



2018 AAEA Annual Meeting

Washington, D.C.

Washington Marriott Wardman Park

AUGUST 5-7, 2018

2018 AAEA ANNUAL MEETING PROGRAM

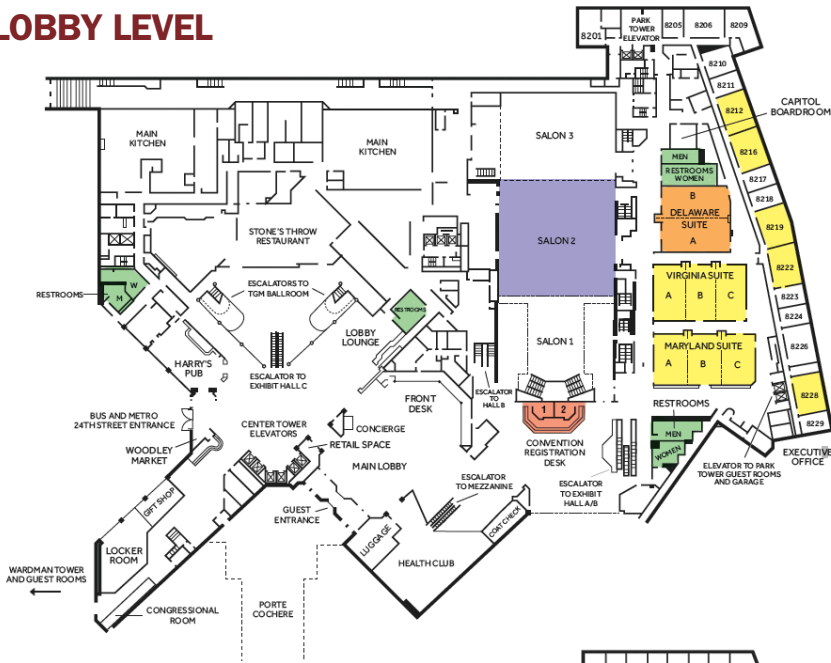
#AAEADC18 www.aaea.org/2018-annual-meeting



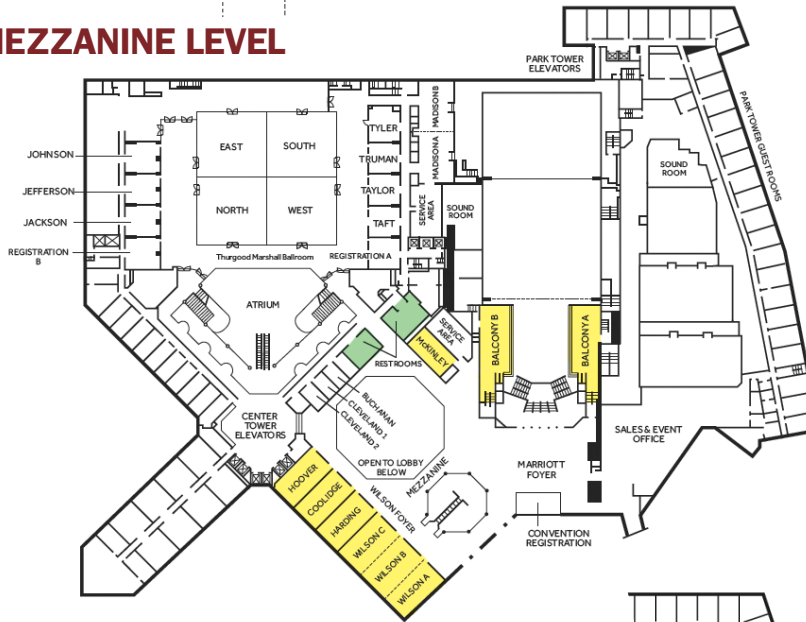
AAEA
Agricultural & Applied
Economics Association

Washington Marriott Wardman Park

LOBBY LEVEL



MEZZANINE LEVEL



EXHIBITION LEVEL



LEGEND:

- Registration Desk (Lobby Level)
- Plenary Hall (Salon II, Lobby Level)
- Concurrent Session Rooms (as follows)
 1. Exhibition Level: Roosevelt Rooms (1-5), Washington Rooms (1-6)
 2. Lobby Level: Maryland Rooms (A, B, C), Virginia Rooms (A, B, C), Park Tower Room 8212, Park Tower Suite 8216, Park Tower Suite 8219, Park Tower Room 8222, Park Tower Suite 8228
 3. Mezzanine Level: Coolidge, Harding, Hoover, McKinley, Wilson (A, B, C), Marriott Balcony (A,B)
- Connection Center (Hallway before Park Tower, Lobby Level)
- Employment Center (Delaware Meeting Room, Lobby Level)
- Poster Hall (Exhibit Hall B South, Exhibition Level)
- Reunions and Receptions (Washington Rooms 1-6, Exhibition Level)
- Restrooms (every level)



#AAEADC2018

AAEA President's Message

Welcome to the 2018 AAEA Annual Meeting in Washington, D.C.! This policy hub makes an ideal site for an AAEA caravanserai. Just as caravanserais offered hospitality to traveling merchants along the Silk Road, so our meeting offers agricultural and applied economists a gathering place to share ideas, renew old friendships, and build new ones.

We offer a banquet of sessions to stimulate and inspire. We open on Sunday evening with African Development Bank President and World Food Prize winner Akinwumi Adesina who will offer thoughts on how agricultural economists can make a difference in this world. Monday morning, David Zilberman's Presidential Address will trace the arc of contributions by applied economists and point us toward the future. At Monday evening's Awards and Fellows Recognition Ceremony, after the undergraduate Academic Bowl and the graduate Case Study Competition, we will celebrate the accomplishments of our peers, especially Fellows John Beghin, Marcel Fafchamps, Thomas Jayne, Jill McCluskey, and George Norton. Tuesday morning, in the Fellows Address, John Antle will explore Big Data at the intersection of biology and economics. Climaxing the meeting on Tuesday late afternoon, expect NYU Professor and former World Bank Chief Economist Paul Romer to inquire into how the urban-rural interface will shape the future of economic development.



Over 200 parallel sessions offer intellectual sustenance for one and all. This year's Invited Paper Sessions explore the economics of gene editing, food waste, mobile phone platforms in developing countries, markets for pollution abatement, and case studies for teaching. Organized Symposia offer interactive discussions on timely topics like renegotiating trade agreements and the future of guest worker programs. A special symposium celebrates the 100th Volume of the *American Journal of Agricultural Economics*, looking at the *AJAE's* evolution over its first century.

Track sessions have been cooked up by our 25 Sections plus partner societies. Try using the mobile app to find a Track Session topic area that titillates your intellectual palate, then look up the entire set of Track Sessions that Section has assembled. The always-popular Washington Policy Outlook from the Extension Section promises to be especially interesting in this Farm Bill year. The Association of Environmental and Resource Economists (AERE) has partnered with the ENV Section to attract some of Washington's most gifted practitioners of environmental economics at this time of policy flux.

Selected Presentation submissions hit a new high this year. So if yours was accepted, congratulations! The papers and posters selected range in focus from econometric methods to marijuana markets. Choose from regular sessions with four papers at 20 minutes each and lightning sessions with 8 papers at 10 minutes each. I particularly like the flexibility of viewing posters, with the opportunity to converse with authors.

Bracketing the main Annual Meeting are three pre-conference and seven post-conference workshops. For members wanting to increase the impact of their work by communicating it more effectively, we are partnering with the American Academy for the Advancement of Science on a workshop about communicating economic research to the media. Taking special advantage of Washington D.C. are two workshops about using Federal data and one about career opportunities here.

You can shape AAEA's future by getting involved with our Association. AAEA has evolved into a very open structure. So join a Section. The sections are open to all, and they offer decentralized opportunities for leadership. If you like a section, go to its business meeting. If you are new to all this, then find sessions you like and get acquainted with the participants. The poster sessions can be great places to meet people around their research. The receptions and luncheons are fine settings for networking, but don't be shy!

I look forward to meeting you at the meeting. Members of our Association have welcomed and mentored me throughout my career. Our community is special that way. During my presidential year, I have been amazed by the diversity, strength, and depth of our community in many dimensions. I thank everyone who has contributed to these meetings and to strengthening AAEA in other ways. I especially thank the AAEA staff and Executive Director Kristen McGuire for their exceptional work in creating this professional caravanserai and sustaining our society year round.

Scott M. Swinton
AAEA President

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DOWNLOAD THE 2018 AAEA ANNUAL MEETING APP!

Check out this years’ #AAEADC18 Annual Meeting app! New features and app layout makes syncing your Annual Meeting experience easier than ever. Just look for “AAEA” in the app store.

The mobile app has many great features including:

- Access the Annual Meeting schedule and customize your agenda
- Quickly find a session room using map it
- Find sessions by subject code, author, speaker, AAEA Section Track, etc.
- Get important updates on the app through alerts
- See who’s attending and share contact information by networking with other attendees
- View local hot spots and transportation



AAEA Leadership

AGRICULTURAL & APPLIED ECONOMICS ASSOCIATION EXECUTIVE BOARD

President: Scott M. Swinton, Michigan State University

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Past Presidents

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Foster F. Elliot 1939

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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

Raymond G. Bressler, Jr.
1959

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William H. Nicholls 1961

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George E. Brandow 1963

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D. Gale Johnson 1965

Kenneth L. Bachman 1966

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Harold F. Breimyer 1969

Dale E. Hathaway 1970

Jimmye S. Hillman 1971

Vernon W. Ruttan 1972

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Kenneth R. Tefertiller 1974

James Nielson 1975

James T. Bonnen 1976

Kenneth R. Farrell 1977

R.J. Hildreth 1978

Bernard F. Stanton 1979

Richard A. King 1980

Luther G. Tweeten 1981

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Leo C. Polopolus 1983

Neil E. Harl 1984

C.B. Baker 1985

William G. Tomek 1986

Joseoh Havlicek, Jr. 1987

Daniel I. Padberg 1988

Lester V. Manderscheid 1989

Sandra S. Batie 1990

Warren E. Johnston 1991

Bruce R. Beattie 1992

James P. Houck 1993

Peter J. Barry 1994

Lawrence W. Libby 1995

Vernon Eidman 1996

Ralph D. Christy 1997

Walter J. Armbruster 1998

C. Richard Shumway 1999

John M. Antle 2000

Bruce L. Gardner 2001

Jean D. Kinsey 2002

Susan Offutt 2003

Jon A. Brandt 2004

Laurian J. Unnevehr 2005

Per Pinststrup-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

Barry K. Goodwin 2015

Jill J. McCluskey 2016

Jayson Lusk 2017

AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS (AJAE)

Editors:

Terrance Hurley, University of Minnesota

Timothy Beatty, University of California, Davis

Timothy Richards, Arizona State University

Travis Lybbert, University of California, Davis

Book & Media Review Editor:

F. Bailey Norwood, Oklahoma State University

CHOICES MAGAZINE

Editors:

Alison Davis, University of Kentucky

Kynda Curtis, Utah State University

APPLIED ECONOMIC PERSPECTIVES AND POLICY (AEPP)

Managing Editor:

Craig Gundersen, University of Illinois at Urbana-Champaign

Submitted Article Editors:

Christopher McIntosh, University of Idaho

Daniel Petrolia, Mississippi State University

Thank You to the Selected Presentations Committee

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 Washington, D.C. The committee, with the help of volunteer topic leaders and over four hundred reviewers fielded close to 1300 abstracts to create the topically diverse, high quality sessions that will be presented over the course of the 2018 Annual Meeting.

Chair: Nathan Hendricks, Kansas State University

Members:

Allen Featherstone (Board Liaison), Kansas State University
Xiang Bi, University of Florida
Jason Winfree, University of Idaho
Christiane Schroeter, California Polytechnic State University
Nathan Thompson, Purdue University
Cloe Garnache, Michigan State University
Levan Elbakidze, West Virginia University

Topic Leaders:

Abigail Okrent, USDA-Economic Research Service	Man-Keun Kim, Utah State
Aleksan Shanoyan, Kansas State University	Marco Palma, Texas A&M University
Alexander Marre, USDA-Economic Research Service	Michael Brady, Washington State University
Andrew Dillon, Michigan State	Norbert Wilson, Tufts University
Anupa Sharma, North Dakota State University	R. Karina Gallardo, Washington State University
Brady Brewer, University of Georgia	Richard (Max) Melstrom, Loyola University
Brandon McFadden, University of Florida	Ruiqing Miao, Auburn University
Christine Crago, University of Massachusetts-Amherst	Sean Cash, Tufts University
Clare Cho, USDA-Economic Research Service	Seong Yun, Mississippi State University
David Kling, Oregon State University	Simanti Banerjee, University of Nebraska-Lincoln
Desmond Ng, Texas A&M University	Sreedhar Upendram, University of Tennessee
Diane Charlton, University of Montana	Stephan Kroll, Colorado State University
Elton Mykerezi, University of Minnesota	Steven Buck, University of Kentucky
Hongli Feng, Michigan State University	Sven Anders, University of Alberta
John Bovay, University of Connecticut	Travis Smith, University of Georgia
Kari Heerman, USDA-Economic Research Service	Xiaofei Li, Mississippi State University
Kelly Cobourn, Virginia Tech	Xiaoli L. Etienne, West Virginia University
Liang Lu, University of Idaho	Xudong Rao, Wageningen University
Lindsey Higgins, California Polytechnic State University	Yangxuan Liu, University of Georgia
Lyubov Kurkalova, North Carolina A&T University	Yu (Yvette) Zhang, Texas A&M University

Thank you to all the 2018 AAEA Annual Meeting Reviewers! This year AAEA had over 400 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

REGISTRATION DESK HOURS

Lobby Level, Washington Marriott Wardman Park

Sunday, August 5, 7:30 am-7:30 pm

Monday, August 6, 7:30 am-5:00 pm

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

WI-FI ACCESS

AAEA is providing free Wi-Fi access in the Washington Marriott Wardman Park meeting space for all 2018 Annual Meeting attendees.

