kenya  
**Miltone W. Ayieko**, Egerton University; Jin Songqing, Michigan State University; David L. Tschirley, Michigan State University
- 58** Preferential Property Tax, Second Home Buyer and Land Cover Change  
**Charles A. Towe**, University of Connecticut; Zhenshan Chen, University of Connecticut
- 59** Whether Debt behaves like a Kuznets Curve with Rural Household Income? A Panel Rural Household Data Analyses in India from 2001 to 2012  
**Madhusudan Bhattarai**, International Food Policy Research Institute; Padmaja P, Center for Experimental Social Sciences; P K Joshi, International Food Policy Research Institute
- 60** Assessing the Economic Impact of a NCPN-Grapes Center at Farm and Regional Level in Eastern U.S.  
**Leslie J. Verteramo Chiu**, Cornell University; Miguel I. Gomez, Cornell University
- 61** Value of Parsimonious Nutritional Information in a Framed Field Experiment  
**Jisung Jo**, Oklahoma State University; Jayson L. Lusk, Oklahoma State University; Laurent F. Muller, Institut National de la Recherche Agronomique; Bernard Ruffieux, Institut National de la Recherche Agronomique
- 62** Florida Citrus Growers First Impressions on Genetically Modified Trees  
**Ariel Singerman**, University of Florida; Maria P. Useche, University of Florida
- 63** Relative Economic Efficiency of Ethanol and Biodiesel  
Dušan Drabik, Wageningen University; Thomas Johann Venus, Wageningen University; **Harry De Gorter**, Cornell University
- 64** Changes in Southern Cotton and Peanut Producing Regions  
**Shelbi Knisley**, USDA-Economic Research Service; Mark S. Ash, USDA-Economic Research Service

## Food Safety and Nutrition

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- 65** Can Food Safety Shortfalls Disrupt Nutritional Gains from Increased Animal-Source Food Consumption? Evidence from Meat Consumption and Illness on Eid al Adha  
**Benjamin Schwab**, Kansas State University; Ralph Armah, Kansas State University
- 66** Does the Food Environment Play a Role in Prevalence of Obesity and Diabetes in the United States?  
**Nestor M. Rodriguez**, USDA-Economic Research Service
- 67** Time Preference, Nutrition Education, and the Body Mass Index  
**Yanliang Yang**, Virginia Tech; Dae Hee Han, Virginia Tech; George C. Davis, Virginia Tech

## Posters

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- 68** Impacts of Food Safety Events on Consumer Awareness and U.S. Meat Demand  
*Aaron M. Ates*, Oklahoma State University; Jayson L. Lusk, Oklahoma State University
- 69** Food Stamps, Food Insufficiency, and Health of the Elderly  
*Pimbuca Rusmevichientong*, California State University Fullerton; Miguel I. Gomez, Cornell University; Harry M. Kaiser, Cornell University

## Household and Labor Economics

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- 70** The Economic Implications of Social Capital on Hispanic Entrepreneurship  
*Ariana Torres*, Purdue University; Maria I. Marshall, Purdue University; Michael Delgado, Purdue University
- 71** The Effects of Air Pollution on Education and Human Capital: Evidence from Chinese Cities  
*Niall Williams*, Connecticut College; Wei Zhang, Connecticut College
- 72** Migration Impacts on Schooling: Case Study of Rural Nepal  
*Deborah A. Williams*, Louisiana State University; Krishna P. Paudel, Louisiana State University; Mark J. Schafer, Louisiana State University
- 73** Religiosity and Female Autonomy in Indonesia  
*Milda Irbamni*, University of Minnesota
- 74** Health Care Service Access and Constrained Choices of U.S. Farm Workers  
*Tianyuan Luo*, University of Georgia; Cesar L. Escalante, University of Georgia

## Industrial Org./Supply Chain Management

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- 75** Content Analysis of Wine Tasting Notes on Wine Prices  
*Kuan-Ju Chen*, Washington State University; Jill J. McCluskey, Washington State University
- 76** The Milk Price Effect of a Private Supply Management Program in the U.S. Dairy Industry  
*Yuliya Bolotova*, Clemson University
- 77** Food Price, Firm Productivity and Market Structure in Indonesian Food and Beverages Industry  
*Xi He*, University of Connecticut; Nathan Fiala, University of Connecticut
- 78** Modelling Post-harvest Facility Location Problem Using Remote Sensing Data  
*Xiaoli Fan*, Cornell University; Miguel I. Gomez, Cornell University

## International Development

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- 79** 'Land Grab' or Development Opportunity? - The Effect of Transnational Farmland Investments on the Ghanaian Economy  
*Donggul Choi*, University of Minnesota, Twin Cities
- 80** Determinants of Microfinance Borrowers' Financial and Temporal Endurance through Economic Adversities: A Split-Population Duration Analysis  
*Hofner D. Rusiana*, University of Georgia; Cesar L. Escalante, University of Georgia
- 81** Revisiting on Tractorization of Smallholding Agriculture?: Diffusion of Tractor across 16 States of India from 1960 to 2012  
*Madhusudan Bhattarai*, International Food Policy Research Institute; Ravindra Singh Shekhawat, ICAR-IASRI; P K Joshi, International Food Policy Research Institute
- 82** Do Smaller States Lead to More Development? Evidence from Splitting of Large States in India  
*Mukesh K. Ray*, Michigan State University; Mywish K. Maredia, Michigan State University
- 84** Constructing a Nutritionally Balanced Food Basket for Tanzania  
*Nancy J. Cochbrane*, USDA-Economic Research Service
- 85** Do Farmers' Storage Practices and Food Safety Knowledge Explain their Market Participation? Evidence from Maize Markets in Benin  
*Didier K. Kadjo*, Purdue University; Jacob Ricker-Gilbert, Purdue University; Abdoulaye Tahirou, International Institute of Tropical Agriculture; Nasser Baco, Universite de Parakou; Corinne E. Alexander, Purdue University

## Posters

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- 86** Spillover Effects of Fertilizer Subsidies on the Adoption of Modern Inputs in Burkina Faso  
*Didier Y. Alia*, University of Kentucky; Yoko Kusunose, University of Kentucky; Veronique Theriault, Michigan State University
- 87** The Farm Size-Productivity Relationship: A Conceptual Review with Empirical Evidence from three African Countries  
*Jacques C. Julien*, University of Connecticut; Boris E. Bravo-Ureta, University of Connecticut
- 88** Adaptive Capacity to Climate Change: Insights from Coffee Farmers in Nicaragua  
*Aniseh S. Bro*, Michigan State University; David L. Ortega, Michigan State University; Daniel Clay, Michigan State University
- 89** Livelihood Diversification and Well-Being - A Resilience Approach  
*Jennifer D. Cisse*, Cornell University
- 90** Examining Children's Vulnerability to Poverty: A Cross Country Analysis  
*Yacob A. Zereyesus*, Kansas State University
- 91** Does Price Volatility Affect Food Insecurity in Small Island States?  
Ping Wang, Auburn University; Roshini Brizmohun, Auburn University; *Norbert L.W. Wilson*, Auburn University
- 92** Does Tenure Security Allow More Efficiency-Enhancing Land Transaction? Evidence from Vietnam  
Klaus W. Deininger, World Bank; *Tram Hoang*, Michigan State University; Songqing Jin, Michigan State University

## International Trade

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- 93** The Power Law of Agricultural Trade  
Sixia Chen, University of Oklahoma; *Bo Xiong*, California Department of Social Services
- 94** Relativity Meets Gravity: A Better Measurement of Market Size to Explain Agricultural Trade  
*Bo Xiong*, California Department of Social Services
- 95** The Hitchhiker's Guide to the Greenery: Estimating Dynamics of 150 years of Trade-Driven Non-Native Species Introductions via Plant Material  
*Matthew J. MacLachlan*, University of California, Davis; Michael R. Springborn, University of California, Davis; Andrew Liebhold, United States Department of Agriculture Forest Service
- 96** Analyzing Collective Trade Policy Actions in Response to Cyclical Risk in Agricultural Production  
*Youngjae Lee*, Louisiana State University; P. Lynn Kennedy, Louisiana State University
- 97** Exchange Rate Volatility and Agricultural Commodity Trade  
*Sandro Steinbach*, Eidgenössische Technische Hochschule, Zurich
- 98** Climate Change Impacts on Labor Productivity: The Effect of Increasing Heat Exposure  
*Luis M. Pena-Levano*, Purdue University; Roberto Roson, Ca'Foscari University

## Production Economics

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- 101** Dynamic Supply Response of Pulses in India  
*Akshay Bhatnagar*, International Food Policy Research Institute; Devesh Roy, International Food Policy Research Institute; Avinash Kishore, International Food Policy Research Institute
- 102** Are Futures Prices Endogenous to Global Supply Analysis of Agricultural Commodities? New Empirical Evidence  
*Md Zabid Iqbal*, Iowa State University
- 103** Hoes to Herbicides: Economics of Evolving Weed Management in the United States  
Scott M. Swinton, Michigan State University; *Braeden Van Deynze*, Michigan State University
- 104** Impact of Farm Training on Efficiency of Small Scale Farms in Armenia  
*Weldensie T. Embaye*, Kansas State University; Jason S. Bergtold, Kansas State University; Benjamin Schwab, Kansas State University
- 105** Analyzing the Impact of Huanglongbing on Citrus Tree Plantings  
*Fengxia Dong*, University of Wisconsin; Paul D. Mitchell, University of Wisconsin

## Posters

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- 137** Estimating Short- and Long-run Supply Elasticities of Global Agricultural Commodities from Dynamic Heterogeneous Panels  
*Md Zabid Iqbal*, Iowa State University; Bruce A. Babcock, Iowa State University

## Productivity Analysis and Emerging Technologies

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- 106** The Potential for Improvement in On-road Truck Fuel Economy  
*Jen He*, University of Maryland; Benjamin Leard, Resources for the Future; Joshua Linn, Resources for the Future; Virginia McConnell, University of Maryland, Baltimore County and Resources for the Future
- 107** Productivity Dynamics in Indonesian Manufacturing Industries - Evidence from Firm Level Panel Data  
*Xi He*, University of Connecticut; Nathan Fiala, University of Connecticut
- 108** Estimating Elasticities of Substitution Using Data Envelopment Analysis  
*Noah J. Miller*, Kansas State University; Jason S. Bergtold, Kansas State University; Allen M. Featherstone, Kansas State University
- 109** Effect of Loss Aversion on Farm Investment  
*Lawson Connor*, North Carolina State University; Roderick M. Rejesus, North Carolina State University; Jose M. Yorobe Jr., University of the Philippines Los Banos
- 110** Quantile DEA: A Direct Linear Programming Based Approach to Obtaining Quantile Efficiency or Quantile Group Benchmarking Performance Estimates  
*Joseph A. Atwood*, Montana State University; Saleem Shaik, North Dakota State University

## Research Methods/Econometrics/Stats

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- 111** A Decomposition Model of Vertical Price Transmission with Scanner Data  
*Christin Schulze Bisping*, University of Göttingen; Stephan Von Cramon, University of Göttingen
- 112** Using Eye Tracking Measures to Improve Modeling  
*Daniel E. Chavez*, Texas A&M University; Marco A. Palma, Texas A&M University; Alba J. Collart, Mississippi State University
- 113** Using the Chow Test with Time Series-Cross Section Data  
James K. Binkley, Purdue University; *Jeffrey S. Young*, Purdue University
- 114** An Examination of the Relationship Between Biodiesel and Soybean Oil Prices Using an Asset Pricing Model  
*Miguel A. Carriquiry*, Universidad de la Republica
- 115** Measuring Poverty Over Time - Accounting for the Intertemporal Distribution of Poverty  
*Felix Naschold*, University of Wyoming

## Resource and Environmental Policy Analysis

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- 116** Targeting Wetland Restoration to Cost-effectively Reduce Nitrogen Loadings in the Gulf of Mexico  
LeRoy T. Hansen, USDA-Economic Research Service; *Marc O. Ribando*, USDA-Economic Research Service
- 117** Using Multiple Imputation for a Zero-in ATED Contingent Valuation with Potentially Biased Sampling  
Marouene Mbarek, Agrocampus Ouest; *Damien Rousseliere*, Agrocampus Ouest; Julien Salanié, Université Jean Monnet
- 118** Costs of Meeting Water Quality Goals under Climate Change in Urbanizing Watersheds: Difficult Run, Virginia  
Jonathon M. Giuffria, Virginia Tech; *Darrell J. Bosch*, Virginia Tech; Daniel B. Taylor, Virginia Tech; Nasrin Alamdari, Virginia Tech
- 119** Equitably Slicing the Pie: Allocation of Non-Point Source Pollution for Water Quality Improvement  
*Adam J. Daigneault*, Landcare Research; Suzie Greenhalgh, Landcare Research NZ; Oshadhi Samarasinghe, Landcare Research NZ
- 120** A State-Specific Analysis of Environmental Kuznets Curve for the United States  
*Meng Yang*, University of Alberta; Feng Qiu, University of Alberta
- 121** India's Climate Change Mitigation Policies – A Case for Market Based Instruments  
*Ashish Tyagi*, The Pennsylvania State University

## Posters

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- 122** Siting Aquaculture in Maine: Exploring Conflicts at Public Lease Hearings  
Keith S. Evans, University of Maine; Samuel Hanes, University of Maine; **Christina A. Robichaud**, University of Maine

## Risk and Uncertainty

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- 123** Attitudes toward Uncertainty by Different Groups of Subjects: Experimental Evidence from Bangladesh  
**George W. Norton**, Virginia Tech; Ahsanuzzaman Ahsanuzzaman, North South University
- 124** Risk Preferences and Adoption of Climate Smart Agricultural Technologies: Evidence from India  
**Mukesh K. Ray**, Michigan State University; Mywish K. Maredia, Michigan State University; Robert S. Shupp, Michigan State University
- 125** Stochastic Techno-Economic Analysis of Alcohol-to-Jet Fuel Production  
**Guolin Yao**, Purdue University; Mark D. Staples, Massachusetts Institute of Technology; Robert Malina, Massachusetts Institute of Technology; Wallace E. Tyner, Purdue University
- 126** Volatility Spillover Effects and Cross Hedging in the U.S. Oil Market and the Energy Pipeline Sector Index  
**Jingze Jiang**, Edinboro University of Pennsylvania; Thomas L. Marsh, Washington State University
- 127** Group Loan or Individual Loan? A Dynamic Framework with Systemic Risk  
**Mario J. Miranda**, The Ohio State University; Jian Chen, The Ohio State University
- 128** Natural Hedge Effects on Revenue Stability and Crop Insurance Decisions: Evidence from County and Producer-Level Data  
**Mesbah J. Motamed**, USDA-Economic Research Service; Erik J. O'Donoghue, USDA-Economic Research Service
- 129** Corporate Hedging in Incomplete Markets: A Solution under Price Transmission  
**Rui Luo**, Washington State University; T. Randall Fortenbery, Washington State University

## Rural/Community Development

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- 130** Too Small to Farm, too Big to Mow: The Impact of Large-Lot Zoning on the Exurban Landscape  
**Paul D. Gottlieb**, Rutgers University; Meggan Lubeck, Rutgers University; Lucas Marxen, New Jersey Agricultural Experiment Station, Rutgers University
- 131** Impact of Fiscal Subsidy on China's New Rural Pension System  
Benxi Lin, Fujian Agriculture and Forestry University; **Yu Yvette Zhang**, Texas A&M University; Zongjian Lin, Fujian Agriculture and Forestry University; Yongli Wang, The People's Government of Fujian Province, P.R. China; Weiping Liu, Fujian Agriculture and Forestry University
- 132** Industry Clusters and Regional Economic Development in the Midwest  
Naomi Amugeh, South Dakota State University; **Evert Van Der Sluis**, South Dakota State University
- 133** An Economy-wide Analysis of Trade Liberalization Impacts on Rural Household Income in Taiwan  
**Shih-Hsun Hsu**, National Taiwan University; Ching-Cheng Chang, Academia Sinica; Hsing-Chun Lin, National Chiayi University; Ruey-Wan Liou, Chihlee University of Technology; Sheng-Ming Hsu, National Taiwan University; Te-Yen Hsieh, National Taiwan University; Kuo-Jung Lin, Chihlee University of Technology
- 134** Ex-ante Estimation of Adoption Determinants for a Sustainable Land Management Practice: The Case of Non-operator Landowners  
Bradford L. Barham, University of Wisconsin; **Daniel F. Mooney**, University of Wisconsin

## Teaching, Communication, and Extension

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- 135** Toxicity and Price-Quality Information and Pesticide Demand: RCT Evidence from Smallholder Tomato Farmers in Zambia  
**Joseph C. Goeb**, Michigan State University
- 136** How far are Chinese Farmers from "Internet Plus"? Empirical Study of Factors Influencing Farmer's Adoption of Internet Application  
Jianxin Guo, Beijing Academy of Agricultural and Forestry Sciences; **Songqing Jin**, Michigan State University; Junfeng Zhang, Beijing Academy of Agriculture and Forestry Sciences

# Posters

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## Natural Resource Economics

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- 138** Status-Dependent Impacts of Multiple Drivers on Agricultural Land Conversion  
*Haoluan Wang*
- 139** Can Wood Pellets Save Coal?  
Michael Wetzstein
- 140** The Impact of Glyphosate-Tolerant Seeds on Herbicide Use: An International Comparison  
*Richard F Nebring*
- 141** Adaptive Resistance Management of Bt Refuge Policy with Uncertain Fitness Costs  
*Zachary S Brown*
- 142** Do Governmental and Private Conservation Funds “Crowd Out” Municipal Open Space Spending?  
*Patrick Prendergast*
- 143** Profitable Land Supply in Africa  
*Jing Liu*  
Determinants of Irrigation Technology Choice in Soybean Production  
*Tej K Gautam*
- 145** Willingness to Pay and Willingness to Accept Values for Irrigation Water  
*Tej K Gautam*
- 146** Agricultural Land as a Multipurpose Capital Asset  
*Daniel P Bigelow*
- 147** Citrus Health Management Areas: An Empirical Analysis of the Effect of Coordinated Control on Asian Citrus Psyllid Populations  
*Kelly Grogan*, University of Florida

# Types of Concurrent Sessions

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## 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 two to three 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

Lightning sessions includes eight Selected Paper Presentations. Each presenter will have 9-10 minutes to present and discuss their paper.

## SELECTED 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.

## 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.



## Concurrent Sessions — Monday, 9:45 - 11:15 AM

### **1001 The Economics of Taxes and Marketing Restrictions to Reduce Consumption of Specific Foods and Ingredients** *Provincetown, 4th Floor*

#### **Invited Paper**

This session features current economic research on government interventions designed to improve health and nutrition outcomes by reducing consumption of particular foods or ingredients. The session consists of three papers and one discussant. Each of the papers contributes to the policy debate by presenting theoretical and empirical evidence on the efficacy of such policies. The paper by Grogger presents econometric evidence of the effect soda tax on prices of soda and related goods in Mexico. The paper by Wu, Balagtas, and Ledesma uses nonlinear pricing theory and experimental economics to model and measure market-equilibrium response to a restriction on soda cup size. And the paper by Requillart and Soler considers the economic effects of minimum quality standards versus taxes in oligopolistic markets. The discussant, Stephen Hamilton, is a leading expert in the industrial organization of food markets.

**Organizer:** Joseph V. Balagtas, Purdue University

**Discussant:** Stephen F. Hamilton, California Polytechnic State University

The Economics of Policies for Reducing Soda Consumption: Soda Taxes vs Restrictions on Cup Size

Jose Nuno-Ledesma, Purdue University; **Steven Y. Wu**, Purdue University; Joseph V. Balagtas, Purdue University

Soda Taxes and the Prices of Sodas and Other Drinks: Evidence from Mexico

**Jeffrey Grogger**, University of Chicago

Quality Standards versus Nutritional Taxes: Health and Welfare Impacts with Strategic Firms

**Vincent Requillart**, Toulouse School of Economics, Institut National de la Recherche Agronomique; Louis Georges Soler, Institut National de la Recherche Agronomique

### **1002 Public Economists: What You May Encounter When You Leave the Ivory Tower** *Arlington, 3rd Floor*

#### **Organized Symposium**

Each of the participants in this symposium is involved as an economist in the public sphere. We will begin by explaining what we each do beyond pure academics with short opening talks about the role we play, b) the important lessons about those roles, and c) how to be effective in these situations. Roughly, we will represent economists in the roles of think tank policy analyst, social media/blogging economist on policy issues, advisor to legislators, and opinion writer. The remainder of the time will consist of questions and answers with the audience.

**Organizers:** Jeffrey H. Dorfman, University of Georgia; Vincent H. Smith, Montana State University

**Panelists:** Marc F. Bellemare, University of Minnesota; Keith H. Coble, Mississippi State University; Jeffrey H. Dorfman, University of Georgia; Vincent H. Smith, Montana State University

### **1003 The Food Safety Modernization Act and the Produce Industry** *Boylston, 1st Floor*

#### **Organized Symposium**

We look at the impact of FSMA using Census micro data which provide information on firm characteristics including some risk factors such as livestock and manure use. Then we look at preliminary data from the new Economic Research Service surveys which ask about food safety practices for growers and packers. This survey looks at what firms do with respect to risk factors: construct buffers between livestock and produce, compost raw manure, etc.

**Organizers:** Linda S. Calvin, USDA-Economic Research Service; Suzanne Thornsby, USDA-Economic Research Service

**Moderator:** Julie A. Caswell, University of Massachusetts Amherst

The FSMA Biological Soil Amendment Rules: Do They Lower Risks?

**Stacy E. Sneeringer**, USDA-Economic Research Service

Variation in Farm Characteristics and Implications for Food Safety

**Kathryn E. Lynch**, University of Massachusetts Amherst

Preliminary Results from ERS Food Safety Produce Surveys

**Linda S. Calvin**, USDA-Economic Research Service; **Gregory Astill**, USDA-ERS

## Concurrent Sessions — Monday, 9:45 - 11:15 AM

### 1004 Food Consumption, Preferences, and Willingness to Pay

Salon B, 4th Floor

#### Selected Presentation – Lightning Session

The papers in this lightning session present a diverse set of studies focused on consumption, preferences, and willingness to pay for food. Papers will discuss food waste, innovative technologies, and packaging.

**Moderator:** Brenna Ellison, University of Illinois at Urbana-Champaign

Examining Food Waste in the Household: A Vignette Approach

**Brenna Ellison**, University of Illinois at Urbana-Champaign; Jayson L. Lusk, Oklahoma State University

What Makes People Leave Their Food? The Interaction of Personal and Situational Factors Leading to Plate Leftovers in Canteens  
Monika Hartmann, University of Bonn; **Bettina A. Lorenz**, University of Bonn; Nina Langen, University of Bonn

When Bigger Isn't Better: Steak Size and Consumer Preferences

**Joshua G. Maples**, Oklahoma State University; Jayson L. Lusk, Oklahoma State University; Derrell Peel, Oklahoma State University

The Effect of Front-of-Pack Nutrition Labelling on Consumers' Food Choices and Decision-Making: Merging Discrete Choice Experiments with Eye-Tracking

**Seda Erdem**, University of Stirling

Consumer Perceptions and Willingness-to-Pay for Nanotechnology Applications that Enhance Food Safety

**Miah Van Tran**, University of Nebraska-Lincoln; Amalia Yiannaka, University of Nebraska-Lincoln; Konstantinos Giannakas, University of Nebraska-Lincoln

What Determines Fruit and Vegetables Intake of Primary School Children? An Analysis of Personal and Social Determinants

**Julia Haß**, University of Bonn; Monika Hartmann, University of Bonn

Georgia Elementary School Lunchroom Participation: Impact from the Statewide Implementation of the Smarter Lunchroom Movement

**Janani Rajbhandari Thapa**, University of Georgia

### 1006 Implications of Biofuel Production

Columbus 1, 1st Floor

#### Selected Presentation

The four papers in this session investigate the production and welfare impacts of alternative biofuel policies, the impact of biofuel production on land use change and the environment as well as assessing the risks and costs associated with producing biofuels from non-traditional feedstock.

**Moderator:** David J. Smith, University of Minnesota

The Renewable Fuel Standard: A Structural Model for the Welfare Evaluation of Alternative Policy Scenarios

GianCarlo Moschini, Iowa State University; Harvey E. Lapan, Iowa State University; **Hyunseok Kim**, Iowa State University

Biofuel Potential in Mexico: Land Use, Economic and Environmental Effects

**Hector M. Nuñez**, Centro de Investigación y Docencia Económicas; Anna D. Mata, Centro de Investigación y Docencia Económicas

Trends and Strength of Determinants to Deforestation in the Brazilian Amazon; Implications for Biofuel Policies in the United States and Land Use in Brazil

**Miguel A. Carriquiry**, Universidad de la Republica; Amani E. Elobeid, Iowa State University

Subjective Risks and Barriers to Perennial Bioenergy Production: Estimating a Structural Model with Data from a Hypothetical Market Experiment

**David J. Smith**, University of Minnesota

## Concurrent Sessions — Monday, 9:45 - 11:15 AM

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### 1007 Wildlife Management

*Harvard, 3rd Floor*

#### Selected Presentation

This session focuses on the management of various types of wildlife, including commercial and invasive wildlife. Several presentations address the issue of spatial dynamics.

**Moderator:** Xiaoli Fan, Cornell University

Optimal Monitoring and Control of Invasive Species: The Case of Spotted Wing Drosophila in the United States  
**Xiaoli Fan**, Cornell University; Miguel I. Gomez, Cornell University; Jon M. Conrad, Cornell University; Shadi S. Atallah, University of New Hampshire

Optimal Control of Wild Horse Populations with Nonlethal Methods  
**Robert C. Fonner**, National Oceanic and Atmospheric Administration Fisheries

Valuing the Absence of Feral Swine for U.S. Corn, Soybean, Wheat, Rice, and Peanut Producers and Consumers: A Partial Equilibrium Approach  
**Jason J. Holderieath**, Colorado State University; Dustin L. Pendell, Kansas State University; Joleen C. Hadrich, Colorado State University

### 1008 New Developments in Risk Modeling

*Hyannis, 4th Floor*

#### Selected Presentation

Theme underlying the papers in this session is the use of different tools and approaches to model risk and uncertainty.

**Moderator:** Xiaoguang Feng, Iowa State University

Vine-Copula Based Models for Farmland Portfolio Management  
**Xiaoguang Feng**, Iowa State University; Dermot J. Hayes, Iowa State University

A Relational Model for Predicting Farm-Level Crop Yield Distributions in the Absence of Farm-Level Data  
Lysa Porth, University of Manitoba; Ken Seng Tan, University of Waterloo; **Wenjun Zhu**, Nankai University

Economic Design for the Supply Side of Agricultural Insurance Markets  
**Harun Bulut**, National Crop Insurance Services

### 1009 Agricultural Cooperatives

*Maine, 5th Floor*

#### Selected Presentation

This session addresses managerial issues facing agricultural cooperatives. Governance, capital structure, economies of scale, and the broader competitive environment are discussed.

**Moderator:** Jasper Grashuis, University of Missouri

Governance and Performance in the Agri-Food Industry: A Three-Stage Least Squares Investigation of Firms and Cooperatives  
**Jasper Grashuis**, University of Missouri; Michael L. Cook, University of Missouri

A Nonparametric Approach to Estimate Multiproduct and Product-specific Scale and Scope Economies for Agricultural Cooperatives  
**Krishna P. Pokharel**, Kansas State University; Allen M. Featherstone, Kansas State University

Capital, Ownership, and Governance: Analyzing the Structure of U.S. Farmer Cooperatives  
**Jasper Grashuis**, University of Missouri; Michael L. Cook, University of Missouri

The Changing Competitive Structure of the Kansas Grain Handling and Transportation Industry  
**Daniel M. O'Brien**, Kansas State University; Brian C. Briggeman, Kansas State University

## Concurrent Sessions — Monday, 9:45 - 11:15 AM

### 1010 The Role of Experiments in Explaining Innovation and the Demand for and Use of New Technologies

Massachusetts, 5th Floor

#### Selected Presentation

This session presents research on both fresh produce supply chains as well as impact factors of innovations and use of new technology.

**Moderator:** Houtian Ge, The Pennsylvania State University

Hub Location in Fresh Produce Supply Chains

**Houtian Ge**, The Pennsylvania State University; Patrick N. Canning, USDA-Economic Research Service; Stephan J. Goetz, The Pennsylvania State University; Agnes Perez, USDA-Economic Research Service

Assessing Innovator and Adopter Profit Potential under Different New Plant Variety Commercialization Strategies

**R. Karina Gallardo**, Washington State University; Bradley J. Rickard, Cornell University; Jill J. McCluskey, Washington State University; Sherzod B. Akhundjanov, Washington State University

How Millennial Food Purchase Decisions Compare to Previous Generations

**Annemarie Kubns**, USDA-Economic Research Service; Michelle Saksena, USDA-Economic Research Service

A Supply and Demand Estimation of the U.S. High Fructose Corn Syrup Market

Pablo A. Garcia-Fuentes, Louisiana State University; **P. Lynn Kennedy**, Louisiana State University

### 1011 Market Reactions to USDA Reports: Issues and Potential Solutions

Nantucket, 4th Floor

#### Selected Presentation

This session discusses the effect of USDA reports on agricultural commodity markets and decision making.

**Moderator:** Olga Isengildina Massa, Virginia Tech University

Market Reaction to Inefficiencies in USDA Crop Production Forecasts

**Olga Isengildina Massa**, Virginia Tech University; Berna Karali, University of Georgia; Scott H. Irwin, University of Illinois at Urbana-Champaign

Changes in Informational Value and the Market Reaction to USDA Reports in the Big Data Era

**Berna Karali**, University of Georgia; Olga Isengildina Massa, Virginia Tech University; Scott H. Irwin, University of Illinois at Urbana-Champaign; Michael K. Adjemian, USDA-Economic Research Service

The Components of the Bid-Ask-Spread: Evidence from the Live Cattle Futures Market

**Quanbiao Shang**, University of Illinois at Urbana-Champaign; Mindy L. Mallory, University of Illinois at Urbana-Champaign; Philip Garcia, University of Illinois at Urbana-Champaign

Forward-Looking USDA Interval Forecasts

**Michael K. Adjemian**, USDA-Economic Research Service; Valentina Bruno, American University; Michel A. Robe, American University

### 1012 Health Outcomes

New Hampshire, 5th Floor

#### Selected Presentation

Papers in this session evaluate the relationship between the environmental impacts of human behavior and resulting human health outcomes.

**Moderator:** Sofia K. Vielma Delano, Purdue University

Willingness to Pay for a Medicine Disposal Program in the Midwest: A Double Hurdle Approach

**Sofia K. Vielma Delano**, Purdue University; Kwamena K. Quagraine, Purdue University

Estimating the Effect of Pesticide Use on Health Outcomes in China

**Wangyang Lai**, The Ohio State University; Brian E. Roe, The Ohio State University

Scope Insensitivity in Child's Health Risk Reduction: A Comparison of Damage Schedule and Choice Experiment Methods

**Phumsith Mahasuweerachai**, Khon Kaen University; Siwarut Pangjai, Khon Kaen University

Willingness to Pay to Reduce Health Costs Associated with Bushfire Smoke

**Morteza Chalak**, University of Western Australia; Michael Burton, University of Western Australia; David J. Pannell, University of Western Australia

## Concurrent Sessions — Monday, 9:45 - 11:15 AM

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### **1013 Hedging, Futures and Agricultural Product Reports**

*Salon A, 4th Floor*

#### **Selected Presentation**

These presentations discuss the use of financial risk management tools by different agricultural producers. They investigate pre-harvest hedging, prices for thinly traded products and the impacts of official product reports.

**Moderator:** Ziran Li, Iowa State University

Price Responses in Forward Contracting: Do We Limit The Upside And Expose The Downside?

Dermot J. Hayes, Iowa State University; Keri L. Jacobs, Iowa State University; **Ziran Li**, Iowa State University

Does the Boxed Beef Price Ever Lead the Live Cattle Futures Price?

**Kishore Joseph**, California State University, Chico; Philip Garcia, University of Illinois at Urbana-Champaign; Paul E. Peterson, Chicago Mercantile Exchange

The Value of WASDE Reports to the U.S. Corn Market

**Philip C. Abbott**, Purdue University; David Bousios, Purdue University; James M. Lowenberg-DeBoer, Purdue University

Intraday Market Effects in Electronic Soybean Futures Market during Non-Trading and Trading Hour Announcements

**Kishore Joseph**, California State University, Chico; Philip Garcia, University of Illinois at Urbana-Champaign

### **1014 The Role of Transfer Programs on Household Well-Being**

*Salon D, 4th Floor*

#### **Selected Presentation**

These papers examine the role of various government transfer programs on household choices and well-being in a variety of settings.

**Moderator:** Gayaneh S. Kyureghian, Korea University

Large-Scale Social Transfer and Labor Market Outcomes: The Case of the South African Pension Program

**Norihiko Matsuda**, University of Wisconsin

No Country for Old Men: An Investment Motive for Downward Inter-Generational Transfers in Rural China

**Chiyu Niu**, University of Illinois at Urbana-Champaign

The Demand for Food in France: The Case of Consumption at Retirement

**Gayaneh S. Kyureghian**, Korea University; Louis Georges Soler, Institut National de la Recherche Agronomique

### **1015 The Economics of Soil Conservation**

*Salon H, 4th Floor*

#### **Selected Presentation**

These studies examine different economic aspects aspects of soil conservation in agriculture

**Moderator:** Gaurav Arora, Iowa State University

Strategic Grassland Conversions and Conservation Easement Allocations in the Dakotas: Analysis using Remotely-Sensed Data

**Gaurav Arora**, Iowa State University; David A. Hennessy, Michigan State University; Hongli Feng, Michigan State University; Peter T. Wolter, Iowa State University

Grassland Easement Evaluation and Acquisition: A Stochastic Dynamic Perspective

**Ruiqing Miao**, Auburn University; David A. Hennessy, Michigan State University; Hongli Feng, Michigan State University

Optimal Distribution of Conservation Practices in the Upper Washita River Basin, Oklahoma

**Edward Osei**, Tarleton State University

Climate Change and the Economics of Conservation Tillage

Juan Pablo Sesmero, Purdue University; Ben Gramig, Purdue University; Otto C. Doering III, Purdue University; Tony Vyn, Purdue University; **Whitney Hodde**, Purdue University

## Concurrent Sessions — Monday, 9:45 - 11:15 AM

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### 1016 Issues in African Food Production and Consumption

Salon I, 4th Floor

#### Selected Presentation

The papers in this session consider various production issues in Senegal, Ghana, and West Africa and household food consumption in West Africa.