Wi-Fi Network: AAEA

Network Password: aaea2018

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.



AAEA Trust

- Pre-Conference Workshop: Towards Engagement and Collaboration of 1890, 1862 Federal and Private Institutions
- Post-Conference Workshop: Exploring Federal Agencies and Congress



**Center for Farm
Financial Management**

Center for Farm Financial Management

- Extension Section Reception



The Center for North American Studies, Texas A&M University

- Latin American Section Reception



CME Group

- Extension Section Lecture & Luncheon



COPAFS

Council of Professional Associations on Federal Statistics

Council of Professional Associations on Federal Statistics (COPAFS)

- Post Conference Workshop: Making the most of Federal Data



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

- Post-Conference Workshop: Exploring Federal Agencies and Congress

Farm Income Enhancement Program, The Ohio State University

- A Welcome Reception Sponsor



**HUMAN BEHAVIOR
LABORATORY**

The Human Behavior Laboratory, Texas A&M University

- Latin American Section Reception



**NORTH CENTRAL
EXTENSION
RISK MANAGEMENT
EDUCATION**

North Central Risk Management Education Center

- Extension Section Reception



**NORTHEAST
EXTENSION
RISK MANAGEMENT
EDUCATION**

Northeast Extension Risk Management Education Center

- CWAE Graduate Student Travel Award





Northeast Regional Center for Rural Development

- CWAE Graduate Student Travel Award

SENIOR SECTION

Senior Section

- Post-Conference Workshop: Exploring Federal Agencies and Congress

Southern Risk Management Education Center, University of Arkansas



- COSBAE/CWAE Speaker Series & Luncheon
- Extension Section Reception
- PC12: Towards Engagement and Collaboration of 1890, 1862 and Federal Institutions



Southern Rural Development Center

- CWAE Graduate Student Travel Award

USDA-Economic Research Service



- Pre-Conference Workshop: The Basic and Advanced Use of National Household Food Acquisition Purchase Survey (FoodAPS) to Support Research on Health and Nutrition Assistance Policy
- Post-Conference Workshop: Science Communications and Media Engagement Workshop

University of Minnesota, Understanding Dairy Markets Data Platform

- Applied Risk Analysis Lecture & Luncheon



Western Extension Risk Management Education Center

- Extension Section Reception

And a special thank you to our stylus pen sponsor!



University of Chicago Press Journals

Exhibitors

AGECON SEARCH

AgEcon Search is an online repository of over 100,000 full-text documents including conference presentations, working papers, journal articles, reports, and theses and dissertations worldwide. Subject coverage is agricultural and applied economics very broadly defined such as agribusiness, food security, energy and natural resources economics, and international trade.



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COUNCIL ON FOOD, AGRICULTURAL AND RESOURCE ECONOMICS

The Council on Food, Agricultural and Resource Economics (C-FARE) is a non-profit organization based in Washington, D.C. C-FARE promotes the work of applied economists and serves as a catalyst for incorporating economic thinking into the analysis of food, agricultural and resource decisions. We serve as a conduit between the research and outreach community and Washington, DC decision makers and stakeholders, matching expertise to public needs.



ECONOMIC RESEARCH SERVICES, USDA

The USDA's Economic Research Service produces high quality, objective research and analysis on issues affecting food, agriculture, rural America, and the environment. ERS provides free access to its research publications, mapping tools, data sets, charts, and more online. Visit ERS at www.ers.usda.gov



MICHIGAN STATE UNIVERSITY, DEPARTMENT OF AGRICULTURE, FOOD, AND RESOURCE ECONOMICS

Information about graduate programs and international development research, outreach, and capacity building.



OXFORD UNIVERSITY PRESS

Oxford University Press (OUP) is a department of Oxford University and is the oldest and largest continuously operating university press in the world. Oxford University Press is a publisher of some of the most respected and prestigious books and journals in the world. Visit our booth for free journal sample copies.



PURDUE UNIVERSITY

At Purdue University's Department of Agricultural Economics, students can specialize their studies in several areas including agribusiness management, agricultural finance, community development, farm management, industrial organization and markets, international development and policy international trade, production economics, resources and the environment, and computation science and engineering.



SAS INSTITUTE

Development and marketing of SAS analytics software designed to manage, process and analyze data to guide organizations and individuals in their decision making process.



Exhibitors

USDA/NATIONAL AGRICULTURAL STATISTICS SERVICE (NASS)

USDA, National Agricultural Statistics Service (NASS) disseminates data on every facet of U.S. agriculture. The agency conducts hundreds of surveys and issues 400 reports annually. NASS also conducts the Census of Agriculture every 5 years, providing the only source of detailed agricultural data for every county in the nation. NASS reports are available at www.nass.usda.gov.



WORLD SCIENTIFIC PUBLISHING

World Scientific Publishing is a leading international independent publisher of books and journals for the scholarly, research and professional communities. World Scientific collaborates with prestigious organizations like the Nobel Foundation and US National Academies Press to bring high quality academic and professional content to researchers and academic worldwide.



Undergraduate Recruitment Fair

Monday, 8:00 am - 4:00 pm

Marriott Foyer, Mezzanine Level

The Undergraduate Recruitment Fair gives undergraduate students who are in Washington, D.C. a chance to participate in SS-AAEA Student Section 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 Arkansas
- University of Georgia, Department of Agriculture and Applied Economics
- Purdue University
- Economics Department, South Dakota State University

Plenary Sessions

AAEA KEYNOTE ADDRESS

Sunday, August 5, 6:00 pm – 7:00 pm

Salon II, Lobby Level



Akinwumi Ayodeji Adesina, African Development Bank

Dr. Akinwumi Ayodeji Adesina is the President of the African Development Bank Group, having been elected to the position in 2015. He was awarded the 2017 World Food Prize, cited for driving change in African agriculture for over 25 years and improving food security for millions across the continent. In the same year he was the recipient of the Gene White Lifetime Achievement Award for Child Nutrition.

He previously served as Nigeria's Minister of Agriculture and Rural Development, during which he implemented bold policy reforms and created new agricultural investment programs to expand opportunities for the private sector. He has received a number of global awards for his leadership and work in agriculture.

A distinguished development economist and agricultural development expert, he was Vice-President of the Alliance for a Green Revolution in Africa (AGRA) and Associate Director at the Rockefeller Foundation in New York, where he worked for a decade in senior leadership positions, including as Regional Office Director and Representative for Southern Africa.

Dr. Adesina was Principal Economist for the International Institute of Tropical Agriculture, Principal Economist and Coordinator of the West Africa Rice Economics Task Force at the West Africa Rice Development Association and Assistant Principal Economist at the International Crop Research Institute for the Semi-Arid Tropics. He was also the President of the African Association of Agricultural Economists.

Dr. Adesina graduated in agricultural economics from the University of Ife, Nigeria, and has a PhD in Agricultural Economics at Purdue University in the United States, where he won the Outstanding PhD Thesis Award. He also won the prestigious Rockefeller Foundation Social Science Post-Doctoral Fellowship in 1988, which launched his international career in global agricultural development.

AAEA PRESIDENTIAL ADDRESS

Monday, August 6, 8:30 am – 9:30 am

Salon II, Lobby Level



David Zilberman, University of California, Berkeley

"Agricultural Economics as a Poster Child of Applied Economics: Big Data and Big Issues"

David Zilberman is Professor, Extension Specialist and holds the Robinson Chair at University of California, Berkeley's Department of Agricultural and Resource Economics (ARE). He previously served as ARE Department Chair. He established Beahrs Environmental Leadership Program and Berkeley Master of Development Practice. He is co-founder of International Consortia of Water Resources and Bioeconomy and has served as a consultant to EPA, USDA, World Bank, OECD and FAO. David's research focuses on agricultural and environmental policy, water, marketing, risk management, innovation, natural resources, biotechnology, and biofuels. He publishes widely in academic journals and for the general public. David has received many awards, including AAEA research and communication awards, and was especially honored when named AAEA Fellow. He has served in AAEA leadership positions as Director of Executive Board, associate editor of AJAE, and on numerous AAEA committees, as well as a Director of C-FARE, as a founder and committee member of the Galbraith Forum Award.

Plenary Sessions

AAEA FELLOWS ADDRESS

Tuesday, August 7, 8:30 am – 9:30 am

Salon II, Lobby Level



John Antle, Oregon State University

“Data, Economics and Computational Agricultural Science”

John Antle is a professor in the Department of Applied Economics at Oregon State University, Corvallis, Oregon, and a University Fellow at Resources for the Future, Washington, D.C. He received the Ph.D. in Economics from the University of Chicago in 1980. Previously he was an assistant and associate professor at UC Davis (1980-87) and a professor at Montana State University (1987-2010). He served on the President’s Council of Economic Advisers in Washington, D.C. (1989-90), the National Research Council’s Board on Agriculture (1991-95). He is a Fellow and past President of the American Agricultural Economics Association. He received the AAEA Journal Article of the Year (1987) and Quality of Research Discovery (2012) Awards, the American Society of Agronomy’s Presidential Award (2015), and the U.S. Department of Agriculture’s Abraham Lincoln Award (2016). He is a co-founder and Executive Committee member of the Agricultural Model Inter-comparison and Improvement Project (AgMIP). He is the lead developer of an impact assessment model (TOA-MD) being used globally for agricultural sustainability and climate impact assessment. His current research focuses on quantitative modeling and assessment of the sustainability of agricultural systems in industrialized and developing countries.

AAEA GALBRAITH FORUM

Tuesday, August 7, 6:30 pm – 7:30 pm

Salon II, Lobby Level



Paul Romer, New York University

Paul Romer, an economist and policy entrepreneur, is a University Professor at NYU and director of the Marron Institute of Urban Management. Marron deepens the fundamental understanding of cities by working with civic innovators to improve urban management. He is also the founding director of the Urbanization Project at the Leonard N. Stern School of Business. The Urbanization Project conducts applied research on the many ways in which policymakers in the developing world can use the rapid growth of cities to create economic opportunity and undertake systemic social reform.

Before coming to NYU, Paul taught at Stanford University’s Graduate School of Business. While there Paul took an entrepreneurial detour to start Aplia, an education technology company dedicated to increasing student effort and classroom engagement. To date, students have submitted over 1 billion answers to homework problems on the Aplia website.

Prior to Stanford, Paul taught in the economics departments at the University of California, Berkeley, the University of Chicago, and the University of Rochester. He is a Research Associate at the National Bureau of Economic Research and a Fellow of the American Academy of Arts and Sciences. He is a non-resident scholar at both the Center for Global Development in Washington, D.C. and the Macdonald Laurier Institute in Ottawa, Ontario. In 2002, he received the Recktenwald Prize for his work on the role of ideas in sustaining economic growth.

Paul serves on the board of trustees for the Carnegie Endowment for the Advancement of Teaching. He is also a member of the board of directors for Community Solutions, a national not-for-profit dedicated to strengthening communities and ending homelessness.

Paul earned a bachelor of science in mathematics from the University of Chicago. He earned a doctorate in economics from the University of Chicago after doing graduate work at the Massachusetts Institute of Technology and Queens University.

Speaker Series Events

CWAE AND COSBAE SPEAKER SERIES & LUNCHEON

Monday, August 6, 11:30 am – 1:00 pm

Thurgood North, Mezzanine Level

* This is a ticketed event



Mary Bohman, USDA-Economic Research Service

Mary Bohman is Administrator of the USDA-Economic Research Service (ERS), USDA's intramural, social science research and statistical agency. The ERS mission is to anticipate trends and emerging issues in agriculture, food, the environment, and rural America and conduct high-quality, objective economic research to inform and enhance public and private decision making. Mary joined ERS in 1997 and served in other leadership roles and short term assignments at the Office of Science and Technology Policy and to USDA's Under Secretary for Farm and Foreign Agricultural Services before being appointed as Administrator in 2011. From 1990 to 1997 she was on the Agricultural Sciences faculty at the University of British Columbia. Mary first worked in agriculture and rural development as a Peace Corps Volunteer for cooperative development in Togo, West Africa in the early 1980s. She received her Ph.D. from the Department of Agricultural Economics, University of California, Davis and her B.S. from the School of Foreign Service, Georgetown University.