**Moderator:** Stacy McCoy, Purdue University

How do Traders and Consumers in Tropical Savannah Climates Value Maize Moisture Content? Evidence from an Experimental Auction in Senegal

**Stacy McCoy**, Purdue University; Jacob Ricker-Gilbert, Purdue University; Corinne E. Alexander, Purdue University; Moussa Sall, Institut Sénégalais de Recherches Agricoles

Long term Outlook for Rice Production and Trade in West Africa: A Set of Productivity Growth Scenarios

**Nancy J. Cochrane**, USDA-Economic Research Service; Getachew S. Nigatu, USDA-Economic Research Service; Anh Nam Tran, University of Missouri; James M. Hansen, USDA-Economic Research Service; Ralph M. Seeley, USDA-Economic Research Service

The Economics of the Transformation of Household Food Consumption in West Africa

**Saweda Liverpool-Tasie**, Michigan State University; Thomas A. Reardon, Michigan State University; Serge G. Adjognon, Michigan State University; Awa Sanou, Michigan State University

Technological and Market Interventions to Reduce Aflatoxin Groundnut Contamination in Ghana

**Nicholas P. Magnan**, University of Georgia; Vivian E. Hoffmann, University of Maryland; Gissele Gajate Garrido, IMPAQ International; Nelson Opoku, University for Development Studies

### 1017 Impacts of Trade Agreements on International Agricultural Markets

Salon J, 4th Floor

#### Selected Presentation

Regional trade negotiations and agreements are on the rise. The selected papers in this session shed light on the implications for agricultural trade, with emphasis on specific trade barriers and commodity groups.

**Moderator:** Jason Grant, Virginia Tech

Regionalism without Regions: Evaluating the Economic Impacts of Cross-Regional Trade Agreements

**Jason Grant**, Virginia Tech; Mary Marchant, Virginia Tech

Are Free Trade Agreements Good for the Environment? A Panel Data Analysis

**Mehdi Nemati**, University of Kentucky; Wuyang Hu, University of Kentucky; Michael R. Reed, University of Kentucky

Trans-Atlantic Trade and Investment Partnership: Potential Harmonization or Mutual Recognition of Pesticide Residue Regulations and its Impact on Agricultural Trade

**Bo Xiong**, California Department of Social Services; John C. Beghin, Iowa State University

Impacts of the Trans-Pacific Partnership for U.S. and International Dairy Trade

**Everett B. Peterson**, Virginia Tech; Jason Grant, Virginia Tech; Sharon Sydow, USDA-Office of the Chief Economist

## Concurrent Sessions — Monday, 9:45 - 11:15 AM

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### 1018 Health and Nutrition Around the World

*Salon K, 4th Floor*

#### Selected Presentation

Food insecurity is a present concern. This session includes four papers that explore health and nutrition globally. Countries analyzed include Vietnam, Tanzania, Uganda, and China.

**Moderator:** Ram N. Acharya, New Mexico State University

Effects of Market Work and Own Household Work on Nutrition Intake of Rural Adults: The Case of Vietnam

**Tadashi Sonoda**, Nagoya University; Ashok K. Mishra, Arizona State University; Lien T. B. Vu, Matsuyama University

Hunger and the Incidence of Child Stunting in Tanzania

**Ram N. Acharya**, New Mexico State University

Business is Tough, but Family is Worse: The Role of Family Constraints on Microenterprise Development in Uganda

**Nathan Fiala**, University of Connecticut

Relative-Deprivation Effects on Child Health in China

**Yu Sun**, Virginia Tech; Wen You, Virginia Tech

### 1019 Factors Affecting Food Consumption in the United States

*Tremont, 1st Floor*

#### Selected Presentation

Papers in this session examine factors influencing food consumption in the United States., including socioeconomic, demographic, and geographic factors as well as legislation and policy.

**Moderator:** Senarath Dharmasena, Texas A&M University

Socioeconomic, Demographic and Geographic Factors Affecting Household Food Purchase and Acquisition Decisions in the United States as a Complex Economic System

**Senarath Dharmasena**, Texas A&M University; David A. Bessler, Texas A&M University; Jessica E. Todd, USDA-Economic Research Service

Retail Alcohol Availability and Product Diversity

Mingyang Qu, Cornell University; **Bradley J. Rickard**, Cornell University; Marco Costanigro, Colorado State University; Edward McLaughlin, Cornell University

Soda Wars

Rebecca Taylor, University of California, Berkeley; **Scott Kaplan**, University of California, Berkeley; Sofia Berto Villas-Boas, University of California, Berkeley

You Can Lead a Household to Healthful Food, but you Can't Make Them Eat: Shopping Frequency, Produce Consumption, Household Characteristics, Retail Densities, and Health Gradients

**Scott Colby**, The Pennsylvania State University

### 1020 Theoretical and Empirical Aspects in Production Economics

*Vermont, 5th Floor*

#### Selected Presentation

Papers in this session cover theoretical and empirical issues of production economics analyses including aspects related to duality theory, estimation of supply elasticities, and the impact of producers' health risk preferences and corporate social responsibility on production decisions.

**Moderator:** Juan F. Rosas, Universidad ORT Uruguay

How Reliable is Duality Theory in Empirical Work?

**Juan F. Rosas**, Universidad ORT Uruguay; Sergio H. Lence, Iowa State University

The Value of Being Socially Responsible: A DEA Approach for Recovering Shadow Values of CSR Activities

**Daniela Puggioni**, The Pennsylvania State University; Spiro E. Stefanou, University of Florida

Farmers' Pesticide Use Behavior Toward Own Consumption Versus Sale-Oriented Production: Joint Effects of Risk Preferences and Perceptions of Health Risks

**Wei Zhang**, International Food Policy Research Institute; Yanyan Liu, International Food Policy Research Institute; Andrew R. Bell, New York University

## Concurrent Sessions — Monday, 9:45 - 11:15 AM

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### **1021** Agricultural Production and Environmental Policy

*Yarmouth, 4th Floor*

#### **Selected Presentation**

Papers in this session evaluate the impact of multiple forces on agricultural and forest land use changes and technology adoption, with special emphasis on the role of land use, environmental and property rights policies.

**Moderator:** Haoluan Wang, University of Alberta

Investigating the Spatial Effects of Agricultural Land Abandonment and Expansion

**Haoluan Wang**, University of Alberta; Feng Qiu, University of Alberta; Xiaofeng Ruan, University of Alberta

Brazil's Agricultural Land Conversion, Expansion, and Policies

**Constanza Valdes**, USDA-Economic Research Service; Hjort Kim, USDA-Economic Research Service; Jose Gasques, Brazil Ministry of Agriculture

Uncertainty and Technology Adoption with Imperfect Property Rights: Lessons from the Arkansas River Valley

Misti D. Sharp, Colorado State University; Dale Manning, Colorado State University; **Dana L. Hoag**, Colorado State University

Climate Change Interactions with Agriculture, Forestry Sequestration and Food Security

**Luis M. Pena-Levano**, Purdue University; Farzad Taheripour, Purdue University; Wallace E. Tyner, Purdue University

### **1022** The Use of Real World Business Cases as Teaching Tools

*Berkeley, 3rd Floor*

#### **Track Session – SS-AAEA and TLC Sections**

The use of real world application of business topics in undergraduate classrooms through simulations, consulting activities, role plays, and competitions are growing in popularity. These activities create specific challenges in assessing performance of students and allocating faculty resources. This panel discussion will create a dialogue around these topics and share research and experiences of panelists.

**Organizer:** W. Scott Downey, Purdue University

**Discussants:** W. Scott Downey, Purdue University; Michael A. Gunderson, Purdue University; Lindsey M. Higgins, California Polytechnic State University; Aaron J. Johnson, University of Idaho; Kerry K. Litzenberg, Texas A&M University; Elizabeth A. Yeager, Kansas State University



## Concurrent Sessions — Monday, 9:45 - 11:15 AM

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### **1023** Monetary Policy and Implications for Agriculture

*Clarendon, 3rd Floor*

#### **Track Session – AFM Section**

Monetary policy involves the process of setting the amount of money and credit within an economy in response to current economic conditions. By establishing benchmark interest rates, monetary policy directly affects agriculture, especially when agricultural land values and commodity prices are volatile. This track session evaluates the macro-level effects of tightening monetary policy on three important actors in the agricultural economy: farms and agribusiness, agricultural lenders, and agricultural investors. Participants will evaluate the financial exposure of each of these groups to changes in benchmark interest rates and consider both potential positive and negative effects of monetary policy changes to the agricultural sector. Discussion will be led by an economist from the Federal Reserve Bank to provide additional perspective on agriculture's link to monetary policy.

**Organizer:** Joleen C. Hadrach, Colorado State University

**Discussant:** Nathan S. Kauffman, Federal Reserve Bank - Omaha Branch

At-Risk Farms and Agribusiness in a Higher Interest Rate Environment

**Brian C. Briggeman**, Kansas State University

Restructuring and Rebalancing Agricultural Lending: Future Challenges Facing Agricultural Lenders

Ryan Larsen, North Dakota State University; **Frayne Olsen**, North Dakota State University

Land Prices and Interest Rates: Impacts on Farmers, Lenders, and Landowners

**Gary D. Schmitkey**, University of Illinois at Urbana-Champaign

### **1024** Study Abroad in Agricultural Economics & Agribusiness Programs

*Dartmouth, 3rd Floor*

#### **Track Session – LAS Section**

Agricultural economics and agribusiness are problem-solving fields, and both agriculture and economics are fields of global scope. Over the past two decades, agricultural commodities and agribusiness firms have gained a prominent presence in global markets, thus expanding employment opportunities for graduates from such programs. Surprisingly, however, study abroad participation by undergraduate and graduate students in agriculture is slim. The purpose of this session is to highlight a number of issues that may help explain study abroad participation by students in agricultural economics and agribusiness and to provide guidance on how study abroad participation can be enhanced in colleges of agriculture. This session is structured into five papers that will systematically overview trends in study abroad in the United States, discuss main issues and best study abroad practices to guide those interested in developing such programs, provide practical guidelines in marketing and implementation of study abroad programs, and discuss institutional readiness and support for study abroad programs in colleges of agriculture.

**Organizers:** Carlos E. Carpio, Texas Tech University; Hector O. Zapata, Louisiana State University

**Moderator:** Jaime E. Malaga, Texas Tech University

Trends in U.S. Study Abroad Participation

**Hector O. Zapata**, Louisiana State University

Issues and Best Practices in Developing and Managing Study Abroad Programs

**Harald T. Leder**, Louisiana State University

Marketing and Implementation Plans for Study Abroad Classes in Agricultural Economics

**Krishna P. Paudel**, Louisiana State University; Glenn C. W. Ames, University of Georgia

Institutional Readiness and Support for Study Abroad

**Sukant K. Misra**, Texas Tech University

Study Abroad in Graduate Agricultural Programs: OSU Master in International Agriculture

**Shida Rastegari Henneberry**, Oklahoma State University

## Concurrent Sessions — Monday, 9:45 - 11:15 AM

### 1025 Using Behavioral Economic Experiments to Inform Government Risk Management Programs

*Exeter, 3rd Floor*

#### Track Session – Experimental Economics and IBES Sections

Currently, few researchers are using experimental methods to study U.S. agricultural risk management programs. This panel will bring together experimentalists and experts on agricultural risk management to help set an agenda for work in this area. This session will explore the potential for economic experiments in the laboratory and field to yield insights relevant for evaluating current programs and informing future risk management initiatives. Panelists will discuss topics including setting an agenda for experimental research on risk management issues, techniques for studying risk behaviors in the lab and field, generalizing findings from experiments to the broader agricultural population, lessons learned from behavioral finance and international development experiments, and using experimental results to inform policy-making. This track session is likely to be of interest to economists and policy-makers interested in risk management and/or experimental methods.

**Organizer:** Stephanie D. Rosch, USDA-Economic Research Service

**Moderator:** Stephanie D. Rosch, USDA-Economic Research Service

**Discussant:** Joseph C. Cooper, USDA-Economic Research Service

**Panelists:** Jean-Paul Chavas, University of Wisconsin; Charles Sprenger, University of California, San Diego; Angelino Viceisza, Spelman College

### 1026 Behavioral Economic Insights in Agricultural Finance and Farm Asset Markets

*Fairfield, 3rd Floor*

#### Track Session – AFM and IBES Sections

Farmland plays a central role in the financial health of the agricultural sector. Farm real estate makes up over 80% of the value of the sector's asset base and serves as the primary source of collateral for farm loans. There is a wide body of research on farm real estate values in the agricultural economics literature. However, farmland markets have several anomalies that limit the usefulness of many traditional empirical techniques common in other areas of applied finance. For example, farmland markets have extremely lower turnover and more than half of farmland sales are not arms-length. The empirical papers presented in this session directly examine the anomalies of farm real estate markets using both market transactions and nonmarket data from across the U.S. The session outlines important implications for future research on farmland markets as well as behavioral economics research undertaken by AAEA members.

**Organizer:** Jennifer E. Ifft, Cornell University

**Moderator:** Jennifer E. Ifft, Cornell University

**Discussant:** David R. Just, Cornell University

Accounting for Relational Goods in Farmland Transactions

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

Expectations and Expert Opinion Surveys: Empirical Tests Using a Panel of Iowa Land Value Survey Responses

**Wendong Zhang**, Iowa State University; Todd H. Kuethe, University of Illinois at Urbana-Champaign

The “True” Value of Farmland: Market Transactions versus Self-Reported Agricultural Land Values

**Daniel Bigelow**, USDA-Economic Research Service; Jennifer E. Ifft, Cornell University; Todd H. Kuethe, University of Illinois at Urbana-Champaign

## Concurrent Sessions – Monday, 9:45 - 11:15 AM

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### **1027 Mixture Models in Agricultural and Applied Economics**

*Regis, 3rd Floor*

#### **Track Session – Econometrics Section**

Economists are turning to increasingly sophisticated models to understand complex phenomena embedded in their data. In cases of multiple data generating processes, often the source process for each data point is unknown and must be estimated. Mixture models are one approach to addressing this problem, and they have started to be used across applied fields including agricultural and behavioral or experimental economics. This session will address new applications of mixture models in agricultural yield modeling, farm finance and lending, and behavioral or experimental applications for farm risk management. The session is designed to demonstrate the ever-widening sphere of applications for mixture models, which includes choosing the right level of aggregation of data sources, classifying farms or individuals according to endogenously defined types, and selecting between candidate models of farmer financing and debt choices.

**Organizer:** Thomas W. Sproul, University of Rhode Island

**Moderator:** Eric Belasco, Montana State University

Determining Optimal Data Aggregation: An Application of Out-of-Sample Mixture Models

**Joshua D. Woodard**, Cornell University

Using Mixture Models as Behavioral Classifiers: Advantages and Pitfalls

**Thomas W. Sproul**, University of Rhode Island; Clayton P. Michaud, University of Rhode Island

Modeling Debt Choice in Agriculture: The Effect of Endogenous Asset Values

**Charles B. Moss**, University of Florida; Ashok K. Mishra, Arizona State University; Maria Bampasidou, Louisiana State University

### **1028 Graduate Student Extension Competition Winners**

*Simmons, 3rd Floor*

#### **Track Session – GSS and Extension Sections**

The Graduate Student Extension Competition consists of graduate student-prepared work and presentation to an Extension audience. It showcases the student's ability to communicate work product to an extension audience.

**Organizers:** Joshua G. Maples, Oklahoma State University; Clinton L. Neill, Oklahoma State University; John Michael Riley, Oklahoma State University

### **1029 Washington Policy Update**

*Suffolk, 3rd Floor*

#### **Track Session – Extension Section**

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

**Organizer:** Steven L. Klose, Texas A&M University

U.S. House of Representatives Update and Outlook

**Bart L. Fischer**, U.S. House of Representatives

U.S. Senate Agriculture Committee Update and Outlook

**Matt Erickson**, Senate Agricultural Committee

USDA Farm Policy Update and Outlook

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

## Concurrent Sessions — Monday, 9:45 - 11:15 AM

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### **1030 Effectiveness of the Clean Power Plan in the United States**

*Vineyard, 4th Floor*

#### **Track Session – ENV Section**

The Clean Power Plan (CPP) implemented by the EPA in 2015 aims at achieving a 32% reduction in emissions from electrical power plant by 2020 relative to 2005. Under the CPP, each state is assigned an emission rate in pounds of carbon dioxide per megawatt hour that has to be achieved through “the best system of emission reduction.” Thus, states are given the flexibility to translate the emission rate into a mass-based cap measured in pounds. The mass-based cap corresponds to a cap-and-trade program that is already implemented in 10 states. This session aims to shed light on the cost effectiveness and efficiency of the proposed CPP under implementation schemes that vary across state. Papers will assess the incentives given to state to adopt rate versus mass-based goals and how the choice translates into consumer and producer welfare.

**Organizer:** Jerome R. Dumortier, Indiana University-Purdue University Indianapolis

Cost Effectiveness of the Clean Power Plan in Reducing GHG Emissions using Rate vs. Mass-Based Standards

**Madhu Khanna**, University of Illinois at Urbana-Champaign; Anthony Oliver, University of Illinois at Urbana-Champaign

Alternative Policy Impacts on U.S. GHG Emissions and Energy Security: A Hybrid Modeling Approach

**Wallace E. Tyner**, Purdue University; Kemal Sarica, Isik University

Emissions Allocation Design to Avoid Leakage under the Clean Power Plan

**Karen L. Palmer**, Resources for the Future; Dallas Burtraw, Resources for the Future; Anthony Paul, Resources for the Future

Interactions of Supply-side Climate Policies with the Clean Power Plan

**James Stock**, Harvard University

### **1031 How to Get What You Need to Thrive: Achieving Extraordinary Productivity and Work-Life Balance**

*Wellesley, 3rd Floor*

#### **Track Session – CWAE Section**

Three years after the AAEA Mentorship Program was launched, CWAE leadership continues to receive requests for help in successful pursuit of personal and professional from our membership. The session goals are to present strategies and solutions that build in personal accountability structures to achieve research productivity, and to identify tangible practices which have the potential to foster balanced and therefore more productive faculty who seek action-oriented solutions that provide a pathway for long-term behavioral and mental shifts. It is designed to appeal to men and women at any stage of their career paths, as national trends continue to highlight the reality of dual income households and co-parenting responsibilities. The interactive panel includes CWAE members who hold different faculty appointments across all career stages, demonstrate varied approaches to success, and serve as leaders and mentors to students and colleagues.

**Organizers:** Kimberly L. Morgan, Virginia Tech; Lurleen M. Walters, Mississippi State University

**Discussant:** Lurleen M. Walters, Mississippi State University

**Panelists:** Jill J. McCluskey, Washington State University; Kimberly L. Morgan, Virginia Tech; James A. Sterns, Oregon State University; Steven C. Turner, Mississippi State University

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

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### **1032 Economic Drivers and Consequences of Large Food Retailers' Location**

*Provincetown, 4th Floor*

#### **Invited Papers**

Changes in the retailing industry, including the emergence and triumph of large and non-traditional food retail formats—i.e. supercenters, wholesale clubs etc—have multiple implications. This invited session collects three contributions aiming to shed light on different aspects of the economics of large food store location. The first contribution uses an empirical model to measure the market threshold leading to consumers having more access to large food stores and testing the role of different policy levers. The second examines how the growth of supercenters may have an effect on the diet of the French consumers. The third evaluates the impact of stores closing and opening on housing value, using a specific case study.

**Organizer:** Alessandro Bonanno, Colorado State University

**Moderator:** Michele L. Ver Ploeg, USDA-Economic Research Service

**Discussant:** Michele L. Ver Ploeg, USDA-Economic Research Service  
Economic Drivers of Large Food Stores Access in the U.S.

**Alessandro Bonanno**, Colorado State University; Rebecca L.O. Cleary, The Pennsylvania State University; Lauren Chenarides, The Pennsylvania State University; Stephan J. Goetz, The Pennsylvania State University

The Effect of Supercenters on Dietary Choices and Healthfulness of Food Purchases in France

**Gayaneh S. Kyureghian**, Korea University; France Caillavet, Institut National de la Recherche Agronomique; Adelaide Fadhuile, Grenoble Alpes University, - INRA GAEL; Rodolfo M. Nayga, University of Arkansas

Open-Close-Open: Evaluating the Effect of Changes in Food Access Options on Housing Prices. Evidence from New Haven, CT  
**Adam N. Rabinowitz**, University of Connecticut; Elena Castellari, Università Cattolica del Sacro Cuore; Marcello Graziano, University of the Highlands and the Islands

### **1033 Policy Instruments, Conservation and Efficiency in Water and Energy**

*Boylston, 1st Floor*

#### **Organized Symposium**

This session focuses on the impact of policy instruments aimed at inducing conservation or improving efficiency in the water and energy sectors.

**Moderator:** Jonathan Baker, Harvard University

Subsidies for Succulents: The Welfare Impacts of Las Vegas' Cash-for-Grass Rebate Program

**Jonathan Baker**, Harvard University

Energy Savings from Residential Building Codes: Evidence from Smart-Meter Data

**Tianxia Zhou**, University of California, Davis; Kevin Novan, University of California, Davis; Aaron D. Smith, University of California, Davis

Conservation Spillovers and Behavioral Interventions: Experimental Evidence from Water and Energy Use

**Gabriel Lade**, Iowa State University; Katrina K. Jessoe, University of California, Davis; Frank Loge, University of California, Davis; Edward Spang, University of California, Davis

Arbitrage-Free Pricing in Water Markets

**Renata Rimsaite**, The Pennsylvania State University; Karen Fisher-Vanden, The Pennsylvania State University; Sheila Olmstead, Resources for the Future

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

### 1034 Some Fundamental Determinants of Agricultural Growth

*Arlington, 3rd Floor*

#### Organized Symposium

Agricultural growth is fundamentally important for economic development and for poverty reduction. In turn, it depends on the evolution of agricultural productivity growth, and on the rate of economic growth in rich and poor countries. An important part of that growth process is the development of cities, which profoundly affects the demand for food and the supply of resources to agriculture. Another important influence on agricultural growth is the growth of agricultural trade. The four papers in this session bring new approaches to bear on each of these fundamental determinants of growth.

**Moderator:** Karen M. Brooks, International Food Policy Research Institute

The Rise and Fall of U.S. Farm Productivity Growth, 1910–2007

**Julian M. Alston**, University of California, Davis; Matthew A. Andersen, University of Wyoming; Philip G. Pardey, University of Minnesota

Economic Growth, Convergence and Global Food Prices

**William J. Martin**, International Food Policy Research Institute; Emiko Fukase, World Bank

Cities and Agricultural Transformation in Developing Countries

**Johan F.M. Swinnen**, University of Leuven

Trade Costs in International Agricultural Trade

**Stephan Von Cramon**, University of Göttingen

### 1035 Food and Agricultural Marketing

*Salon B, 4th Floor*

#### Selected Presentation – Lightning Session

Various topics in food demand, food marketing, food safety and technology.

**Moderator:** Kofi Britwum, University of Nebraska-Lincoln

Consumer Willingness to Pay for Food Safety Interventions: The Role of Message Framing and Involvement

**Kofi Britwum**, University of Nebraska-Lincoln; Amalia Yiannaka, University of Nebraska-Lincoln

The Impact of Adding In-Store Ancillary Services on Customer Behaviors and Retailer Profits

**Simba Pasirayi**, Arizona State University; Tariro Godza, Case Western Reserve University

Changing Dairy Consumption in an Emerging Economy: An Application of a Multivariate Two-Part Model

**Shengfei Fu**, University of Georgia; Wojciech J. Florkowski, University of Georgia

Can Non-Alcoholic Beer be a Substitute for Beer? Evidence from Differentiated Product Demand Model Estimation Using Scanner Data

**Toru Nakajima**, University of Tokyo

The Imperfect Price Responses of Orange Juice Demand in the U.S.

**Hyeyoung Kim**, University of Florida; Marisa L. Zansler, Florida Department of Citrus; Lisa A. House, University of Florida

A Global Perspective of Private Brands Success: The Role of Private Label Portfolio Strategies and Brand Similarity

**Simba Pasirayi**, Arizona State University; Tariro Godza, Case Western Reserve University

Do Mechanization and Commercialization Disempower Women Farmers? Panel Evidence from Malawi and Zambia

**Takuji W. Tsusaka**, International Crops Research Institute for the Semi-Arid Tropics

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

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### 1036 Agribusiness Marketing

*Salon C, 4th Floor*

#### Selected Presentation – Lightning Session

This session discusses a range of issues related to agribusiness marketing.

**Moderator:** Ikhoon Jang, Seoul National University

Forecasting Agri-product Consumption using Keyword Volume Index from Search Engine Data

**Ikhoon Jang**, Seoul National University; Young-Chan Choe, Seoul National University

Detecting the Sources of Information Rigidity: A VAR Approach to Analyzing Forecast Smoothing in Soybean Forecasts

**Stephen A. MacDonald**, USDA-Economic Research Service; Mark S. Ash, USDA-Economic Research Service

Assessing the Market Integration of Domestic and Import

Xuan Chen, University of Maine; **Samuel B. Scuderi**, University of Maine

Consumer Preferences for Retail Channel and Beef Steak Attributes: Experimental Evidence from Argentinean Consumers

Florencia Colella, Michigan State University; **David L. Ortega**, Michigan State University

Consumers' Willingness to Pay for Locally Grown Produce: New Hampshire and Massachusetts

**Wei Shi**, University of New Hampshire; John M. Halstead, University of New Hampshire; Ju-Chin Huang, University of New Hampshire

Analyzing Market Structure in the U.S. Food Retailing Industry Using TDLinx

**Nestor M. Rodriguez**, USDA-Economic Research Service

Futures Term Structure Based Unit Root Test for Agribusiness Crush Margins and Implications for Optimal Hedging Strategies

Ekaterina A. Vorotnikova, University of Idaho; **Marin Bozic**, University of Minnesota-Twin Cities; Joseph C. Cook, University of Idaho

### 1037 Common Pool Resources

*Harvard, 3rd Floor*

#### Selected Presentation

Papers in this session provide new insights on the use and management of common pool resources.

**Moderator:** Sherzod B. Akhundjanov, Washington State University

Multicountry Appropriation of the Commons, Externalities, and Firm Preferences for Regulation

**Sherzod B. Akhundjanov**, Washington State University

Modeling Endogenous Change in Water Allocation Mechanisms: A Non-Cooperative Bargaining Approach

**Ashish Tyagi**, The Pennsylvania State University; James S. Shortle, The Pennsylvania State University

Linking the Unlinked: Transboundary Water-Sharing Under Water-for Leverage Negotiations

**Shaikh M. Eskander**, London School of Economics; Thorsten Janus, University of Wyoming; Edward B. Barbier, University of Wyoming

Long-Term Tradeoffs between Private and Social Objectives in the High Plains Aquifer

**Juan Pablo Sesmero**, Purdue University; Lilyan E. Fulginiti, University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln

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

### 1038 Rural Health and Healthcare

*Hyannis, 4th Floor*

#### Selected Presentation

Healthcare is a paramount concern globally. Rural areas face unique constraints to care availability and traditionally have poorer health outcomes. Two papers in this session address the availability of healthcare for rural residents and resultant health outcomes. The other two papers address health impacts related to two quintessential rural sectors: farming and oil and gas production.

**Moderator:** Chad D. Meyerhoefer, Lehigh University

Availability of Health Care Providers for Rural Texas Counties

Edward Osei, Tarleton State University; **Syed H. Jafri**, Tarleton State University; Steve Steed, Tarleton State University; Aeliya Jaffar, Cigna-HealthSpring

The Health Implications of Unconventional Natural Gas Development in Pennsylvania

Lizhong Peng, American Institutes for Research; **Chad D. Meyerhoefer**, Lehigh University; Shin-yi Chou, Lehigh University, National Bureau of Economic Research

Vigorous Physical Activity and Overweight? The Paradox of Farmworkers

**Eivis Qenani**, California Polytechnic State University; Soma Roy, California Polytechnic State University; Neal A. MacDougall, California Polytechnic State University

### 1039 International Agribusiness

*Maine, 5th Floor*

#### Selected Presentation

This session addresses networking, entrepreneurship, and contract farming in developing countries.

**Moderator:** Di Fang, Arizona State University

Variety Adoption among Farmers in a Network: The Case of Mozambique

**Di Fang**, Arizona State University; Timothy J. Richards, Arizona State University

Analysis of Agricultural Students in Sub-Saharan Africa Venturing into Self-employed Agribusinesses: Empirical Evidence from the University of Ghana

**Eric M. K. Ofori**, Mississippi State University; Yaw Osei-Asare, University Ghana

Impact of Contract Farming on Profits and Yields of Smallholder Farms in Nepal: Evidence from Lentil Cultivation

**Anjani Kumar**, International Food Policy Research Institute; Devesh Roy, International Food Policy Research Institute; P K Joshi, International Food Policy Research Institute; Gaurav Tripathi, International Food Policy Research Institute

### 1040 Environmental and Farm Management Incorporating Behavioral Insights

*Massachusetts, 5th Floor*

#### Selected Presentation

This session provides empirical behavioral insights into farm and environment management by considering a variety of issues including uncertainty, time, and spatial relationships.

**Moderator:** Sandip Agarwal, Iowa State University

Learning Spatiotemporal Management under Heterogeneous Damage and Uncertain Parameters: An Agent-Based Approach

**Jason J. Holderieath**, Colorado State University; Joleen C. Hadrich, Colorado State University

Spatial Dependence and Determinants of Dairy Farmers' Adoption of Best Management Practices for Water Protection

**Wei Yang**, University of Auckland

Unfolding the Bias in Farm Nitrogen Management

**Sandip Agarwal**, Iowa State University; Keri L. Jacobs, Iowa State University; Quinn Weninger, Iowa State University



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

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### **1041 Storage and Inventory Decisions in Agricultural Markets**

*Nantucket, 4th Floor*

#### **Selected Presentation**

This session examines agricultural market dynamics focusing on storage and inventory decisions.

**Moderator:** Brian D. Wright, University of California, Berkeley

“Negligible” Trends and the Empirical Interpretation of Commodity Prices

**Brian D. Wright**, University of California, Berkeley; Eugenio Bobenrieth, Pontificia Universidad Católica De Chile; Juan R.A. Bobenrieth, Universidad del Bio-Bio; Di Zeng, University of Arkansas

A Dynamic Model of U.S. Beef Cow Inventories

**Yunhan Li**, University of Georgia; J. Scott Shonkwiler, University of Georgia

Decomposing Local Corn Prices into Hedgeable and Unhedgeable Shocks

**Kandice K. Marshall**, USDA-Economic Research Service; Michael K. Adjemian, USDA-Economic Research Service; Jerrod Penn, University of Kentucky; Todd Hubbs, USDA-Economic Research Service

Structural Estimation of the Competitive Storage Model with Elastic Supply Using Data on Prices and Quantities

Christophe Gouel, Institut National de la Recherche Agronomique; **Nicolas Legrand**, Institut National de la Recherche Agronomique

### **1042 Methods in Valuing the Environment through Survey Design**

*New Hampshire, 5th Floor*

#### **Selected Presentation**

The papers in this session address methodological aspects associated with valuing the environment through survey design.

**Moderator:** Jerrod Penn, University of Kentucky

Making the Most of Cheap Talk in an Online Survey

**Jerrod Penn**, University of Kentucky; Wuyang Hu, University of Kentucky

A Distribution Transition Method for Extreme Responses in Recreation Survey Data

**Ashley Barfield**, University of Georgia; J. Scott Shonkwiler, University of Georgia

Using a Spatial Error Latent Class Approach to Accommodate Willingness to Pay Hotspots

**Danny Campbell**, University of Stirling

Preference Elicitation Methods and Welfare Implications: Experimental Evidences from Valuation and Purchasing Water Quality Credits

**Pengfei Liu**, University of Connecticut; Stephen K. Swallow, University of Connecticut

### **1043 How Different Types of Credence Attributes Affect Consumer Preferences**

*Regis, 3rd Floor*

#### **Selected Presentation**

These papers determine how product attributes that cannot be easily verified by consumers impact consumer preferences for goods. Different types of these credence attributes are considered across different goods and countries.

**Moderator:** Wendy J. Umberger, University of Adelaide

Impact of Organic, Sustainable, and Salmon-Safe Wine Making Practices on Wine Prices

**Megan Waldrop**, Washington State University; Jill J. McCluskey, Washington State University

The Meat of the Matter: A Choice Experiment to Understand Consumers' Valuation of Animal Welfare and Other Credence Claims in Fresh Meat Products

Lenka Malek, University of Adelaide, Women and Children's Health Research Institute; **Wendy J. Umberger**, University of Adelaide; Jill Windle, Central Queensland University; John C. Rolfe, Central Queensland University; Sven M. Anders, University of Alberta

Are Consumers' Preferences for Food Values in the U.S. and Norway Similar? A Best-Worst Scaling Approach

**Claudia Bazzani**, University of Arkansas; Geir W. Gustavsen, Norwegian Institute of Bioeconomy Research; Rodolfo M. Nayga, University of Arkansas; Kyrre Rickertsen, Norwegian University of Life Sciences

Profiling Private-Label Avoiders

**Ronald B. Larson**

## Concurrent Sessions – Monday, 1:00 - 2:30 PM

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### 1044 Attributes Influencing Beverage Consumption

Salon A, 4th Floor

#### Selected Presentation

This session focuses on factors influencing beverage and food demand and new methods for estimating demand models.

**Moderator:** Richard Carew, Agriculture and Agri-Food Canada

Segmenting California Wines in the British Columbia Wine Market: The Influence of Wine Attributes on Retail Wine Prices  
Richard Carew, Agriculture & Agri-Food Canada; **Wojciech J. Florkowski**, University of Georgia; Ting Meng, University of Pennsylvania

Is Fair Trade Fair for Consumers? A Hedonic Analysis of U.S. Retail Fair Trade Coffee Prices  
**Xiaojin Wang**, University of Kentucky; Yuqing Zheng, University of Kentucky

A Composite Demand Analysis for the Beverage Market  
**Yan Heng**, University of Florida; Lisa A. House, University of Florida

The Impact of Nutrient Demand and Marketing Instruments on Intra-Category Substitution  
**Yi Xie**, Arizona State University; Timothy J. Richards, Arizona State University

### 1045 Topics on Crop Insurance

Salon D, 4th Floor

#### Selected Presentation

Papers in this session examine the implications of U.S. federal crop insurance subsidies on U.S. agriculture.

**Moderator:** Ashley Hungerford, USDA-Economic Research Service

Estimating Demand for Government Subsidized Insurance: Evidence from the U.S. Crop Insurance Program  
**Joshua D. Woodard**, Cornell University

The Effect of Crop Insurance Premium Subsidies on Soybean Producers' Risk Management Portfolios  
**Ashley E. Hungerford**, USDA-Economic Research Service; Stephanie D. Rosch, USDA-Economic Research Service

The Acreage Effects of the Premium Subsidy in the U.S. Federal Crop Insurance Program  
**Jisang Yu**, University of California, Davis; Daniel A. Sumner, University of California, Davis; Aaron Smith, University of California, Davis

Upland Cotton Producers' Willingness to Participate in a BMP/STAX Pilot Program  
**Christopher N. Boyer**, University of Tennessee; Kimberly L. Jensen, University of Tennessee; Elizabeth McLeod, Clemson University; James A. Larson, University of Tennessee

### 1046 Risk and Insurance in the Developing World

Salon H, 4th Floor

#### Selected Presentation

Papers in this session cover topics related to risk and insurance vis-a-vis shocks and technology adoption in less developed countries.

**Moderator:** Quentin Stoeffler, University of California, Davis

Insuring Farmer Groups: Impacts of a Cotton Area-Yield Insurance in Burkina Faso  
**Quentin Stoeffler**, University of California, Davis; Michael R. Carter, University of California, Davis

Getting Ahead or Falling Behind? The Importance of Households' Ability to Manage Idiosyncratic Risk in Rural Ghana  
**Felix Naschold**, University of Wyoming

Natural Disasters and the Family in Areas with High Levels of Insurance  
**Adan Silverio Murillo**, University of Minnesota

Fit-Risk in Development Projects: Role of Demonstration in Technology Adoption  
Moon Parks, University of California, Berkeley; **Sangeeta Bansal**, Jawaharlal Nehru University; David Zilberman, University of California, Berkeley

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

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### 1047 Labor Supply and Outcomes in Developing Countries

Salon I, 4th Floor

#### Selected Presentation

Papers in this session deal with the cause and impact of different types of labor supply decisions in developing countries.

**Moderator:** Megan B. Sheahan, Precision Agriculture for Development

Disaggregated Labor Supply Implications of Guaranteed Employment in India

**Megan B. Sheahan**, Precision Agriculture for Development; Yanyan Liu, International Food Policy Research Institute; Sudha Narayanan, Indira Gandhi Institute for Development Research; Christopher B. Barrett, Cornell University

Participation in Non-Farm Work and Vulnerability to Food Poverty of Households in Northern Ghana

**Yacob A. Zereyesus**, Kansas State University; Weldensie T. Embaye, Kansas State University; Francis Tsiboe, University of Arkansas; Vincent Amanor-Boadu, Kansas State University

Early Fertility and Labor Market Segmentation: Evidence from Madagascar

Kira M. Villa, University of New Mexico; **Catalina Herrera Almanza**, Northeastern University; David Ezra Sahn, Cornell University

The Impact of Emergency Food Aid on Children's Schooling and Work Decisions

**Nzinga H. Broussard**, USDA-Economic Research Service; Robert Poppe, Deutsche Gesellschaft fuer Internationale Zusammenarbeit; Tsegay G. Tekleselassie, University of Sussex

### 1048 Sanitary and Phytosanitary Measures in Agricultural Trade

Salon J, 4th Floor

#### Selected Presentation

This session focuses on sanitary and phytosanitary measures, food safety standards, and their effects on international agricultural markets. The analyses are relevant to stakeholders as well as policy makers in agri-food sectors.

**Moderator:** Jada Thompson, Colorado State University

A System Approach for Three-Dimensional Panel Data to Estimate Poultry Trade Impacts due to Animal Disease Outbreaks

**Jada Thompson**, Colorado State University; Dustin L. Pendell, Kansas State University

Revealed Concerns: A New Look at the Impact of Sanitary and Phytosanitary Measures on Agri-Food Trade

**Jason Grant**, Virginia Tech; Shawn Arita, USDA-Economic Research Service

Evaluating the Stringency of Maximum Residue Limits: U.S. Exports of Fruits and Vegetables to the EU and TPP Markets

**Mina Hejazi**, Virginia Polytechnic Institute & State University; Jason Grant, Virginia Tech; Everett B. Peterson, Virginia Tech

Analysis of the Food Safety Standards Impact on Quality Upgrading

**Jihyun Eum**, The Ohio State University; Stanley R. Thompson, The Ohio State University

### 1049 Economics of Biofuels

Salon K, 4th Floor

#### Selected Presentation

This session examines economic and environmental aspects of biofuels production

**Moderator:** David Zilberman, University of California, Berkeley

Corn Ethanol and U.S. Biofuel Policy Ten Years Later: A Systematic Review and Meta-Analysis

Gal Hochman, Rutgers University; **David Zilberman**, University of California, Berkeley

Identifying the Factors Causing the Coupling of Renewable Identification Number Prices and the Consequences

**Evan L. Markel**, University of Tennessee; Dayton M. Lambert, University of Tennessee

A Re-Examination of "Land Price Volatility in a Geographically Dispersed Market": Ethanol, Market Change, and New Methods

**Jeffrey S. Young**, Purdue University; James K. Binkley, Purdue University; Raymond J.G.M. Florax, Purdue University

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

### 1050 The Livestock Sector: Topics on Health and Productivity

*Tremont, 1st Floor*

#### Selected Presentation

This session covers topics related to health and productivity in the livestock sector in the United States and the European Union.

**Moderator:** Elliott J. Dennis, Kansas State University

Eliminating Arrival Antibiotic Treatment Economic Impacts on U.S. Feedlots

Ted C. Schroeder, Kansas State University; **Elliott J. Dennis**, Kansas State University; David G. Renter, Kansas State University

Using a Portfolio Approach to Evaluate Animal Health Surveillance Portfolios in the United States

**Kamina K. Johnson**, USDA-Animal and Plant Health Inspection Service; Maria C. Antognoli, USDA-Animal and Plant Health Inspection Service; Sara C. Ahola, USDA-Animal and Plant Health Inspection Service; Lori L. Gustafson, USDA-Animal and Plant Health Inspection Service; Matthew A. Branan, Colorado State University; Marta D. Remmenga, USDA-Animal and Plant Health Inspection Service; Rebecca D. Jones, USDA-Animal and Plant Health Inspection Service; Kathleen A. Orloski, USDA-Animal and Plant Health Inspection Service; David J. Hsi, USDA-Animal and Plant Health Inspection Service

Do Nutrient Management Plans Actually Manage Nutrients? Evidence from a Nationally-Representative Survey of Hog Producers

**Stacy E. Sneeringer**, USDA-Economic Research Service; Shirley Pon, University of Maryland

Deregulation and Productivity – Empirical Evidence on Dairy Production

**Fabian Frick**, Technical University of Munich; Johannes Sauer, Technical University of Munich

### 1051 Climate Variability and Drought Impacts on U.S. Agricultural Production

*Vermont, 5th Floor*

#### Selected Presentation

This session is related to climate change impacts on U.S. agricultural production.

**Moderator:** David Hennessy, Michigan State University

The Predictive Content of Climate Anomalies for Agricultural Production: Does ENSO Really Matter?

David Ubilava, University of Sydney; **Jan A. Orlowski**, University of Sydney

Crop Competitiveness and Future Climate Change in the Northern Great Plains

Gaurav Arora, Iowa State University; Hongli Feng, Michigan State University; **David A. Hennessy**, Michigan State University; Christopher Anderson, Iowa State University

An Alternative Approach to Measuring Drought in the Corn Belt

Raymond J. Supalla, University of Nebraska-Lincoln; Bruce Johnson, University of Nebraska-Lincoln; **Anil Giri**, University of Central Missouri

Climate Change impacts on Agricultural Production and Farm Incomes in Texas

**Edward Osei**, Tarleton State University; Syed H. Jafri, Tarleton State University

### 1052 Modeling Space and Time in Agricultural Economics

*Yarmouth, 4th Floor*

#### Selected Presentation

Research continues to recognize the importance of spatial and temporal dynamics in all areas of applied economic research. These papers develop applications of spatial and time-series models to several exciting areas of applied research.

**Moderator:** Eunchun Park, Oklahoma State University

Using Bayesian Spatial Smoothing and Extreme Value Theory to Develop Area-Yield Crop Insurance Rating

**Eunchun Park**, Oklahoma State University; Wade Borsen, Oklahoma State University; Ardian Harri, Mississippi State University

Comovements and Volatility Spillovers in Commodity Markets

**Sibong Chen**, Texas A&M University; Ximing Wu, Texas A&M University

Generalization of the Efficiency Gains in Commodity Forecasting using Disaggregated Levels v.s. More Aggregated Predictions in Multiple Time Series

**Luis M. Pena-Levano**, Purdue University; Kenneth A. Foster, Purdue University

Spatial Convergence of U.S. Obesity Rates and its Determinants

Xun Li, Wuhan University; **Rui Wang**, Tulane University

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

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### **1053 Renewable Energy** *Columbus 1, 1st Floor*

#### **Selected Presentation**

This session addresses the role that policies play in creating incentives for both producers and consumers of renewable energy. Presentations focus on biofuels and solar technology.

**Moderator:** Elena Dulys, Michigan State University

What Drives the Potential Supply of Timber Residues from Private Lands in the Northern Tier of the Great Lakes?

**Elena Dulys**, Michigan State University; Sarah S.H. Klammer, Michigan State University; Scott M. Swinton, Michigan State University

The Economic Cost of Including the Indirect Land Use Factor in Low Carbon Fuel Policy: Efficiency and Distributional Implications

**Madhu Khanna**, University of Illinois at Urbana-Champaign; Weiwei Wang, University of Illinois at Urbana-Champaign

Land Use Change Impact of Renewable Fuel Standard: Evidence from Changes in CRP Re-Enrollment

Jennifer E. Ifft, Cornell University; **Deepak Rajagopal**, University of California, Los Angeles; Ryan Weldzius, University of California, Los Angeles

### **1054 Not Your Grandparents' Farm Bill (or Does the U.S. Farm Bill Still Matter?)** *Clarendon, 3rd Floor*

#### **Track Session – Extension and Senior Sections**

The 2014 Farm Bill was touted by the White House as “Not Your Father’s Farm Bill.” It eliminated direct and counter-cyclical payments and reformed the federal crop insurance program, according to the White House statement. However, a closer look reveals a new suite of safety-net programs, and the expansion of federal crop insurance and disaster assistance programs. Other titles saw only modest changes, for example, to food stamp eligibility criteria and to the budget caps for conservation easements. Is the new bill really a novel approach to farm policy; or more of the same incremental change we’ve observed for decades? Significantly reformed or not—is the farm bill relevant for today’s complex and diverse agricultural and food system? The participants in this panel discussion will be invited by the moderators to address these and other questions in a lively, interactive discussion.

**Organizers:** Nicole Susan Ballenger, University of Wyoming; Neilson C. Conklin, Farm Foundation

**Moderators:** Nicole Susan Ballenger, University of Wyoming; Neilson C. Conklin, Farm Foundation

**Panelists:** John Hardin, Hardin Farms, Indiana; Bradley D. Lubben, University of Nebraska-Lincoln; Alexander F. McCalla, University of California, Davis

### **1055 Agri-Food System and Structural Transformation in Africa** *Dartmouth, 3rd Floor*

#### **Track Session – Africa Section**

Africa’s population is projected to reach approximately two billion people by 2050. The continent’s recent economic transformation and the increasing middle class has engendered food demand similar to trends elsewhere. To meet changing food needs, Africa’s agri-food sector needs a systems’ transformation. As agricultural productivity increasingly release labor to other sectors, the sector’s ability to accommodate the adoption of new technologies must be enhanced, challenging existing tenural systems and their influence on access to credit, which together challenge agriculture’s attractiveness as a career option for young people. The aforementioned factors jointly and independently influence power distribution at all levels in Africa, with the potential to affect national security because of people’s food and nutrition security. This track session presents a panel exploring the interconnections among the foregoing challenges and innovative opportunities for future research to influence policymaking.

**Organizers:** Awudu Abdulai, University of Kiel; Vincent Amanor-Boadu, Kansas State University; Nicole M. Mason, Michigan State University

**Moderator:** Nicole M. Mason, Michigan State University

**Discussants:** Awudu Abdulai, University of Kiel; Vincent Amanor-Boadu, Kansas State University

African Economic Transformation from the Bottom Up

**Margaret Mcmillan**, International Food Policy Research Institute

Africa’s Evolving Employment Structure: Trends and Implications for Youth Livelihoods in Agriculture

**Felix K. Yeboah**, Michigan State University

Agriculture, Inclusive Growth, and National Stability: Exploring the Nexus between Food Security and National Security

**Adesoji O. Adelaja**, Michigan State University

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

### 1056 Using Experimental Economics to Offer Insight into Ethical and Environmental Issues

*Exeter, 3rd Floor*

#### Track Session – Experimental Economics Section

Ethical and environmental issues such as animal welfare and environmental sustainability are becoming more and more important. It is vital to understand drivers of consumer choice as it relates to these issues. This session provides evidence from a choice experiment regarding consumer demand for eggs from animal welfare enhanced production systems. Furthermore, an online choice study is used to understand how perceptions of various production issues, such as animal welfare, influence consumer valuation of fluid milk attributes. In addition, environmental sustainability is highlighted investigating consumers' willingness to pay for pollinator-friendly landscape plants and implications for ornamental horticulture industry. Finally, an online choice experiment drawing on data from multiple large urban areas in the United States is used to study consumer preferences for produce from grocery stores versus produce from farmers' markets and urban gardens.

**Organizers:** Jessica Y. Cao, University of Guelph; Hayk Khachatryan, University of Florida

**Moderator:** Antonios Printezis, Arizona State University

Investigating the Precedence-Dependent Order Effects within Repeated Round of Choice Experiments—the Example of Animal Welfare

*Jessica Y. Cao*, University of Guelph; John Cranfield, University of Guelph

Perception of Fluid Milk Production Practices on Animal Welfare and Environmental Attribute Willingness to Pay

*Benjamin L. Campbell*, University of Georgia; Adam N. Rabinowitz, University of Connecticut; Yizao Liu, University of Connecticut; Qiushuo Yu, University of Connecticut

Experimental Evidence on Consumers' Willingness to Pay for Pollinator-Friendly Landscape Plants

*Hayk Khachatryan*, University of Florida; Alicia Rihn, University of Florida; Ben Campbell, University of Connecticut; Chengyan Yue, University of Minnesota; Charles Hall, Texas A&M University; Bridget Behe, Michigan State University

I'm Naturally Biased! Preferences for Local Food Depending on the Point of Sale

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

### 1057 Building Management Capacity for American Indian Agricultural Businesses

*Fairfield, 3rd Floor*

#### Track Session – Extension Section

This session will discuss the approaches taken to address issues unique to Indian Country when conducting Extension programming related to agriculture entrepreneurship. We will discuss train-the-trainer programs and support for agriculture professionals that are located on reservations and have experience working with American Indian farmers and ranchers. These professionals include Federally Recognized Tribal Extension Program (FRTEP) agents, 1994 Tribal Colleges Extension professionals, and non-profit organizations in Indian Country.

**Organizer:** Kynda R. Curtis, Utah State University

**Panelists:** Kynda R. Curtis, Utah State University; Ruby A. Ward, Utah State University

### 1058 New Frontiers in Applied Risk Analysis

*Simmons, 3rd Floor*

#### Track Session – ARA Section

This session will present frontier research in applied risk analysis; all papers use cutting-edge empirical methods.

**Organizer:** Marc F. Bellemare, University of Minnesota

**Discussant:** David R. Just, Cornell University

Do Producers Follow Bayes' Rule? Empirical Evidence on Price Risk Ambiguity

*Yu Na Lee*, University of Minnesota; Marc F. Bellemare, University of Minnesota; David R. Just, Cornell University

Shortcomings of Exactly Identified Preferences Elicitations

*Thomas W. Sproul*, University of Rhode Island; Clayton P. Michaud, University of Rhode Island

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

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### **1059** How do You Choose Your Food? Insights from Behavioral Economics

*St. Botolph, 2nd Floor*

#### **Track Session – FSN and IBES Sections**

Behavioral economics provides a framework for understanding individual behavior, including behavior that may be viewed as suboptimal from both a public health perspective and an individual point of view—behavioral anomalies; irrationality. Behavioral economics complements traditional economic theory to help explain obesity rates and other dietary-related diseases by considering how environmental, contextual, and cognitive factors affect choice. This session highlights behavioral aspects of healthy food choices by discussing whether incentive-based health programs, mediated by social network effects, successfully promote improved diet quality outcomes. Furthermore, the effectiveness of a culturally relevant healthy food label is tested, focusing on minority groups with higher rates of diet-related health problems than the general U.S. population. In addition, a field experiment examining the impact of attractive displays for vegetables on produce choice at a Food Bank is presented. Finally, an eye-tracking experiment investigating the role of brands on willingness-to-pay for beverages is discussed.

**Organizers:** Carola Grebitus, Arizona State University; Karen E. Lewis, University of Tennessee

**Moderator:** Christiane Schroeter, California Polytechnic State University

Empirical Analysis of an Incentive-Based Health Program with College Students

**Christiane Schroeter**, California Polytechnic State University

Impact of Culturally Relevant Healthy Food Labels on Food Choice on the Rosebud Reservation

**Christopher R. Gustafson**, University of Nebraska-Lincoln; Matt Perlinger, University of Nebraska-Lincoln

What's Behind Door Number Three? Effect of Behavioral Economic Nudges at a Food Shelf on Fruit and Vegetable Consumption of Clients

**Erin Roche**, University of Vermont; Jane M. Kolodinsky, University of Vermont; Michelle Wallace, Vermont Foodbank

How Important are Brands in the Food Market Space? Disentangling the Effects of Attention on Consumer Valuation of Branded versus Unbranded Products using Eye Tracking

**Carola Grebitus**, Arizona State University; Karen E. Lewis, University of Tennessee; Rodolfo M. Nayga, University of Arkansas

### **1060** How Regional Economics Has Changed and What We Learned

*Suffolk, 3rd Floor*

#### **Track Session – CRENET Section**

With the Rural Development Act of 1972, funding and priority of rural economic and development teaching, research, and extension activities increased. The 1972 Act also created the Regional Rural Development Centers which have coordinated regional community and economic development activities. During this same time period, many land grants invested in rural community and economic development by hiring, teaching, research, and extension faculty in this area. Currently many of these faculty are actually or contemplating retirement which mean a new cohort of community and economic development faculty will be working in this area. With these large retirements and hires, the issue of knowledge transmission has become a point of interest. This session will have three speakers addressing development of teaching, research, and extension programs in community and economic development and problems that arose and were addressed. Two new faculty members will address maintaining programs that have historically been successful and identify new opportunities for community and economic development teaching, research, and extension programs.

**Organizer:** Thomas R. Harris, University of Nevada, Reno

**Moderator:** Steven C. Deller, University of Wisconsin

**Presenters:** Rebekka M. Dudensing, Texas A&M AgriLife Extension Service; Thomas R. Harris, University of Nevada, Reno; Paul A. Lewin, University of Idaho; Bruce A. Weber, Oregon State University; Michael D. Woods, Oklahoma State University

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

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### **1061 Environmental Effects of Shale Gas Fracking**

*Vineyard, 4th Floor*

#### **Track Session – ENV Section**

The increase in hydraulic fracturing to produce shale gas has led to several environmental concerns regarding its impact on water consumption and water quality and its consequences for local residents. This session will include four papers that will present analysis quantifying the water quantity and quality effects of fracking, its implications for drinking water use decisions and on property values in the affected areas.

**Organizer:** Madhu Khanna, University of Illinois at Urbana-Champaign

The Effects of Unconventional Oil and Gas Development on Agriculture

**Yusuke Kuwayama**, Resources for the Future (RFF); Timothy Fitzgerald, Texas Tech University; Sheila Olmstead, University of Texas-Austin; Alexandra Thompson, Resources for the Future (RFF)

No Country for Mineral Rights: A Hedonic Valuation of Tight Gas Development in Colorado

**Corey Lang**, University of Rhode Island; Andrew J. Boslett, University of Rhode Island; Todd Guilfoos, University of Rhode Island

Unconventional Shale Gas Development, Risk Perceptions, and Averting Behavior

**Allen Klaiber**, The Ohio State University; Douglas H. Wrenn, The Pennsylvania State University

The Effects of the Natural Gas and Oil Boom on Water Use in the U.S.

**Minhong Xu**, University of Illinois at Urbana-Champaign; Yilan Xu, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign

### **1062 Learning Objectives Compared to Actual Learning**

*Wellesley, 3rd Floor*

#### **Track Session – TLC Section**

This session explores the educational value of undergraduate agribusiness and agricultural economics education. Senior students at Colorado State University and California Polytechnic State University were given the same comprehensive, two-hour assessment designed to test knowledge and skills in agricultural economics, finance, marketing and policy, as well as written communication skills. To test the value gained by the four-year curriculum, first-quarter freshmen at both institutions were provided the same assessment. Initial data collected in Spring and Fall 2015 indicate very revealing differences as well as some striking similarities between the seniors and freshmen performance. Further data collection is ongoing with final results expected in June 2016. We will also report new results on a 2015 assessment of undergraduate research experiences that surveyed alumni from six universities with agribusiness/agricultural economics and economics programs.

**Organizers:** Lynn L. Hamilton, California Polytechnic State University; Gregory M. Perry, Colorado State University

**Discussant:** Jay Noel, California Polytechnic State University

**Panelists:** Lynn L. Hamilton, California Polytechnic State University; Leah G. Mathews, University of North Carolina at Asheville; Gregory M. Perry, Colorado State University



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

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### **1063** Evaluating Trade Performance in Agriculture

*Berkeley, 3rd Floor*

#### **Track Session – COSBAE and International Sections**

Global livestock, meat, grains and oilseeds consumption and trade have risen steadily, driven on the demand side, by rising incomes and expanding populations, and on the supply side by increased feed availability, technological change, changing industry structure, and improvement in transportation, and other value-adding technologies. At the same time, a number of trade agreements have facilitated further expansion of U.S. agricultural exports. In the last 50 years, U.S. presence in animal products, feed grains and oilseed trade have seen dramatic changes. Markets that were once predominantly import-oriented markets have begun to export significant amounts of products. Understanding the drivers of these changes could be beneficial to informing agricultural trade policy. The objective of this session is to explore the changes in trade openness and competitiveness in U.S. and global livestock, grains and oilseeds in light of the existing and ongoing bilateral and multilateral trade agreements.

**Organizers:** Keithly G. Jones, USDA-Economic Research Service; Ivan T. Kandilov, North Carolina State University

**Moderator:** Keithly G. Jones, USDA-Economic Research Service

**Presenter:** Lurleen M. Walters, Mississippi State University

Overview of the U.S. Agricultural Trade Performance

**Ivan T. Kandilov**, North Carolina State University

Revealed Comparative Advantage of U.S. Livestock, Grain and Oilseed Commodities

**Lorraine S. Mitchell**, USDA-Economic Research Service; Shelbi Knisley, USDA-Economic Research Service; Andy Jerardo, USDA-Economic Research Service

Trade Performance in the Livestock Sector

**Seanicaa E. Edwards**, USDA-Economic Research Service; Alex Melton, USDA-Economic Research Service; Joseph G. Cessna Jr., USDA-Economic Research Service MTED APCOP; Mildred M. Haley, USDA-Economic Research Service; Sean Ramos, USDA-Economic Research Service

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

### 1064 Exploring Economic and Policy Frontiers at the Intersection of Resource, Regional, and Rural

*Provincetown, 4th Floor*

#### Invited Papers

This session aims to stimulate a dialog among resource, regional and rural economists to assess the progress and prospects of research and policies at the intersection of resource, rural and regional economics, to discuss current on-going research, and to identify emerging topics of interest and possible directions for future research.

**Organizers:** Bruce A. Weber, Oregon State University; JunJie Wu, Oregon State University

**Moderator:** Bruce A. Weber, Oregon State University

**Discussant:** Maureen Kilkenny, National Center for Food and Agricultural Policy

A Framework for Exploring Nature-Human and Rural-Urban Interactions: Integrating Regional, Resource and Rural Economics Insights

**JunJie Wu**, Oregon State University; Bruce A. Weber, Oregon State University; Mark D. Partridge, The Ohio State University

Spatial-Dynamic Complexities of the Climate Challenge for Rural Areas: Integrating Resource and Regional Economic Insights

**Rebecca S. Epanchin-Niell**, Resources for the Future; Yusuke Kuwayama, Resources for the Future; Margaret Walls, Resources for the Future

Protected Areas and Urban Development: The Case Study of Natural Regional Parks in France

**Thomas Coisson**, AGROCAMPUS OUEST; Julien Salanié, Université Jean Monnet

### 1065 Consumers' Trade-offs When Different Values Conflict: Insights and Examples with Animal Welfare and Environmental Sustainability as Choice Criteria

*Arlington, 3rd Floor*

#### Organized Symposium

Global food value chains are cooperating to achieve collective sustainability standards, including measurable and verifiable environmental, economic and social indicators. Given the ecology of agricultural production, regulatory improvement of one indicator e.g. animal welfare, may lead to adverse environmental (public good) or economic (private) outcomes, confounding the common sustainability goal. We report on international research examining public perceptions and values regarding sustainability, and consider how consumers make trade-offs in food preferences when outcomes for different social and environmental criteria are conflicting. A discussion of challenges and opportunities from including neurophysiological measures for this kind of research is part of our conversation.

**Moderator:** Wendy J. Umberger, University of Adelaide

Public Interest in the Use of Genomic Selection to Breed Pigs with Animal Welfare, Human Health and Environmental Outcomes

**Ellen W. Goddard**, University of Alberta

Understanding Australian Consumers' Trade-off Decisions when Choosing Meat with Animal Welfare and Other Sustainable Attributes

**Lenka Malek**, Women's and Children's Health Research Institute; Jill Windle, Central Queensland University; Wendy J. Umberger, University of Adelaide; John C. Rolfe, Central Queensland University

Organizing Neuroeconomics around Sustainability Constructs and Ethics-based Decisions in Agriculture: The Example of Animal Welfare

**Daniel R. Hawes**, University of Bonn; Monika Hartmann, University of Bonn

### 1066 Online Survey Data Quality and its Implication: Academia and Industry Perspective

*Tremont, 1st Floor*

#### Organized Symposium

This session will discuss data quality issues in online surveys from both academia and industry perspectives. The panel members of the symposium will discuss the impact of potential satisficing behavior of online consumer panels on data quality. They will also demonstrate the use of different instruments that are commonly applied by online survey companies and researchers in academia. In addition, the panel members will present several approaches that can be used to improve the quality of data collected from online surveys.

**Organizers:** Zhifeng Gao, University of Florida; Lisa A. House, University of Florida

**Panelists:** Zhifeng Gao, University of Florida; Lisa A. House, University of Florida; Trey Malone, Oklahoma State University; Peter Shafer, Enterprise Solutions, Toluna USA, Inc.

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

### 1067 Price Dynamics in Agricultural and Related Markets

Salon B, 4th Floor

#### Selected Presentation – Lightning Session

The studies in this section use modern time series methods to explore price dynamics in agricultural and related markets.

**Moderator:** Evgenia Pavlova, Georg-August University

Short and Long-run Dynamics of Inflation and Commodity Prices

Sarah A. Stutzman, Purdue University; **Luis M. Pena-Levano**, Purdue University; Timothy G. Baker, Purdue University; Cesar L. Escalante, University of Georgia

The Great Recession and Vertical Price Transmission in the U.S. Beef Market

**Elham Darbandi**; Sayed H. Saghaian, University of Kentucky

On The Economics of Commodity Price Dynamics and Price Volatility: A Case Study of Chinese Agricultural Commodity Market

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

The Effect of Brazilian Corn and Soybean Crop Expansion on Price and Volatility Transmission

**Jose Cesar Cruz Jr.**, Federal University of Sao Carlos; Daniel Henrique Dario Capitani, University of Campinas; Rodrigo L. F. Silveira, University of Campinas; Fabiana S. P. Urso, BM&F Bovespa; Joao G. Martinez-Filho, University of Sao Paulo

Estimating Relative Price Impact: The Case of Brent and WTI

**Shiyu Ye**, University of Georgia; Berna Karali, University of Georgia

Measuring Price Discovery in Agricultural Markets

**Evgenia Pavlova**, Georg-August-Universität Göttingen; Stephan Von Cramon, University of Göttingen

Vegetable Price Prediction Using Atypical Web-Search Data

**Do-il Yoo**, Chungbuk National University

### 1068 Crop and Revenue Insurance

Salon C, 4th Floor

#### Selected Presentation – Lightning Session

This lightning round session provides new insights into current issues related to crop and revenue insurance.

**Moderator:** Juan He, North Carolina State University

Estimating the Effect of Crop Insurance on Input Use When Insured Farmers are Monitored

**Juan He**, North Carolina State University; Roderick M. Rejesus, North Carolina State University; Xiaoyong Zheng, North Carolina State University; Jose M. Yorobe Jr., University of the Philippines - Los Banos

The Potential to Use Futures and Options to Manage Crop Insurance Losses

**Jonathon Driedger**, University of Manitoba; Milton Boyd; Lysa Porth, University of Manitoba

Comparative Analysis of Producer Welfare Benefits of Yield Substitution and Yield Exclusion

**Shyam Adhikari**, Aon Benfield

The Demand for Crop Insurance: Elasticity and the Effect of Yield Shocks

**Erik J. O'Donoghue**, USDA-Economic Research Service; Sarah Tulman, USDA-Economic Research Service

Farmer Response to Crop Insurance Incentives Under Heterogeneous Risk-Management Strategies

**Kari E. Heerman**, USDA-Economic Research Service; Joseph C. Cooper, USDA-Economic Research Service; Robert C. Johansson, USDA-Office of the Chief Economist; Thomas W. Worth, USDA-Risk Management Agency

Impact Evaluation of the Brazilian Crop Insurance Public Program “Proagro Mais”

**Carlos Andrés Oñate**, University of Sao Paulo; Vitor Ozaki, University of Sao Paulo; Boris E. Bravo-Ureta, University of Connecticut

Can Crop Productivity Indices Improve Crop Insurance Rates?

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

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

### 1069 Gender and Decision-Making

*Berkeley, 3rd Floor*

#### Selected Presentation

All papers in this session focus on gender-empowerment and related issues in developing countries.

**Moderator:** Lindsey K. Novak, University of Minnesota

Change of Heart: Shifting Opinions of Female Genital Cutting

**Lindsey K. Novak**, University of Minnesota

Does She Have a Say? The Impact of Livestock Transfer and Associated Training on Women's Empowerment: Evidence from Nepal and Zambia

**Kashi R. Kafle**, University of Illinois at Urbana-Champaign; Hope C. Michelson, University of Illinois at Urbana-Champaign; Alex E. Winter-Nelson, University of Illinois at Urbana-Champaign

Gender, Agricultural Extension, and the Adoption of Improved Maize Varieties: Evidence from Ethiopia, Kenya, Tanzania, Malawi, and Mozambique

Ruth Meinzen-Dick, International Food Policy Research Institute; Cheryl R. Doss, Yale University; Simone Passarelli, International Food Policy Research Institute; **Greg Seymour**, International Food Policy Research Institute; Paswel P. Marenya, International Food Policy Research Institute

Decomposing the Gender Wealth Gap in Ecuador

**Boaz Anglade**, University of Florida; Pilar Useche, University of Florida; Carmen Diana Deere, University of Florida

### 1070 Water Quality Policies

*Harvard, 3rd Floor*

#### Selected Presentation

This session examines various policies and management approaches directed at reducing nutrients and pollutants in public waters. Presentations primarily address agricultural and residential sources.