APPLIED RISK ANALYSIS INVITED SPEAKER LECTURE AND LUNCHEON

Monday, August 6, 11:30 am – 1:00 pm

Thurgood East, Mezzanine Level

* This is a ticketed event



Robert G. Chambers, University of Maryland
"Production Uncertainty and Profitability"

Professor Chambers currently works at the Department of Agricultural and Resource Economics at the University of Maryland. He has published numerous articles, books, and book chapters on production economics, agricultural economics, econometrics, industrial organization, public economics, microeconomic theory, and agricultural policy analysis. He served as senior staff economist for agriculture at the U.S. President's Council of Economic Advisers in 1985-1986. He is a Fellow of the Agricultural and Applied Economics Association (AAEA) and has received numerous research awards from the AAEA and other professional associations. insurance markets, rate regulation, catastrophe insurance problems, urban insurance issues, workers' compensation, international insurance regulation and solvency regulation.

EXTENSION SECTION LECTURE & LUNCHEON

Monday, August 6, 11:30 am – 1:00 pm

Salon II, Lobby Level

* This is a ticketed event



James Mintert, Purdue University
"AAEA Extension Outlook Survey & the Ag Economy Barometer: Economists vs. Producers Perspective on the Ag Economy"

James Mintert is a professor and extension economist in Purdue's Department of Agricultural Economics and serves as director of the Center for Commercial Agriculture. Prior to joining the Purdue faculty, Jim was a professor, livestock marketing economist, and Extension state leader in the Department of Agricultural Economics at Kansas State University. He holds a bachelor's and a master's degree in agricultural economics from Purdue and a doctorate from the University of Missouri. Jim acquired his interest in agriculture while working on his family's farm in the Mississippi and Missouri river bottoms, just north of St. Louis, Missouri.

Recently, Jim has focused his attention on developing and producing the Purdue University-CME Group Ag Economy Barometer, the first sentiment index focused on the U.S. farm sector. Launched in fall 2015, the Ag Economy Barometer draws upon a nationwide monthly survey of 400 agricultural producers to provide insight into producers' perspective on economic conditions in the U.S. farm sector.

Meeting Timeline

SATURDAY, AUGUST 4

9:30 am – 4:00 pm

Pre-Conference Workshop (PC11): Local Brewing Industry Tour

**Offsite, meet at Marriott*

9:00 am – 3:00 pm

Pre-Conference Workshop (PC12): Towards Engagement and Collaboration of 1890, 1862, Federal and Private Institutions: A Win-Win for the Agricultural Economics & Agribusiness Professions

**Offsite Workshop at USDA-Economic Research Service*

8:30 am – 12:30 pm

Pre-Conference Workshop (PC13): The Basic and Advanced Use of National Household Food Acquisition and Purchase Survey (FoodAPS) to Support Research on Health and Nutrition Assistance Policy

**Offsite Workshop at USDA-Economic Research Service*

2:30 pm – 4:00 pm

Government Relations Committee Meeting

Congressional Agribusiness: An International Journal Business Meeting

Congressional, Lobby Level

SUNDAY, AUGUST 5

Registration Desk Hours: 7:30 am - 7:30 pm, Lobby Level

Employment Center Hours: 9:30 am - 5:00 pm, Delaware A & B, Lobby Level

Professional Headshots Hours: 1:00 pm - 6:00 pm, Lobby Level

7:30 am – 9:00 am

Section Leader Meeting

Virginia B, Lobby Level

8:00 am – 1:30 pm

AJAE Editor's Meeting

Park Tower 8222, Lobby Level

8:00 am – 3:00 pm

GSS Extension Competition

Hoover and Coolidge, Mezzanine Level

8:00 am – 12:00 pm / 12:00 pm – 3:00 pm

AEM/GSS Case Study Competition

Wilson A, B, C, Mezzanine Level

9:00 am - 10:30 am

C-FARE Board Meeting

Capitol Boardroom, Lobby Level

9:00 am – 10:00 am

FSN Section Business Meeting

Maryland B, Lobby Level

9:30 am – 10:30 am

Mentorship Committee Meeting

Virginia C, Lobby Level

Meeting Timeline

10:00 am – 11:00 am

ESIRC Committee Meeting
Virginia B, Lobby Level

10:00 am – 12:00 pm

CWAE Section Business Meeting
Maryland C, Lobby Level

10:30 am – 11:30 am

IBES Business Meeting
Maryland B, Lobby Level

10:30 am – 12:30 pm

Africa Section Business Meeting
Maryland A, Lobby Level

11:00 am – 12:00 pm

Specialty Crop Economics (SCE) Section Business Meeting
Virginia C, Lobby Level

11:00 am – 12:00 pm

Employment Services Committee Meeting
Park Tower 8216, Lobby Level

11:00 am – 12:00 pm

BEER Section Business Meeting
Park Tower 8228, Lobby Level

11:30 am – 12:30 pm

AEPP Editorial Board Meeting
Park Tower 8219, Lobby Level

11:30 am – 1:00 pm

AAEA Trust Committee Meeting
Capitol Boardroom, Lobby Level

12:00 pm – 1:00 pm

COSBAE Section Business Meeting
Maryland C, Lobby Level

12:00 pm – 1:30 pm

AFM Section Business Meeting
Virginia A, Lobby Level

12:00 pm – 2:00 pm

SS-AAEA EOHDS Spreadsheet Competition
Virginia B, Lobby Level

12:30 pm – 2:30 pm

NAAEA Business Meeting
Maryland B, Lobby Level

12:30 pm – 2:30 pm

Chicago Council on Global Affairs; Global Food & Agriculture Program
Maryland A, Lobby Level

Meeting Timeline

1:00 pm – 2:30 pm

International Section Business Meeting
Park Tower 8228, Lobby Level

1:30 pm – 2:30 pm

Econometrics Section Business Meeting
Virginia C, Lobby Level

1:30 pm – 2:30 pm

Membership Committee Meeting
Park Tower, Lobby Level

1:30 pm – 2:30 pm

AJAE Editorial Board Meeting
Park Tower 8222, Lobby Level

1:30 pm – 3:30 pm

CRENET Section Business Meeting
Park Tower 8212, Lobby Level

2:00 pm – 3:00 pm

Communications Committee Meeting
Park Tower 8216, Lobby Level

2:00 pm – 3:30 pm

Teaching, Learning, & Communication (TLC) Section Business Meeting
Virginia A, Lobby Level

2:30 pm – 3:30 pm

ENV Section Business Meeting
Park Tower 8222, Lobby Level

2:30 pm – 3:30 pm

Related Journal Editors' Meeting
Park Tower 8219, Lobby Level

2:30 pm – 3:30 pm

Finance Committee Meeting
Capitol Boardroom, Lobby Level

2:30 pm – 4:30 pm

Latin American Section Business Meeting and Reception
Virginia B, Lobby Level

3:00 pm – 4:00 pm

Experimental Economics Section Business Meeting
Virginia C, Lobby Level

3:00 pm – 4:00 pm

Senior Section Business Meeting
Park Tower 8228, Lobby Level

3:00 pm – 4:30 pm

AEM Section Business Meeting
Maryland C, Lobby Level

Meeting Timeline

3:00 pm – 5:30 pm

SS-AAEA Undergraduate Paper Competition
Wilson C, Mezzanine Level

3:30 pm – 4:30 pm

Publications Committee Meeting
Park Tower 8219, Lobby Level

3:30 pm – 5:30 pm

Extension Section Business Meeting and Reception
Maryland A, Lobby Level

3:30 pm – 5:30 pm

Australasia Section and AARES-NAB Business Meeting
Park Tower 8216, Lobby Level

4:00 pm – 5:30 pm

ARA Section Meeting
Park Tower 8222, Lobby Level

4:00 pm – 5:30 pm

Food and Marketing Policy (FAMPS) Section Business Meeting and Mixer
Maryland B, Lobby Level

4:30 pm – 5:30 pm

Choices Editorial Board Meeting
Park Tower 8219, Lobby Level

4:30 pm – 6:00 pm

Early Career Professionals Networking Reception
Virginia A, Lobby Level

4:30 pm – 6:00 pm

AEM Section Reception
Maryland C, Lobby Level

4:30 pm – 6:00 pm

China Section Business Meeting and Reception
Park Tower 8212, Lobby Level

5:00 pm – 6:00 pm

COSBAE Section & CWAE Section Reception
Virginia C, Lobby Level

6:00 pm – 7:00 pm

Keynote Address: Akinwumi Ayodeji Adesina, African Development Bank
Salon II, Lobby Level

7:00 pm – 8:00 pm

Welcome Reception
Salon I & Foyer, Lobby Level

7:00 pm – 9:00 pm

SS-AAEA Undergraduate Mixer/Academic Bowl Orientation
Maryland A & B, Lobby Level



Meeting Timeline

REUNIONS AND RECEPTIONS

8:00 pm – 10:00 pm

Various Rooms, Exhibition Level

CAES Canadian Agricultural Economics Society

Washington 6

Cornell University, Pennsylvania State University

Washington 3

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

Washington 5

North Carolina State University, University of Maryland, Virginia Tech, West Virginia University

Washington 4

MONDAY, AUGUST 6

Registration Desk Hours: 7:30 am – 5:00 pm, Lobby Level

Employment Center Hours: 9:30 am – 5:00 pm, Delaware B, Lobby Level

Connection Center Hours: 8:00 am – 6:00 pm, Hallway before Park Tower, Lobby Level

Poster Hall Hours: 8:00 am – 5:30 pm, Exhibit Hall B South, Exhibition Level

Exhibit Booth Hours: 8:00 am – 6:00 pm, Lobby Level Foyer

8:00 am – 8:30 am

AAEA Business Meeting

Salon II, Lobby Level

8:00 am – 9:00 am

Coffee/Networking Break

Lobby Foyer

8:00 am – 4:00 pm

SS-AAEA Academic Bowl

Marriott Balcony A & B and McKinley, Mezzanine Level

8:00 am – 4:00 pm

Undergraduate Recruitment Fair

Marriott Foyer, Mezzanine Level

8:30 – 9:30 am

AAEA Presidential Address: David Zilberman, University of California, Berkeley

Salon II, Lobby Level

10:00 am – 11:30 am

Concurrent Sessions (see page 37)

11:30 am – 1:00 pm

Networking Break

11:30 am – 1:00 pm

Applied Risk Analysis Invited Speaker Lecture and Luncheon

Thurgood East, Mezzanine Level

11:30 am – 1:00 pm

COSBAE & CWAE Speaker Series & Luncheon

Thurgood North, Mezzanine Level

Meeting Timeline

11:30 am – 1:00 pm

Extension Section Lecture & Luncheon
Salon II, Lobby Level

1:00 pm – 2:30 pm

Concurrent Sessions (see page 51)

1:30 pm – 4:00 pm

AEM/GSS Case Study Finals
Madison A and B Waiting Area, Mezzanine Level

2:45 pm – 4:15 pm

Concurrent Sessions (see page 66)

4:15 pm – 5:30 pm

Poster Reception
Exhibit Hall B South, Exhibition Level

5:30 pm – 6:00 pm

SS-AAEA Academic Bowl Finals
Salon II, Lobby Level

6:00 pm – 7:15 pm

AAEA Awards and Fellows Recognition Ceremony
Salon II, Lobby Level

8:00 pm – 9:00 pm

SS-AAEA Section Business Meeting
Maryland A, Lobby Level

REUNIONS AND RECEPTIONS

9:00 pm – 11:00 pm

Various Rooms, Exhibition Level

China Agricultural University, Nanjing Agricultural University, Zhejiang University

Washington Foyer

Oregon State University, Washington State University, University of Idaho

Washington 5

Michigan State University, The Ohio State University

Washington 3

Purdue University, University of Illinois at Urbana-Champaign

Washington 1

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

Washington 2

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

Washington 4

Iowa State University, University of Minnesota, University of Wisconsin-Madison

Washington 6

Meeting Timeline

TUESDAY, AUGUST 7

Registration Desk Hours: 7:30 am – 4:00 pm, Lobby Level

Employment Center Hours: 9:30 am – 4:00 pm, Delaware B, Lobby Level

Connection Center Hours: 8:00 am – 6:30 pm, Hallway before Park Tower, Lobby Level

Exhibit Booth Hours: 8:00 am – 4:15 pm, Lobby Foyer

Poster Hall Hours: 8:00 am – 4:30 pm, Exhibit Hall B South, Exhibition Level

8:00 am – 9:00 am

Coffee/Networking Break

Lobby Level

8:30 am – 9:30 am

AAEA Fellows Address: John Antle, Oregon State University

Salon II, Lobby Level

10:00 am – 11:30 am

Concurrent Sessions (see page 79)