**Moderator:** Marc O. Ribaud, USDA-Economic Research Service

Reducing the Dead Zone: Assessing the Costs to Agriculture

**Marc O. Ribaud**, USDA-Economic Research Service; Elizabeth Marshall, USDA-Economic Research Service; Scott A. Malcolm, USDA-Economic Research Service; Marcel P. Aillery, USDA-Economic Research Service

The Effectiveness of Overlapping Pollution Regulation: Evidence from the Ban on Phosphate in Dishwasher Detergent

**David A. Keisier**, Iowa State University; Alex Cohen, Yale University

Consequences of the Clean Water Act and the Demand for Water Quality

David A. Keisier, Iowa State University; **Joseph S. Shapiro**, Yale University and National Bureau of Economic Research

### 1071 Behavioral Economics in Agribusiness

*Massachusetts, 5th Floor*

#### Selected Presentation

This session discusses a range of agribusiness issues using behavioral economics concepts.

**Moderator:** Mazbahul Ahamad, University of Nebraska-Lincoln

Envious Preference in Two-sided Matching Contract

**Mazbahul Ahamad**, University of Nebraska-Lincoln

Adoption and Abandonment of Conservation Agriculture: The Role of Social Networks and Spouses

**Alwin Dsouza**, Arizona State University; Ashok K. Mishra, Arizona State University

Asymmetric Effects of Winning and Losing Experience on Bidding Behaviour in Multi-Unit Auctions

**Rebecca Elskamp**, University of Guelph

Motivation, Attitude, and Participation in Agricultural Fairs

**Ram N. Acharya**, New Mexico State University

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

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### **1072** New Methods on Food Demand Estimation

*Nantucket, 4th Floor*

#### **Selected Presentation**

This session examines the demand for a variety of food products, as well as new methods for estimating prediction models.

**Moderator:** Andrea M. Leschewski, Michigan State University

Ingredient Complexity and the Demand for Convenience Foods

**Andrea M. Leschewski**, Michigan State University; Dave D. Weatherspoon, Michigan State University; Annemarie Kuhns, USDA-Economic Research Service

Interpreting Results of Demand Estimation from Machine Learning Models

**Gareth P. Green**, Seattle University

New Evidence on the Structure of Food Demand in China: An EASI Demand Model Estimated via IV-Panel Data Techniques

**Vardges Hovhannisyian**, University of Wyoming

A Country-Differentiated Import Demand Model for Fresh Tomatoes in the United States: An Estimation of Price and Income Elasticities for 1991 through 2014

**Octavio Valdez-Lafarga**, Arizona State University; Troy G. Schmitz, Arizona State University

### **1073** Competitiveness in Agricultural and Transportation Markets

*New Hampshire, 5th Floor*

#### **Selected Presentation**

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

**Moderator:** Sarah Stutzman, Purdue University

On the Demand for Federal Crop Insurance and Subsidy Reforms

**Yang Wang**, North Carolina State University; Francis Annan, Columbia University in the City of New York

How Do Premium Subsidies Affect Crop Insurance Demand at Different Coverage Levels: The Case of Corn

**Jing Yi**, Texas A&M University

Rejuvenating Barge Transportation Efficiency on the Mississippi River

Brian Wetzstein, Zen-Noh Grain Corporation; Kenneth A. Foster, Purdue University; Raymond J.G.M. Florax, Purdue University; James K. Binkley, Purdue University; **Michael E. Wetzstein**, Purdue University; Sarah Stutzman, Purdue University; Sarah Stutzman, Purdue University

### **1074** Product Information and Food Choices

*Regis, 3rd Floor*

#### **Selected Presentation**

These papers determine how different types of information provided to consumers impact consumer food choices. Information may be presented on product packaging or directly to consumers

**Moderator:** Meng Shen, University of Florida

Blue or Red? How Color Affects Consumer Information Processing in Food Choice

**Meng Shen**, University of Florida; Zhifeng Gao, University of Florida

An Effect of the List of Carcinogenic Food Categories in Consumers' Feelings of Guilt and Purchase Behavior

**Seoyoung Hwang**, Seoul National University; Junghoon Moon, Seoul National University

The Challenges of Enhancing Meat Product Information in Traditional Markets: An Alternative Strategy to Observe and Remove Starting-Point Bias

**Shang-Ho Yang**, National Chung Hsing University; Diogo Souza Monteiro, Newcastle University; Wei-Zeng Chen, National Chung Hsing University

Factors Affecting Consumer Acceptance of Nano-Packaged Food Products

**Shuoli Zhao**, University of Minnesota; Chengyan Yue, University of Minnesota; Yumeng Wang, Renmin University of China

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

### 1075 Food-Related Consumer Behavior

Salon A, 4th Floor

#### Selected Presentation

Are consumers satisfied with food policies in South Korea? How do consumers value rice grades in South Korea? What behaviors drive consumers' store choice decisions in underserved communities in the United States? Are the drivers of food purchasing decisions associated with consumer-level food waste behavior in Canada? This session addresses these questions.

**Moderator:** Lauren Chenarides, The Pennsylvania State University

Consumers' Satisfaction with Food Policies: A Case Study of South Korea

Sanghyo Kim, Korea Rural Economic Institute; **Seong-Yoon Heo**, Korea Rural Economic Institute; Carl R. Zulauf, The Ohio State University; Kyei-Im Lee, Korea Rural Economic Institute

Consumers' Valuation of Rice Grade Labeling

Young Woon Choi, National Food Safety Information Service; Doo Bong Han, Korea University; Rodolfo M. Nayga, University of Arkansas; **Ji Yong Lee**, Kansas State University

Store Choice and Consumer Behavior in Food Deserts: An Empirical Application of the Distance Metric Method

**Lauren Chenarides**, The Pennsylvania State University; Edward C. Jaenicke, The Pennsylvania State University

Determinants of Consumer Food Waste Behaviour: Homo Economics vs. Homo Moralis

**Deepananda P. Herath**, Agriculture and Agri-Food Canada; Abdel Felfel, Agriculture and Agri-Food Canada

### 1076 Food Safety and Foodborne Illness

Salon D, 4th Floor

#### Selected Presentation

Safety is a critical element of any food supply. This session includes four papers that analyze food safety measures and foodborne illness outbreaks.

**Moderator:** John Bovay, USDA-Economic Research Service

Welfare Effects of the U.S. Food Safety Modernization Act Produce Safety Rule

**John Bovay**, USDA-Economic Research Service; Peyton M. Ferrier, USDA-Economic Research Service; Chen Zhen, Research Triangle Institute

How Foodborne Illness Outbreaks Impact Tomato Farms

**Ioana (Julia) I. Marasteanu**, Food and Drug Administration; Travis Minor, Food and Drug Administration

What Drives Media Reporting for Food Safety Events? Evidence from U.S. Meat Recalls

**Bhagyashree Katare**, Purdue University; Timothy Beatty, University of California, Davis

Foodborne Illness Outbreaks, Collective Reputation, and Voluntary Adoption of Industry-wide Food Safety Protocols by Fruit and Vegetable Growers

**Aaron A. Adalja**, University of Maryland; Erik Lichtenberg, University of Maryland

### 1077 Competition and Pricing in Food Retailing

Salon H, 4th Floor

#### Selected Presentation

This session includes four empirical papers on competition and pricing in food retailing.

**Moderator:** Sven M. Anders, University of Alberta

Premium Private Labels, Cost-Pass Through and Retail Price Rigidity

**Sven M. Anders**, University of Alberta; Thomas Bittmann, University of Kiel

Pricing Complementary Products

**Timothy J. Richards**, Arizona State University; Stephen F. Hamilton, California Polytechnic State University

Impacts from a Retail Grocery Acquisition: Do National and Store Brand Prices Respond Differently?

**William Secor**, University of Minnesota; Metin Cakir, University of Minnesota

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

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### 1078 Agricultural Policy and Growth Issues

Salon I, 4th Floor

#### Selected Presentation

This session addresses issues related to agricultural policy and agricultural growth in developed and developing countries.

**Moderator:** Iryna Demko, The Pennsylvania State University

Policy Impacts from U.S. Organic Equivalency with the European Union

**Iryna Demko**, The Pennsylvania State University; Edward C. Jaenicke, The Pennsylvania State University

Accounting for Farm Heterogeneity in the Assessment of Agricultural Policy Impacts on Structural Change

**Legrand D. F. Saint-Cyr**, Agrocampus Ouest; Laurent Piet, National de la Recherche Agronomique, UMR SMART

Brazil's Changing Macroeconomic Conditions: Impacts on Agricultural Growth and Trade

**Constanza Valdes**, USDA-Economic Research Service; Kim C. Hjort, Economic Analysis Systems

Can Agricultural Growth Explain the Reversal of a Declining Trend in Per Capita Calorie Consumption in India?

**Deepti Elizabeth Kolady**, South Dakota State University; Shivendra K. Srivastava, National Centre for Agricultural Economics and Policy Research; Jaspal Singh, National Institute of Agricultural Economics and Policy Research

### 1079 Nutrition Issues in the Developing World

Salon J, 4th Floor

#### Selected Presentation

Papers in this session address various aspects of the status and policy of nutrition in less developed countries.

**Moderator:** Leah EM Bevis, Cornell University

Who Supplies the Nutrients? The Puzzle of Crop Zinc Heterogeneity and Low-Zinc Market Crops in Rural Uganda

**Leah EM Bevis**, Cornell University

Food Subsidies and Nutritional Status: Evidence from ICRISAT Data

Priya Bhagowalia, Jawaharlal Nehru University; **Arjita Chandna**, Jawaharlal Nehru University

Inequality in the Distribution of Calories: Evidence from Bangladesh

Anna D'Souza, Baruch College, CUNY; **Sharad A. Tandon**, USDA-Economic Research Service

Agriculture, Nutrition, and the Green Revolution in Bangladesh

**Derek Headey**, International Food Policy Research Institute; John Hoddinott, Cornell University

### 1081 Effect of Weather on Resource Use and Management

Vermont, 5th Floor

#### Selected Presentation

This session explores the effects of weather stochasticity and spatial heterogeneity on public safety, crop field days, water infrastructure, and water quality trading program design.

**Moderator:** Seong Do Yun, Yale School of Forestry and Environmental Studies

Days Suitable for Field Work in the U.S. Corn Belt: Climate, Soils and Spatial Heterogeneity

**Seong Do Yun**, Yale School of Forestry and Environmental Studies

Role of Weather on Design of a Water Quality Trading Program Baseline: A Case Study of the Jordan Lake Watershed, North Carolina.

**Marzieh Motallebi**, Clemson University; Ali Tasdighi, Colorado State University; Dana L. Hoag, Colorado State University; Mazdak Arabi, Colorado State University

Water in the Balance: The Impact of Water Infrastructure on Agricultural Adaptation to Rainfall Shocks in India

**Esha D. Zaveri**, The Pennsylvania State University; Douglas H. Wrenn, The Pennsylvania State University; Karen Fisher-Vanden, The Pennsylvania State University

An Empirical Analysis of Typhoons and Crime Rates in Taiwan

**Chin-Hsien Yu**, Southwestern University of Finance & Economics; Jianhong Mu, Oregon State University; Jinxiu Ding, Xiamen University

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

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### 1082 Climate Change and Agriculture

*Vineyard, 4th Floor*

#### Selected Presentation

Papers in this session analyze climate change impacts and adaptation in agricultural systems.

**Moderator:** Jianhong Mu, Oregon State University

An Empirical Analysis of Climate Uncertainty and Land-use Change in the U.S. Pacific and Mountain Regions

**Jianhong Mu**, Oregon State University; Christopher Mihlar, Oregon State University; David Lewis, Oregon State University; Benjamin Sleeter, U.S. Geological Survey; John Abatzoglou, University of Idaho

Can Workfare Programs Support Adaptation to Climate Change? Evidence from Indian Agriculture

Anil K. Bhargava, University of Michigan; Teevrat Garg, London School of Economics; **Vis P. Taraz**, Smith College

Climate Change and Adaptive Strategies in Agriculture: Assessing the Impacts on Small Farmers in the Brazilian Sertão

**Alexandre Gori-Maia**, State University of Campinas; Daniele Cesano, Onda Verde Consultancy; Bruno C. B. Miyamoto, State University of Campinas; Patricia Andrade, State University of Campinas; Gabriela Santos Eusebio, State University of Campinas

Water Scarcity, Food Production, and Welfare: an Application of ENVISAGE Model

**Iman Haqiqi**, Purdue University

### 1083 Empirical Production Economics

*Yarmouth, 4th Floor*

#### Selected Presentation

This session is comprised of papers on production economics topics. The papers discuss carbon offset markets in livestock production, cost efficiency of U.S. electric power plants, the substitution of electricity generation in hydraulic fracturing technology and how crime impacts the efficiency of Mexican States.

**Moderator:** Albert K. Boaitey, University of Alberta

Optimal Livestock Management for Improved Environmental Outcomes: How Effective are Carbon Offset Markets?

**Albert K. Boaitey**, University of Alberta; Ellen W. Goddard, University of Alberta

Substitution in Electricity Generation: A State Level Analysis of Structural Change from Hydraulic Fracturing Technology

**Levan Elbakidze**, West Virginia University; Gulnara Zaynutdinova, West Virginia University

Greenhouse Gas Emissions Effect on Cost Efficiencies of U.S. Electric Power Plants

**Melissa Lynes**, U.S. Energy Information Administration; Brady E. Brewer, University of Georgia; Allen M. Featherstone, Kansas State University



## Concurrent Sessions — Monday, 2:45 - 4:15 PM

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**1084** **Development Issues in Latin America: Food Security, Health and Female Labor Force, Property Rights, and Agricultural R&D**  
*Boylston, 1st Floor*

### Track Session – LAS Section

The papers presented at this track session provide a mix of novel research ideas in economic development in Latin America and the Caribbean. The first paper estimates the effects of enrollment in a subsidized health care program on food expenditure and food security in Colombia. On health and female labor force, the second paper turns to the relationship between physical and psychological intimate partner violence and job exit in Colombia. The third paper explores the effects of private property rights on agricultural investments and land market transactions among small farmers in Peru. The last paper evaluates the evolving state of investments and returns to research and development (R&D) in the region using newly developed, long-run, country-specific data on investments in food and agricultural R&D as well as data on scientific personnel and on the evidence on economic returns to R&D.

**Organizer:** Johanna Fajardo-Gonzalez, University of Minnesota

**Moderator:** Luis A. Ribera, Texas A&M University

The Impact of Subsidized Health Care on Food Expenditure and Food Security: Estimates for Colombia  
**Camilo Bohorquez-Penuela**, University of Minnesota

Intimate Partner Violence and Female Job Exit in Colombia  
**Johanna Fajardo-Gonzalez**, University of Minnesota

Collective Property Rights and Agriculture in Peru  
**Margarita Gafuro**, Brown University

The Economic Returns to Agricultural R&D in Latin America and The Caribbean: Is There Enough Investment?  
**Robert S. Andrade Lopez**, University of Minnesota

**1085** **Life on the Tenure-Track: Keys to Strategic Choices Early in your Career**  
*Clarendon, 3rd Floor*

### Track Session – GSS and FSN Sections

As a young faculty member, navigating the road to tenure can be daunting. Being “successful” in the field often hinges on a complex interplay of ill-defined requirements that go far beyond the evaluation of one’s peer-reviewed publication record. Delivering award winning teaching, securing external grant funding, supervising graduate students and servicing external stakeholders are some of the expectations that department chairs and faculty committees may have for young colleagues who are applying for tenure and promotion. However, the weight of different performance categories ranges widely and individual performance criteria may not be easily quantified. This track session brings together early-career and more experienced members of the academic community to provide tips, share experiences, and discuss strategies for success on the tenure track.

**Organizers:** Joshua G. Maples, Oklahoma State University; Christiane Schroeter, California Polytechnic State University

**Moderator:** Joshua G. Maples, Oklahoma State University

Looking at the Hard Facts: Results from a National Survey of Recently-Tenured Faculty  
**Christiane Schroeter**, California Polytechnic State University; Sven M. Anders, University of Alberta

What Matters in the Tenure Decision: Perspectives from an External Reviewer  
**Dawn D. Thilmany McFadden**, Colorado State University

Balancing Your Life Portfolio: Spousal Hires and Family Additions  
**Hikaru Hanawa Peterson**, University of Minnesota

Toolkit for Recent Hires: Advice from a Department Head  
**Michael D. Woods**, Oklahoma State University

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

### **1086 Rejuvenating the Battered Exhausted Abused Teacher (BEAT)**

*Dartmouth, 3rd Floor*

#### **Track Session – SS-AAEA and TLC Sections**

The objective is to provide a non-intimidating method for instructors to work toward enhancing instruction as students matriculate through their college education. Solutions to enhancements in learning, motivating, teamwork building, and infrastructure developing are offered in metric form. Prior to developing the solutions, a test is provided to determine the degree an instructor is emotionally exhausted from teaching. If the results indicate some degree of teaching exhaustion, then an instructor may want to consider the solutions offered for rejuvenation, which enhances learning. As an aid toward customizing solutions for each instructor, a student value calculator is employed, which determines uniquely for each instructor areas that will enhance instruction. From this evaluation, a personalized set of five solutions for rejuvenation that add student value is derived. From this customized set of teaching solutions, a physical “Coat of Teaching” is created with paper and markets as a continual reminder of the solutions.

**Organizer:** Michael E. Wetzstein, Purdue University

**Discussant:** Elizabeth A. Yeager, Kansas State University

**Panelists:** Gregory J. Colson, University of Georgia; Aslihan D. Spaulding, Illinois State University

**Presenter:** Michael E. Wetzstein, Purdue University

### **1087 The Russian Food Import Ban and the Eurasian Economic Union: Analysis of Trade Impacts**

*Exeter, 3rd Floor*

#### **Track Session – International Section**

Resolution 830 of the Russian Federation from August 20, 2014, introduced an import embargo for certain agricultural products originating from the United States, the EU, Canada, Australia, and Norway. Meat, dairy products, fruits, and vegetables were the main targeted categories. On June, 25 2015, Russia announced the extension of the import embargo until August 2016. EU total value of agricultural and food exports were higher in 2015 than in any recent year, since higher exports to other destinations exceeded losses of exports to Russia. However, the incidence of impacts varied greatly across EU member states and in EU neighboring countries. Also there is a broader trade disarray in this region. The goal of this session is to collect analyses from different techniques and sources to provide a basis for discussion of the possible short and longer term impacts of these trade disruptions.

**Organizer:** William H. Meyers, University of Missouri

**Moderator:** William H. Meyers, University of Missouri

**Discussant:** Joseph W. Glauber, International Food Policy Research Institute

The Regional Effects of the Russian Import Ban

*Ekaterina Krivonos*, Food and Agriculture Organization

Global Economic Impacts of Russian Restrictions on Food Imports

*Alla Golub*, Purdue University; *Badri Narayanan Gopalakrishnan*, Purdue University

Trade Diversion and High Food Prices - The Impact of the Russian Pig Meat Import Ban

*Linde J. Goetz*, Leibniz-Institute for Agricultural Development in Middle and Eastern Europe; *Ivan M. Djuric*, Leibniz Institute of Agricultural Development in Transition Economies; *Thomas Glauben*, Leibniz Institute of Agricultural Development in Transition Economies (IAMO)

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

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**1088** **What's in a Label? The Research, Politics and Policy of Genetically Modified Product's Labeling in the United States**  
*Fairfield, 3rd Floor*

### Track Session – FSN and FAMPS Sections

The labeling of genetically modified (GM) food continues to be a predominant biotechnology policy issue in the United States. Set to go into effect in July of 2016, Vermont's mandatory labeling law has been challenged in court by the Grocery Manufacturers Association, and the Federal Government is facing strong lobbying to prohibit state laws regarding GM labels. Public trust, the media, and lobbying dollars all have played a role in the labeling debate. This session presents research related to these three issues and adds a fourth presentation on the legal issues surrounding the policy debate. We hope that the session will engender a lively discussion that addresses the complex issues associated with the labeling of GM foods.

**Organizers:** Jane M. Kolodinsky, University of Vermont; Trenton Smith, University of Otago (New Zealand)

**Moderator:** Jill J. McCluskey, Washington State University

Does Consumers' Trust in Institutions Affect their Attitudes Towards GM Labeling?

**Karen E. Lewis**, University of Tennessee; Carola Grebitus, Arizona State University

Mediating Effects of the Media on the Informational Cues of GM labels

**Jane M. Kolodinsky**, University of Vermont; Ben Crosby, University of Vermont

(Mis)-Informed Consumers? Deep Capture and the GM Foods Debate

**Trenton Smith**, University of Otago (New Zealand)

Legal and Political Issues Surrounding Mandatory Labeling of Products Produced Using GM Ingredients

**Todd Daloz**, Assistant Attorney General, State of Vermont

**1089** **Regulation in the Brewing Industry: A Panel Discussion of Brewing Experts**

*Hyannis, 4th Floor*

### Track Session – BEER Section

The regulatory environment surrounding the production and distribution of beer is very complex. Often times, producers do not anticipate legal restrictions in brewing and distribution and become caught in a legal quagmire. Furthermore, depending on the location of the brewery, some of the restrictive laws have been in place since prohibition. This track session will focus on a discussion of the legal barriers faced by brewers in the New England area and how they have overcome them to become successful establishments. An industry panel discussion of four brewery owner and operators with a moderator will discuss the legal difficulties with starting and running a successful brewery. The focus will be on the idiosyncrasies of production and distribution regulation beyond the three-tier distribution system.

**Organizer:** Michael P. McCullough, California Polytechnic State University

**Moderator:** Richard J. Volpe III, California Polytechnic State University

**Panelists:** Rob North (Great North Aleworks) and Bryan Greenhagen (Mystic Brewery)

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

### **1090 Implications of Recent Empirical Evidence for the Risk-Balancing Hypothesis**

*Maine, 5th Floor*

#### **Track Session – ARA and Econometrics Sections**

This session provides a synthesis of new empirical evidence on the risk balancing hypothesis. The papers presented develop new identification strategies to enable casual interpretation out of their empirical analyses and also have theoretical implications. [Du et al.] utilize a natural experiment from China and a regression discontinuity design approach to show that hog farmers are not taking more debt after hog insurance becomes available. However insured farmers are 20% more willing to take debt than uninsured farms, which indicates that hog farmers in China face a credit constraint. At the same time, de Mey and Rao use detailed European agricultural panel data to explore the occurrence and extent of risk balancing behavior in greater depth. Finally, Ifft uses a difference-in-difference strategy to estimate the casual impact of an exogenous farm policy shock on farms' debt use.

**Organizers:** Jennifer E. Ifft, Cornell University; Liang Lu, University of California, Berkeley

**Moderator:** Liang Lu, University of California, Berkeley

**Discussant:** Stephen C. Gabriel, Farm Credit Administration

Risk Balancing, Credit Constraint, and on Credit Input Use: A Natural Experiment Approach from Hog Farmers in China  
**Xiaoxue Du**, University of California, Berkeley; Calum G. Turvey, Cornell University; Yuehua Zhang, Zhejiang University; David Zilberman, University of California, Berkeley

The 2014 Farm Act and U.S. Farm Debt Structure

**Jennifer E. Ifft**, Cornell University

Exploring the Extent of Risk Balancing Behavior: Panel Data Evidence from European Agriculture

**Yann De Mey**, KULeuven; Xudong Rao, Wageningen University

### **1091 Climate Risk and Uncertainty**

*Simmons, 3rd Floor*

#### **Track Session – ENV Section**

Climate change and associated risk is arguably the most pressing environmental issue we face today. Three of the foremost economic researchers will speak on the issue in this session designed to allow extra time for questions and discussion.

**Organizers:** Ben Gramig, Purdue University; Matthew G. Interis, Mississippi State University

**Moderator:** Ben Gramig, Purdue University

The Road from Paris: International, National, & Sub-National Climate Policy

**Robert Stavins**, Harvard University

Abrupt Irreversible Climate Events and the Social Cost of Carbon

**James H. Stock**, Harvard University

Uncertainty in Climate and Crop Yields

**John Reilly**, M.I.T.

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

### 1092 Agribusiness Research Methods

*St. Botolph, 2nd Floor*

#### Track Session – AEM Section

The session promotes scholarly rigor in agribusiness research by demonstrating best practices through application. For instance, product terms in logit and probit models of binary choices may be better illustrated graphically, as demonstrated in study of producers' cash and contract sales. Partial least squares (PLS) offers an alternative to covariance-based structural equation models (SEM) of latent constructs and paths effects when data are non-normal, as in a study of relationships among firms' slack financial resources and innovation. Social network analysis facilitates understanding of social structures graphically represented by ties—for example, edges, links, and connections—amongst individuals or groups, and is applied here to measure the relatedness of a firm's patents and its implications for a biotechnology firm's innovative performance. Finally, when data is unavailable or insufficient, analysis of individual case studies can provide insights into economic phenomena and prove particularly useful for explaining concepts in the classroom.

**Organizer:** Jason Franken, Western Illinois University

**Moderator:** Joost M. E. Pennings, Maastricht University

Graphical Illustration of Interaction Effects in Binary Choice Models

**Joost M. E. Pennings**, Maastricht University; Jason Franken, Western Illinois University

Slack Financial Resources and Firm Level Innovation: An Application of PLS-SEM

**Eric T. Micheels**, University of Saskatchewan; Omid Mirzaei, University of Saskatchewan

A Social Network Approach to Understanding U.S.P.T.O Patent Data: A Review and Application of Social Network Measures to Patent Portfolio Data

**Desmond W. Ng**, Texas A&M University; Leonardo Sanchez, Littoral Polytechnic School

The Role of Research Cases in Teaching Environments

**Michael L. Cook**, University of Missouri

### 1093 Frontiers of Agricultural Transformation: What Has Changed?

*Suffolk, 3rd Floor*

#### Track Session – Africa and International Sections

Agricultural transformation involves a rise in productivity, market specialization and input use on farms with an associated shift in resources towards urban nonfarm activity. This session will present new work on how these changes are unfolding now, in Africa and other frontier regions where the transformation has both similarities and differences from the earlier experience of other regions. James Oehmke and co-authors will begin on moving from classical and neoclassical models of transformation to a contemporary model that focuses on rural employment, small towns and agribusinesses. Then trace the transformation of agricultural input industries in a paper from Carl Pray and co-authors, the transformation of value chains for farm outputs from Chuck Moss and Dave Weatherspoon, and the impacts of these changes on human nutrition from Will Masters.

**Organizer:** William A. Masters, Tufts University

Contemporary African Agricultural Transformation

**James F. Oehmke**, USAID; Carl E. Pray, Rutgers University; Anwar Naseem, Rutgers University; Latha Nagarajan, Rutgers University; Jock R. Anderson, World Bank; Lori A. Post, Yale University

Review of Agricultural Inputs Supply Policies in Contemporary Agricultural Transformation in Africa

**Carl E. Pray**, Rutgers University; Latha Nagarajan, Rutgers University; Greg Traxler, Evans School of Public Policy & Governance, University of Washington; Anwar Naseem, Rutgers University; David Gisselquist, IFDC

Household Production and Dietary Diversity: Implications for Supply Chain Development

**Dave D. Weatherspoon**, Michigan State University; Charles B. Moss, University of Florida

Agricultural Transformation and Human Nutrition: What Has Changed?

**William A. Masters**, Tufts University

## Concurrent Sessions — Monday, 2:45 - 4:15 PM

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### **1094** Extension Educational Efforts and the 2014 Farm Bill

*Wellesley, 3rd Floor*

#### **Track Session – Extension Section**

This symposium highlights the educational efforts of extension to inform producer and landowner decisions regarding the 2014 Farm Bill commodity title programs. Topics covered in the symposium include educational tools and strategies employed by various universities, impacts of outreach activities on sign-up decisions and other outcomes, and a discussion of expected efforts required in coming years regarding farm income safety net programs.

**Organizer:** Mykel R. Taylor, Kansas State University

**Moderator:** Bradley D. Lubben, University of Nebraska-Lincoln

**Panelists:** Glenn A. Barnaby Jr., Kansas State University; Joe L. Outlaw, Texas A&M University; Gary D. Schnitkey, University of Illinois

The 2014 Farm Bill Commodity Title Programs

**Bradley D. Lubben**, University of Nebraska-Lincoln

Summary of National Survey of Producers and Extension Educators on use of Farm Bill Decision Aids

**Brenna Ellison**, University of Illinois at Urbana-Champaign; Nicholas D. Paulson, University of Illinois at Urbana-Champaign

Results from Survey of Kansas Producers and Landowners on Farm Bill Sign-Up Decisions

**Mykel R. Taylor**, Kansas State University

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

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### **1095 Strategic Decision Making in Agribusiness**

*Massachusetts, 5th Floor*

#### **Case Studies**

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

**Moderator:** William Secor, University of Minnesota

Ethanol Plant Investment: A Real Options Case Study

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

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

**Brian P. Baker**, Self-Employed

Following the Giant to an Emerging Market: Bama China

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

### **1096 Agricultural Economics as a Behavioral Discipline**

*Arlington, 3rd Floor*

#### **Organized Symposium**

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

**Organizer:** David Zilberman, University of California, Berkeley

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

Behavioral Elements in the Study of Agricultural Technology and Risk

**David Zilberman**, University of California, Berkeley

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

**David R. Just**, Cornell University

Resolving Exchange Anomalies by Accounting for Relational Goods

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

Self-Efficacy, Economic Behavior, and Agricultural Economics

**David Wuepper**, Technical University Munich

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

### 1098 Food and Agricultural Policy Analysis

Salon B, 4th Floor

#### Selected Presentation – Lightning Session

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

**Moderator:** Kolawole Ogundari, University of Delaware

Are Agricultural R&D Returns Declining and Development Dependent?

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

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

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

What Drives India's Rice Stocks? Empirical Evidence

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

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

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

The Effects of American Diets on Food System Energy Use

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

Adaptations to Achieve Future Sustainable Irrigation

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

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

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

### 1099 Response to Concerns about Climate

Salon C, 4th Floor

#### Selected Presentation – Lightning Session

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

**Moderator:** Kevin Meyer, Iowa State University

Climate Change and Agriculture: the Role of Tile Drainage

**Kevin Meyer**, Iowa State University; David A. Keisier, Iowa State University

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

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

Flexible-Fuel Automobiles and CO<sub>2</sub> Emissions in Brazil: a Semiparametric Analysis using Panel Data

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

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

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

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

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

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

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

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

**Matthew L. Utterback**, Cornell University

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

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



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

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### **1100 Rural Economic Growth and Human Capital Accumulation**

*Columbus 1, 1st Floor*

#### **Selected Presentation**

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

**Moderator:** Teevrat Garg, London School of Economics

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

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

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

**Kibrom Tafere**, Cornell University

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

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

### **1101 Impacts of Biofuels**

*Harvard, 3rd Floor*

#### **Selected Presentation**

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

**Moderator:** Luis M. Pena-Levano, Purdue University

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

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

Sensitivity of Miscanthus Supply: Application of Faustmann's Rule in Deterministic and Stochastic Cases

**Nosra Ben Fradj**, Institut National de la Recherche Agronomique; Pierre-Alain Jayet, Institut National de la Recherche Agronomique

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

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

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

### 1102 Land and Water Management and the Environment

Hyannis, 4th Floor

#### Selected Presentation

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

**Moderator:** Krishna P. Paudel, Louisiana State University

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

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

A Hydro-Economic Model to Analyze the Allocation of Agricultural Water in the Tennessee Basin

Lixia He, University of Tennessee; Christopher D. Clark, University of Tennessee; **Dayton M. Lambert**, University of Tennessee; Jamey Menard, University of Tennessee; Burton C. English, University of Tennessee; Stephanie Owen, University of Tennessee

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

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

Community Supported Agriculture and Preferences for Risk and Fairness

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

### 1103 Food Policies and Healthy Food Choices

Maine, 5th Floor

#### Selected Presentation

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

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

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

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

An Economic Analysis of Beverage-Size Restrictions

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

The Effect of Subsidizing Supermarkets to Enter Food Deserts on Welfare

**Linlin Fan**, University of Illinois at Urbana-Champaign

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

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

### 1104 Demand Model Specification

Nantucket, 4th Floor

#### Selected Presentation

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

**Moderator:** Vahé Heboyan, Augusta University

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

**Vahé Heboyan**, Augusta University; Vardges Hovhannisyian, University of Wyoming

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

**Jun Zhang**, University of Maryland

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

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

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

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### 1105 The Demand for Eco-Labeled and Local Products

*Regis, 3rd Floor*

#### Selected Presentation

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

**Moderator:** Michael Vassalos, Clemson University

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

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

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

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

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

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

Potential Demand for Local Fresh Produce by Mobile Markets

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

### 1106 The Effect of Climate Uncertainties on Agriculture

*Salon A, 4th Floor*

#### Selected Presentation

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

**Moderator:** Sunil Dhoubhadel, Fort Hays State University

Cost of Risk Exposure, Farm Disinvestment and Adaptation with Climate Uncertainties: The Case of Arable Farms in the EU

**Habtamu Y. Ayenew**, Technical University of Munich; Johannes Sauer, Technical University of Munich; Getachew Abate Kassa, Technical University of Munich

Livestock Demand, Global Land Use, and Greenhouse Gas Emissions

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

Agricultural R&D Policy Under Climate and Economic Uncertainty

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

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

**Angga Pradesha**, International Food Policy Research Institute

### 1107 Factors Impacting Healthy Food Choice

*Salon D, 4th Floor*

#### Selected Presentation

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

**Moderator:** Derek Headey, International Food Policy Research Institute

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

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

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

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

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

**Monika Hartmann**, University of Bonn; Sean B. Cash, Tufts University; Ching-Hua Yeh; Stefanie C. Landwehr, Rheinische

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

Friedrich-Wilhelms-Universität Bonn; Anna R. McAlister, Endicott College

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

Salon H, 4th Floor

### Selected Presentation

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

**Moderator:** Alicia Rosburg, University of Northern Iowa

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

**Aaron V. De Laporte**, North Dakota State University

Mitigating Feedstock Supply Risk in Corn Stover Biofuel Production

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

Spatial Competition and Welfare-Ranking of Biofuel Policies

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

## 1109 Emissions Policies

Salon I, 4th Floor

### Selected Presentation

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

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

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

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

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

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

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

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

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

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

## 1110 Migration Causes and Consequences

Salon J, 4th Floor

### Selected Presentation

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

**Moderator:** Elizabeth R. Bageant, Cornell University

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

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

Intra-Rural Migration in Tanzania and Mechanisms of Welfare Change

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

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

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

Driving Factors of Rural-Urban Migration in China

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

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

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### 1111 Direct Investment and Agricultural Trade

*Salon K, 4th Floor*

#### Selected Presentation

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

**Moderator:** Ivan T. Kandilov, North Carolina State University

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

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

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

**Sandro Steinbach**, ETH Zurich

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

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

### 1112 Risk and Uncertainty in the Energy Market

*St. Botolph, 2nd Floor*

#### Selected Presentation

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

**Moderator:** Rebecca J. Davis, University of Tennessee

The Ethanol Mandate and Downside Risk in Agriculture

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

Examining the Effects of Uncertainty on Second-Generation Biofuel Investment by Using a Two Stochastic Process Approach

**Evan L. Markel**, University of Tennessee; Charles Sims, University of Tennessee

Contracting Arrangements for Perennial Energy Crops

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

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

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

### 1113 Domestic Rural Policy

*Suffolk, 3rd Floor*

#### Selected Presentation

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

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

School Quality and the Location and Expansion of Rural Manufacturers

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

Are Rural Areas Underserved by Federal Housing Assistance Programs?

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

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

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

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

### 1114 Behavioral Insights on Brand and Food Purchase Decisions

*Tremont, 1st Floor*

#### Selected Presentation

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

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

The Effects of Self-Control on Subsequent Purchasing Decisions.

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

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

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

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

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

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

**Lindsey K. Novak**, University of Minnesota

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

*Vermont, 5th Floor*

#### Selected Presentation

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

**Moderator:** John K. Gibson, University of Waikato

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

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

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

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

### 1116 Precision Agriculture

*Yarmouth, 4th Floor*

#### Selected Presentation

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

**Moderator:** Xiaofei Li, Mississippi State University

Estimating Site-Specific Crop Yield Response using Varying Coefficient Models

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

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

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

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

**Divina Gracia P. Rodriguez**, Norwegian Institute of Bioeconomy Research

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

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

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

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

*Berkeley, 3rd Floor*

#### **Track Session – COSBAE Section**

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

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

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

**Presenter:** Kelly A. Grogan from University of Florida  
Academic Perspective on Regulations

**Clare A. Narrod**, University of Maryland

Government Role in the Regulatory Process

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

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

*Clarendon, 3rd Floor*

#### **Track Session - International Section and IATRC**

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

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

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

**Discussants:** Josef Georg Schmidhuber, Deputy Director, Markets and Trade Division, FAO; Frank Van Tongeren, Organization for Economic Cooperation and Development

Predicting Long Term Food Demand, Cropland Use and Prices

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

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

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

Long Run Agricultural Projections within a General Equilibrium Context

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

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

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

*Dartmouth, 3rd Floor*

#### Track Session – FSN and FAMPS Sections – Lightning Session

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

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

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

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

Limitations of Using Nutrition Facts Panel Information for Nutrition Research

**Ilya M. Rahkovsky**, USDA-Economic Research Service

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

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

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

**Megan D. Sweitzer**, USDA-Economic Research Service

Eating Out of the Box—How Healthy Is It?

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

Linking IRI data with Nutrition and Price Information

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

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

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

Changes in Food Retail Market Structure and Household Produce Purchases

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



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

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

*Exeter, 3rd Floor*

#### **Track Session – International and IBES Sections**

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

**Organizer:** Emilia Tjernström, University of Wisconsin

**Discussant:** Cynthia G. Kinnan, Northwestern University

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

*Emilia Tjernström*, University of Wisconsin

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

*Eliana Zeballos*, University of California, Davis

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

*Felipe Dizon*, University of California, Davis

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

*Fairfield, 3rd Floor*

#### **Track Session – GSS Section**

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

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

**Moderator:** Clinton L. Neill, Oklahoma State University

Looking Back: Advice from a Recent Hire

*Brady E. Brewer*, University of Georgia

Another Path: Interviewing at the AAEA (ASSA) Meetings

*Ariel Ortiz-Bobea*, Cornell University

Looking in: An Industry Perspective

*Mathew Salois*, University of Florida

Tips from the Top: Insight from a Department Head

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

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

**1122** **Consumer Preference for Food and Food Technology in China: Willingness to Pay and Willingness to Accept for Food Attributes Related to Perceived Risks, Credence Quality, Animal Welfare and Eco-Friendly**  
*New Hampshire, 5th Floor*

### Track Session – China Section - Lightning Session

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

**Organizer:** Guzhen Zhou, Jiangxi University of Finance and Economics

**Moderator:** Wuyang Hu, University of Kentucky

Chinese Consumer Preference on Red Wine Attributes

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

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

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

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

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

Chinese Consumer Willingness to Pay for Pork with Credence Quality Attributes

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

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

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

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

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

Market Opportunities to Export Pork to China

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

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

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

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

### 1123 Regulatory Costs in California Agriculture

*Provincetown, 4th Floor*

#### Track Session – AEM and Senior Sections

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

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

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

**Discussant:** Jay Noel, California Polytechnic State University

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

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

*Simmons, 3rd Floor*

#### Track Session – China Section – Lightning Session

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

**Organizer:** Guzhen Zhou, Jiangxi University of Finance and Economics

**Moderator:** Yanhong Jin, Rutgers University

Are Resources Cursed? An Investigation of Chinese Provinces

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

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

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

Adaptation to Climate Change and Rice Production in Southern China

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

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

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

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

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

Contract Farming in China: Perspectives of Smallholders in Vegetable Production

**Xiaokang Li**, Zhejiang University; Hongdong Guo, Zhejiang University

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

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

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

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

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

### 1125 Crop Insurance: Opportunities and Challenges Facing the Industry

*Vineyard, 4th Floor*

#### Track Session – ARA Section

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

**Organizer:** Oscar Vergara, Air Worldwide

**Discussant:** Keith H. Coble, Mississippi State University

Crop Insurance: Domestic Opportunities and Challenges Facing the Industry

**Tom Zacharias**, National Crop Insurance Services

Crop Insurance: Opportunities and Challenges Facing Program Administrators

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

Crop Insurance: International Opportunities and Challenges Facing the Industry

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

### 1126 Food and Nutrition Issues in Sub-Saharan Africa

*Wellesley, 3rd Floor*

#### Track Session – COSBAE and International Sections

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

**Organizer:** Andrew Muhammad, USDA-Economic Research Service

**Discussant:** Nicole M. Mason, Michigan State University

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

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

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

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

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

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

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### **2001 Optimal Food Waste: A Theoretical and Empirical Foundation**

*Boylston, 1st Floor*

#### **Invited Paper**

Globally, one-third of all food products, \$1 trillion annually, is lost or wasted in food production and consumption. Various governmental policies and programs can mitigate food waste, but a sound economic theory and empirical hypothesis testing is required for achieving efficiency. The current implicit literature path has an objective of zero food waste. However, economic theory indicates some optimal level of food waste. The aim is to establish a theoretical and empirical foundation for shifting the literature toward an economically efficient food waste trajectory. Only then can we develop economically efficient policies.

**Organizers:** Jean C. Buzby, USDA-Economic Research Service; Harry De Gorter, Cornell University; Bhagyashree Katare, Purdue University; Brian E. Roe, The Ohio State University; Mark W. Rosegrant, International Food Policy Research Institute; Michael E. Wetzstein, Purdue University

**Moderator:** Jean C. Buzby, USDA-Economic Research Service

**Discussant:** Harry De Gorter, Cornell University

Toward an Optimal Food Waste Tax

Bhagyashree Katare, Purdue University; Dmytro Serebrennikov, Leibniz Institute of Agricultural Development in Transition Economies; **Michael E. Wetzstein**, Purdue University

The Rebound Effect of Food Waste Reduction Policies: Theory and Evidence

Danyi Qi, The Ohio State University; **Brian E. Roe**, The Ohio State University

Returns to Investment in Reducing Postharvest Food Losses and Increasing Agricultural Productivity Growth

**Mark W. Rosegrant**, International Food Policy Research Institute; Eduardo C. Magalhaes, Datalyze Consulting Corp; Rowena Valmonte-Santos, International Food Policy Research Institute; Daniel Mason-D'Croz, International Food Policy Research Institute

### **2002 Methodological Innovations for Advancing Research on Nutrition and Agriculture**

*Arlington, 3rd Floor*

#### **Organized Symposium**

This session draws on a new BMGF-funded project building methodological bridges between data at different analytical scales, providing methodological innovations adapted to the challenge of quantifying agriculture-nutrition linkages in an integrated fashion. The session will cover the full spectrum of microeconomic research based on household surveys, meso level analysis of markets and trade within countries, and macro level simulation analyses. Some of the innovations in this field include the construction of synthetic data sets that merge together nutrition surveys with geographic information system (GIS) data or other aggregate data (e.g. crop surveys, price data), nutrition-smart simulation models that go beyond household income/consumption metrics to look at dietary patterns, and nutrition-smart agricultural household surveys that integrate best practices for both nutrition and agricultural measurement.

**Organizers:** Derek Headey, International Food Policy Research Institute; William A. Masters, Tufts University

**Panelists:** Steven A. Block, Tufts University; Calogero Carletto, World Bank; You Liangzhi, International Food Policy Research Institute; James Thurlow, International Food Policy Research Institute

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### 2003 Risk, Resilience and Adaptation to Climate Change

*Wellesley, 3rd Floor*

#### Organized Symposium

This session focuses on resilience and adaptation to weather and energy shocks in domestic and non-domestic settings. It provides new insights into the potential impacts of climate change.

**Moderator:** Justice T. Mensah, Swedish University of Agricultural Sciences

Bring Back the Light: Power Outages and Industrial Performance in Sub-Saharan Africa

**Justice T. Mensah**, Swedish University of Agricultural Sciences

The Value of Coastal Protection and Risk: Evidence from the Oregon Coast

**Steven J. Dundas**, Oregon State University; David Kling, Oregon State University; David Lewis, Oregon State University

Sea Level Rise, Flood Risk and Property Values: Evidence from New York City

**Matthew Gibson**, University of California, San Diego; Alison Hill, Williams College

Can Farmers Adapt to Extreme Heat? Evidence from India

**Vis P. Taraz**, Smith College

### 2004 Crop Insurance and Credit Access

*Salon B, 4th Floor*

#### Selected Presentation – Lightning Session

Crop insurance today constitutes the largest set of direct agricultural subsidy programs. This session explores issues related to pricing and delivery of that program, and its interaction with credit markets.

**Moderator:** Christopher Burns, USDA-Economic Research Service

Do Direct Payments and Crop Insurance Influence Mid-size Farm Survival and Decisions to Expand?

**Christopher Burns**, USDA-Economic Research Service; Daniel Prager, USDA-Economic Research Service

How Crop Insurance Affects Farm Business Survivability

**Youngjune Kim**, Kansas State University; Dustin L. Pendell, Kansas State University

Income Tax Credits to Assist Beginning Farmers and Ranchers: A Look at State-Level Policies

**James M. Williamson**, USDA-Economic Research Service; Anthony Girardi, Iowa Department of Revenue

Dynamic Heterogeneous Agent Models of Default on Farm Real Estate Loans

**Yifei Wu**, University of Georgia; Jeffrey H. Dorfman, University of Georgia; Brady E. Brewer, University of Georgia

ARMS Respondent Errors: A Case of Farm Service Agency Loans

**Bruce L. Abrendsen**, University of Arkansas; Bruce L. Dixon, University of Arkansas; Charles B. Dodson, Farm Service Agency/  
Economic Policy Analysis Staff; Diana Danforth, University of Arkansas; Nicole McMinn, University of Arkansas

The Impact of Credit Constraints on the Performance of Chinese Agricultural Wholesalers

**Lifang Hu**, Renmin University of China; Yinchu Zeng, Renmin University; Rigoberto A. Lopez, University of Connecticut

Agricultural Production, Credit Constraints, and Rate Liberalization in China

**Jie Lu**, Renmin University of China; Zhong Tang, Renmin University of China

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### 2005 Agricultural Production Economics

*Salon C, 4th Floor*

#### Selected Presentation – Lightning Session

This session is comprised of eight papers related to Production Economics.

**Moderator:** Melissa McKendree, Kansas State University

Technical Efficiency of Dairy Farms in Uruguay: a Stochastic Production Frontier Analysis

**Gabriela Perez-Quesada**, Universidad de la Republica; Federico Garcia-Suarez, Universidad de la Republica

Comparisons of Real Values of Capital Input

Virgil Eldon Ball, USDA-Economic Research Service; **Richard F. Nebring**, USDA-Economic Research Service; Yu Sheng, Australian Bureau of Agricultural and Resource Economics

Modelling of Bt Corn Production Under Choice of Abatement Specification

**Xiangdong Shi**, University of Minnesota at Twin Cities; Terrance M. Hurley, University of Minnesota

Identifying Economic Hurdles to Early Adoption of Preventative Practices: The Case of Trunk Diseases in California Winegrape Vineyards

**Jonathan D. Kaplan**, California State University, Sacramento; Renaud Travadon, USDA-Agricultural Research Service; Monica Cooper, University of California Cooperative Extension; Vicken Hillis, University of California, Davis; Mark Lubell, University of California, Davis; Kendra Baumgartner, USDA-Agricultural Research Service

Pass-through in the United States Beef Industry: An Update and Expansion

**Melissa McKendree**, Kansas State University; Glynn T. Tonsor, Kansas State University

The Yield Dynamics of Perennial Crops: An Application to Sugarcane in Brazil

**Daniel Tregear**, University of California, Berkeley; David Zilberman, University of California, Berkeley

### 2006 Political Economy and Environmental Policy

*Harvard, 3rd Floor*

#### Selected Presentation

Papers in this session focus on two main issues: the political economy of environmental regulations, and the welfare and environmental impacts of these policies.

**Moderator:** Nicholas J. Pates, Kansas State University

The Political Economy of Embodied Technologies

**Gal Hochman**, Rutgers University; David Zilberman, University of California, Berkeley

Costly Inspections and Little Abatement: An Evaluation of I/M Efficiency

**Christopher S. Giguere**, North Carolina State University

Additionality in Payments for Environmental Services with Technology Diffusion

**Nicholas J. Pates**, Kansas State University; Nathan P. Hendricks, Kansas State University

Is There Life After Death? The Case of the 33/50 Program

Phi Hoang, University of Georgia; **William Henry McGuire**, University of Washington Tacoma; Aseem Prakash, University of Washington

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

### 2007 New Insights into Index Insurance

*Hyannis, 4th Floor*

#### Selected Presentation

Index insurance is gaining attention as an alternative to indemnity-based insurance. The papers in this session discuss new research touching on several dimensions related to index insurance.

**Moderator:** Khushbu Mishra, The Ohio State University

Gender Differential Impacts of Index-Based Rainfall Insurance on Technology Adoption: Evidence from Ghana

**Khushbu Mishra**, The Ohio State University; Richard Gallenstein, The Ohio State University; Mario J. Miranda, The Ohio State University; Abdoul G. Sam, The Ohio State University; Patricia Toledo, The Ohio State University

The Crowd-In Effect of Index Insurance on Informal Risk Sharing

**Chang Xu**, The Ohio State University; Mario J. Miranda, The Ohio State University

Index Insurance and Moral Hazard in a Microfinance Context

**John Dougherty**, The Ohio State University; Richard Gallenstein, The Ohio State University; Khushbu Mishra, The Ohio State University; Mario J. Miranda, The Ohio State University; Jon Einar Flatnes, University of California, Davis

### 2008 Spatial and Land Issues in Agribusiness

*Maine, 5th Floor*

#### Selected Presentation

This session addresses spatial and land-related ecosystem issues in agribusiness.

**Moderator:** Tun-Hsiang Yu, University of Tennessee

Determinants of Lock Delays on the Upper Mississippi River: A Spatial Econometrics Approach

**Tun-Hsiang Edward Yu**, University of Tennessee; Burton C. English, University of Tennessee; Bijay Sharma, University of Tennessee

Land Rental, Farm Investment, Productivity and Efficiency in Burkina Faso

**Didier Y. Alia**, University of Kentucky; Yoko Kusunose, University of Kentucky; Veronique Theriault, Michigan State University

The Spatiotemporal Interrelatedness of Farmers' Switching Decisions

**Tim Viergutz**, Goettingen University; Birgit Schulze-Ehlers, Goettingen University

Tradeoffs among Multiple Ecosystem Services and Economic Returns from Groundwater Depletion on a Farm Landscape

**Kent Kovacs**, University of Arkansas; Michael P. Popp, University of Arkansas; Grant H. West, University of Arkansas

### 2009 Choice Experiments and the Influence of Beliefs and Sensory Evaluation on Preferences

*Massachusetts, 5th Floor*

#### Selected Presentation

This session presents research on drivers of demand and willingness to pay for different food products. Furthermore, it informs on influence of beliefs and sensory evaluation as it relates to experimental research.

**Moderator:** Renee Shaw Hughner, Arizona State University

Drivers of Demand for Specialty Crops – The Example of Arizona-Grown Medjool Dates

Carola Grebitus, Arizona State University; **Renee Shaw Hughner**, Arizona State University; Anne O. Peschel, Aarhus University

What Consumers Don't Know About GM Food and How That Affects Beliefs

**Brandon R. McFadden**, University of Florida; Jayson L. Lusk, Oklahoma State University

Combining Sensory Evaluation and Mental Models in the Assessment of Consumer Preferences for and Choice of Healthy Products: Experience from a Field Experiment in Kenya

Julius J. Okello, International Potato Center; **Carl Johan Lagerkvist**, Swedish University of Agricultural Sciences; Penina Muoki, International Potato Center; Simon Heck, International Potato Center; Gordon Prain, International Potato Center



## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### 2010 Information and Consumer Decision

*MIT, 3rd Floor*

#### Selected Presentation

This set of papers present evidence on how information and risk in a variety of contexts affects consumer decisions and behavior.

**Moderator:** Zack Dorner, Monash University

Have Smart Meters Been Used Smartly by Electricity Customers? Evidence from a Case Study in Vermont

**Samantha W. Lewandowski**, University of Vermont; Qingbin Wang, University of Vermont; Robert L. Parsons, University of Vermont

To Tell or Not to Tell: How the Initial Information Impacts Participants' Behavior

**Gnel Gabrielyan**, Washington State University

Investigating the U.S. Consumer Response to the Chinese Takeover of a U.S. Firm

**Yu Yvette Zhang**, Texas A&M University; Marco A. Palma, Texas A&M University; Shaosheng Jin, Zhejiang University; Xiaotong Yuan, Texas A&M University

Eliciting Risk Preferences for Intrinsic Attributes

**Zack Dorner**, Monash University; Daniel A. Brent, Monash University; Anke Leroux, Monash University

### 2011 Impact of Energy Shocks on Agricultural and Related Markets

*Nantucket, 4th Floor*

#### Selected Presentation

This session focuses on empirical applications that examine the effects of energy shocks on energy and agricultural commodities and input prices.

**Moderator:** Vladimir Bejan, Seattle University

Oil Price Volatility and Asymmetric Leverage Effects

**Eunhee Lee**, Korea University; Doo Bong Han, Korea University

Identification in Structural Models Linking Energy and Corn Commodity Markets

**Veronica F. Pozo**, Utah State University; Vladimir Bejan, Seattle University

Energy Shocks and Price Adjustment: National Brands vs. Private Labels

Xun Li, Wuhan University; **Rui Wang**

Not All Energy Shocks Are Alike: Disentangling Shocks in the U.S. Fertilizer Market

**Vladimir Bejan**, Seattle University; Veronica F. Pozo, Utah State University

### 2012 Applied Environment and Natural Resource Valuation

*New Hampshire, 5th Floor*

#### Selected Presentation

The papers in this session utilize hedonic and sorting models to evaluate the relationship between amenities/disamenities and residential housing.

**Moderator:** David M. Wolf, The Ohio State University

Blue-Green Algae's Impact on Ohio's Inland Lake Housing Markets

**David M. Wolf**, The Ohio State University; Allen Klaiber, The Ohio State University

Hedonic Analysis and Time Varying Amenities: An Application Using School Quality

**Charles A. Towe**, University of Connecticut; Constant Tra, University of Nevada, Las Vegas

Do Superfund Sites Affect Local Property Values? Evidence from a Spatial Hedonic Approach

**GwanSeon Kim**, Jack Schieffer, University of Kentucky; Tyler B. Mark, University of Kentucky

The Impact of Pollution Burden on Micro-level Residential Sorting

**Mitchell R. Livy**, California State University, Fullerton; Cristina Connolly, The Ohio State University

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### 2013 Child Health and Development

*Northeastern, 3rd Floor*

#### Selected Presentation

Three papers in this session investigate various issues related to child health and development.

**Moderator:** Hope C. Michelson, University of Illinois at Urbana-Champaign

Agricultural Production Subsidies and Child Health: Evidence from Malawi

**Hope C. Michelson**, University of Illinois at Urbana-Champaign; Gillian Galford, University of Vermont

Climate Shocks and Child Health: Sex-specific Vulnerability and Protective Effects of Sanitation and Food Markets in Nepal

Steven A. Block, Tufts University; William A. Masters, Tufts University; **Prajula Mulmi**, Tufts University; Gerald E. Shively, Purdue University

Associations Between Food Scarcity During Pregnancy and Children's Survival and Growth in Zambia

**Maria Christina J. Foreman**, University of New Hampshire; Guenther Fink, Harvard School of Public Health; Wafaie Fawzi, Harvard School of Public Health; Ibironke Olofin, Harvard School of Public Health

Immiserizing Biotechnology: Is Semisynthetic Artemisinin Good for Global Health?

**K. Aleks Schaefer**, University of California, Davis

### 2014 Economic Analyses of Obesity

*Provincetown, 4th Floor*

#### Selected Presentation

In this session four papers examine obesity, its economics causes, and its economic impacts.

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

Obesity as a Modifier of Price Sensitivity in the United States

**Abigail M. Okrent**, USDA-Economic Research Service; Megan D. Sweitzer, USDA-Economic Research Service

The Impact of the Food Environment on Childhood Obesity using the BMI Report Card in Worcester MA

**Belkis J. Cerrato Caceres**, Edgewood College; John Brown, Clark University; Jacqueline Geoghegan, Clark University

Mindlessness and Mindfulness of Secondary Eating

**Fuad Alagsam**, University of Kentucky; Jack Schieffer, University of Kentucky

### 2015 The Impacts of Advertising on Food Consumption

*Regis, 3rd Floor*

#### Selected Presentation

These papers examine the motivation for advertising food products, the effects on brand choice, and how advertising regulations impact product choices and related outcomes. Different types of advertising, products, and locations are considered.

**Moderator:** Xi He, University of Connecticut

Do Firms Advertise and Price to Maximize Profits? Evidence from U.S. Food Industries

**Xi He**, University of Connecticut; Rigoberto A. Lopez, University of Connecticut

The Impact of Child-Directed TV Food Advertising Regulations on Pocket Money Allowances

**Lindsey M. Higgins**, California Polytechnic State University; Andres Silva, Institut National de la Recherche Agronomique

Does Self-Regulation Work? The Case of Television Food Advertisement to Children in Germany

**Stefanie C. Landwehr**, University of Bonn; Monika Hartmann, University of Bonn

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### 2016 Plant Breeding: Market Analysis and Policy

Salon A, 4th Floor

#### Selected Presentation

Proponents of genetically modified (GM) crops list increased yields, enhanced resistance to adverse weather, diseases and pests, and increased nutritional content, among other benefits. The controversy lies in the effect genetic modifications may have on human health. The papers in this session address some of the market and policy impacts of plant breeding programs with special emphasis on GM crops.

**Moderator:** Wallace E. Tyner, Purdue University

Economic and Environmental Impacts of a Global GMO Ban

Harrison H. Mahaffey, Purdue University; Farzad Taheripour, Purdue University; **Wallace E. Tyner**, Purdue University

Modeling the Optimal Strategies for Mitigating Genetically Modified (GM) Wheat Contamination Risks

**Houtian Ge**, The Pennsylvania State University; Stephan J. Goetz, The Pennsylvania State University; Richard Gray, University of Saskatchewan; James F. Nolan, University of Saskatchewan

Are WTP Estimates for Fruit Quality Similar between Producers and Consumers? Results of a Choice Experiment on Five Rosaceous Fruit Crops

**R. Karina Gallardo**, Washington State University; Chengyan Yue, University of Minnesota; Vicki A. McCracken, Washington State University; James Luby, University of Minnesota; James R. McFerson, Washington Tree Fruit Research Commission

### 2017 Carbon Sequestration and Emissions in Forests

Salon D, 4th Floor

#### Selected Presentation

Papers in this session explore the role of management and policies on forest carbon, as well as aim to quantify the difficult tradeoffs between forests and agriculture in the Amazon.

**Moderator:** WanYu Liu, Aletheia University

A Study on the Forest Thinning Planning Problem Considering Carbon Sequestration and Emission

**WanYu Liu**, National Chung Hsing University

Trade-offs Between the Amazon Forest and Agriculture in Brazil

**Felipe De Figueiredo Silva**, University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln

The Role of Management in Greenhouse Gas Emissions Projections for the U.S. Forest Sector

Xiaohui Tian, Renmin University of China; Brent Sohngen, The Ohio State University; **Justin S. Baker**, RTI International

Cost Efficiency of Payment Systems for Forest Carbon Sequestration Incorporating Spatial and Temporal Heterogeneities

**Mohamed-Amine Ben Ayara**, University of Tennessee; Seong-Hoon Cho, University of Tennessee; Cristopher Clark, University of Tennessee; Dayton M. Lambert, University of Tennessee; Paul R. Armsworth, University of Tennessee

### 2018 Retail Price Dispersion and Downstream Competition

Salon H, 4th Floor

#### Selected Presentation

This session addresses empirical issues related to competition at the manufacturing and retailing stages of the supply chain.

**Moderator:** Matthew Elliott, University of South Dakota

Dynamic Pricing, Price Fairness, and Market Stability

**Timothy J. Richards**, Arizona State University; Jura Liaukonyte, Cornell University; Nadia A. Streletskaya, Cornell University

The Relationship between Price and Market Structure: New Evidence from the U.S. Food Retail Industry

**Vardges Hovhannisyian**, University of Wyoming; Marin Bozic, University of Minnesota-Twin Cities

The Structure and Competitiveness of Energy Drinks Market

**Mahdi Asgari**, University of Kentucky; Yuqing Zheng, University of Kentucky

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

### 2019 Household Food Demand

Salon I, 4th Floor

#### Selected Presentation

This session includes a set of papers that analyze household food demand in a variety of settings.

**Moderator:** Rapheal O. Babatunde, University of Ilorin, Nigeria

Does Community-based Health Insurance Improve Food Consumption of Low-income Households? Evidence from Kwara State Health Insurance in Nigeria

**Rapheal O. Babatunde**, University of Ilorin, Nigeria

Neighborhoods Matter: Variation in Food Insecurity Not Explained by Household Characteristics

**Olayemi Olabiyi**, Southern Alberta Institute of Technology

Is it Hot in Here or is it Your Food Choices? Examining the Carbon Footprint of U.S. Household Food Spending and Travel to Acquire Food and Linkages to Nutrition and Aggregate Economic Activity

**Rebecca L. Boehm**, Tufts University; Sean B. Cash, Tufts University; Parke E. Wilde, Tufts University; Michele L. Ver Ploeg, USDA-Economic Research Service; Christine Costello, University of Missouri

The Demand for Food in France: The Case of Consumption at Retirement

**Gayaneh S. Kyureghian**, Korea University; Louis Georges Soler, Institut National de la Recherche Agronomique

### 2020 Land Rights and Development

Salon J, 4th Floor

#### Selected Presentation

Papers presented in this session investigate issues related to land rights and values in developing countries.

**Moderator:** Ayala Y. Wineman, Michigan State University

Land Markets and Equity of Land Access in Northwestern Tanzania

**Ayala Y. Wineman**, Michigan State University; Saweda Liverpool-Tasie, Michigan State University

What is Driving Farmland Rental Prices in Sub-Saharan Africa? Evidence from Malawi

**Jacob Ricker-Gilbert**, Purdue University; Nicole M. Mason, Michigan State University; Jordan Chamberlin, International Maize and Wheat Improvement Center

Land Rights and Women's Empowerment: Insights from Item Response Theory

**Maria José Montenegro**, University of Alberta; Sandeep Mohapatra, University of Alberta; Brent M. Swallow, University of Alberta

Direct Measurement of Efficiency Gains from Land Titling: PROCEDE's Effect upon the Productivity of Mexican Agriculture

**Travis McArthur**, University of Wisconsin

### 2021 Free Trade Agreements and Agricultural Trade: Commodities and Geography

Salon K, 4th Floor

#### Selected Presentation

This session features papers looking at specific effects of regional trade agreements on agricultural trade flows and related issues. Both commodity specific concerns and geographic factors are investigated.

**Moderator:** Lorraine S. Mitchell, USDA-Economic Research Service

Trade Creation and Diversion Under NAFTA: The North American Strawberry Market

P. Lynn Kennedy, Louisiana State University; **Youngjae Lee**, Louisiana State University

Determining the Effect of NAFTA on the North American Sweet Potato Market

P. Lynn Kennedy, Louisiana State University; **Youngjae Lee**, Louisiana State University

Protected Geographic Indicators in Trade Agreements

**Lorraine S. Mitchell**, USDA-Economic Research Service

Live and Let Die – Exporter Experience and Sequential Exporting in the International Coffee Market

**Sven M. Anders**, University of Alberta; Heiko Dreyer, University of Giessen

# Concurrent Sessions – Tuesday, 9:45 - 11:15 AM

## 2022 Sector-Based Economic Development Approaches

*Suffolk, 3rd Floor*

### Selected Presentation

Papers in this session discuss economic development approaches targeting specific industries, including retail, agritourism, women-owned farms, and wind energy.

**Moderator:** Steven C. Deller, University of Wisconsin

Big-Box Retailers and Regional Income Growth

**Man-Keun Kim**, Utah State University; Denis Peralta, Utah State University

Exploring the Economics of Agritourists: Customizing Travel Cost Methods to Evaluate Differences Across the Western United States

**Anders T. Van Sandt**, Colorado State University; Dawn D. Thilmany McFadden, Colorado State University; Rebecca Hill, Colorado State University; Martha J. Sullins, Colorado State University

Women Farmers and Rural Economic Growth and Development

**Steven C. Deller**, University of Wisconsin; Tessa Conroy, University of Wisconsin

## 2023 Land Use, Climate Change and Agriculture

*Tremont, 1st Floor*

### Selected Presentation

Papers in this session explore land use and technology changes as agriculture adapts to climate change.

**Moderator:** Ernst Bertone Oehninger, University of California, Davis

The Effects of Climate Change on Groundwater Extraction for Agriculture and Land-use Change

**Ernst Bertone Oehninger**, University of California, Davis; C.-Y. Cynthia Lin Lawell, University of California, Davis

The Role of Climate Factors in Shaping China's Crop Mix: An Empirical Exploration

**Yuquan W. Zhang**, Shanghai Jiao Tong University; Jianhong Mu, Oregon State University; Mark Musumba, The Earth Institute at Columbia University

Farmers' Rankings of the Determinants of Land Use Decisions at the Margins of the Corn Belt

**Tong Wang**, Texas AgriLife Research; David A. Hennessy, Michigan State University; Larry L. Janssen, South Dakota State University; Hongli Feng, Michigan State University; Michael Wimberly, South Dakota State University; Moses Luri, Washington State University

Changing Agricultural Land-use in the United States and its Implications on Ecosystem Services

**Jerome R. Dumortier**, Purdue University

## 2024 Methods in Valuing the Environment and Natural Resources

*Tufts, 3rd Floor*

### Selected Presentation

The papers in this session address methodological aspects associated with valuing the environment and natural resources.

**Moderator:** Abdulallah S. Abdulrahman, Clark University

Correcting Systematic Response Bias in Discrete Choice Experiments: Implications for the Valuation of Climate Risk Reductions

**Abdulallah S. Abdulrahman**, Clark University; Robert J. Johnston, Clark University

Comparing Performance of Discrete Choice Models in Stated Choice Methods: A Prediction-based Approach Using Preference Order Data

**Yau-Huo Shr**, The Pennsylvania State University; Richard C. Ready, The Pennsylvania State University

Accommodating Satisficing Behaviour in Stated Choice Experiments

Erlend D. Sandorf, Arctic University of Norway; **Danny Campbell**, University of Stirling

The Wisdom of the Economic Crowd: Calibrating Integrated Assessment Models Using Consensus

Derek Sylvan, Institute for Policy Integrity; **Peter H. Howard**, Institute for Policy Integrity

# Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

## 2025 Modeling Methods in Agriculture

Vermont, 5th Floor

### Selected Presentation

This session offers a diverse set of papers utilizing empirical and theoretical modeling frameworks, such as Computable General Equilibrium (CGE) modeling and game theoretic models, to investigate various issues in agriculture.