11:30 am – 12:45 pm

Poster Reception

Exhibit Hall B South, Exhibition Level

11:30 am – 12:30 pm

Galbraith Committee Meeting

Capital Board Room, Lobby Level

11:40 am – 12:15 pm

C-FARE Report, Appreciation, and Awards

Virginia A, Lobby Level

11:45 am – 12:45 pm

Working with the Media Session

Maryland A, Lobby Level

1:00 pm – 2:30 pm

Concurrent Sessions (see page 93)

2:45 pm – 4:15 pm

Concurrent Sessions (see page 109)

4:30 pm – 4:45 pm

Coffee/Networking Break

Connection Center

4:45 pm – 6:15 pm

Concurrent Sessions (see page 122)

6:30 pm – 7:30 pm

AAEA Galbraith Forum: Paul Romer, New York University

Salon II, Lobby Level

7:30 pm – 8:30 pm

Closing and International Reception

Salon I & Foyer, Lobby Level

8:00 pm – 9:00 pm

Post-Conference Workshop (PC57): Exploring Federal Agencies & Tour Mandatory Tuesday Meeting

Wilson A, Mezzanine Level

Meeting Timeline

WEDNESDAY, AUGUST 8

8:00 am – 12:00 pm

BIFAD Meeting
Madison A & B, Mezzanine Level

8:00 am – 4:00 pm

Post Conference Workshop (PC54): Making the Most of Federal Data
Off-site: USDA-Economic Research Service

8:00 am – 5:00 pm

Post-Conference Workshop (PC51): NIFA Agricultural Economics and Rural Communities Project Directors Workshop
Maryland A, B, & C, Lobby Level

8:00 am – 6:00 pm

Post-Conference Workshop (PC53): Extension Section Agricultural Tour
Off-site, meet in Marriott Main Lobby

8:30 am – 1:00 pm

Post-Conference Workshop (PC52): Science Communications and Media Engagement Workshop
Wilson A, B, & C, Mezzanine Level

8:30 am – 4:30 pm

Post Conference Workshop (PC55): The Convergence of Policy Issues in Produce Research
Off-site: USDA-Economic Research Service

8:30 am – 4:30 pm

Post Conference Workshop (PC56): Workshop for the Economics of Animal Health & Biosecurity (Two-day event)
Off-site: USDA-Economic Research Service

9:00 am – 4:30 pm

Post Conference Workshop (PC57): Exploring Federal Agencies & Congress
(Two-day event, MUST attend Tuesday evening at Marriott)
Off-site: USDA-Whitten Building & Tours

Posters

Exhibit Hall B South, Exhibition Level

Posters will be on display on Monday or Tuesday, with poster authors available during the Poster Reception on Monday from 4:15 pm – 5:30 pm, and the Poster Reception on Tuesday from 11:30 am - 12:45 pm. The M or T at the beginning of each poster number defines which day the poster will be on display. As a reminder to authors, any posters that are not removed by 4:00 pm on Tuesday will be discarded. Setup and take down times for each day are below:

MONDAY POSTERS

Poster Setup: Sunday, August 5, 2:00 pm – 4:00 pm
Monday, August 6, 7:00 am - 8:00 am

Poster Reception: Monday, August 6, 4:15 pm – 5:30 pm

Poster Take Down: Monday, August 6, 5:30 pm – 6:30 pm

TUESDAY POSTERS

Poster Setup: Tuesday, August 7, 7:00 am – 8:00 am

Poster Reception: Tuesday, August 7, 11:30 am - 12:45 pm

Poster Take Down: Tuesday, August 7, 4:30 pm - 5:15 pm

Agribusiness Economics and Management - Poster Session

- M001** **Source of Total Factor Productivity Change with Heterogeneity: An Empirical Analysis of Two-Grain Producing Regions in Norway**
Habtamu Alem, Norwegian University of Life Sciences
- M002** **Value Chain Analysis of Groundnut Sub-sector in Kwara State, North-Central Nigeria**
Khadijat Busola Amolegbe, University of Ilorin; Nana A. Abubakar, University of Ilorin
- M003** **Can ICT Help Overcome Infrastructure Challenge in Accessing Agricultural Extension? Evidence from Malawi**
Hitomi Ho, University of Illinois at Urbana-Champaign; Paul E. McNamara, University of Illinois at Urbana-Champaign; Han Bum Lee, University of Illinois at Urbana-Champaign
- M004** **Examining the Productivity Growth of U.S. Electric Generation Plants using the Biennial Malmquist Index Approach**
Krishna Pokharel, United States Department of Agriculture; Melissa Lynes, Energy Information Administration; Allen M. Featherstone, Kansas State University; David W. Archer, USDA-Agricultural Research Service
- M005** **Sell, Feed, or Store: A Real Options Approach to Decision-Making Among Poultry Farmers in Nigeria**
Samantha Padilla, Michigan State University; Lenis S. Liverpool-Tasie, Michigan State University
- M006** **The End of Ghost Cattle Drives**
Justin R. Benavidez, Texas A&M University; Charles Martinez, Texas A&M University; Anastasia W. Thayer, Texas A&M University
- M007** **The Effect of Marketing Farm Products on Household Income**
Felipe Silva, University of Nebraska-Lincoln; Mateus C R Neves, Federal University of Vicosa; Carlos Otávio Freitas, Federal University of Rio de Janeiro; Marcelo J. Braga, Federal University of Vicosa
- M008** **Soil Conservation Practices Adoption in Northern Great Plains: Economic vs. Stewardship Motivations**
Tong Wang, South Dakota State University; Hailong Jin, South Dakota State University; Bishal Kasu, South Dakota State University; Jeffrey Jacquet, The Ohio State University; Sandeep Kumar, South Dakota State University
- M009** **Can U.S. Agriculture Provide Agro-Pharms for Malaria Treatment?**
Chong Zhao, Department of Agricultural Economics, Purdue University; Gregory J. Colson, University of Georgia; Hazel Wetzstein, Purdue University; Michael E. Wetzstein, Purdue University
- M010** **Consumer Proximity and Brand Loyalty: A Case Study of Craft Soda in Kentucky**
Samane Zare, University of Kentucky; Mahdi Asgari, University of Kentucky; Whitney Crume, University of Kentucky; Timothy A. Woods, University of Kentucky; Yuqing Zheng, University of Kentucky

Posters

M011 A Structural Equation Model of Farm Performance

Eric T. Micheels, University of Saskatchewan; Nick Paulson, University of Illinois at Urbana-Champaign; Tristan D. Skolrud, University of Saskatchewan

M012 Heterogeneous Demand for Quality Soybean in Northern Ghana

Edward Martey, University of Illinois at Urbana-Champaign; Peter D. Goldsmith, University of Illinois at Urbana-Champaign

M013 Complementarity Between Production Activities and Resource Use: Partial Budget Analysis vs. Linear Programming

Luis M. Pena-Levano, University of Florida; Jess Lowenberg-Deboer, Harper-Adams University; John H. Sanders, Purdue University; Paul Preckel, Purdue University; Kevin Jerez, South Dakota State University

M014 The Effects of a Largescale Fertilizer Education Program in China on Fertilizer Use, Yields, and Farm Income

Pingping Wang, China Agricultural University; Iowa State University; Minghao Li, Iowa State University; Wendong Zhang, Iowa State University

M015 Supply Response in Dairy Farming: Evidence from Monthly Cow-Level Data

Jared Hutchins, University of Wisconsin-Madison; Brent M. Hueth, University of Wisconsin-Madison

Ag Finance and Farm Management - Poster Session

M016 Do Farm Operators Need a Formal Crisis Management Plan: Research from Minnesota and Farm Crisis Years

Ward E. Nefstead, University of Minnesota

M017 Identifying Influential Traders by Agent Based Modelling

Thomas Kopp, University of Göttingen; Jan Salecker, University of Göttingen

M018 Do Most U.S. Farms Really Lose Money? Taxation and Farm Income Underreporting

Nigel D. Key, USDA-Economic Research Service

M019 Impact of Diversification Strategies on Financial Performance: A Multinomial Endogenous Switching Regression

Aditya R. Khanal, Tennessee State University; Ashok K. Mishra, Arizona State University; Ummey Honey, Tennessee State University

M020 What Drives Dairy Farmer Antibiotic Treatment Decisions?

Yanan Jia, Michigan State University; David A. Hennessy, Michigan State University; Hongli Feng, Michigan State University

M021 The Effect of Bank Consolidation on Agricultural Loan Availability

Chang Xu, The Ohio State University; Ani Katchova, The Ohio State University

M022 An Analysis of Hard Red Winter Wheat Convergence in Local Delivery Points

Nicholas J. Pates, Kansas State University; Elizabeth A. Yeager, Kansas State University

M023 Explaining Heterogeneity in Dutch Horticultural Output Prices

Evert Los, Wageningen University; Cornelis Gardebroek, Wageningen University

M024 Investment in Dutch Horticulture Under Credit Constraints

Cornelis Gardebroek, Wageningen University; Evert Los, Wageningen University

M025 Analysis of Cattle Grazing Effects on Profitability in a Dryland Wheat-Sorghum-Fallow Rotation Utilizing El Nino-La Nina as a Decision Variable

Noah P. Jesko, West Texas A&M University; Mallory Kay Vestal, West Texas A&M University; Bridget L. Guerrero, West Texas A&M University; R. Louis Baumhardt, USDA-Agricultural Research Service

M026 Health Uninsurance in Rural America: A Demand Side Analysis

Kwame A. Addey, North Dakota State University; William E. Nganje, North Dakota State University

M027 A Stochastic Economic Model to Assess the Effectiveness of Different Management Strategies to Mitigate the Damage Caused by the Citrus Greening

Samuel D. Zapata, Texas A&M University; Olufemi J. Alabi, Texas A&M University; Mamoudou Sétamou, Texas A&M University-Kingsville; Felipe Peguero, Texas A&M University

Posters

Behavioral & Institutional Economics - Poster Session

- M028** **Contract Design in China's Rural Land Rental Market: Contractual Flexibility and Rental Payment**
Ziyan Yang, University of Maryland
- M029** **The Economic Returns to Communist Party Membership: Evidence from the Vietnamese Labor Market**
Nguyen Vuong, University of Maine; Xuan Chen, Emory University
- M030** **The Asymmetric Response of Farmers to the Expected Change of Rubber Price: The Roles of Sunk Cost and Path Dependency**
Shi Min, Peking University; Xiaobing Wang, Peking University; Min Liu, Peking University; Huang Jikun, Peking University
- M031** **Risk Preferences Among Argentine Farmers**
M. Jimena Gonzalez Ramirez, Manhattan College; Poonam Arora, Manhattan College; Guillermo P. Podesta, University of Miami
- M032** **The Legacy of Past Institutions in Explaining Variation in Entrepreneurship Across Space**
Annette Kendall, University of Missouri
- M033** **Gender, Knowledge and Power: A Case Study of Market Queens in Ghana**
Lilli Scheiterle, University of Hohenheim; Regina Birner, University of Hohenheim
- M034** **Do Environmental Conditions Impact Family Relations and Mental Health? A Longitudinal Study**
Mengyao Li, University of Georgia; Xin Zhang, Beijing Normal University; Susana Ferreira, University of Georgia; Travis A. Smith, University of Georgia
- M035** **Moral Foundations and Consumer Preferences for Livestock Production Practices**
Violet Muringai, University of Alberta; Ellen W. Goddard, University of Alberta

Demand and Price Analysis - Poster Session

- M036** **Farmers' Willingness to Pay for Quality Seed: What Role Does Credence, Experience, and Observation Play?**
Mywish K. Maredia, Michigan State University; Robert S. Shupp, Michigan State University; Nathalie M. Me-Nsope, Michigan State University; Dieudonne Ilboudo, INERA; Edward Opoku, Michigan State University
- M037** **To Encore or Not? When a Patent Expires: The U.S. Soybean Case**
Jie Feng, University of Wisconsin-Madison; Guanming Shi, University of Wisconsin-Madison
- M038** **Hoarding Behavior in Response to the EISA "Light Bulb Ban"**
Xiao Dong, The Ohio State University; Allen Klaiber, The Ohio State University
- M039** **Local Bias in Fluid Milk Consumption**
Binod Khanal, University of Connecticut; Rigoberto A. Lopez, University of Connecticut; Azzeddine M. Azzam, University of Nebraska-Lincoln
- M040** **Seasonality in the Cost of Nutritious Diets by Region in Tanzania**
Yan Bai, Tufts University; William A. Masters, Tufts University
- M041** **Korea-Chile Free Trade Agreement and Imported Chilean Grape Demand in Korea Considering the Substitutable Fruits Basket**
Hanpil Moon, Korea Rural Economic Institute; Jun Ho Seok, National Institute of Agricultural Science; Soo-Eun Kim, Jeonbuk Institute
- M042** **Sequential Auctions for Live Cattle: Does Order Matter?**
Yunhan Li, University of Georgia; J. Scott Shonkwiler, University of Georgia
- M043** **Will Income or Population be the Main Driver of Food Demand Growth to 2050?**
Anton C. Yang, Purdue University; Christophe Gouel, Institut National de la Recherche Agronomique; Thomas W. Hertel, Purdue University
- M044** **Assessing the Effectiveness of Inter-Regional Trade in Ghana's Soybean Markets**
Edward Martey, University of Illinois at Urbana-Champaign; Nicolas Gatti, University of Illinois at Urbana-Champaign; Peter D. Goldsmith, University of Illinois at Urbana-Champaign

Posters

- M045** **The Relationship of Agricultural Crop Prices with Fuels Prices: Does Econometric Method and/or Frequency of Data Matter?**
Zabid Iqbal, Bangladesh Institute of Development Studies
- M046** **Quantifying the Announcement Effects in the U.S. Lumber Market**
Zarina Ismailova, West Virginia University; Shishir Shakya, West Virginia University; Xiaoli L. Etienne, West Virginia University
- M047** **Household Expenditures on Food and Beverages by Retail Outlets in the United States**
Keehyun Lee, Texas A&M University; Oral Capps Jr., Texas A&M University
- M048** **Impact of the Flint Water Crisis (FWC) on Demand for Bottled Water in the United States**
Binod Khanal, University of Connecticut; John Bovay, University of Connecticut
- M049** **Identifying Price Competitiveness of Domestic and Local Coffee Franchises**
Seung Gyu Kim, Kyungpook National University; Jaewon Jung, Rural Development Administration
- M050** **Welfare Effects of Price Insulation in Small Island Nations: The Case of Rice Subsidy in Mauritius**
Roshini Brizmohun, Auburn University
- M051** **Improving Cost of Gain Forecast for Feeder Cattle**
Brian P. Mulenga, Oklahoma State University; Derrell Peel, Oklahoma State University; Kellie Curry Raper, Oklahoma State University

Environmental and Nonmarket Valuation - Poster Session

- M052** **Sauce for the Goose is Not Sauce for the Gander: Assessing the Heterogeneous Impact of Climate Change on Bird Biodiversity in United States**
Luoye Chen, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign
- M053** **Decoupling Values of Agricultural Externalities According to Scale: A Spatial Hedonic Approach in Brittany**
Abdel Ossen, INRA; Francois Bareille, INRA; Pierre Dupraz, INRA
- M054** **Valuing the Recreation Visits to Florida Springs: Benefits Estimates from TCM and CVM**
Qianyan Wu, University of Florida; Xiang Bi, University of Florida
- M055** **Environmental Policy Design When Consumers are Environmentally Conscious and Have Future Considerations**
Kiana Yektansani, Washington State University; Ana Espinola-Arredondo, Washington State University
- M056** **Environmental and Technical Efficiencies of U.S. Dairy Farming**
Shuwei Zeng, University of Wisconsin-Madison; Xiaodong Du, University of Wisconsin-Madison; Brian W. Gould, University of Wisconsin-Madison
- M057** **The Effect of Agri-Marketing Facilities Location on Nearby House Price -The Case of the Agricultural Wholesale Market and Supermarket in Korea**
Ji-soo Kwon, Chung-Buk National University; So-Jin Kim, Chung-Buk National University; Hyeon-woong Kim, Chung-Buk National University; Do-il Yoo, Chung-Buk National University
- M058** **Consumer Preference for Bio-Based Batteries**
Youngran Choi, Washington State University; Kuan-Ju Chen, Washington State University; Thomas L. Marsh, Washington State University
- M059** **The ENSO Cycle and State Abatement Policies**
Devin L. Gray, Washington State University
- M060** **How Does Shale Gas Development Affect Housing Values in Rural Areas**
Zachary T. Keeler, West Virginia University; Heather Stephens, West Virginia University
- M061** **An Investigation of the Impacts of Rail Accidents on Property Values in the Era of Unconventional Oil**
Chuan Tang, Iowa State University; Jeffrey Czajkowski, University of Pennsylvania; Martin D. Heintzelman, Clarkson University; Marilyn Montgomery, University of Pennsylvania; Minghao Li, Iowa State University

Posters

M119 Mitigating Residential Flood Risk by Elevation Retrofitting
Sarah C. Anderson, University of Georgia; Warren Kriesel, University of Georgia

Experimental Economics - Poster Session

M062 Measuring Risk Aversion Using Indirect Utility Functions: A Laboratory Experiment
Seyyed Ali Zeytoon Nejad Moosavian, North Carolina State University; Robert Hammond, North Carolina State University; Barry K. Goodwin, North Carolina State University

M063 Measuring Attitudes Toward Uncertainty: Experimental Evidence on Group Selection Effect
Asad Karim Khan Priyo, North South University; Kanti Ananta Nuzhat, North South University; Ahsanuzzaman Ahsanuzzaman, North South University

M064 Consumer Willingness-to-Pay for Blemished Fresh Produce and Its Implications for Food Waste
Chloe D. Henson, Mississippi State University; Alba J. Collart, Mississippi State University; Matthew G. Interis, Mississippi State University; Josh Maples, Mississippi State University

M065 Role of Regret in Farmers' Land Conversion Choices: Results from a Dynamic Economic Experiment
Mary Doidge, Michigan State University; David A. Hennessy, Michigan State University; Hongli Feng, Michigan State University

M066 Food Anticipation Enhances Cognitive Ability of Overweight and Obese in the Presence of Hunger
Michelle Segovia, Texas A&M University; Marco A. Palma, Texas A&M University; Rodolfo M. Nayga, University of Arkansas

M067 Consumers' Willingness to Pay for Nutritional Information on Wine Labeling: Evidences from Italy
Azzurra Annunziata, University of Naples Parthenope; Riccardo Vecchio, University of Naples Federico II; Angela Mariani, University of Naples Parthenope

Food and Agricultural Marketing - Poster Session

M068 Internet Search Volume Data as a Predictor of Consumers' Daily Food Consumption
Sung-Yong Kim, Gyeongsang National University; Taeyoung Kim, Gyeongsang National University; Kyunsik Lee, Gyeongsang National University

M069 Hedonic Price Analysis: A View of the Wine Industry in Kentucky
Jiaji Liang, University of Kentucky; Wuyang Hu, University of Kentucky

M070 E-Commerce Adoption in the Amazon Era: Evidence from the Green Industry
Ariana Torres, Purdue University; Bridget Behe, Michigan State University; Susan Barton, University of Delaware

M071 Consumer Demand and Variety Seeking with Regards to U.S. Vegetable Juice Market: An Application of Entropy Index Augmented Semiparametric Censored Quadratic Almost Ideal Demand System
Senarath Dharmasena, Texas A&M University; Oral Capps Jr., Texas A&M University

M072 Estimating Retail Organic Price Premiums for Snack Foods Using Scanner Data from 2013 to 2016
Andrea C. Carlson, USDA-Economic Research Service; Megan Waldrop, Washington State University

M073 If a Picture is Worth 1,000 Words, What Words Would They Be? A Pictorial Best-Worst Scaling Experiment Involving Food Production Systems
Courtney L. Bir, Purdue University; John Lai, Purdue University; Nicole Olynk Widmar, Purdue University; Nathanael M. Thompson, Purdue University; Jodee Ellett, Purdue University

M074 Drivers of Consumers' Revealed Preferences for Extrinsic Quality Attributes: Evidence from the Rice Sector in South and Southeast Asia
Subir K. Bairagi, International Rice Research Institute; Christopher R. Gustafson, University of Nebraska-Lincoln; Marie Custodio, International Rice Research Institute; Jhoanne Ynion, International Rice Research Institute; Matty Demont, International Rice Research Institute

M075 Consumer Preferences for Country of Origin Labelling on Select Dairy Products
Amanda Norris, University of Guelph; John Cranfield, University of Guelph

Posters

- M076** **How Consumer Awareness and Generic Promotions Drive Demand: The Case of Orange Juice**
Yan Heng, University of Florida; Ronald W. Ward, University of Florida; Lisa A. House, University of Florida; Marisa L. Zansler, Florida Department of Citrus
- M077** **An Ex-Ante Assessment of Consumer Response to Proposed Pecan Industry Federal Marketing Order Initiatives**
Sharon P. Kane, University of Georgia; Gregory J. Colson, University of Georgia; Benjamin L. Campbell, University of Georgia
- M078** **Is Organic Farming Risky? Overcoming Crop Insurance Barriers to Expanding Organic Food Production and Markets**
Eric Belasco, Montana State University
- M079** **Consumer Willingness-to-Pay for Local Produce: The Case of New York Broccoli**
Jiayi Dong, Cornell University
- M080** **Optimal Timing of Insect Control in Food Processing Facilities: A Real Options Approach**
Suling Duan, Oklahoma State University; Brian D. Adam, Oklahoma State University
- M081** **Local Food System Vitality – Looking at Components Across Consumer Age Groups**
Mahla Zare Mehrjerdi, University of Kentucky; Jairus Rossi, University of Kentucky; Alison Davis, University of Kentucky; Timothy A. Woods, University of Kentucky
- M082** **Comparing Consumers' Willingness to Pay for Organic, Local, Fair Trade, Low Carbon Footprint Tomatoes Across Three Different Marketing Outlets**
English L. Ratliff, Clemson University; Michael Vassalos, Clemson University; Marzieh Motallebi, Clemson University
- M083** **Estimating Willingness-to-Pay for Senior-Friendly Foods Using a Double-Blinded Dichotomous Choice Approach in South Korea**
Sanghyo Kim, Korea Rural Economic Institute

Food and Agricultural Policy Analysis - Poster Session

- M084** **Crop Insurance Under Restricted Access to Financial Markets**
Daniel C. Voica, Massey University
- M085** **The Incidence of Agricultural Subsidies on Farmland Cash Rents: Evidence From the Conservation Reserve Program**
Haoluan Wang, University of Maryland
- M086** **Food Sales Taxes on Household Food Spending: Application of a Censored Cluster Model**
Diansheng Dong, USDA-Economic Research Service; Yuqing Zheng, University of Kentucky; Hayden Stewart, USDA-Economic Research Service
- M087** **Influencing Factors on Farmers' Participation Decision for New Technology Pilot Projects in South Korea: Focusing on Innovative Attitude of Farmers and Information Channels**
Jun Ho Seok, National Institute of Agricultural Science; Sang-Heon Oh, National Institute of Agricultural Sciences; Sung-Won Jang, National Institute of Agricultural Sciences; Hanpil Moon, Korea Rural Economic Institute
- M088** **Pollinator Valuation Measures and Policy Analysis**
Peyton M. Ferrier, USDA-Economic Research Service; Randal R. Rucker, Montana State University; Walter N. Thurman, North Carolina State University
- M089** **Cashless or Less-Cash? Demonetization and Agricultural Decision-Making in India**
Pallavi Shukla, University of Illinois at Urbana-Champaign; Hemant K. Pullabhotla, University of Illinois at Urbana-Champaign; Kathy Baylis, University of Illinois at Urbana-Champaign
- M090** **Spillover Effects During Product Crises: Evidence from the Food Industry**
Nam Nguyen, Utah State University; Veronica F. Pozo, Utah State University
- M091** **Synthetic Control Evidence on Aggregate Impacts of China's Return to Family Farming**
John Gibson, University of Waikato
- M092** **Pay Me to Choose Healthy?**
Samir Huseynov, Texas A&M University; Marco A. Palma, Texas A&M University; Michelle Segovia, Texas A&M University

Posters

- M093** **Informing Policies on Sustainable Water Uses in a Developing Country Setting: Assessing the Value of Water in Uruguay**
Miguel A. Carriquiry, Universidad de la Republica
- M094** **Food System Transformation and Diet Quality Among a Rising Middle Class in Mozambique**
Jennifer C. Smart, International Food Policy Research Institute; David L. Tschirley, Michigan State University; Francis C. Smart, Michigan State University
- M095** **How Does Eliminating Quotas Affect Firm Investment? Evidence from Dairy Farms**
Loic Levi, AGROCAMPUS-OUEST; Jean-Paul Chavas, University of Wisconsin-Madison
- M096** **Can the South East Asian Rubber Cartel Manipulate International Rubber Prices?**
Thomas Kopp, University of Göttingen; Bernhard Dalheimer, University of Göttingen; Bernhard Bruemmer, University of Göttingen; Mirawati Yanita Herlambang, University of Jambi; Zulkifli Alamsyah, University of Jambi
- M097** **Consumers Perceptions of Their Own Food Waste. Evidence from WTP Estimates and Premeditated Waste**
Kara R. Grant, Washington State University; R. Karina Gallardo, Washington State University; Jill J. McCluskey, Washington State University; Bidisha Mandal, Washington State University
- M098** **Potential Budgetary Impacts of Introducing Risk Based Payments in the European Union Common Agricultural Policy**
Simone Pieralli, European Commission; Ignacio Perez Dominguez, European Commission
- M099** **Agricultural Policy Support in the 21st Century: A Political Economy Analysis**
Julian Aramburu, Yale University; Carmine Paolo De Salvo, Inter-American Development Bank
- M100** **Evolutions in U.S. Crop and Livestock Sectors: Implications for Estimating Biofuels Induced Land Use Changes**
Farzad Taheripour, Purdue University; Don Scott, Mount Olive College; Wallace E. Tyner, Purdue University
- M101** **Significance of Risk Mitigation for Creating and Enabling Environment for Agricultural Policy Implementation in Sub-Saharan Africa**
Aakanksha Melkani, Michigan State University