**Moderator:** Margaret C. Jodlowski, Cornell University

Is ICE Freezing U.S. Agriculture? An Instrumental Variable Approach

**Margaret C. Jodlowski**, Cornell University; Jennifer E. Ifft, Cornell University

Study of Grain Markets Price Behavior in Mali Using a Co-integration Approach

**Jean Claude Bizimana**, Texas A&M University; David A. Bessler, Texas A&M University; Francis Keita, Agricultural Market Observatory

Potential Poverty Effects of the Special Safeguard Mechanism: The Case of Wheat

**Amanda M. (Leister) Countryman**, Colorado State University; Danielle Ufer, Colorado State University

The Effects of Residue Tolerance on Pesticide Use, Hop Marketing, and Social Welfare

**Ruojin Zhang**, Washington State University

## 2026 Food Security and Consumption

Vineyard, 4th Floor

### Selected Presentation

This session examines the effects of income and food access on food security and consumption.

**Moderator:** Qihui Chen, China Agricultural University

Better Estimating How Food Price Shocks Influence Mexican Poverty Levels

**Benjamin D. K. Wood**, International Initiative for Impact Evaluation; Charles H. Nelson, University of Illinois at Urbana-Champaign; Rafael Garduno-Rivera, Centro de Investigación y Docencia Económicas, A.C.

Disentangling the Retirement-Consumption Puzzle through the Lens of Food Consumption - Evidence from Urban China

Tinghe Deng, China Agricultural University; **Qihui Chen**, China Agricultural University; Junfei Bai, China Agricultural University

Neighborhoods Matter: Variation in Food Insecurity Not Explained by Household Characteristics

**Olayemi Olabiyi**, Southern Alberta Institute of Technology

## 2027 Big Data and Precision Agriculture

Yarmouth, 4th Floor

### Selected Presentation

Presentations in this session evaluate the impact of information technology in agriculture.

**Moderator:** Joshua D. Woodard, Cornell University

Value of Information: Costs and Returns of Precision Corn Production in Livingston County, Illinois

**Edward Osei**, Tarleton State University; Huijun Li, Victoria College

Evaluating Economic Threshold for Dynamically Optimal Disease Management

**Yangxuan Liu**, Purdue University; Michael R. Langemeier, Purdue University; Ben Gramig, Purdue University; Paul V. Preckel, Purdue University; Ian M. Small, Cornell University; William E. Fry, Cornell University; Laura Joseph, Cornell University, lje5@cornell.edu; Yuanhan Wu, Cornell University

Information Technologies and Field-level Chemical Use for Corn Production

**Jae-hoon Sung**, Iowa State University; John A. Miranowski, Iowa State University

Integrating Genomic Data into Crop Yield Distribution Estimation: Implications for Climate Change, Risk Management, and Plant Breeding

**Joshua D. Woodard**, Cornell University; Diane Wang, Cornell University; Anna McClung, U.S. Department of Agriculture; Lewis Ziska, U.S. Department of Agriculture; Tridib Dutta, Cornell University; Susan McCouch, Cornell University

## Concurrent Sessions – Tuesday, 9:45 - 11:15 AM

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### **2028** An Introduction to Econometric Modeling using Stan

*Berkeley, 3rd Floor*

#### **Track Session – Econometrics Section**

Stan includes a programming language for expressing essentially any empirical model that is a differentiable function of the unknown parameters, which can then be estimated using one of the algorithms in the Stan Library. In particular, the Stan Library includes the most advanced implementation of Hamiltonian Monte Carlo, which allows researchers to efficiently draw from the posterior distribution of the unknown parameters given the known data. Alternatively, the mode of the posterior distribution can be found using conventional optimization algorithms. This talk will focus on the R interface to Stan and demonstrate how several popular regression models can be estimated using pre-written Stan code and will briefly outline how more complicated econometric models could be written using the Stan language.

**Organizer:** Jesse B. Tack, Mississippi State University

**Moderator:** Jesse B. Tack, Mississippi State University

**Presenter:** Ben Goodrich, Columbia University

### **2029** U.S.-Cuba Agricultural Trade: Past, Present, and Future

*Boston University, 3rd Floor*

#### **Track Session – International Section**

The U.S. government placed a partial trade embargo on Cuba in 1960 and a full trade embargo in 1962. However, the Trade Sanctions Reform and Export Enhancement Act (TSRA) of 2000 permit the export of agricultural, food, and medical products to Cuba on a cash-in-advance basis. Since then, U.S. exports expanded, reaching a record \$711 million in 2008 before falling to less than \$300 million in 2014. Cuba and the United States, re-establish diplomatic relation in December of 2014 and embassies reopen in Havana and Washington in July 2015.

Cuba made a major infrastructure investment on the Port of Mariel, which is being promoted as the Hub of the Americas. The Port of Mariel has four cranes capable of handling 850,000 TEUs annually and has the capacity of Post-Panamax shipping. This investment has the potential to increase agricultural trade between Cuba and United States

**Organizers:** Linda S. Calvin, USDA-Economic Research Service; Marco A. Palma, Texas A&M University; Luis A. Ribera, Texas A&M University

**Moderator:** Linda S. Calvin, USDA-Economic Research Service

**Discussant:** William A. Messina Jr., University of Florida

U.S.-Cuba Agricultural Trade: Understanding Its Past, Present, and Potential

**Bryce W. Cooke**, USDA-Economic Research Service; Steven S. Zahniser, USDA-Economic Research Service

Economic Impacts of U.S. Agricultural Exports to Cuba

**Luis A. Ribera**, Texas A&M University; Flynn J. Adcock, Texas A&M University; Daniel Hanselka, Texas A&M University

An Evaluation of Bilateral Agricultural Trade between the United States and Cuba under Normal Trading Relations

**Jonathan Coleman**, U.S. International Trade Commission; Sabina Neumann, U.S. International Trade Commission

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

### 2030 Food Safety Research and Big Data

*Brandeis, 3rd Floor*

#### Track Session – Senior and Econometrics Sections

What are the results of government investments in research? How do universities affect economic outcomes? These questions are beginning to be answered by an effort of the Committee on Institutional Cooperation (CIC) based on UMETRICS. The CIC was at first a consortium of 11 member universities. The foundation of UMETRICS is a common, large-scale, automated data platform on the research enterprise made possible by the Federal STAR METRICS project and massive advances in the methods and tools to combine, mine, and analyze big data on research. We evaluate outcomes of graduate students, post docs and alumni with research on food safety. The session will first address the UMETRICS data base, its content and how it has expanded to other universities. Next we will present issues related to food safety based on a workshop with leading scholars. The final session will report on econometric and related analysis of the data on food safety research and implications for industry results on food safety.

**Organizers:** Stanley R. Johnson, National Center for Food and Agricultural Policy; Alexander F. McCalla, University of California, Davis

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

**Discussant:** Stanley R. Johnson, National Center for Food and Agricultural Policy

Identifying Impacts of Food Safety Research: A Use for Big Data

**Kaye Husbands Fealing**, Georgia Institute of Technology

A Real World View on the Role of Food Safety Research Funding and its Outcomes

**Sandra Hoffmann**, USDA-Economic Research Service

Estimating Impacts of Food Safety Research on Job Placement, Salaries, and Patents

**John King**, University of California, Davis; Stanley R. Johnson, National Center for Food and Agricultural Policy

### 2031 Market and Public Policy Response to Pollinator Losses

*Clarendon, 3rd Floor*

#### Track Session – ENV Section

Since the emergence of colony collapse disorder in 2006, substantial attention has been paid to the role that wild and managed pollinators play in both providing ecosystem services and increasing horticultural crop yields. Although CCD's specific cause has not been isolated, concern that high over-wintering loss rates for bee colonies may permanently reduce pollinators stocks have raised calls to ban commonly used pesticides and subsidize pollinator habitat through the Conservation Reserve Program. This session considers the issues of honey bee health, pollinator losses, and possible remedies.

**Organizers:** Peyton M. Ferrier, USDA-Economic Research Service; Daniel M. Hellerstein, USDA-Economic Research Service

The Impact of Honey Bee Losses on Pollinator Service Prices and Crop Markets

**Peyton M. Ferrier**, USDA-Economic Research Service; Randal R. Rucker, Montana State University; Wally Thurman, North Carolina State University

Impacts of Almond Market Conditions on Honey Bee Populations

**Hyunok Lee**, University of California, Davis; Daniel A. Sumner, University of California, Davis

Factors Affecting Honey Bee Health

**Kathy Baylis**, University of Illinois at Urbana-Champaign; Dennis Van EnglesDorp, University of Maryland

Landuse and Pollinator Health: What Matters

**Daniel M. Hellerstein**, USDA-Economic Research Service; Claudia Hitaj, USDA-Economic Research Service; David J. Smith, University of Minnesota



## Concurrent Sessions – Tuesday, 9:45 - 11:15 AM

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### **2032 Soybean Expansion in the Tropics**

*Dartmouth, 3rd Floor*

#### **Track Session – AEM and LAS Sections**

Soybean has been the fastest growing grain crop over the last 15 years, growing at a compound average growth rate of 2.92%, outpacing the number two crop, rape, by 25% and the number three crop, maize, by 34%. Much of the soybean growth now occurs in the low latitude regions of the world. Soybeans have been successfully adapted to tropical growing conditions, where yields equal the temperate and sub-tropical regions of the United States, Argentina, and southern Brazil. Rising global incomes and urbanization, resulting dietary shifts to meat consumption, and preferences for food away from home, indirectly drive the demand for soybean, as a livestock protein feed and human food oil. Soybeans' high yield and nutrient density economically provide a key macro nutrient, protein, for livestock feed rations, along with an optimum balance of essential amino acids.

**Organizer:** Peter D. Goldsmith, University of Illinois at Urbana-Champaign

**Discussant:** Robert Bertram, U.S. Agency for International Development

**Panelists:** Jill L. Findeis, University of Missouri; Peter D. Goldsmith, University of Illinois at Urbana-Champaign; Peter Richards, U.S. Agency for International Development

### **2033 Towards Understanding Small Farm Profitability: Impacts of Market Channel Selection**

*Exeter, 3rd Floor*

#### **Track Session – CRENET and Senior Sections**

This session highlights recent research projects that each utilize U.S. Department of Agriculture-Agricultural Resource Management Survey (USDA-ARMS) data, the primary source of farm financial information, to understand the farm profitability impacts of sales through diverse market channels. The first paper uses the ARMS data to explore the determinants of small farm profitability in the U.S. The second paper examines the extent to which small farms are better off diversifying their income through different on-and off-farm diversification strategies. Finally, the third paper divides the ARMS sample of local and regional food marketers into high and low performing quartiles by net cash income to explore what operator, regional and production characteristics may vary among those farms that report the strongest (and weakest) financial outcomes.

**Organizer:** Becca B. R. Jablonski, Colorado State University

**Moderator:** Becca B. R. Jablonski, Colorado State University

**Discussant:** Todd M. Schmit, Cornell University

Determinants of Small Farm Profitability: How Important are Local Foods?

**Stephen J. Vogel**, USDA-Economic Research Service; Becca B. R. Jablonski, Colorado State University; Todd M. Schmit, Cornell University

Survival Strategies for Small Farms in the United States

**Ashok K. Mishra**, Arizona State University; James Michael Harris, USDA-Economic Research Service

The Financial Performance Implications of Differential Marketing Strategies: Exploring Farms That Pursue Local Markets and a Core Competitive Advantage

**Dawn D. Thilmany McFadden**, Colorado State University; Allison Bauman, Colorado State University; Becca B.R. Jablonski, Colorado State University

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

### 2034 Where Are They Now? Research Updates from Graduates of the Behavioral Economics Workshop

Fairfield, 3rd Floor

#### Track Session – GSS and FSN Sections

The FSN-sponsored Behavioral Economics Post-conference Workshop received great positive feedback from young professionals. We selected four projects which were discussed during the mini-mentoring meeting at the workshop. As such, the first presentation will be investigating the ‘economics of hope’ in rural Myanmar. Specifically, the presenter will show results from a survey instrument designed to measure locus of control, self-efficacy, personal agency, and constraints on pathways. The second presentation will apply lessons from consumer psychology targeted toward developing more accurate choice experiments. The third speaker presents an experimental design and preliminary results from experimental research that tests whether farm operators’ behaviors depart from predicted risk-neutral, solely profit-maximizing entities in farm-to-school markets. In the fourth study, the researcher uses an experimental survey to measure the perceptions and preferences of direct-marketing farmers in regards to risk, liability and the Food Safety Modernization Act.

**Organizers:** Carola Grebitus, Arizona State University; Christiane Schroeter, California Polytechnic State University

**Moderator:** Julie A. Caswell, University of Massachusetts Amherst

Measuring Hope in Rural Myanmar: An Empirical Approach

**Jeffrey Bloem**, Michigan State University

How Lessons from Consumer Psychology can Create Better Choice Experiments

**Trey Malone**, Oklahoma State University

An Experimental Investigation of Social Preferences in Agri-Environmental Marketing Choice: Preliminary Findings

**Jill Ann Fitzsimmons**, University of Massachusetts; Daniel A. Lass, University of Massachusetts Amherst; John Spraggon, University of Massachusetts Amherst; Hernan D. Bejarano, Chapman University; Nathalie Lavoie, University of Massachusetts Amherst

Risk Preferences and Liability Decisions: A Survey of Direct-marketing Farmers

**Cristina Connolly**, The Ohio State University

### 2035 Extension Section Crops Outlook

Simmons, 3rd Floor

#### Track Session – Extension Section

This session continues the tradition of Extension Section Outlook organized symposium and will focus on crop situation and outlook. The presenters will discuss market conditions, supply, demand, and prices.

**Organizers:** John Michael Riley, Oklahoma State University; Suzanne D. Thornsbury, USDA-Economic Research Service; Linwood Hoffman, USDA-ERS

Overview of ERS Commodity Outlook Program

**Presenter:** Linwood Hoffman, USDA-ERS

U.S. Corn, Situation and Outlook

**Thomas C. Capehart**, USDA-Economic Research Service

U.S. Soybeans, Situation and Outlook

**Mark S. Ash**, USDA-Economic Research Service

U.S. Wheat, Situation and Outlook

**Jennifer K. Bond**, USDA-Economic Research Service

U.S. Sugar and Suspension Agreement with Mexico

**Michael J. McConnell**, USDA-Economic Research Service

Overview of ERS Commodity Outlook Program

**Presenter:** Linwood Hoffman, USDA-ERS

## Concurrent Sessions — Tuesday, 9:45 - 11:15 AM

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### **2036** Teaching Tips from AAEA Winners

*St. Botolph, 2nd Floor*

#### **Track Session – GSS and TLC Sections**

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 teaching styles they consider to be instrumental to 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.

**Organizer:** Elizabeth A. Yeager, Kansas State University

**Moderator:** Elizabeth A. Yeager, Kansas State University

**Presenters:** W. Marshall Frasier, Colorado State University; Nicholas D. Paulson, University of Illinois at Urbana-Champaign; Richard J. Sexton, University of California, Davis; Andrew Stevens, University of California, Berkeley

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

### 2037 Regulatory Technology Policies: A Real Option View

*Boylston, 1st Floor*

#### Invited Papers

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

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

**Moderator:** David Zilberman, University of California, Berkeley

**Discussant:** David A. Hennessy, Michigan State University

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

**Jinhua Zhao**, Michigan State University

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

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

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

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

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

*Arlington, 3rd Floor*

#### Organized Symposium

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

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

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

**Discussants:** Jonathan Coleman, U.S. International Trade Commission; Mechel S. Paggi, California State University, Fresno; Daniel B. Whitley, USDA-Foreign Agriculture Service; Parr Rosson, Texas A&M University

### 2039 Impacts and Determinants of Agricultural Labor Supply

*Salon B, 4th Floor*

#### Selected Presentation – Lightning Session

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

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

Impacts of Dengue Epidemics on Household Labor Market Outcomes

**Amanda C. Clayton Walsh**, North Carolina State University

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

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

The Labor Market Impacts of Endangered Species Regulation

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

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

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

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

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

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

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

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

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

**Hung-Hao Chang**, National Taiwan University

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

**Eugenie W.H. Maiga**, Université de Koudougou

### **2040 Food Safety and Nutrition**

*Salon C, 4th Floor*

#### **Selected Presentation – Lightning Session**

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

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

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

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

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

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

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

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

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

**Alexander E. Saak**, International Food Policy Research Institute

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

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

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

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

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

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

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

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### 2041 Food Security in Developing Countries

*Boston University, 3rd Floor*

#### Selected Presentation

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

**Moderator:** Marilyne Huchet-Bourdon, Agrocampus Ouest

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

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

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

**Kamel Loubichi**, Institute for Prospective Technological Studies; Laura Riesgo, Institute for Prospective Technological Studies;

Sergio Gomez Y Paloma, Institute for Prospective Technological Studies

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

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

### 2042 Forest Conservation

*Hyannis, 4th Floor*

#### Selected Presentation

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

**Moderator:** Jayash Paudel, University of Massachusetts Amherst

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

**Jayash Paudel**, University of Massachusetts Amherst

Public and Private Preferences for Urban Forest Ecosystem Services

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

Khachatryan, University of Florida

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

**Ruohong Cai**, Environmental Defense Fund; Ruben Lubowski, Environmental Defense Fund; Tiago Reis, Amazon Environmental

Research Institute; Marcelo Stabile, Amazon Environmental Research Institute

### 2043 Price Analysis and Future Markets

*Massachusetts, 5th Floor*

#### Selected Presentation

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

**Moderator:** Joshua D. Woodard, Cornell University

Impacts of Transportation Networks on Space-time Commodity Basis Behavior

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

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

**Amilcar J.C. Serrao**, University of Evora

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

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

The Value of Government Information in an Era of Declining Budgets

**Michael K. Adjemian**, USDA-Economic Research Service; Robert C. Johansson, USDA-Office of the Chief Economist; Andrew M.

McKenzie, University of Arkansas; Michael R. Thomsen, University of Arkansas

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

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### **2044 Social Responsibility and Resource Extraction/Use**

*MIT, 3rd Floor*

#### **Selected Presentation**

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

**Moderator:** David L. Ortega, Michigan State University

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

Consumer Preferences for Packaging Material and Recyclability

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

The Housing Market Impacts of Wastewater Injection Induced Seismicity Risk

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

Angler Behavior and the Welfare Effects of Stream Restorations

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

### **2045 Market Events in Agricultural and Food Markets**

*Nantucket, 4th Floor*

#### **Selected Presentation**

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

**Moderator:** Veronica F. Pozo, Utah State University

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

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

The Relative Impact of StarLink and MIR162

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

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

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

Commodity Price Bubbles and Agriculture: The Case of China

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

### **2046 Issues in Developing Country Food Demand**

*New Hampshire, 5th Floor*

#### **Selected Presentation**

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

**Moderator:** Akinori Kitsuki, University of Minnesota

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

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

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

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

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

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

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

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### 2047 Methodological Advancements in Experimental Economics

*Northeastern, 3rd Floor*

#### Selected Presentation

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

**Moderator:** Gal Hochman, Rutgers University

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

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

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

**Claudia Bazzani**, University of Arkansas; Rodolfo M. Nayga, University of Arkansas; Vincenzina Caputo, Korea University;

Maurizio Canavari, University of Bologna; Diana Danforth, University of Arkansas

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

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

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

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

### 2048 Vertical Price Transmission in Agricultural Markets

*Regis, 3rd Floor*

#### Selected Presentation

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

**Moderator:** Shuwei Zeng, University of Wisconsin

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

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

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

**Yanan Zheng**, University of Alberta

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

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



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

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### **2049** The Role of Agricultural Policies in Less Developed Countries

*Salon A, 4th Floor*

#### **Selected Presentation**

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

**Moderator:** Eva-Marie Meemken, University of Goettingen

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

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

Farm Input Subsidies and the Adoption of Natural Resource Management Technologies

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

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

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

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

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

### **2050** Farm Households and Technology Adoption

*Salon D, 4th Floor*

#### **Selected Presentation**

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

**Moderator:** Kajal Gulati, University of California, Davis

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

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

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

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

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

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

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

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

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

### 2051 Upstream Market Structure and Competition

Salon H, 4th Floor

#### Selected Presentation

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

**Moderator:** Cornelia Ilin, University of Wisconsin

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

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

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

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

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

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

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

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

### 2052 Getting Over Hurdles with Limited Dependent Variables

Salon I, 4th Floor

#### Selected Presentation

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

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

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

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

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

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

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

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

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

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

### 2053 Conflict and Economic

Salon J, 4th Floor

#### Selected Presentation

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

**Moderator:** Yu Zhang, Texas A&M University

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

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

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

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

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

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

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

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

*Salon K, 4th Floor*

#### **Selected Presentation**

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

**Moderator:** Byung Min Soon, University of Missouri

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

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

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

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

China's Agricultural Exports and Their Effects on Other Exporters

**Huong T. Nguyen**, Deakin University, Australia

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

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

### **2055 Economic Policy and Natural Hazards**

*Simmons, 3rd Floor*

#### **Selected Presentation**

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

**Moderator:** Mona Ahmadiani, University of Georgia

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

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

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

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

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

**Haoying Wang**, Cornell University

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

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

### **2056 Producers' Risk Preferences and Perceptions**

*St. Botolph, 2nd Floor*

#### **Selected Presentation**

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

**Moderator:** Gaurav Arora, Iowa State University

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

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

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

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

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

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

Can Stated Risk Preferences Accurately Reflect True Risk Preferences?

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

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

### 2057 Teaching Evaluation Methods

*Suffolk, 3rd Floor*

#### Selected Presentation

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

**Moderator:** Elizabeth A. Yeager, Kansas State University

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

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

Quest- A Virtual Faculty Teaching Community

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

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

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

### 2058 Applied Environment and Natural Resource Valuation: Water

*Tremont, 1st Floor*

#### Selected Presentation

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

**Moderator:** Wendong Zhang, Iowa State University

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

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

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

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

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

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

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

**Yongjie Ji**, Iowa State University; David A. Keisler, Iowa State University

### 2059 Economics of Water Use in Agriculture

*Tufts, 3rd Floor*

#### Selected Presentation

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

**Moderator:** Farzad Taheripour, Purdue University

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

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

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

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

Retiring Land to Conserve Water: Evidence from Colorado and Nebraska

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

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

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### **2060** Agricultural Water Use Efficiency

*Vermont, 5th Floor*

#### **Selected Presentation**

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

**Moderator:** Maria Vrachioli, University of Florida

Agricultural Water Productivity under Spatial Adjustments

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

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

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

Rebound Effect of Irrigation Technologies: The Role of Water Rights

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

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

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

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

*Vineyard, 4th Floor*

#### **Selected Presentation**

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

**Moderator:** Jeffrey J. Reimer, Oregon State University

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

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

Do Personal Attitudes About Welfare Influence Food Stamp Participation?

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

Price Variation Over the SNAP Benefit Cycle

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

Do Grocery Taxes Cause Food Insecurity?

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

**Burney**, University of Kentucky

### **2062** Food Demand Studies in Asia

*Wellesley, 3rd Floor*

#### **Selected Presentation**

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

**Moderator:** Jinhyeung Kim, Seoul National University

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

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

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

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

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

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

Consumer Preference for Supermarket Food Sampling in China

**Lijun Chen**, University of Missouri

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

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### 2063 Agricultural R&D and Science Policy

*Yarmouth, 4th Floor*

#### Selected Presentation

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

**Moderator:** Yoo Hwan Lee, Colorado State University

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

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

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

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

Promoting Environmental Innovation: R&D Subsidies and Carbon taxes

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

### 2064 Applications of Financial Engineering in Agriculture

*Berkeley, 3rd Floor*

#### Track Session – AFM and ARA Sections

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

**Organizer:** Eric Belasco, Montana State University

When Does Sophisticated Hedging Help?

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

Grain Marketing with Upside Contracts

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

Financial Engineering and Agricultural Insurance

**Hirbod Assa**, University of Liverpool

Financial Engineering and the Securitization of Biomedical Research

**Roger Stein**, Massachusetts Institute of Technology

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

### **2065 Gender and Generation: Intra-household Perspectives on Technology Adoption in the West Africa Sahel**

*Brandeis, 3rd Floor*

#### **Track Session – International Section**

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

**Organizer:** Veronique Theriault, Michigan State University

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

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

*Melinda Smale*, Michigan State University

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

*Alpha O. Kergna*; Veronique Theriault, Michigan State University

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

*Hamza Haider*, Michigan State University

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

*Steven Haggblade*, Michigan State University

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

*Clarendon, 3rd Floor*

#### **Track Session – FAMPS and FSN Sections**

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

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

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

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

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

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

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

*Aaron A. Adalja*, University of Maryland

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

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

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

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

*Dartmouth, 3rd Floor*

#### Track Session – Econometrics Section

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

**Organizer:** Jesse B. Tack, Mississippi State University

**Moderator:** Jesse B. Tack, Mississippi State University

Accounting for Dependence in the Federal Crop Insurance Program

**Barry K. Goodwin**, North Carolina State University

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

**Alan P. Ker**, University of Guelph

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

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

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

*Exeter, 3rd Floor*

#### Track Session – CRENET and China Sections – Lightning Session

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

**Organizer:** Carola Grebitus, Arizona State University

**Moderator:** Dawn D. Thilmany McFadden, Colorado State University

Consumer Perception of Urban Agriculture

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

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

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

CSA Programs and Dietary Behavioral Change

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

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

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

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

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

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

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

The Changing CSA Strategic Business Model

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

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

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



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

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### **2069** Agricultural Data Linkages for Research and Policy Illumination

*Fairfield, 3rd Floor*

#### **Track Session – Senior Section**

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

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

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

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

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

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

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

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

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

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

Linking Spatial and Agricultural Program Data

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

### **2070** Extension Section Livestock Outlook

*Harvard, 3rd Floor*

#### **Track Session – Extension Section**

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

**Organizer:** Jeremy Ross Pruitt, University of Tennessee at Martin

**Discussant:** Jeremy Ross Pruitt, University of Tennessee at Martin

Cattle and Beef Outlook

**Kathleen R. Brooks**, University of Nebraska-Lincoln

Hogs and Pork Outlook

**Brenda L. Boetel**, University of Wisconsin-River Falls

Dairy Outlook

**John C. Newton**, National Milk Producers Federation

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

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

### Track Session – China Section – Lightning Session

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

**Organizer:** Guzhen Zhou, Jiangxi University of Finance and Economics

**Moderator:** Songqing Jin, Michigan State University

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

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

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

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

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

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

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

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

Assessing Off-farm Employment Decisions of Rural Households in China

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

Chinese Rural Consumers' Online Shopping

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

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

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

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

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

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

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### **2072 Supplemental Nutrition Assistance Program (SNAP)**

*Maine, 5th Floor*

#### **Selected Presentation**

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

**Moderator:** Lisa Mancino, USDA-Economic Research Service

Who Benefits Most from SNAP?

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

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

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

Do SNAP Recipients Get the Best Prices?

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

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

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

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### **2073 Frontiers of Data Science in Agricultural, Environmental, Natural Resource, and Applied Economics**

*Boylston, 1st Floor*

#### **Invited Paper**

Increased availability of high resolution biophysical, demographic, and economic data, coupled with dramatic increases in storage and computational capacities, are creating exciting new opportunities for data-driven scientific discovery. Adoption of state-of-the-art data-analytic tools and methods by social and biophysical scientists, and incorporation of behavioral, socioeconomic, and biophysical structure by computational scientists in “Big Data” statistical models, represent critical bottlenecks for advancing data-driven discovery. This session will explore current issues related to data-analytic platforms and methods, institutional partnerships, and prospects for applied economics researchers.

**Organizer:** Joshua D. Woodard, Cornell University

**Discussants:** Katherine R. Smith, Council of Professional Associations on Federal Statistics; Thomas W. Sproul, University of Rhode Island

Data Science and Open Data Platforms in Agricultural and Applied Economics

**Joshua D. Woodard**, Cornell University

Food and Agricultural Industries: Opportunities for Improving Measurement and Reporting

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

### **2074 Everything You Always Wanted to Know About Identification (But Were Afraid to Ask)**

*Arlington, 3rd Floor*

#### **Organized Symposium**

The Credibility Revolution in empirical economics has brought with itself increased standards for causal identification in applied microeconomic research. The purpose of this symposium is to provide some practical insight into identification in agricultural and applied economics. The symposium brings together journal editors, well-respected practitioners, and applied econometricians to discuss the increased standards for identification in modern research, the demands which the Credibility Revolution places upon researchers seeking to publish their work, and answering questions from the floor.

**Organizer:** Jeffrey D. Michler, Purdue University

**Moderator:** Jeffrey D. Michler, Purdue University

**Panelists:** Marc F. Bellemare, University of Minnesota; Michael Delgado, Purdue University; Travis J. Lybbert, University of California, Davis; Agnes R. Quisumbing, International Food Policy Research Institute

### **2075 Measuring Food and Nutrition Security: FSIN’s Independent Assessment of Indicators**

*Provincetown, 4th Floor*

#### **Organized Symposium**

This session addresses the methods used by global, national and local organizations to measure food security and nutrition, building on an independent assessment of 140 prevailing indicators conducted by a Technical Working Group convened by the Food Security Information Network. The TWG’s final report, in the form of a User’s Guide to the available indicators, is available on the FSIN website here: <http://www.fsincop.net/topics/fns-measurement>.

**Organizer:** Uma Lele, Independent Scholar

**Panelists:** Gero Carleto, World Bank; Josef Georg Schmidhuber, Food and Agriculture Organization of the United Nations; Maximo Torero, International Food Policy Research Institute

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### 2076 Technology Assessment and Adoption

Salon B, 4th Floor

#### Selected Presentation – Lightning Session

Presentations evaluate country and commodity specific cases of agricultural productivity and new technology adoption.

**Moderator:** Poornima Varma, Indian Institute of Management

Climate, Shocks, Weather, and Maize Intensification Decisions in Rural Kenya

**Martina Bozzola**, Graduate Institute of International and Development Studies; Melinda Smale, Michigan State University; Salvatore DiFalco, University of Geneva

Exploring the Role of Legume Crops in the Agriculture, Nutrition and Food Security Nexus: Evidence from Zambia

Christine M. Sauer, Michigan State University; Mywish K. Maredia, Michigan State University; **Nicole M. Mason**, Michigan State University

How Efficient Is Maize Production among Smallholder Farmers in Zimbabwe?

**Douglas Mugabe**, West Virginia University; Xiaoli L. Etienne, West Virginia University

Women's Participation in Agriculture and Gender Productivity Gap: The Case of Coffee Farmers in Southern Colombia and Northern Ecuador

**Jorge Jair Avila-Santamaria**, University of Florida; Maria P. Useche, University of Florida

Agricultural Technology Adoption Under Multiple Constraints: An Analysis of the System of Rice Intensification (SRI) in India.

**Poornima Varma**, Indian Institute of Management

Into the Weeds: A Structural Model of Herbicide Demand and Glyphosate Resistance on U.S. Corn Farms

**Seth J. Wechsler**, USDA-Economic Research Service; Jonathan McFadden, USDA-Economic Research Service; David J. Smith, University of Minnesota

### 2077 The Lightning Strikes: Agricultural, Regulatory, and Resource Policy

Salon C, 4th Floor

#### Selected Presentation – Lightning Session

This lightning round session provides new insights into current issues related to agricultural and resources regulations and policies.

**Moderator:** Fanny Moffette, University of Wisconsin

Consequences of Protected Areas for Forest Extraction and Human Well-Being: Evidence from Nepal

**Aparna Howlader**, University of Illinois at Urbana-Champaign; Amy W. Ando, University of Illinois at Urbana-Champaign

Firm Structure, Environmental Regulation and Plant Death

**Jingbo Cui**, Wuhan University; GianCarlo Moschini, Iowa State University; Harvey E. Lapan, Iowa State University

Voluntary and Mandatory Regulation: Impacts of Responsible Care on OSHA Enforcement

Huan Li, Purdue University; **Neba Khanna**, Binghamton University

Decomposing Irrigation Water Use Changes in Equilibrium Models

**Iman Haqiqi**, Purdue University; Thomas W. Hertel, Purdue University

The Effectiveness of State Initiatives for Increasing the Recycling Rate in Florida

**Meena Thiyagarajah**, University of Florida; Xiang Bi, University of Florida; John J. VanSickle, University of Florida

Irrigation Adoption, Groundwater Demand and Policy in the U.S. Corn Belt, 2040-2070

**Presenter:** Molly Van Dop

**Authors:** Molly Van Dop, Ben Graming, Juan Pablo Sesmero

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### 2078 Natural Resources Use and Development

*Brandeis, 3rd Floor*

#### Selected Presentation

Papers in this session examine issues at the intersection between the economics of natural resources use and development.

**Moderator:** Patrick S. Ward, International Food Policy Research Institute

Understanding Compliance in Programs Promoting Conservation Agriculture in Malawi

**Patrick S. Ward**, International Food Policy Research Institute; Andrew R. Bell, New York University; Klaus Droppelmann, Independent Consultant

Where to Invest in the Indus Basin Irrigation System in Pakistan to Improve Land and Water Productivity? Insights from a Hierarchical Model

**Dawit K. Mekonnen**, International Food Policy Research Institute; Hira Channa, Purdue University

Perceived, Measured, and Estimated Soil Fertility: Implications for Farmer Management Practices in East Africa

**Julia Berazneva**, Middlebury College; Linden McBride, Cornell University; Megan B. Sheahan, Precision Agriculture for Development; David T. Gueren, Cornell University

Land Use Change in Nepal and the Role of Agricultural Technologies and Input Use

**Wei Zhang**, International Food Policy Research Institute; Yanyan Liu, International Food Policy Research Institute; Man Li, International Food Policy Research Institute; Zhe Guo, International Food Policy Research Institute; Prapti Bhandary, International Food Policy Research Institute

### 2079 Peer and Social Network Influences on Consumer Purchase Decisions

*Harvard, 3rd Floor*

#### Selected Presentation

Recognizing that decisions are not made in a bubble of isolation, this session provides behavioral insights into the influence of peers and social networks on consumer preferences and purchases.