Food Safety and Nutrition - Poster Session

- M102** **Do Food Processing Firms Benefit from Food Safety Guidelines? Evidence from Ghana**
Kwaw S. Andam, International Food Policy Research Institute; Catherine R. Ragasa, International Food Policy Research Institute; Seth Asante, International Food Policy Research Institute
- M103** **Farmers' Motivations to Adopt Nutrition Incentive and Farm to School Programs**
Megan Lehnerd, Tufts; Jennifer M. Sacheck, George Washington University; Tim Griffin, Tufts University; Jeanne P. Goldberg, Tufts University; Sean B. Cash, Tufts University
- M104** **Market Incentives for Safe Foods: An Examination of The Effect of Food Recalls on Firms' Stock Prices**
Daemyung Lee, North Carolina State University; Kathryn A. Boys, North Carolina State University
- M105** **Conflicting Choices: Food vs Health. Are we Spending or Wasting Health?**
Daniel C. Voica, Massey University
- M106** **Effect of Pesticide Use on Farmers' Health in Vietnam**
Xuan Chen, Emory University; Nguyen Vuong, University of Maine
- M107** **Duration Dependencies of Non-Purchasing Period in Response to Highly Pathogenic Avian Influenza: Evidence from Purchasing Patterns of Chicken**
Mira Choi, Korea University; Byeong-il Ahn, Korea University
- M108** **Information, Pesticide Safety Behaviors, and Perceived Pesticide Health Risks in Maputo and Lusaka**
Joseph C. Goeb, Michigan State University; Jennifer C. Smart, International Food Policy Research Institute; Jason E. Snyder, Michigan State University; David L. Tschirley, Michigan State University
- M109** **The Effect of Food Away from Home on the Balanced Dietary Intakes and Obesity**
Dahye Kim, Korea University; Byeong-il Ahn, Korea University

Posters

M110 Perceptions of Water Quality, Safety, and Volume Among Food Processing Firms in Shanghai

Wojciech J. Florkowski, University of Georgia; *Qijun Jiang*, Shanghai Ocean University

M111 Food Safety Regulations on Unobservable Qualities in Developing Countries

Vivian Simmons, Kansas State University; *Jisang Yu*, Kansas State University

Household and Labor Economics - Poster Session

T001 Immigration and Economic Performance in the U.S.: Evidence from the 50 States

Zach Rutledge, University of California, Davis; *Tim Kane*, Stanford University

T002 Opportunity Cost of Time, Income, Education and Food Away from Home Consumption Expenditures by Type of Facility: Evidence from Transition Albania

Ayuba Seidu, California State University, Stanislaus

T003 Rurality and Income Inequality in the United States, 1975-2015

Thomas Hertz, USDA-Economic Research Service; *Andrew Silva*, The Graduate Institute of International and Development Studies, Geneva

T004 The Impact of the Universal Free School Lunch Program on Household Consumption in Korea

Elizabeth J. Kim, University of Illinois at Urbana-Champaign

T005 Why do Agricultural Labor Households Self-Select out of India's Employment Guarantee Scheme? The Role of Gender, Social Status, Education and Labor Constraints

Rakhe P. Balachandran, Louisiana State University; *Maria Bampasidou*, Louisiana State University

T006 The Impact of the Minimum Wage on Employment, Earnings, Wages, and Hours in the U.S. Agricultural Sector

Amy Kandilov, RTI International; *Ivan T. Kandilov*, North Carolina State University

Industrial Org./Supply Chain Management - Poster Session

M112 Private Supply Management and Price Behavior in the United States Potato Industry

Yuliya Bolotova, Clemson University

M113 Contract Farming, Disease Outbreaks and Inclusive Growth in Rural China

Li Zhou, Nanjing Agricultural University; *Xinyue Liu*, Nanjing Agricultural University; *Jennifer E. Ifft*, Cornell University

M114 Modeling Quality Differentiation: Does the Choice of Model Matter?

Nathalie Lavoie, University of Massachusetts Amherst

M115 An Analysis of the Specialty Egg Market: Hedonic Price with Fixed Brand Effects vs. Random Coefficient Discrete Choice Model

Eliza M. Mojduszka, USDA-Office of the Chief Economist

M116 Welfare Impacts of Optimal Virtual Bidding in a Multi-Settlement Electricity Market with Transmissions Line Congestion

Hyungkwan Kim, Purdue University; *Paul Preckel*, Purdue University; *Douglas Gotham*, Purdue University; *Andrew Liu*, Purdue University

M117 Supply Shocks and Market Power on Pricing: The Case of the Fluid Milk Market

Youngjune Kim, Kansas State University; *Dustin L. Pendell*, Kansas State University; *Tian Xia*, Kansas State University

M118 U.S. Organic Farms' Choice of Certifiers: Inertia and Neighbors Effect

Mehdi Nemati, University of Kentucky; *Yuqing Zheng*, University of Kentucky; *Samane Zare*, University of Kentucky; *Lijiao Hu*, University of Kentucky

Posters

International Development - Poster Session

- T007** **Determinants of Soybean Adoption and Performance in Northern Ghana**
Courtney Tamimie, University of Illinois at Urbana-Champaign; *Peter D. Goldsmith*, University of Illinois at Urbana-Champaign
- T008** **Temporary Migration as a Strategy Against Weather Shocks: Evidence from Rural India**
Yong J. Kim, Purdue University; *Juan Pablo Sesmero*, Purdue University; *Brigitte S. Waldorf*, Purdue University
- T009** **Women's Self-Help Groups, Decision-Making, and Improved Agricultural Practices in India**
Kalyani Raghunathan, International Food Policy Research Institute; *Samyuktha Kannan*, M. S. Swaminathan Research Foundation; *Agnes R. Quisumbing*, International Food Policy Research Institute
- T010** **Economic Impact of Giving Land to Refugees**
Heng Zhu, University of California, Davis; *J. Edward Taylor*, University of California, Davis; *Anubhab Gupta*, University of California, Davis
- T011** **Spousal Agreement and Women Participation in Decision Making in Rural Vietnam**
Alexandra Peralta, University of Adelaide; *Christian A. Genova II*, University of Adelaide; *Wendy J. Umberger*, University of Adelaide
- T012** **Livelihood Strategies in Rural African Villages**
Mark Musumba, Columbia University; *Cheryl A. Palm*, University of Florida; *Adam Komarek*, International Food Policy Research Institute
- T013** **Can Results-Based Prizes to Private Sector Incentivize Technology Adoption by Farmers? Evidence from the AgResults Nigeria Pilot that Uses Prizes to Incentivize Adoption of Alfasafe**
Tulika Narayan, Abt Associates Inc.; *Judy Geyer*, Abt Associates Inc.; *Kate Hausdorff*, Abt Associates Inc.; *Stephen Bell*, Abt Associates Inc.
- T014** **Do Cash Transfers Increase Poor Household Resilience? Evidence from Rural Niger**
Quentin Stoeffler, University of California, Davis; *Premand Patrick*, World Bank
- T015** **China's Collective Forest Tenure Reform Under Imperfect Village Democracy: Analyses of the Outcomes**
Jintao Xu, Peking University; *Klaus W. Deininger*, World Bank; *Juha Siikamakii*, IUCN; *Yongjie Ji*, Iowa State University and CARD; *William F. Hyde*
- T016** **Does the Intra-Household Allocation of Male and Female Agricultural Labor Depend on Distance to Markets? Evidence from Sub-Saharan Africa**
Munsu Kang, Kansas State University; *Benjamin Schwab*, Kansas State University; *Jisang Yu*, Kansas State University
- T017** **Assessing the Women's Empowerment in Agricultural Index (WEAI) and A-WEAI Using the MIMIC Approach**
Sandra M. Contreras, Kansas State University
- T018** **The Individual and Intra-Household Effects of Food Price Subsidy Reform in Odisha (India)**
Felix Naschold, University of Wyoming; *Leah EM Bevis*, The Ohio State University; *Tanvi Rao*, Cornell University
- T019** **Extension Program Impacts on Women's Empowerment via Improving Social Capital**
Jebbaraj Asirvatham, Southern Illinois University; *Han Bum Lee*, University of Illinois at Urbana-Champaign; *Paul E. McNamara*, University of Illinois at Urbana-Champaign
- T020** **Contribution of Policy Change on Maize Varietal Development and Yields in Kenya**
Latha Nagarajan, Rutgers University; *Anwar Naseem*, Rutgers University; *Carl E. Pray*, Rutgers University
- T021** **Can Rice Cultivation be a Boon to Economic Development? Evidence from States of India**
Valerien O. Pede, International Rice Research Institute; *Ashok K. Mishra*, Arizona State University

Posters

International Trade - Poster Session

- T022 Investor Responses to NAFTA's Cross-Border Trucking Provisions**
Ronald Davies, University College, Dublin; Benjamin H. Liebman, St. Joseph's University; Kasaundra Tomlin, Oakland University
- T023 Does Trade Cause Obesity? Evidence from a Cross-country Analysis**
Yu Na Lee, University of Guelph; Sylvanus Kwaku Afesorgbor, University of Guelph
- T024 China's Import Demand for Dairy Products: Implications for U.S. Dairy Exports**
Christopher G. Davis, USDA-Economic Research Service; Jason Beckman, Economic Research Service; Fred Gale, USDA-Economic Research Service; Joseph G. Cessna Jr., USDA-Economic Research Service
- T025 Effect of Trade Openness on Fertilizer Use in the Agricultural Industry: Evidence from China's Trading Partners**
Fei Nie, Huazhong Agricultural University; Juan He, Huazhong Agricultural University; Caifeng Tan, Huazhong Agricultural University; Jianpin Tao, Huazhong Agricultural University
- T026 Exploring Intra-Industry Trade Tendencies of the U.S. Beef Over Two Decades**
Lekhnath Chalise, USDA-Economic Research Institute; Keithly G. Jones, USDA-Economic Research Service
- T027 How the United States Lost its Lead in Global Soybean Trade**
Guolin Yao, Purdue University; Thomas W. Hertel, Purdue University; Farzad Taheripour, Purdue University
- T028 Impact of Asymmetric Exchange Rate Changes on the U.S. Agricultural Trade: Evidence from a Nonlinear ARDL Approach**
Byung Min Soon, University of Missouri; Deepayan Debnath, University of Missouri
- T029 The Impact of Technical Measures on Different Chinese Agricultural Exporters' Performance**
Zhongmin Xie, University of Connecticut and Renmin University of China; Xinkai Zhu, Renmin University of China; Rigoberto A. Lopez, University of Connecticut
- T030 Firm Productivity and Exports: Firm-Level Evidence from the Korean Agro-Food Industries**
Saera Oh, Korea Rural Economic Institute; Sung Ju Cho, Korea Rural Economic Institute
- T031 Brexit and the UK's Agricultural Trade**
Lorraine S. Mitchell, USDA-Economic Research Service

Natural Resource Economics - Poster Session

- T032 Risk Management Potential and Water Misallocation under Prevalent Water Rights Institutions in the Western United States: A Generalized Model**
Gi-Eu Lee, University of Nevada, Reno; Kimberly S. Rollins, University of Nevada, Reno; Loretta Singletary, University of Nevada, Reno
- T033 An Alternative Market Framework for Water Transfers when Third Party Externalities Dominate**
Keith D. Willett, Oklahoma State University; Sanchari Ghosh, Northeastern State University
- T034 Determinants of Grassland Bird Population in the United States: The Role of Land-Use Change and Pesticides Use**
Yijia Li, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign; Ruiqing Miao, Auburn University
- T035 The Land and Water Implications of Biomass Co-Firing in the MISO region**
Shanxia Sun, Shanghai University; Thomas W. Hertel, Purdue University; Brayam Valqui, Pennsylvania State University; Mort Webster, Pennsylvania State University
- T036 Welfare Analysis of Animal Disease Outbreaks**
Boris Houenou, Washington State University; Thomas L. Marsh, Washington State University
- T037 Climate and Crop Insurance: Agricultural Risk Management into the 21st Century**
Andrew Crane-Droesch, USDA-Economic Research Service; Elizabeth Marshall, USDA-Economic Research Service; Anne Riddle, USDA-Economic Research Service; Stephanie D. Rosch, USDA-Economic Research Service; Joseph C. Cooper, USDA-Economic Research Service; Steven Wallander, USDA-Economic Research Service

Posters

- T038** **An Analysis of the Forest Service Timber Sale Auctions: Pacific Northwest Region, 2001-2015**
Eliza M. Mojduszka, USDA-Office of the Chief Economist
- T039** **Country Income, Sources of Carbon Emissions and Counterfactuals**
Modhurima D. Amin, Washington State University; Syed Badruddoza, Washington State University
- T040** **Direct Community-Level Impacts of Alternative Groundwater Management Strategies over the Ogallala Aquifer in Southeastern Wyoming**
Kaila Willis, University of Wyoming; Kristiana M. Hansen, University of Wyoming; Dannele E. Peck, University of Wyoming
- T041** **Shade-Grown Coffee Adoption on Neighboring Farms: Complements, Substitutes, or Negative Spillovers?**
Ian R. McGinnis, University of New Hampshire; Shadi S. Atallah, University of New Hampshire
- T042** **The Complementarity of Irrigation Technology Adoption and Groundwater Development: Evidence from the Trifa Plain of Morocco**
R. Aaron Hrozencik, Colorado State University; Emily Burchfield, Utah State University; Dale Manning, Colorado State University; Ayman Frijja, International Center for Research in the Dry Areas
- T043** **Multivariate Analysis of Carbon Price with Energy Market, Climate Change, and Political Issues**
Do-il Yoo, Chung-Buk National University; Hyeon-woong Kim, Chung-Buk National University; Ji-soo Kwon, Chung-Buk National University; So-Jin Kim, Chung-Buk National University
- T044** **How Will the Potential of Cropland Expansion Affect the Outcomes of Pursuing Sustainable Agriculture in the U.S.?**
Nelson B. Villoria, Kansas State University; Jing Liu, Purdue University; Thomas W. Hertel, Purdue University

Production Economics - Poster Session

- T045** **Scaling Laws of Biology, Time to Slaughter and Meat Prices**
David A. Hennessy, Michigan State University
- T046** **Assessing the Economic Benefits of Direct-Seeded Rice: Evidence from China**
Fengbo Chen Sr., South China Agricultural University; Wenbiao Sha, South China Agricultural University; Ashok K. Mishra, Arizona State University
- T047** **Simulating Market and Environmental Impacts of French Pesticide Policies: A Macroeconomic Assessment**
Francois Bareille, INRA; Alexandre Gohin, INRA
- T048** **Seasonal Variation of Fed Cattle Profitability**
Minfeng Tang, Purdue University; Nathanael M. Thompson, Purdue University; Karen L. DeLong, University of Tennessee; Dayton M. Lambert, University of Tennessee; Andrew P. Griffith, University of Tennessee; Christopher M. Boyer, University of Tennessee
- T049** **Theoretical Analysis of Food Safety Modernization Act Regulations: Thresholds, Factor Complementarity, and Cooperative Solutions**
Levan Elbakidze, West Virginia University; Yiming He, West Virginia University
- T050** **Roles of Exotic Wheat Germplasms in Wheat Breeding and Their Impacts on Wheat Yield and Production in China**
Cheng Xiang, Institute of Agricultural Economics and Development, CAAS; Huang Jikun, China Center for Agricultural Policy, Peking University
- T051** **Determinants of Technical Efficiency in the Brazilian Sugarcane Agroindustry**
André F. Danelon, Luiz de Queiroz College of Agriculture; Humberto F.S. Spolador, University of Sao Paulo; Jason S. Bergtold, Kansas State University
- T052** **Does Soil Affect Yield Stability in the U.S. Crop Production?**
Xiaofei Li, Mississippi State University; Eunchun Park, Mississippi State University; Ardian Harri, Mississippi State University; Keith H. Coble, Mississippi State University
- T053** **Better Technology or Better Farmers: Exploring Frontiers**
Joshua Gill, Michigan State University; Dawit K. Mekonnen, International Food Policy Research Institute; David J. Spielman, International Food Policy Research Institute

Posters

- T054** **Models and Methods for Food Hub Location: A Comparison of Econometric vs Simulated Solutions and Policies**
Houtian Ge, Cornell University; *Stephan J. Goetz*, Pennsylvania State University; *Rebecca Cleary*, Colorado State University; *Miguel I. Gomez*, Cornell University
- T055** **A Global Analysis of Crop Supply Response to Domestic Prices**
Nathan P. Hendricks, Kansas State University; *Syed Haroon Bin Farrukh*, Kansas State University
- T056** **Characterizing the Determinants of Seeding Rate Choices**
Yuyuan Che, Michigan State University; *Hongli Feng*, Michigan State University; *David A. Hennessy*, Michigan State University
- T057** **The Economics of Perennial Orchards with Endogenous Age Classes**
Daniel Tregeagle, University of California, Davis; *Leo K. Simon*, University of California, Berkeley
- T058** **Estimating Supply Output Elasticity Differences Between Raised Without Antibiotics and Conventional Broilers**
Joanna Karavolias, University of Florida; *Lisa A. House*, University of Florida; *Matthew J. Salois*, Elanco Animal Health

Productivity Analysis and Emerging Technologies - Poster Session

- T059** **Farmer Perceptions of Precision Agriculture Technology Benefits**
Nathanael M. Thompson, Purdue University; *Courtney L. Bir*, Purdue University; *James R. Mintert*, Purdue University; *David Widmar*, Purdue University
- T060** **Benefits and Costs of Investment in Data Transmission Networks: Example of Precision and Autonomous Farming Using Drone Technology**
Christine L. Carroll, California State University, Chico
- T061** **The Economic Effect of Genomic Technology on the Forestry Industry**
Shuo Wang, University of Alberta; *Henry An*, University of Alberta; *Wei-Yew Chang*, University of British Columbia; *Chris Gaston*, University of British Columbia
- T062** **The Effect of Technological Change on Deforestation: Evidence from the Brazilian Amazon Forest**
Felipe Silva, University of Nebraska-Lincoln; *Lilyan E. Fulginiti*, University of Nebraska-Lincoln; *Richard K. Perrin*, University of Nebraska-Lincoln
- T063** **The Effect of Local Industry Competition on Firm Productivity. Evidence from the Mexican Manufacturing Industry**
Oscar Barriga-Cabanillas, University of California, Davis
- T064** **Economic Impacts of Biochar-Induced Yield Increases in the United States**
Jerome Dumortier, Indiana University – Purdue University Indianapolis; *Hamze Dokoohaki*, Iowa State University; *Amani E. Elobeid*, Iowa State University; *Dermot J. Hayes*, Iowa State University; *David Laird*, Iowa State University
- T065** **Adaptation to Climate Change: The Role of Crop Insurance**
Xiaoxue Du, University of Idaho; *Fanglin Ye*, Tianjin University of Finance and Economics

Research Methods/Econometrics/Stats - Poster Session

- T066** **A Model-Free Bubble Detection Method: Application to the World Market for Superstar Wines**
Tor N. Tolhurst, University of California, Davis
- T067** **How Much Does the Cardinal Treatment of Ordinal Variables Matter?**
Jeffrey Bloem, University of Minnesota
- T068** **Can a “Reminder” Reduce Attribute-Non Attendance in Choice Experiments?**
Daniele Asioli, University of Reading; *Claudia Bazzani*, University of Verona; *Karl-Heinz T. Bäuml*, Regensburg University; *Rodolfo M. Nayga*, University of Arkansas

Posters

- T069 Estimating Crop Yields Using Temporally and Spatially-Varying Mixtures**
Xun Lu, North Carolina State University; *Barry K. Goodwin*, North Carolina State University; *Sujit K. Ghosh*, North Carolina State University
- T070 Is There Too Much History in Historical Yield Data**
Yong Liu, University of Guelph; *Alan P. Ker*, University of Guelph
- T071 Imputation Biases in the Estimation of the Wage Effects of Immigration Status: Evidence from the National Agricultural Workers Survey**
Thomas Hertz, USDA-Economic Research Service

Resource and Environmental Policy Analysis - Poster Session

- T072 Where's the Beef? Cattle Producers' Response to Endangered Species Regulations**
Trey Malone, Michigan State University; **Richard T. Melstrom**, Loyola University Chicago
- T073 Carbon Markets and Experimental Evidence of Forestland Owners' Risk Preferences**
Mustapha Alhassan, Clemson University; *Marzieh Motallebi*, Clemson University
- T074 Cost Comparison of Climate Change Mitigation Options**
Luis M. Pena-Levano, University of Florida; *Farzad Taheripour*, Purdue University; *Wallace E. Tyner*, Purdue University
- T075 Cost of Forest Carbon Sequestration as a Response to Climate Change in the Presence of Climate Impacts**
Alla Golub, Purdue University; *Brent Sohngen*, The Ohio State University; *Yongyang Cai*, The Ohio State University; *Thomas W. Hertel*, Purdue University; *John Kim*, Pacific Northwest Research Station, USDA-Forest Service
- T076 The Effect of Including Irrelevant Alternatives in Discrete Choice Models With An Application To Recreation Demand**
John N. Ng'ombe, Oklahoma State University; *Richard T. Melstrom*, Loyola University Chicago; *Wade Brorsen*, Oklahoma State University
- T077 Size-Based Regulations, Productivity, and Environmental Quality: Evidence from the U.S. Livestock Industry**
Chen-Ti Chen, Iowa State University; *Gabriel Lade*, Iowa State University; *John M. Crespi*, Iowa State University; *David A. Keiser*, Iowa State University
- T078 A Farm-level Bioeconomic Model of Invasive Species Management: The Case of Spotted Wing Drosophila in Maine**
D. Adeline Yeh, Cornell University; *Xiaoli Fan*, University of Alberta; *Miguel I. Gomez*, Cornell University; *Francis Drummond*, University of Maine
- T079 Regional Agricultural Non-CO2 Greenhouse Gas Abatement Potential in the United States to 2030**
Jeffrey E. Petrusa, RTI International; *Shaun Ragnauth*, U.S. Environmental Protection Agency; *Jared Creason*, U.S. Environmental Protection Agency; *Katherine Antonio Sanjinez*, RTI International; *Julia Hofmann*, RTI International; *Robert H. Beach*, RTI International
- T080 Do Climate Change Induced Natural Disasters Disrupt Legal System Integrity?**
Ritika Khurana, West Virginia University; *Douglas Mugabe*, West Virginia University; *Xiaoli L. Etienne*, West Virginia University
- T081 Evidence from a Corn Belt Farmers' Survey: A Multi-Layered Analysis of Understanding Farmers' Adaption Strategies to Climate Change**
Adriana M. Valcu-Lisman, Iowa State University; *Yongjie Ji*, Iowa State University and CARD; *Catherine L. Kling*, Iowa State University; *J. Gordon Arbuckle*, Iowa State University
- T082 The Interaction of Wildfire Risk Mitigation Policies in The Presence of Heterogeneous Landowners and Spatial Externalities**
Ibtisam H. Al-Abri, University of Florida; *Kelly A. Grogan*, University of Florida
- T083 Vegetable Insurance, Moral Hazard, and Fertilizer Use: A Micro-Perspective from China**
Zhexi Zhang, China Agricultural University; *Dave Abler*, Pennsylvania State University; *Yueying Mu*, China Agricultural University

Posters

- T084** **The Impacts of Climate Change on Yields of Irrigated and Rainfed Crops: Length, Depth, and Correlation of Damages**
Iman Haqiqi, Purdue University
- T085** **The Impact of a Carbon Tax on Food Prices in Canada**
Tingting Wu, McGill University; Paul J. Thomassin, McGill University
- T086** **Carbon Sequestration Incentives in Policy Government: Application in Optimization Modeling**
Luis M. Pena-Levano, University of Florida; Paul Preckel, Purdue University; John H. Sanders, Purdue University; Kevin Jerez, South Dakota State University; Jess Lowenberg-DeBoer, Harper-Adams University
- T087** **The Impact of the Agglomeration Bonus on the Land Conservation—An Optimal Stopping Model Approach**
Yujie Lin, University of Maryland

Risk and Uncertainty - Poster Session

- T088** **Learning the Flood Risk**
Zhenshan Chen, University of Connecticut; Charles A. Towe, University of Connecticut
- T089** **Crop Insurance and its Link to Yield Variability**
Lawson Connor, North Carolina State University; Ani Katchova, The Ohio State University
- T090** **Estimating Cost of Volatility Risk in Agricultural Commodity Markets**
Lei Yan, University of Illinois at Urbana-Champaign; Philip Garcia, University of Illinois at Urbana-Champaign
- T091** **Exploiting Compulsory Crop Insurance for Assessing Adverse Selection: Evidence from the Israeli Citrus Program**
Muamar Hag Yehia, Hebrew University; Israel Finkelshtain, Hebrew University; Ziv Bar Shira, Hebrew University; Ziv Bar Nahum, Hebrew University; Barry K. Goodwin, North Carolina State University
- T092** **Measuring Adverse Selection in China's New Rural Cooperative Medical Scheme**
Ruoding Shi, Virginia Tech; Wen You, Virginia Tech
- T093** **Risk Perception and Agricultural Insurance Acceptance: Evidence from Typhoon Meranti in Fujian, China**
Jinxu Ding, Xiamen University; Chin-Hsien Yu, Southwestern University of Finance and Economics; William D. Shaw, Texas A&M University; Ye Liu, Xiamen University