**Moderator:** Di Fang, Arizona State University

De Gustibus Non Est Disputandum Revisited: The Influence of Social Networks and Health Status on Preferences for Functional Food

**Christian H.C.A. Henning**, University of Kiel; Nana Zubek, University of Kiel; Kai-Uwe Strelow, University of Mainz

Social Presence and Shopping Behavior: Evidence from Video Data

**Nadia A. Streletskaya**, Cornell University

Modeling Product Choices in a Peer Network

**Di Fang**, Arizona State University; Carola Grebitus, Arizona State University; Timothy J. Richards, Arizona State University

The Impact of Impulsive Behavior on Fresh Produce Purchase: Do the Shopping Companions Matter?

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

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### **2080** Agribusiness Management

*Maine, 5th Floor*

#### **Selected Presentation**

This session focuses on the ways in which the external environment and the firm's core competencies affect managerial decisions and profitability in agribusiness firms.

**Moderator:** Michael Gunderson, Purdue University

Influence of Firm Size and Structure on Performance Management Practices

**Michael A. Gunderson**, Purdue University; Ryan Pearson, Purdue University

Characteristics of Hog Producers and How Those Characteristics Affect the Rate of Adoption of Technologies Used in the Hog Industry: Evidence from Hog Producers in the United States

**Mario R. Carrillo**, University of Minnesota-Twin Cities

The Impact of Dodd-Frank on Small Community Commercial Lenders

**Brady E. Brewer**, University of Georgia; Levi A. Russell, Texas A&M University

Evaluating Scale and Technical Efficiency among Farms and Ranches with a Local Market Orientation

**Allison Bauman**, Colorado State University; Becca B. R. Jablonski, Colorado State University; Dawn D. Thilmany McFadden, Colorado State University

### **2081** Economic Assessment of Non-Traditional Agricultural Production

*Massachusetts, 5th Floor*

#### **Selected Presentation**

The economics of alternative agricultural production systems have not been fully analyzed. Papers in this section examine the economic performance of organic cropping systems and dairy farms, as well as farming on forested land.

**Moderator:** Aditya R. Khanal, Tennessee State University

Are All Farms Better-off Growing Organic? An Unconditional Quantile Regression Approach

**Aditya R. Khanal**, Tennessee State University; Ashok K. Mishra, Arizona State University

Farmers and Their Groves: How Efficient are Farms with Forested Land?

**Anna M. Klepacka**, Warsaw University of Life Sciences; Cesar Revoredo-Giha, Scotland's Agricultural College; Wojciech J. Florkowski, University of Georgia

Agronomic and Economic Performance of Soybean Following Three Previous Crops during the First Transition Year from Conventional to an Organic Cropping System

**William J. Cox**, Cornell University; Miguel I. Gomez, Cornell University; Samantha Kannan, Cornell University

Economic, Environmental, and Social Sustainability of New England Organic Dairy Farms

**Robert L. Parsons**, University of Vermont; Qingbin Wang, University of Vermont

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### 2082 Consumer Valuation, Demand and Preferences

MIT, 3rd Floor

#### Selected Presentation

This session focuses on the analysis of consumer demand and valuation of the attributes in a variety of food and non-food products.

**Moderator:** Aaron M. Shew, University of Arkansas

Are All Biotechnologies the Same? Consumer Valuation of Non-GMO RNA Interference and GMO *Bacillus Yhuringiensis* for Insect Control in Rice Production in the USA, Canada, Belgium, France, and Australia

**Aaron M. Shew**, University of Arkansas; Francis Tsiboe, University of Arkansas; Lawton L. Nalley, University of Arkansas; Bruce L. Dixon, University of Arkansas; Diana Danforth, University of Arkansas; Rodolfo M. Nayga, University of Arkansas

Demand for Varied Fruit and Vegetable Colors from a Supermarket in Detroit, MI

**Marie E. Steele**, Michigan State University; Dave D. Weatherspoon, Michigan State University

Does Time Spent Preparing Food Affect Consumers' Food Choices?

**Gianna Short**, University of Minnesota

Estimates of the Demand for E85 Using Stated-Preference Data off Revealed-preference Choices

**Kenneth Liao**, Iowa State University; Sebastien Pouliot, Iowa State University

### 2083 Spatial Price Relationships in the United States and World Markets

Nantucket, 4th Floor

#### Selected Presentation

This session examines price determination and price transmissions in major agricultural commodities, as well as barge rates.

**Moderator:** Md Zabid Iqbal, Iowa State University

A Simple Spatial Forecasting Model: Case Study of Mississippi Barge Rates

Brian Wetzstein, Zen-Noh Grain Corporation; Raymond J.G.M. Florax, Purdue University; Kenneth A. Foster, Purdue University; James K. Binkley, Purdue University; **Michael E. Wetzstein**, Purdue University

Estimating the Location of World Wheat Price Determination

**Joseph Janzen**, Montana State University; Michael K. Adjemian, USDA-Economic Research Service

The U.S. Role in the Price Determination of Major Agricultural Commodities

**Getachew S. Nigatu**, USDA-Economic Research Service; Michael K. Adjemian, USDA-Economic Research Service

Transmission of Global Commodity Prices to Domestic Producer Prices: A Comprehensive Analysis

**Md Zabid Iqbal**, Iowa State University; Bruce A. Babcock, Iowa State University



## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### **2084** On the Economics of Diets

*Northeastern, 3rd Floor*

#### **Selected Presentation**

A balanced diet is a key to longevity and health. This session includes four papers analyzing diets and nutrition intake.

**Moderator:** Sonya K. Huffman, Iowa State University

A Novel Discrete Choice Experiment to Determine the Effects of Nutrition Knowledge and Information Provision on Preferences for Dietary Supplements During Pregnancy

**Lenka Malek**, WCHRI; Wendy J. Umberger, University of Adelaide; Jo Zhou, University of Adelaide; Maria Makrides, Women's and Children's Health Research Institute and the University of Adelaide

Life Satisfaction and Diet: Evidence from the Russian Longitudinal Monitoring Survey

**Sonya K. Huffman**, Iowa State University; Marian Rizov, University of Lincoln

Ascertaining the Role of Socio-economic-demographic and Government Food Policy Related Factors on the Per Capita Intake of Dietary Fiber Derived from Consumption of Various Foods and Beverages in the United States

**Mark C. Senia**, Texas A&M University; Senarath Dharmasena, Texas A&M University; Oral Capps Jr., Texas A&M University

Is it Hot in Here or is it Your Food Choices? Examining the Carbon Footprint of U.S. Household Food Spending and Travel to Acquire Food and Linkages to Nutrition and Aggregate Economic Activity

**Rebecca L. Boehm**, Tufts University; Sean B. Cash, Tufts University; Parke E. Wilde, Tufts University; Michele L. Ver Ploeg, USDA-Economic Research Service; Christine Costello, University of Missouri

### **2086** Exploring the U.S. Farm Bill

*Salon A, 4th Floor*

#### **Selected Presentation**

This session explores a number of topics on the U.S. Farm Bill ranging from assessing potential changes in farm program participation decisions to how historical events impact the actions of farming lobbies and legislators.

**Moderator:** John C. Newton, National Milk Producers Federation

2Rethinking Revenue: Policy Design Options for Farm Bill Commodity Programs

**John C. Newton**, National Milk Producers Federation; Jonathan Coppess, University of Illinois at Urbana-Champaign

General Equilibrium Analysis of the Farm Bill: SNAP versus Farm Programs

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

Implication of 2014 Farm Policies for Wheat Production

**Jeff Luckstead**, University of Arkansas; Stephen Devadoss, Texas Tech University

The Impact of Congressional Donations on Repeated Farm Bill Votes

**Scott Callahan**, North Carolina State University

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### 2087 The Impacts of Migration on Labor Markets

Salon D, 4th Floor

#### Selected Presentation

The papers in this session analyze the role of migration in local and national labor markets.

**Moderator:** Ruben I. Rojas Valdes, University of California, Davis

Strategic Interactions in Migration Decisions in Rural Mexico

**Ruben I. Rojas Valdes**, University of California, Davis; C.-Y. Cynthia Lin Lawell, University of California, Davis; Edward Taylor, University of California

Examining the Labor Market Consequences of Endogenous Low-skill Migration with a Market-based Immigration Policy: A General Equilibrium Analysis

**German A. Marquez Alcalá**, Purdue University; Thomas W. Hertel, Purdue University; Roman M. Keeney, Purdue University

Emigration, Local Labor-Markets and Labor Supply for Own Farming in Nepal

**Lokendra Phadera**, University of Illinois at Urbana-Champaign

### 2088 Emerging Issues in Agri-Food Economics: Lessons from Applied Models

Salon H, 4th Floor

#### Selected Presentation

This session investigates agri-food economics issues through the lens of applied modeling. Issues include monopsony power by food processors, innovation transfer in genetic engineering, generic and brand advertising, and food gleaning programs.

**Moderator:** Damien Rousseliere, Agrocampus Ovest

“Happy Cows” vs. “Laughing Cow”: Endogenous Market Structure under Generic and Brand Advertising

**Benjamin C. Anderson**, Colgate University

Innovation Led Alliances: Theory and Application to the GM Plant Industry

**Damien Rousseliere**, Agrocampus Ovest; Samira Rousseliere, ONIRIS; Shyama Ramani, United Nations University-Merit

An Operational Analysis of Multi-crop Food Bank Gleaning Programs

Erkut Sonmez, Boston College; Deishin Lee, Boston College; **Miguel I. Gomez**, Cornell University; Xiaoli Fan, Cornell University

### 2089 Remittances, Moral Hazard, and Storage Decisions in Developing Countries

Salon I, 4th Floor

#### Selected Presentation

The papers in this session investigate developing country issues related to household effects of remittances, moral hazard in group lending, and how risk and liquidity constraints affect storage decisions in developing countries.

**Moderator:** Vincent Amanor-Boadu, Kansas State University

Remittance Frequency, Transactions Fees and Household Impacts

**Heng Zhu**, University of California, Davis

Effects of Risk and Liquidity Constraints on Storage Decisions: Evidence from Maize and Legume Producers in Uganda

**Oluwatoba J. Omotilewa**, Purdue University; Jacob Ricker-Gilbert, Purdue University; Corinne E. Alexander, Purdue University

A Little Skin in the Microfinance Game: Reducing Moral Hazard in Joint Liability Group Lending Through a Mandatory Collateral Requirement

**Jon Einar Flatnes**, University of California, Davis; Michael R. Carter, University of California, Davis

The Effect of Shocks and Remittances on Household's Vulnerability to Poverty: Evidence from Bangladesh

**Yacob A. Zereyesus**, Kansas State University; Francis Tsiobe, University of Arkansas; Weldensie T. Embaye, Kansas State University

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### 2090 Public Goods, Market Failures, and Public Work

*Salon J, 4th Floor*

#### Selected Presentation

The papers in this session highlight public goods issues in developing countries, including eco-tourism, public works, market failures, and preserving the commons.

**Moderator:** Lisa Elliott, South Dakota State University

On the Role of Community Management in Correcting Market Failures of Rural Developing Areas: Evidence from a Randomized Field Experiment of COGES Project in Burkina Faso

Yasuyuki Sawada, University of Tokyo; Takeshi Aida, National Graduate Research Institute for Policy Studies; Andrew S. Griffen, University of Tokyo; **Harounan Kazianga**, Oklahoma State University; Eiji Kozuka, Hiroshima University; Haruko Noguchi, Waseda University; Yasuyuki Todo, Waseda University

Can Ecotourism Reduce Overfishing and Alleviate Poverty in Developing Countries? A Recursive-Dynamic Local Economy-wide Perspective

**Ted E. Gilliland**, University of California, Davis; James N. Sanchirico, University of California, Davis; J. Edward Taylor, University of California, Davis

Does Providing Public Works Increase Workers' Wage Bargaining Power in Private Sectors?

**Yanan Li**, Cornell University; Yanyan Liu, International Food Policy Research Institute

### 2092 Food and Environment

*Simmons, 3rd Floor*

#### Selected Presentation

This session focuses on the relationships between agricultural productions, food marketing, consumption, and environmental quality.

**Moderator:** Yi Li, Zhongnan University of Economics and Law

Competing Eco-Labels and Product Market Competition

**Yi Li**, Zhongnan University of Economics and Law

Can Information Help Reduce Imbalanced Application of Fertilizers in India? Experimental Evidence from Bihar, India

Ram Fishman; **Avinash Kishore**, International Food Policy Research Institute; Yoav Rothler, Tel Aviv University; Patrick S. Ward, International Food Policy Research Institute

The Effect of a CO2 Emissions Tax on American Diets

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

Voluntary Programs to Encourage Compliance with Refuge Regulations for Pesticide Resistance Management: Results from a Quasi-Experiment

**Zachary S. Brown**, North Carolina State University

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### 2093 Risk in Agricultural Decisions

*St. Botolph, 2nd Floor*

#### Selected Presentation

The presentations in this session focus on analyzing the impact of risk during the production process. Topics include technology adoption, contract provisions, water supply uncertainty, and different approaches to model farmer's choices.

**Moderator:** Lisa Elliott, South Dakota State University

Bt Cotton Cultivation under Production Risk: Evidence from Pakistan

**Muhammad Watto**, University of Agriculture, Faisalabad; Amin William Mugeru, University of Western Australia

The Roles of Risk and Honey Bee Colony Strength in Determining Pollination Contract Provisions

**Brittney K. Goodrich**, University of California, Davis

Irrigation, Risk Aversion, and Water Rights under Water Supply Uncertainty

**Man Li**, International Food Policy Research Institute; Wenchao Xu, Boise State University; Mark W. Rosegrant, International Food Policy Research Institute

U.S. Farmers' Choices under Expected Utility Theory and Cumulative Prospect Theory

**Harun Bulut**, National Crop Insurance Services

### 2094 Energy Policy

*Suffolk, 3rd Floor*

#### Selected Presentation

This session focuses on the effects of energy policy on agricultural and energy markets and natural resources.

**Moderator:** Jason P H Jones, RTI International

Market Organization and Productive Efficiency: Evidence from Texas Electricity Market Redesign

**Yiyuan Zhang**, University of Michigan

Impacts of U.S. Production-Dependent Ethanol Policy on Agricultural Markets

**Jason P H Jones**, RTI International; Bruce A. McCarl, Texas A&M University

Shale Oil Production Expansion and Water-energy Nexus in North Dakota: A Decentralized Agent-based Modeling Approach

**Siew Hoon Lim**, North Dakota State University; Zhulu Lin, North Dakota State University; Michael Borders, North Dakota State University; Tong Lin, North Dakota State University

### 2095 Energy Markets and Industrial Emissions

*Tufts, 3rd Floor*

#### Selected Presentation

Papers in this session examine economic aspects and environmental impacts of different energy markets. Some also focus on policies and management options addressing industrial emissions. Presentations provide insight on the design of policies and on the role of markets, taking into account how firms may respond.

**Moderator:** Ling Huang, University of Connecticut

U.S. County Level Effects of Solar Energy Development

**Seth Wiggins**, West Virginia University

Temperature Effects are more Complex than Degrees: A Case Study on Residential Energy Consumption

**Gi-Eu Lee**, Michigan State University; Scott Loveridge, Michigan State University

Pollution Permits, Green Taxes, and the Environmental Poverty Trap

**David M. Aadland**, University of Wyoming; Sichao Wei, University of Wyoming

Industry Dynamics and the Incentives of Emission Markets

**Ling Huang**, University of Connecticut

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### **2096 Land Use Allocation, Farm Growth, and Production Contracts**

*Vermont, 5th Floor*

#### **Selected Presentation**

This session consists of papers discussing land use allocation, impacts of spatial interdependence on farm growth, and sugarcane production contracts.

**Moderator:** Ana Claudia Sant'Anna, Kansas State University

The Impact of CRP and Crop Prices on Land Allocation: A Differential Model Panel Data Application

**Ekaterina A. Vorotnikova**, University of Idaho; Serhat Ascı, California State University, Fresno

Direct and Indirect Spatial Interaction of Farm Growth

Hugo Storm, Bonn of University; **Thomas Heckeley**, University of Bonn

Analyzing Sugarcane Production Contracts in Brazil: What do the Farmers Really Want?

**Ana Claudia Sant'Anna**, Kansas State University; Jason S. Bergtold, Kansas State University; Marcellus Caldas, Kansas State University; Gabriel Granco, Kansas State University

### **2097 Agricultural Production in Less Developed Countries**

*Vineyard, 4th Floor*

#### **Selected Presentation**

Two papers in this session focus on agricultural production in India. The remaining two papers address issues related to agricultural production in China.

**Moderator:** Flavius Badau, USDA-Economic Research Service

Evaluating Inefficiency in Indian Agriculture

**Flavius Badau**, USDA-Economic Research Service; Nicholas E. Rada, USDA-Economic Research Service

Distortions to Agricultural Incentives in India: Evidence from Agricultural Value Chains

**Simla Tokgoz**, International Food Policy Research Institute; Fahd Majeed, International Food Policy Research Institute

The Restructuring of Grain Production in Rural China: Regional Heterogeneity and its Reasons

**Chunhui Ye**, Zhejiang University, China; Xuyuan Zheng, Fujian Agriculture and Forestry University; Zhigang Xu, Nanjing Agricultural University; Wei Bian, Zhejiang University, China

Does the Adoption of Weather Tolerant Variety Contribute to Reduction in Rice Yield Loss? Panel Data Survey from Chinese Rice Farmers

Jiehong Zhou, Management School of Zhejiang University; **Liqun Tang**, Zhejiang University; Zhen Yan, Zhejiang University

### **2098 Overcoming Problems with Missing Data and Omitted Variables**

*Wellesley, 3rd Floor*

#### **Selected Presentation**

The papers in this session provide methods and discussion for overcoming omitted variables bias and missing data. The tools discussed in this session have wide applicability across all areas of applied economic research.

**Moderator:** Jingyu Song, Purdue University

Down-scaling Land Use Data: Predicting Where Crops Grow at a Fine Spatial Scale

**Jingyu Song**, Purdue University; Michael Delgado, Purdue University; Paul V. Preckel, Purdue University; Nelson B. Villoria, Kansas State University

The Effects of Honesty Oath and Consequentiality in Choice Experiments

**Nathan Kemper**, University of Arkansas; Jennie S. Popp, University of Arkansas; Rodolfo M. Nayga, University of Arkansas; Claudia Bazzani, University of Arkansas

Estimating Multi-product Production Functions and Productivity Using Control Functions

**Emir Malikov**, St. Lawrence University

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### 2099 Agricultural Productivity Dynamics

*Yarmouth, 4th Floor*

#### Selected Presentation

Presentations in this session evaluate agricultural productivity growth at the national and regional level.

**Moderator:** Alejandro Plastina, Iowa State University

Measuring U.S. Agriculture Productivity: Primal vs. Dual Approaches

**Alejandro Plastina**, Iowa State University; Sergio H. Lence, Iowa State University

Evaluation of Dairy Farm Technical Efficiency: Production of Milk Components as Output Measures

**Shuwei Zeng**, University of Wisconsin; Brian W. Gould, University of Wisconsin; Xiaodong Du, University of Wisconsin

China's Regional Agricultural Productivity Growth: Catching Up or Lagging Behind

**Sun Ling Wang**, USDA-Economic Research Service; Jikun Huang, Chinese Academy of Sciences; Xiaobing Wang, Center for Chinese Agricultural Policy, Chinese Academy of Sciences; Francis C. Tuan, World Agricultural Economic and Environmental Services

Examining the Productivity Growth of Agricultural Cooperatives

**Krishna P. Pokharel**, Kansas State University; Allen M. Featherstone, Kansas State University

### 2100 Alternative Methods in Valuing the Environment

*Boston University, 3rd Floor*

#### Selected Presentation

The papers in this session present alternative methodologies for valuing the environment and natural resources.

**Moderator:** Richard T. Melstrom, Oklahoma State University

Two-Stage Estimation in RUM Models of Recreation Demand

**Richard T. Melstrom**, Oklahoma State University; Deshamithra H. W. Jayasekera, Oklahoma State University

Valuing Natural Resources Allocated by Dynamic Lottery

**Carson Reeling**, Western Michigan University; Valentin Verdier, University of North Carolina, Chapel Hill; Frank Lupi, Michigan State University

A Latent Class Analysis on Public Attitudes Towards Water Resources: Implications for Recreational Demand

Oren Ehrlich, University of Florida; **Xiang Bi**, University of Florida; Tatiana Borisova, University of Florida; Sherry L. Larkin, University of Florida

Recovering Marginal Willingness to Pay from Hedonic Prices Under Imperfect Competition

**Ju-Chin Huang**, University of New Hampshire; Min Qiang Zhao, Xiamen University; Laura Beaudin, Bryant University

## Concurrent Sessions – Tuesday, 2:45 - 4:15 PM

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### **2101 Measuring Wealth for Developing and Evaluating Rural Development Policy and Strategy 2.0**

*Clarendon, 3rd Floor*

#### **Track Session – CRENET Section**

Creating and sustaining wealth is being re-positioned for contemporary rural development policy and strategy. The optimal combination of wealth investments has the potential to improve the long-run prosperity, resiliency, and upward mobility of people in rural places. However, what constitutes wealth and how it is measured in the 21st century has differences to wealth assets of the 19th century highlighted by Thomas Piketty's book *Capital*. This session is a follow up to a 2015 AAEA Session, presenting results from three on-going research efforts to measure wealth in rural regions and understand the place-based implications of these wealth assets.

**Organizers:** J. Matthew Fannin, Louisiana State University; Paul A. Lewin, University of Idaho; Todd M. Schmit, Cornell University

Comprehensive Wealth Measurement and Spatial Hedonic Analysis: Social Amenities as Externalities of Social Capital  
**Jinhyoung Kim**; Thomas G. Johnson, University of Missouri; John L. Pender, USDA-Economic Research Service; J. Matthew Fannin, Louisiana State University

Applying Comprehensive Wealth Accounting to Evaluating the Impacts of Local Food System Initiatives  
**Becca B. R. Jablonski**, Colorado State University; Todd M. Schmit, Cornell University; David Kay, Cornell University

Does the Level of Local Inequality Affect Community Economic Resilience: An Exploration of Possible Links  
**Xiurou Wu**, Oregon State University; Mallory L. Rahe, Oregon State University; Bruce A. Weber, Oregon State University

Land Ownership, Heir Property and Community Development: The Case of the African American Farmer  
**Robert Zabawa**, Tuskegee University; Conner Bailey, Auburn University; Ntam Baharanyi, Tuskegee University; Rebecca Barlow, Auburn University

### **2102 Statistical Techniques Used to Identify Climate Change Implications and Potential Adaptations**

*Dartmouth, 3rd Floor*

#### **Track Session – Econometrics Section**

There's been a rapid rise in statistical studies exploring the effects of temperature shocks on agriculture and other sectors with the goal of assessing potential impacts of climate change. In addition, more research is being dedicated toward measuring how and how much economic activity can adapt to climate change and thereby mitigate potential damages. This session will explore three fundamental research questions related to these issues and the techniques being used to address them.

**Organizer:** Jesse B. Tack, Mississippi State University

**Moderator:** Jesse B. Tack, Mississippi State University

What Matters More, Adaptation or Price Response to Climate Change?  
**Michael James Roberts**, University of Hawaii at Manoa

Measurement Error of Extreme Temperature Events and its Consequences for Climate Change Impact Projections  
**Ariel Ortiz-Bobea**, Cornell University

The Role of El Niño Southern Oscillation in Commodity Price Movement and Predictability  
**David Ubilava**, University of Sydney

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

### 2103 U.S. Agribusiness Exporters to China: Challenges and Success Stories

*Exeter, 3rd Floor*

#### Track Session – AEM and China Sections

Imports by China, one of the most important markets for U.S. agricultural exports, are affected by China's agricultural and trade policies along with domestic demand and supply. Since joining the WTO, China adopted more open trade policies; however, it enacted policies promoting food security, price stability and higher incomes for farmers, which lead to increased distortions between Chinese and international markets. Most recently, China continues to expand free trade agreements to diversify its agricultural suppliers. Concurrently, the Trans-Pacific Partnership does not include China. This session provides information of potential risks and opportunities on exporting to China. Discussion stems from interviews with agribusiness leaders and government officials working to facilitate U.S.-China trade while identifying challenges and successes. Interviews were conducted in China and the U.S. as part of the "Expanding U.S. Market Access in China's Evolving Agricultural and Trade Policy Environment" project, funded by USDA-NIFA as an AFRI grant.

**Organizers:** James M. Hansen, USDA-Economic Research Service; Mary Marchant, Virginia Tech

**Moderator:** Francis C. Tuan, World Agricultural Economic and Environmental Services

**Discussant:** Funing Zhong, Nanjing Agricultural University

China's Evolving Agricultural and Trade Policies – Impact on U.S. Exports

**Mina Hejazi**, Virginia Tech; Funing Zhong, Nanjing Agricultural University; Jing Zhu, Nanjing Agricultural University

Challenges and Successes by U.S. Agribusiness Exporters to China

**James M. Hansen**, USDA-Economic Research Service; Francis C. Tuan, World Agricultural Economic and Environmental Services; Agapi L. Somwaru

A Case Study - Supplying China's Growing Appetite for Poultry

**Mary Marchant**, Virginia Tech; Wei Zhang, Virginia Tech; Wei Chen, Shanghai University of Finance and Economics

### 2104 Agricultural Productivity, Nutrition and Food Security in Latin America

*Fairfield, 3rd Floor*

#### Track Session – LAS Section

Latin America has managed to reach both targets of the Millennium Development Goals of eradicating extreme poverty and hunger. By halving the proportion of people whose income is less than \$1, and the proportion of people who suffer from hunger, significant progress have been made toward achieving food and nutrition security, yet significant work remains to be done. This session will focus on two interconnected food security issues: agricultural productivity and nutrition. Presentations made by researchers from academic institutions and international development and research organizations will provide an up-to date view of these two issues. The session also includes presentations providing an overall view of the issues in the region as well as case studies from two countries: Peru and Guatemala.

**Organizers:** Carlos E. Carpio, Texas Tech University; Luis Sandoval, Texas Tech University

**Moderator:** Carlos E. Carpio, Texas Tech University

Agricultural Productivity, Climate Change, and Food Security in Latin American Countries

**Carlos Ludeña**, Inter-American Development Bank

Impacts of CIP Potato Variety Development on Food Security in Highland Peru

**Jeffrey Alwang**, Virginia Tech

Policy Implications of Two Food Security Measurement Methodologies in Guatemala

**Luis Sandoval**, Texas Tech University; Manuel Garcia, Zamorano University; Carlos E. Carpio, Texas Tech University

Seasonality, Birth Order and Stunting: Evidence from Guatemala

**Manuel A. Hernandez**, International Food Policy Research Institute; Francisco Ceballos, International Food Policy Research Institute; Miguel Robles, International Food Policy Research Institute



## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### **2105 Financing Innovation for Agriculture and Food: What Next? Part 1: Evolving Funding Models**

*Hyannis, 4th Floor*

#### **Track Session – Australasia Section**

This is the first of two linked sessions on the same topic, with a mixture of speakers from government, universities, and industry. Each session will have a set of short presentations followed by a general discussion.

**Organizer:** Julian M. Alston, University of California, Davis

**Moderator:** Julian M. Alston, University of California, Davis

Investments in Agricultural and Food R&D: The New Global Landscape

**Philip G. Pardey**, University of Minnesota-Twin Cities

The Evolving Institutional Structure of Public and Private Agricultural Research

**Keith O. Fuglie**, USDA-Economic Research Service

Public-Private-Producer Partnerships: Theory and Practice

**Richard S. Gray**, University of Saskatchewan

Financing Innovation for Agriculture and Food: The Role of Value Chains

**Johan F.M. Swinnen**, University of Leuven

### **2106 Does Food Safety Regulation Pay?**

*New Hampshire, 5th Floor*

#### **Track Session – FSN and FAMPS Sections**

Recent food safety regulations such as the Food Safety Modernization Act for FDA and the Modernization of Poultry Slaughter Inspection for USDA have imposed new requirements on food producers with the goal of reducing the risk of foodborne illness. When implementing major regulations, government agencies must assess whether the health benefits of the regulation exceed the costs of required actions. Regulatory agencies typically must conduct analyses in a situation with limited data and time and following specific statutory requirements. The purpose of this session is to discuss the methods that have been used to estimate the benefits and costs of recent regulations, discuss how economic analyses improve regulations, identify the challenges associated with conducting economic analyses of regulation, and identify areas in which additional research could improve analyses conducted for food safety regulations.

**Organizers:** Sandra Hoffmann, USDA-Economic Research Service; Mary K. Muth, RTI International

**Moderator:** Christiane Schroeter, California Polytechnic State University

USDA Perspective

**April Regonlinski**, USDA-Food Safety and Inspection Service

FDA Perspective

**James Bradley Brown**, U.S. Food and Drug Administration

Benefit Estimation Methodologies

**Jean C. Buzby**, USDA-Economic Research Service

Cost Estimation Methodologies

**Mary K. Muth**, RTI International

OMB Perspective

**Elizabeth Ashley**, Office of Management and Budget

## Concurrent Sessions — Tuesday, 2:45 - 4:15 PM

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### **2107** Are Checkoff Programs Good for Nutrition?

*Berkeley, 3rd Floor*

#### **Track Session – FAMPS Section**

The nutrition quality of federal generic commodity promotion programs is important and controversial. This panel discussion session will address the question “Are checkoff programs good for nutrition?” Harry Kaiser will provide a 20-minute presentation that takes the “yea” view. Parke Wilde will give a 20-minute talk that gives the “nay” view. The two presenters have planned their presentations to set up an engaging contrast while still reflecting favorably on both areas of work. As discussant, John Crespi will present his own thoughts on the balance of evidence (15 min). The discussant/moderator, Kristin Kiesel, will engage the audience in a vigorous discussion period. Like the moderator in a political debate, her mandate includes the authority to probe for greater detail and to engage the arguments at stake.

**Organizer:** Parke E. Wilde, Tufts University

**Discussants:** John M. Crespi, Iowa State University; Kristin Kiesel, University of California, Davis

**Presenters:** Harry M. Kaiser, Cornell University; Parke E. Wilde, Tufts University

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### **2108** Understanding Global Consumers' Motivations for Adopting a Vegetarian/Vegan Diet: A Comparison of Methods, Results and Policy Implications

*Arlington, 3rd Floor*

#### **Organized Symposium**

The focus of this session is to examine gaps in the literature around vegetarian/vegan/flexitarian behavior across countries, and across disciplines with respect to the broader literature. Specifically, this session adds to the discussion by first, providing insights across three countries from three continents (US, Australia, Germany) based on quantitative analysis, and second, by adding for Germany the results of qualitative methods. The insights derived from the session will allow for a better understanding of the factors and concerns motivating consumers to adopt a vegetarian and/or vegan diet, the implications of changing diets for the food industry and related policymakers, including the livestock and meat sector, and strategies for addressing issues that may arise from changing meat eating behavior, particularly those centered around misinformation.

What Drives German Consumers to Become Vegetarians/Vegans: Analysis Based on Morphological Market Research

**Monika Hartmann**, University of Bonn

### **2109** Agricultural Practices and Technologies

*Salon B, 4th Floor*

#### **Selected Presentation – Lightning Session**

The 8 papers in this lightning session consider the consequences of a range of production practices such as contracting and technologies such as Bt cotton and improved seeds in various developing countries.

**Moderator:** Anna M. Fairbairn, University of Illinois at Urbana-Champaign

Impact of Modern Irrigation on Household Production and Welfare Outcomes: Evidence from the PASIDP project in Ethiopia  
*Alessandra Garbero*, International Fund for Agricultural Development; **Tisorn Songsermsawas**, International Fund for Agricultural Development

Mineral Fertilizer Quality: Implications for Markets and Small Farmers in Tanzania

**Anna M. Fairbairn**, University of Illinois at Urbana-Champaign; Hope C. Michelson, University of Illinois at Urbana-Champaign; Brenna Ellison, University of Illinois at Urbana-Champaign; Victor M. Manyong, International Institute of Tropical Agriculture

A Question of Integrity: Variants of Bt Cotton, Pesticides, and Productivity in Pakistan

Xingliang Ma, International Food Policy Research Institute; **Melinda Smale**, Michigan State University; David J. Spielman, International Food Policy Research Institute; Patricia Zambrano, International Food Policy Research Institute; Hina Nazli, IFPRI's Pakistan Strategy Support Program; Fatima Zaidi, International Food Policy Research Institute

Novel IPM Intervention in West Africa: Smallholder Farmers' Preferences for Biological versus Synthetic Control Strategies for Cowpea Pests

**Michael Agyekum**, Michigan State University; Frank Lupi, Michigan State University; Cynthia Donovan, Michigan State University

A Duration Analysis Approach to Variety Change on Wheat Farms in Bihar, India

**Mukesh K. Ray**, Michigan State University; Mywish K. Maredia, Michigan State University

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### 2110 International Trade

Salon C, 4th Floor

#### Selected Presentation –Lightning Session

The lightning session deals with the interactions of agricultural trade and other economic and social topics. The analyses allow us to re-examine agricultural trade from the broad perspective of economic development, environmental sustainability, labor markets, and cultural trends.

**Moderator:** Nikhil Damodaran, Louisiana State University

Corruption and Agricultural Trade

**Trina Biswas**, Louisiana State University; P. Lynn Kennedy, Louisiana State University

Eco-Labeling and the Gains from Agricultural and Food Trade: A Ricardian Approach

**Kari E. Heerman**, USDA-Economic Research Service; Ian M. Sheldon, The Ohio State University

Reinvigorating Economy in the Euro Area: Use of Fiscal Policy to ‘Beggars-Thy-Neighbor’

**Nikhil Damodaran**, Louisiana State University

Forest Stewardship Standards: Voluntary Governance as a Trade Facilitation Strategy?

**Bruno Kanieski Da Silva**, North Carolina State University; Kathryn A. Boys, North Carolina State University

### 2111 International Development

Boylston, 1st Floor

#### Selected Presentation

Papers in this session focus on evaluating the effectiveness of development efforts in Asia, Africa, and Central America.

**Moderator:** Johanna Fajardo-Gonzalez, University of Minnesota

Migration and Household Decision on Occupational Choice and Input Reallocation: Evidence from Bangladesh

**Marup Hossain**, University of Florida; Gulcan Onel, University of Florida; Conner Mullally, University of Florida

Long-Term Impacts of Poverty Programs: A Local-Economy Cost-Benefit Analysis of Lesotho’s Child Grants Programme

**Anubhab Gupta**, University of California, Davis; J. Edward Taylor, University of California, Davis; Mateusz J. Filipski, International Food Policy Research Institute; Karen E. Thome, USDA-Economic Research Service; Benjamin Davis, Food and Agricultural Organisation of the United Nations; Luca Pellerano, International Labour Organization; Ousmane Niang, United Nations Children’s Emergency Fund

Longitudinal Analysis of the Intrahousehold Distribution of Foods in Rural Nepal: Effectiveness of a Community Development Intervention

**Amelia F. Darrouzet-Nardi**, Allegheny College; Laurie C. Miller, Tufts Medical Center; Neena Joshi, Heifer International Nepal; S. Mahato, Heifer International Nepal; Mahendra Lohani, Heifer International; Beatrice L. Rogers, Tufts University; Julia Drozdowsky, Allegheny College

Determinants of Sustainability of Community Seed Banks in Nicaragua: A Duration Analysis Approach

**David J. De Young**, Michigan State University; Mywish K. Maredia, Michigan State University

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### **2112** Agricultural Productivity in Developing Countries

*Brandeis, 3rd Floor*

#### **Selected Presentation**

The four papers in this session focus on issues in agricultural productivity in developing countries, including the effects of gender, farm size, weather, and technical change.

**Moderator:** Leah EM Bevis, Cornell University

The Inverse Size-Productivity Puzzle: Might There Be Behavioral Explanations?

**Leah EM Bevis**, Cornell University; Christopher B. Barrett, Cornell University

Weather Variability, Technical Change, and Agricultural Production: 40 Years of Evidence from India

**Jeffrey D. Michler**, University of Illinois at Urbana, Champaign

The Impact of the Use of New Technologies on Farmers' Wheat Yield in Ethiopia: Evidence from a Randomized Controlled Trial  
Gashaw Abate, International Food Policy Research Institute; Tanguy Bernard, International Food Policy Research Institute; **Alan D. De Brauw**, International Food Policy Research Institute; Nicholas Minot, International Food Policy Research Institute

Asymmetric Trade Flows and Their Implications for Competitiveness, Efficiency and Trade

**Youngjae Lee**, Louisiana State University; P. Lynn Kennedy, Louisiana State University

### **2113** Water Resource Management

*Harvard, 3rd Floor*

#### **Selected Presentation**

This session focuses on management of water resources for agricultural, industrial, and residential uses. Spatial heterogeneity and welfare impacts are examined in the presentations.

**Moderator:** Sanchari Ghosh, Northeastern State University

The Welfare Consequences of the 2015 California Drought Mandate: Evidence from New Results on Monthly Water Demand

**Steven C. Buck**, University of Kentucky; Stephen F. Hamilton, California Polytechnic State University, San Luis Obispo; Mehdi Nemati, University of Kentucky; David L. Sunding, University of California, Berkeley

A Hydro-Economic Model to Analyze the Allocation of Agricultural Water in the Tennessee Basin

Lixia He, University of Tennessee; Christopher D. Clark, University of Tennessee; **Dayton M. Lambert**, University of Tennessee; Jamey Menard, University of Tennessee; Burton C. English, University of Tennessee; Stephanie Owen, University of Tennessee

Hydroeconomic Modeling of the Benefits and Costs of Water Management in the Santa Cruz Border Region

**Sanchari Ghosh**, Northeastern State University; Keith D. Willett, Oklahoma State University

Groundwater Management Policy Evaluation with a Spatial-Dynamic Hydro-Economic Modelling Framework

**Robert A. Hrozencik**, Colorado State University; Dale Manning, Colorado State University; Jordan F. Suter, Colorado State University; Christopher Goemans, Colorado State University; Ryan T. Bailey, Colorado State University

Meandering Water in the Prairie Pothole Region of South Dakota and its Economic Impact

**Matthew Elliott**, South Dakota State University; Tong Wang, Texas AgriLife Research; Dennis Today, South Dakota State University

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### **2114 Wine and Coffee Economics**

*Maine, 5th Floor*

#### **Selected Presentation**

This session focuses on emerging issues relevant to agribusinesses in the wine grape and coffee industries. Business strategy, technological innovation, and labeling are discussed.

**Moderator:** Bruno V. Miranda, University of Missouri

Transaction Costs, Capabilities and Grape Procurement Strategies in U.S. Emerging Wine Regions

**Bruno V. Miranda**, University of Missouri; Fabio R. Chaddad, University of Missouri

Evaluating the Potential for Robotic Technology Development in U.S. Wine Grape Production

**Dean A. McCorkle**, Texas A&M University; Rebekka M. Dudensing, Texas A&M AgriLife Extension Service; Daniel Hanselka, Texas A&M University; Ed W. Hellman, Texas A&M University

Price Determinants of California Wine in the U.S. Market: Does the Type Matter?

**Ali Asgari**, University of Kentucky; Michael R. Reed, University of Kentucky

Costly Choices: Does the U.S. Retail Market Reward Coffee Origin Labeling?

**John Hoehn**, Michigan State University

### **2115 Effect of Exogenous and Endogenous Factors on Farm Profitability and Wealth**

*Massachusetts, 5th Floor*

#### **Selected Presentation**

External influences as well as management decisions can have profound impacts on farm finances. Papers in this session examine how exogenous and endogenous factors such as urban development, invasive pests, avoided demand charges and timing of wealth transfer affect farm assets, revenues, and cost of production.

**Moderator:** Sean P. Hurley, California Polytechnic State University, San Luis Obispo

A Model for Estimating Revenue from Avoided Demand Charges for Agricultural Operations Utilizing Anaerobic Digesters

**Sean P. Hurley**, California Polytechnic State University, San Luis Obispo

Economic Impact of the Sugarcane Aphid Outbreak in South Texas

**Samuel D. Zapata**, Texas A&M University; Raul Villanueva, Texas A&M University; Rebekka M. Dudensing, Texas A&M AgriLife Extension Service; Danielle Sekula, Texas A&M University; Gabriela Esparza-Diaz, Texas A&M University

The Effect of Timing of Farm Transfer Initiation on Terminal Wealth in the Business: Simulation Model.

**Iuliia Protopop**, University of Nebraska-Lincoln; Michael Boehlje, Purdue University

Urban Influence on Costs of Production in Selected Regions: A Frontier Approach

**Richard F. Nehrung**, USDA-Economic Research Service; Ani Katchova, The Ohio State University; Charles Hallahan, USDA-Economic Research Service; Michael Harris, USDA-Economic Research Service; Kenneth W. Erickson, USDA-Economic Research Service

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### **2116** New Evidence on Milk and Dairy Demand

*MIT, 3rd Floor*

#### **Selected Presentation**

Milk and dairy is becoming highly differentiated. This session examines the effects of private labeling on market power, as well as the effects of differentiation on demand for milk and dairy products.

**Moderator:** Senarath Dharmasena, Texas A&M University

Investigating Economic and Demographic Factors Affecting Consumer Demand for Coconut-milk in the United States

**Senarath Dharmasena**, Texas A&M University

Private Label Market Power: Evidence from the Italian Dairy Sector

Giulia Tiboldo, University of Connecticut; Rigoberto A. Lopez, University of Connecticut; **Stefan Hirsch**, University of Bonn

Demand for Niche Local Brands in the Fluid Milk Sector

Adam N. Rabinowitz, University of Connecticut; **Yizao Liu**, University of Connecticut; Xuan Chen, University of Connecticut; Benjamin L. Campbell, University of Georgia

Private Label Competition and Retailer Market Power: The Case of Fluid Milk in New England

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

### **2117** Diffusion of Technologies

*Nantucket, 4th Floor*

#### **Selected Presentation**

Papers in this session emphasize the roles of information technology, extension, and transgenerational learning in enhancing decision-making in developing countries.

**Moderator:** Annemie Maertens, University of Sussex

Demonstration Plots as a Tool to Promote Farmer Learning: Evidence from a Randomized Controlled Trial in Malawi

**Annemie Maertens**, University of Sussex; Hope C. Michelson, University of Illinois at Urbana-Champaign; Vesall Nourani, Cornell University

Ties that Bind: Redistributive Pressure and Economic Decisions in Village Economies

**Salvatore DiFalco**, University of Geneva; Francesco Feri, University of London; Paolo Pin, University of Siena; Xavier Vollenweider, London School of Economics and Political Science

Agricultural Extension through Information Technologies in Schools: Do the Cobbler's Parents Go Barefoot?

**Eduardo A. Nakasone**, Michigan State University; Maximo Torero, International Food Policy Research Institute

Did You Really Get the Message? Using Text Reminders to Stimulate Adoption of Agricultural Technologies

**Catherine Larochelle**, Virginia Tech; Jeffrey Alwang, Virginia Tech; Elli Travis, Virginia Tech

### **2118** Using Experimental Economics to Investigate Intra-Household Allocation

*Northeastern, 3rd Floor*

#### **Selected Presentation**

This session presents research regarding the measurement of regulatory participation and compliance, productive resource control and intra-household labor allocation as well as the impact of gender differences in risk preferences on household investment decisions. Finally, credit access as improvement of technical efficiency of farmers is discussed.

**Moderator:** Stephen N. Morgan, Michigan State University

Farmers as Policymakers: Measuring Regulatory Participation and Compliance in Michigan

**Stephen N. Morgan**, Michigan State University; Nicole M. Mason, Michigan State University; Robert S. Shupp, Michigan State

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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University

Productive Resource Control and Intrahousehold Labor Allocation

*Aissatou Ouedraogo*, Michigan State University

A Study on Intra-household and Gender Differences in Risk Preferences and Their Effect on Household Investment Decisions in Rural Cameroon

*M. Jimena Gonzalez Ramirez*, Iowa State University; Niccolo F. Meriggi, Wageningen University

Does Credit Access Improve Technical Efficiency of Farmers? Experimental Evidence from Bangladesh

*Nusrat A. Jimi*, The State University of New York; Subal C. Kumbhakar, The State University of New York; Plamen Nikolov, The State University of New York

### 2119 Food Choice Experiments

*Regis, 3rd Floor*

#### Selected Presentation

These presentations employ experiments to examine food choices and preferences.

**Moderator:** Chinonso E. Etumnu, University of San Francisco

Behavioral Determinants of Biofortified Food Selection: The Case of Orange-fleshed Sweet Potato in Ghana

*Chinonso E. Etumnu*, University of San Francisco

Product Bundling as a Behavioral Nudge: Investigating Consumer Fruit and Vegetable Selection using Dual-Self Theory

*Kathryn A. Carroll*, University of Wisconsin; Anya Samek, University of Southern California; Lydia Zepeda, University of Wisconsin

Understanding the Effect of Product Displays on Consumer Choice and Food Waste: A Field Experiment

*Devon P. Meadowcroft*, University of Delaware; John C. Bernard, University of Delaware; Ulrich C. Toensmeyer, University of Delaware

### 2120 Agricultural Trade: Market and Policy Analyses

*Salon D, 4th Floor*

#### Selected Presentation

This session outlines the factors affecting agricultural trade, including agricultural and trade policies.

**Moderator:** Jaya Jha, Colby College

Agricultural Protection, Domestic Politics, and International Political Economy: What is the Role of the State in Explaining Agricultural Protection?

*Wanki Moon*, Southern Illinois University; Gabriel Pino, Universidad de Talca; Jebaraj Asirvatham, Southern Illinois University

A COOL Repeal: Potential Outcomes of U.S. Mandatory Country of Origin Labeling Requirements on Dairy and Beef Sectors

*Amanda M. (Leister) Countryman*, Colorado State University; Alessandro Bonanno, Colorado State University; Joleen C. Hadrich, Colorado State University



## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### **2121 Impact of Food Policies on the Poor: Studies in the United States and India**

*Salon H, 4th Floor*

#### **Selected Presentation**

How affective are food assistance programs in addressing hunger and malnutrition among the poor in both developed and developing countries? This session examines this question for the U.S and India.

**Moderator:** Danhong Chen, University of Arkansas

Evaluating the Impact of Participation in the Fresh Fruit and Vegetable Program on Childhood Obesity Using Synthetic Difference-in-Difference Method

**Danhong Chen**, University of Arkansas; Rodolfo M. Nayga, University of Arkansas; Michael R. Thomsen, University of Arkansas; Sangsoo Park, Korea University; Judy Bennett, Arkansas Center for Health Improvement

Food Access, Food Deserts, and the Women, Infants, and Children Program

**Qi Wu**, University of California, Davis; Tina L. Saitone, University of California, Davis; Richard J. Sexton, University of California, Davis

Effectiveness of Food Subsidies in Raising Consumption of Healthy Food: The Case of Pulses in Public Distribution System in India  
Suman Chakrabarti, International Food Policy Research Institute; **Avinash Kishore**, International Food Policy Research Institute; Devesh Roy, International Food Policy Research Institute

Arbitrage and Corruption in Food Subsidy Programs? Evidence from India's Targeted Public Distribution System

Suman Chakrabarti, International Food Policy Research Institute; Tajuddin Khan, International Food Policy Research Institute; **Avinash Kishore**, International Food Policy Research Institute

### **2122 Nutrition in K-12 Education**

*Salon J, 4th Floor*

#### **Selected Presentation**

Examining nutrition in youth is important in light of the obesity epidemic while malnutrition is still observed. This session includes four papers that examine nutrition trends in K-12 education.

**Moderator:** Michael E. Ollinger, USDA-Economic Research Service

The Effect of Nutrition and Physical Education on Student Achievement: Evidence from Traverse City Area Public Schools

**Gerard L. Taylor**, Michigan State University; Dave D. Weatherspoon, Michigan State University; Marci Scott, Michigan Fitness Foundation; Sarah Jones, Michigan Fitness Foundation

The Role of Calorie Content, Menu Items, and Health Beliefs on the School Lunch Perceived Health Rating

**Matthew V. Pham**, Landmark College; Brian E. Roe, The Ohio State University

Trends in Soda, Milk, and Juice Consumption among U.S. High School Students from 2007 to 2015

Caitlin Merlo, Centers for Disease Control and Prevention; Sohyun Park, Centers for Disease Control and Prevention; Zewditu Demissie, Centers for Disease Control and Prevention; Sarah Sliwa, Centers for Disease Control and Prevention; **Gabrielle Miller**, Centers for Disease Control and Prevention

Do Large School Food Authorities Pay Less for Food used in the National School Lunch Program?

**Michael E. Ollinger**, USDA-Economic Research Service; Joanne Guthrie, USDA-Economic Research Service; Audrey J. Peo, University of Delaware

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### 2123 Demand and Price Analysis of International Trade

*Salon K, 4th Floor*

#### Selected Presentation

These papers seek to analyze empirically the demand conditions for agricultural traded commodities. Policy implications are emphasized.

**Moderator:** Haiyan Wang, Texas Tech University

Potential Scenarios for China's Future Excess Demand for Grain Sorghum

**Haiyan Wang**, Texas Tech University; Jaime E. Malaga, Texas Tech University

Estimating Import Demand Functions in Major Beef Importing Countries by Bayesian Hierarchical Linear Model

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

Price Discovery in U.S. and World Rice Markets using Tournament Approach

**Man-Keun Kim**, Utah State University; Hernan A. Tejada, Utah State University

The Effect of HPAI on ECOWAS Meat Prices Using Price Transmission Analysis

**Fawzi A. Taha**, USDA-Economic Research Service; Anthony Shkrelja, USDA-Economic Research Service

### 2124 Analyses of Risk, Adaptation, and Habit Formation in Developing Countries

*St. Botolph, 2nd Floor*

#### Selected Presentation

Presentations in this session focus on risk management in specific situations that are particularly relevant for developing countries.

**Moderator:** Shaikh M. Eskander, London School of Economics

Agricultural Adaptation to Disaster through Land Rental Market: Evidence from Bangladesh

**Shaikh M. Eskander**, London School of Economics; Edward B. Barbier, University of Wyoming

Income Risk, Habit Formation, and Precautionary Savings: The Case of Rural Households

**Aditya R. Khanal**, Tennessee State University; Ashok K. Mishra, Arizona State University

Replanting Guarantee in Developing Countries

**Yiting Li**, The Ohio State University; Mario J. Miranda, The Ohio State University

### 2125 Marketing Strategies of Smallholder Farmers

*Tufts, 3rd Floor*

#### Selected Presentation

This set of presentations explore various marketing strategies employed by smallholder farmers around the world.

**Moderator:** Dennis O. Ochieng, Goettingen University

Farmers' Preferences for Supermarket Contracts in Kenya

**Dennis O. Ochieng**, Goettingen University; Prakashan Chellattan Veetil, International Rice Research Institute; Matin Qaim, Georg-August-Universität Göttingen

Implications of Seasonal Price and Productivity Changes at the Household Level in Uganda – A Heterogeneous Agent Approach

**Mark Musumba**, Earth Institute at Columbia University; Yuquan W. Zhang, Shanghai Jiao Tong University

The Changing Structure of Retail Food Stores, Direct Marketing Sales and its Impact on Farmer's Financial Performance

Krishna P. Paudel, Louisiana State University; **Seydina O. Sene Sr.**, Louisiana State University; Timothy A. Park, USDA-Economic Research Service

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### **2126** Climate Variability and Impacts on World Agricultural Production

*Vermont, 5th Floor*

#### **Selected Presentation**

This sessions consists of four papers analyzing the impact of climate variability on agricultural production.

**Moderator:** Pierre Mérel, University of California, Davis

Modeling Temperature and Precipitation Influences on Yield Distributions of Canola and Spring Wheat in Saskatchewan  
Richard Carew, Agriculture & Agri-Food Canada; Ting Meng, University of Pennsylvania; **Wojciech J. Florkowski**, University of Georgia; Anna M. Klepacka, Warsaw University of Life Sciences

Adapting Agronomic Metrics to Climate-Yield Models in Northern Latitudes: The Importance of Cold Temperature Stress  
**Alan P. Ker**, University of Guelph; Tor N. Tolhurst, University of California, Davis

The Impact of Climate Change on Cereal Yields: Statistical Evidence from France

**Matthew Gammans**, University of California, Davis; Pierre Mérel, University of California, Davis; Ariel Ortiz-Bobea, Cornell University

### **2127** Agriculture and GHG Emissions

*Wellesley, 3rd Floor*

#### **Selected Presentation**

Papers in this session address different dimensions of the interface between agriculture and GHG emissions.

**Moderator:** WanYu Liu, Aletheia University

Optimal Pricing of Carbon Trading Market Based on a Demand-Supply Model

**WanYu Liu**, National Chung Hsing University

Quantifying Spatial Differences in Methane Emissions from Rice Production

Francis Tsiboe, University of Arkansas; **Aaron M. Shew**, University of Arkansas; Lawton L. Nalley, University of Arkansas; Bruce L. Dixon, University of Arkansas; Jesse B. Tack, Mississippi State University; Andrew P. Barkley, Kansas State University; Kris Brye, University of Arkansas

Renewable Natural Gas as a Solution to Climate Goals: Supply Estimates and Response to California's Low Carbon Fuel Standard

**Daniel P. Scheitrum**, University of California, Davis; Nathan C. Parker, Arizona State University

Abatement Costs of Emissions from Crop Residue Burning in Major Crop Producing Regions of China: Balancing Food Security with the Environment

**Lingling Hou**, Center for Chinese Agricultural Policy, Chinese Academy of Sciences; Dana L. Hoag, Colorado State University; Jikun Huang, Chinese Academy of Sciences; Catherine M. Keske, Colorado State University

### **2128** Ecosystems/Conservation

*Boston University, 3rd Floor*

#### **Selected Presentation**

Papers in this session evaluate conservation practices and ecosystem management.

**Moderator:** Seong Do Yun, Yale School of Forestry and Environmental Studies

The Wealth of Ecosystems: Valuing Natural Capital in the Context of Ecosystem Based Management

**Seong Do Yun**, Yale School of Forestry and Environmental Studies; Barbara Hutniczak, National Oceanic and Atmospheric Administration (NOAA); Eli P. Fenichel, Yale University; Joshua K. Abbott, Arizona State University

What Matters for Farmers' Willingness to Accept Compensation for Restoring Wetland: Environmental Benefits or Economic Concerns

**Xuan Wei**, University of Florida; Honggen Zhu, Jiangxi Agricultural University

Effects of Protected Area Size on Conservation Return on Investment

**Kristen Thiel**, University of Tennessee; Seong-Hoon Cho, University of Tennessee

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

### **2129** Are Poor Soils a Blessing or a Curse? Estimating the Relationships among Soil Quality, Agricultural Productivity, and Poverty in Sub-Saharan Africa

*Berkeley, 3rd Floor*

#### **Track Session – International and Africa Sections**

The United Nation's declaration of 2015 as the International Year of Soils and the Montpellier Panel report, "No Ordinary Matter: Conserving, Restoring, and Enhancing Africa's Soils", pushed issues of soil quality and agricultural productivity to near the top of the development agenda in sub-Saharan Africa (SSA). While this has stimulated considerable research, dialogue, and some renewed donor support for efforts to address soil and land degradation challenges, the relationships among soil quality, agricultural productivity, and rural poverty remain poorly understood. Moreover, there is an emerging debate in the literature over whether good soils are a blessing (the conventional wisdom) or a curse (Wantchekon and Stanig, 2015). This track session will bring new empirical evidence from Kenya, Malawi, and Zambia to bear on these issues and debates.

**Organizers:** Nicole M. Mason, Michigan State University; Milu Muyanga, Michigan State University; Jacob Ricker-Gilbert, Purdue University

**Moderator:** Thomas S. Jayne, Michigan State University

**Discussant:** Mark W. Rosegrant, International Food Policy Research Institute

Pinned to the Ground: Examining Soil Degradation Poverty Traps in Rural Kenya

**Milu Muyanga**, Michigan State University; Thomas S. Jayne, Michigan State University

Micro-Level Welfare Impacts of Agricultural Productivity: Evidence from Rural Malawi

**Francis A. Darko**, Purdue University; Amparo Palacios-Lopez, World Bank; Talip Kilic, World Bank; Jacob Ricker-Gilbert, Purdue University

Female Access to Fertile Land in Zambia

**William J. Burke**, Stanford University

### **2130** Behavioral Economics and School Food Policy: Nudging Towards Better Choices

*Clarendon, 3rd Floor*

#### **Track Session – FSN and IBES Sections**

Behavioral Economics applications to improving health, choice, and the bottom lines of school cafeterias have expanded since the Smarter Lunchroom Initiative of 2009 which continues to strive to provide schools with research-based solutions to encourage healthier eating in the lunchroom while maintaining participation and revenue. This session includes three papers with "nudges" and lunchroom architecture influences that aim to increasing school lunch participation and increasing consumption of fruits and vegetables.

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

**Moderator:** David R. Just, Cornell University

**Discussant:** David R. Just, Cornell University

Sampling Tomorrow's Lunch Today: A Partial Solution to the School Lunch Trilemma?

**Jane M. Kolodinsky**, University of Vermont; Elizabeth Pope, University of Vermont; Erin Roche, University of Vermont

The Effect of Elementary Student Involvement in the Design of Healthy Food Promotional Materials on Vegetable Consumption

**Christopher R. Gustafson**, University of Nebraska-Lincoln

Lunchroom Table Talkers Talk School Students into Eating Fruits and Vegetables

**Janani Rajbhandari Thapa**, University of Georgia; Michelle VanDellan, University of Georgia

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### **2131 Strengthening Impact Assessment in the CGIAR: Lessons Learned**

*Dartmouth, 3rd Floor*

#### **Track Session – International and Senior Sections**

The session consist of four presentations providing an overview of challenges faced by CG centers in conducting credible impact assessments, steps to improve impact assessment in a comodity (CIP), and natural resource (CIFOR) center, and a summary of recommendations. The first presents an overview of challenges to credible impact assessment faced and a discussion of means of overcoming them. The second presentation approaches the challenge from a Center perspective. It synthesizes lessons about challenges and means of improving impact assessment. The third discusses experiences in a addressing a huge challenge in assessing impacts for commodity-focused research: measuring adoption. An ongoing project is extending methods for estimating adoption of improved varieties across South and Southeast Asia. The fourth presentation summarizes CIAT's recent experience in impact assessment. This center was not involved in the strengthening effort and an overview of its challenges provides context for other centers.

**Organizer:** Jeffrey Alwang, Virginia Tech

**Discussant:** Bradford F. Mills, Virginia Tech

Challenges to impact assessment in the CG: Building credibility within the context of a complex research program

*Jeffrey Alwang*, Virginia Tech

Impact Assessment at CIP & CIFOR: Challenges of Attribution and Impact Assessment Prioritization in Different Research Centers  
*Guy G. Hareau*, International Potato Center; Daniel Suryadarma, Center for International Forestry Research

Tracking Varietal Adoption through Expert Elicitation Methodology: Recent Experiences from More Than 130 Crop-Country-Combinations (CCCs) in South and Southeast Asia

*Mywish K. Maredia*, Michigan State University

New Methods and Tools in the Documentation of Development Outcomes and Impacts of Tropical Agriculture: The CIAT Experience

*Ricardo A. Labarta*, International Center for Tropical Agriculture

### **2132 The Use of Academic Performance Metrics when Evaluating Faculty, Programs, and Departments**

*Exeter, 3rd Floor*

#### **Track Session – NAAEA Section**

Metrics are useful in making absolute and relative decisions. Universities now use electron faculty reporting systems to capture and store annual evaluations. Digital Measures and MyVita are third-party programs for gathering information. External third-party entities—e.g., Google Scholar or ResearchGate—track journal impact factors and citations rates for faculty and journals. This comprehensive look at productivity is used to evaluate discipline specific departments across multiple universities, across departments within an institution, and individual faculty members as targeted hires. The objective of this panel discussion is three-fold. First, begin a dialogue for effective use of metrics in decision making for evaluation of faculty member performance and recruitment of faculty members. Second, touch on strategies for communicating these metrics during department program reviews. Third, explore what steps the AAEA might take to offer support to third-party vendors in developing metrics.

**Organizer:** Joe L. Parcell, University of Missouri

**Moderator:** Joe L. Parcell, University of Missouri

**Discussant:** Jill L. Findeis, University of Missouri

**Panelists:** Steve A. Halbrook, University of Arkansas; Jill J. McCluskey, Washington State University; Steven C. Turner, Mississippi State University

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

### **2133 Attention and Choice: Use of Eye-Tracking in Choice Behavior Research**

*Fairfield, 3rd Floor*

#### **Track Session – Experimental Economics and IBES Sections**

Attention is an important step in the consumer decision making process, being a prerequisite for information processing. With eye-tracking technology, respondents' gaze can be recorded to monitor their visual attention when making food choices. Recent research has underlined the importance of visual processing in consumer decision-making. Visual attention is influenced by bottom-up (or stimulus-driven) and top-down (goal-directed) factors. This session focuses on visual attention during food choice and its influencing factors. Specifically, three issues related to eye-tracking and food choice are covered: (1) the role of attention in predicting choice in choice experiments, (2) the effect of the visual stimulus characteristics and the positioning on the likelihood of fixation, and (3) the effect of the hypothetical or non-hypothetical nature of the choice experiment on visual attention in terms of fixation count and fixation time.

**Organizer:** Ellen J. Van Loo, Ghent University

**Moderator:** Carola Grebitus, Arizona State University

**Discussant:** Benjamin L. Campbell, University of Georgia

The Role of Attention in Predicting Choice

**Jutta Roosen**, Technical University of Munich; Carola Grebitus, Arizona State University

Effects of Visual Stimulus Characteristics on Attention to Front-of-Pack Food Product Information

**Klaus G. Grunert**, Aarhus University; Jacob L. Orquin, Aarhus University; Erik Lahm, Aarhus University; Linda Redere, Aarhus University; Martin P. Bagger, Aarhus University; George Tsalis, Aarhus University

Does Visual Attention Differ in Hypothetical and Non-hypothetical Choice Experiments?

**Ellen J. Van Loo**, Ghent University, Belgium; Rodolfo M. Nayga, University of Arkansas; Terhi Latvala, Natural Resources Institute Finland; Wim A.J. Verbeke, University of Ghent

### **2134 Financing Innovation for Agriculture and Food: What Next? Part 2: Practitioner Perspectives**

*Hyannis, 4th Floor*

#### **Track Session – Australasia Section**

This is the second of two linked sessions on the same topic, with a mixture of speakers from government, universities, and industry. Each session will have a set of short presentations followed by a general discussion.

**Organizer:** Julian M. Alston, University of California, Davis

**Moderator:** Julian M. Alston, University of California, Davis

Lessons from the Workshop in Ravello

**Davide Gaeta**, University of Verona

Government Agency Perspectives

**Robbin Shoemaker**, National Institute of Food and Agriculture

Technology Provider Perspectives

**Eric Sachs**, Monsanto Corporation

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### **2135 Economics of Animal Health**

*New Hampshire, 5th Floor*

#### **Track Session – AEM Section**

Examines industry relevant topics in animal health including the economic impact of zoonotic diseases (avian influenza), the role of biosecurity in reducing the threat and impact of animal disease, and the impact of antibiotic-free production on animal health (chickens).

**Organizer:** Matthew J. Salois, Elanco Animal Health

**Discussant:** Michael Dicks, American Veterinary Medical Association  
The Impact of Antibiotic-free Production on Broiler Health and Welfare  
**Matthew J. Salois**, Elanco Animal Health

Economics of Zoonotic Diseases

**Thomas L. Marsh**, Washington State University

Why Do Producers Partially Implement Biosecurity Recommendations of Experts?

**Glynn T. Tonsor**, Kansas State University

### **2136 Are Online Food Sales Ready to Go Mainstream? Developments in Ecommerce**

*Provincetown, 4th Floor*

#### **Track Session – AEM Section**

For more than 30 years entrepreneur producers are experimenting with electronic marketing opportunities. However, for a number of reasons, the majority of the early endeavors were not successful. Nevertheless, over the last few years, producers and retailers are re-embracing electronic food sales as a marketing strategy. Some examples of these marketing endeavors include: Online Food Hubs, electronic food trade websites (i.e. MarketMaker), direct sales through farm websites, Amazon Fresh etc. Despite their increasing popularity, both among producers and consumers, the research regarding electronic food marketing is rather limited. The purpose of this session is to discuss and examine: i) the development of electronic marketing, ii) future opportunities both for the industry and in terms of research needs, and iii) the potential problems in the development of this marketing outlet.

**Organizers:** Kar Ho Lim, Tennessee State University; Michael Vassalos, Clemson University

**Moderator:** Michael Vassalos, Clemson University

Current Status and Perspectives of E-commerce in the Food Marketing System

**Carlos E. Carpio**, Texas Tech University; Kelly Lange, Texas Tech University

The Power of Customer Review in Online Grocery Shopping Revealed by Amazon Big Data

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

Consumer Preference for Grocery Shopping Mode: Comparing Online, Farmers Market and Supermarket

**Kar Ho Lim**, Tennessee State University; Michael Vassalos, Clemson University; Joe L. Parcell, University of Missouri; Chao Chen, Nanjing Agricultural University; Harvey S. James, Jr., University of Missouri; Danning Xu, Nanjing Agricultural University

Characteristics of Facebook Marketing Messages Used by Agribusinesses in the United States: Some Qualitative and Quantitative Results

James N. Barnes III, Mississippi State University; **Kalyn T. Coatney**, Mississippi State University

## Concurrent Sessions — Tuesday, 4:30 - 6:00 PM

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### **2137** Competitive Factors of Latin American Countries in the U.S. Fruit and Vegetable Markets

*Salon I, 4th Floor*

#### **Track Session – LAS and Senior Sections**

Global fruit and vegetable (F&V) consumption and production have been increasing steadily over several decades. Latin American countries have considerably expanded their exports to the U.S. F&V markets with different market penetration rates. Latin American exports of F&V have generated new production systems, expanded rural employment and helped reduce poverty. Notwithstanding, foodborne illness outbreaks in the U.S. have been linked to domestic and imported produce and food safety standards are getting stricter. The new Food Safety and Modernization Act (FSMA) requires both the U.S. and imported produce to comply with new food safety standards. The session analyzes U.S. market penetration rates, source of origin as an intrinsic quality attribute for U.S. consumers, F&V trends and seasonality, major south land port of entries, and the compliance challenges of the new FSMA rules and its impact on future competitiveness of produce imports.

**Organizers:** Jose A. Lopez, Texas A&M University; Jaime E. Malaga, Texas Tech University

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

Latin American Competition for the U.S. Fruit and Vegetable Markets: Trends, Cases and Lessons Learned

**Jaime E. Malaga**, Texas Tech University

A Case Study of U.S. Fruits and Vegetables Trade among NAFTA Countries

**Jose A. Lopez**, Texas A&M University - Commerce

Flow Trends and Infrastructure Needs for Land Imports of Fruits and Vegetables

**Luis A. Ribera**, Texas A&M University; Flynn J. Adcock, Texas A&M University

The Impact of Food Safety on Competitiveness of Latin American Produce Imports

**Linda S. Calvin**, USDA-Economic Research Service; Belem D. Avendano, Universidad Autonoma De Baja California



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