Rural/Community Development - Poster Session

- T094** **Development and Inclusive Businesses in Colombia? A Case Study From The Oil Palm Supply in the Orinoquia**
Emiliano López Barrera, Purdue University; James M. Lowenberg-DeBoer, Harper Adams University
- T095** **Knowledge Spillover in China: A Firm Level Study**
Shicong Xu, The Ohio State University; Abdoul G. Sam, The Ohio State University
- T096** **The Survival of Agricultural Farms under Droughts**
Jianhong E. Mu, Texas A&M University; Bruce A. McCarl, Texas A&M University; Rebekka M. Dudensing, Texas A&M; Luis A. Ribera, Texas A&M University
- T097** **Local Foods as a Catalyst of Rural Manufacturing: The Role of New and Small Food Innovators in Employment Dynamics**
Marcelo J. Castillo, USDA-Economic Research Service; Sarah A. Low, USDA-Economic Research Service; Dawn D. Thilmany McFadden, Colorado State University
- T098** **Finding the Bottom 40 Percent: Experimental Test of Community-Based Targeting Approaches in Conflict-Prone Rural Eastern DRC**
Serge G. Adjognon, World Bank
- T099** **Will Access to Internet Affect the Subjective Well-Being of Rural Residents in China?**
Jianmei Zhao, Central University of Finance and Economics

Posters

Teaching, Communication, and Extension - Poster Session

T100 Developing a Training Program for Farm Labor Supervisors

Fritz M. Roka, University of Florida

T101 Tailoring Extension Effort for Promotion of Diversified Crop Rotation System

Tong Wang, South Dakota State University; Bishal Kasu, South Dakota State University; Jeffrey Jacquet, The Ohio State University; Sandeep Kumar, South Dakota State University

T102 Tackling Wicked Problems when Teaching Applied Economics: An Application to the Bears Ears National Monument

Amanda J. Harker Steele, University of Georgia; John C. Bergstrom, University of Georgia

National Institute of Food and Agriculture (NIFA) - Poster Session

NIFA1 Industry Clusters and the Location of Agriculture

Paul Gottlieb, Rutgers University

NIFA 2 Improving and Evaluating Community Assessment Programs: A Work in Progress

Lorie Higgins, University of Idaho

NIFA3 Assessing Agritourism's Impact on Agricultural Literacy and Consumer Behavior Towards Local Foods

Carla Barbieri, North Carolina State University; Kathryn Stevenson, North Carolina State University; Whitney Knollenberg, North Carolina State University

Types of Concurrent Sessions

INVITED PAPER SESSIONS

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

INVITED CASE STUDY PAPERS

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

ORGANIZED SYMPOSIA

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

SELECTED PRESENTATION LIGHTNING SESSION

Lightning sessions includes up to 8 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. A listing of sessions by subject can be found on page 124.

TRACK SESSIONS

Tracks are a set of multiple sessions submitted by AAEA Sections, scheduled throughout the meeting and devoted to a common interest area or topic. Sessions can be organized by a single Section or by multiple Sections to cover a wider range of topics. Track session listings by Section can be found on page 124.

NEW IN 2018

The AAEA 2018 Annual Meeting is featuring a new discussant format designed by the Selected Presentations Committee. Rather than having moderators facilitate discussion, presenters themselves will take on that role and discuss the paper immediately prior to their own. Moderators will still be responsible for making sure the rooms have proper set up, introducing the presenters, and keeping the session on track.

AAEA would like to give a special thank you to the moderators and presenters participating in these test sessions. We greatly appreciate your patience and enthusiasm with this new session format!

Test Sessions: 1016 Risk and Insurance; 1042 Climate Change and Forests; 1077 Cover Crops and Land Conservation; 2065 Farmland and Cash Rental Markets; 2075 Conflict; and 2097 Recreation and Wildlife.

Concurrent Sessions MONDAY, 10:00 AM - 11:30 AM

1001 Food Waste Economics: Opportunities and Innovations

Wilson C, Mezzanine Level

Invited Paper

The goal of this session is to identify opportunities and innovations in food waste research. Presenters will discuss: research questions, key challenges, and data availability for conducting economic research on food waste and loss; how policies targeting food waste at one node in the food system impact other upstream or downstream nodes; and the role of learning in household waste behaviors.

Discussant: Suzanne D. Thornsbury, USDA-Economic Research Service

Opportunities and Challenges in Conducting Economic Research on Food Waste and Loss

Brenna Ellison, University of Illinois at Urbana-Champaign; **Mary K. Muth**, RTI International; **Elise H. Golan**, USDA-Office of the Chief Economist

Food Waste in Upstream and Downstream Markets of the Food System

Stephen F. Hamilton, California Polytechnic State University, San Luis Obispo; **Timothy J. Richards**, Arizona State University

The Role of Incidental Learning on Reducing Household Food Waste in Free-Living Condition

Danyi Qi, The Ohio State University; **Brian E. Roe**, The Ohio State University; **John Apolzan**, Pennington Biomedical Research Center; **Raymond Allen**, Pennington Biomedical Research Center; **Corby K. Martin**, Pennington Biomedical Research Center

1002 Can Citrus Industry Survive Citrus Greening (HLB) Disease?

Wilson B, Mezzanine Level

Organized Symposium

Huanglongbing (HLB), a bacterial disease also known as citrus greening, poses a major challenge to citrus production worldwide and has become a highly visible market issue. In recent years, the disease has been rapidly spreading across the Americas, threatening the long-run sustainability of the citrus industry across the continent. In the U.S., HLB has devastated the Florida citrus industry, where production has decreased by 80% and is at its lowest level in more than 70 years; the disease also presents an increasing threat to other major citrus producing states such as California and Texas. Across the Americas, the level of HLB infection and outlook varies. In Brazil, the world's top orange juice producer and exporter, it is estimated that about 20% of its citrus trees are infected with HLB. This session will discuss the current HLB situation in the Americas, the lessons learned from HLB management, and its economic implications.

Organizer: Jose A. Lopez, Texas A&M University - Commerce

Moderator: Gustavo C. Ferreira, USDA-Economic Research Service

Panelists: **Olufemi J. Alabi**, Texas A&M University; **Gustavo C. Ferreira**, USDA-Economic Research Service; **Karen M. Jetter**, University of California, Davis; **Marcelo P. Miranda**, Fundecitrus; **Ariel Singerman**, University of Florida; **Samuel D. Zapata**, Texas A&M University

Lessons Learned from HLB Management in Florida.

Ariel Singerman, University of Florida; **Stephen H. Futch**, Citrus Research and Education Center, University of Florida

HLB in California: Current Situation, Economics, Policies, Management, and Lesson Learned.

Karen M. Jetter, University of California, Davis; **Elizabeth Grafton-Cardwell**, University of California, Riverside; **Kjersti Nes**, University of California, Davis

HLB in Texas: Current Situation, Implications, Lessons Learned, and Economic Modeling

Olufemi J. Alabi, Texas A&M University; **Mamoudou Sétamou**, Texas A&M University-Kingsville; **Madhurababu Kunta**, Texas A&M University-Kingsville; **Jon Dale**, Texas Citrus Pest & Disease Management Corporation; **John V. Da Graça**, Texas A&M University-Kingsville; **Samuel D. Zapata**, Texas A&M University; **Jose A. Lopez**, Texas A&M University

Lessons, Current Situation, Management and Economic Impact of HLB in Brazil

Marcelo P. Miranda, Fundecitrus; **Antonio J. Ayres**, Fundecitrus; **Renato B. Bassanezi**, Fundecitrus

1003 State and Regional Climate Regulation

Virginia A, Lobby Level

Organized Symposium

The goal of this session is to update attendees on new policy activity (e.g., carbon pricing or adaptation planning) happening at the state and regional levels, and to discuss the political challenges and economic complications of subnational vs. national approaches.

Organizers: Soren Anderson, Michigan State University; Eli P. Fenichel, Yale University; Derek Lemoine, University of Arizona; Daniel R. Petrolia, Mississippi State University

Moderator: Soren Anderson, Michigan State University

Panelists: Dallas Burtraw, Resources for the Future (RFF); Terry Dinan, Congressional Budget Office; Adele Morris, Brookings Institution; Barry Rabe, University of Michigan

1004 International Development – Lightning Session

Washington Room 3, Exhibition Level

Selected Presentation – Lightning Session

Moderator: M. Alloush, University of California, Davis

Income, Psychological Well-being, and the Dynamics of Poverty: Evidence from South Africa

M. Alloush, University of California, Davis

The Farmer and The Fates: Perceptions of Self-Efficacy, Learning and Investment in a Stochastic Production Process

Jonathan G. Malacarne, University of California, Davis

Heterogeneous Impacts of Credit Rationing on Agricultural Productivity: Evidence from Kenya

Apurba Shee, University of Greenwich; Shadayen Pervez, Pennsylvania State University; Calum G. Turvey, Cornell University

Could Mobile Money Applications Improve Farm Productivity? Insights from Rural Mozambique

Becatien H. Yao, Kansas State University; Aleksan Shanoyan, Kansas State University

Modeling Farm Household's Productivity Under Inseparable Production and Consumption Decisions

Weldensie T. Embaye, Kansas State University; Jason S. Bergtold, Kansas State University; Benjamin Schwab, Kansas State University; Yacob A. Zereyesus, Kansas State University

Are All Banking Crises the Same: Evidence from MFIs

Rui Chen, Auburn University; Valentina Hartarska, Auburn University

Cost-Effectiveness of Community-Based Gendered Advisory Services to Farmers: Analysis in Mozambique and Tanzania

Tewodaj Mogues, International Food Policy Research Institute; Valerie A. Mueller, International Food Policy Research Institute; Florence Kondylis, World Bank

Concurrent Sessions MONDAY, 10:00 AM - 11:30 AM

1005 Natural Resource Economics Lightning Session

Washington Room 5, Exhibition Level

Selected Presentation – Lightning Session

Papers on water resources, pest control, and wildfires.

Moderator: Gabriel Sampson, Kansas State University

Peer Effects in the Diffusion of Water Saving Agricultural Technologies

Gabriel Sampson, Kansas State University; **Edward Perry**, Kansas State University

Design and Management of Multi-Purpose Dams Under Climate Change

Yuan Niu, University of Connecticut; **Farhed A. Shah**, University of Connecticut

Determinants of Price in Western Water Markets: A Systems Approach

Kristiana M. Hansen, University of Wyoming; **Vardges Hovhannisyán**, University of Wyoming

Cooperative Bargaining to Manage Invasive Species in Jurisdictions with Mixed Land Ownership

Shyamani D. Siriwardena, Virginia Tech; **Kelly M. Cobourn**, Virginia Tech; **Gregory S. Amacher**, Virginia Tech; **Robert G. Haight**, USDA-Forest Service

Shade-Grown Coffee Systems as a Protection from Pest and Price Risks: Application to Puerto Rico

Yixuan Gao, University of New Hampshire; **Shadi S. Atallah**, University of New Hampshire

A Real Barn Burner: The Effectiveness of Home Protection During Wildfire

Jude Bayham, Colorado State University; **Jonathan K. Yoder**, Washington State University

Predict and Attack (or Don't): An Econometric Approach to Large Wildfire Early Detection and Suppression Effectiveness

Hari Katuwal, Tarleton State University; **Michael S. Hand**, USDA-Forest Service; **Matthew Thompson**, USDA-Forest Service; **Crystal Stonesifer**, USDA-Forest Service; **David Calkin**, USDA-Forest Service

Money to Burn? Risk Attitudes and Private Investment to Mitigate Wildfire Risk

Angelo Sisante, University of Nevada, Reno; **Michael H. Taylor**, University of Nevada, Reno; **Kimberly S. Rollins**, University of Nevada, Reno

1006 Agricultural Production Management and Profitability

Park Tower 8228, Lobby Level

Selected Presentation

This session focuses on the way in which the agricultural production management strategies affect farm profitability. The relationship between efficiency, diversification, differentiation, and long-term profitability is discussed.

Moderator: Chinonso E. Etumnu, Purdue University

A Clustering Approach to Understanding Farmers Success Strategies

Chinonso E. Etumnu, Purdue University; **Allan W. Gray**, Purdue University

Do Profit Rates Converge? Evidence on the Persistence of Farm Profit in the Long-run

Aderajew AS Tamirat, Maastricht University; **Andres A. Trujillo-Barrera**, Wageningen University; **Joost M. E. Pennings**, Maastricht University / Wageningen University

Economic Efficiency of U.S. Organic Versus Conventional Dairy Farms: Evidence from Evidence from 2016

Richard F. Nehring, USDA-Economic Research Service; **Jeffrey M. Gillespie**, Louisiana State University; **Michael Harris**, USDA-Economic Research Service; **Kenneth W. Erickson**, USDA-Economic Research Service

Does Crop Diversification Involve a Trade-Off Between Technical Efficiency and Income Stability For Farmers in Zambia?

Agness Mzyece, Kansas State University; **Yacob A. Zereyesus**, Kansas State University; **Aleksan Shanoyan**, Kansas State University

1007 Willingness to Pay for Attributes of U.S. Foods

Park Tower 8219, Lobby Level

Selected Presentation

Product attributes affect the prices that consumers are willing to pay for products. Convenience, organic, local and antibiotic-free are attributes that are increasingly important to American consumers, and understanding how these product attributes affect demand for and prices of foods has implications for food regulations in the United States. This session examines the effects of attributes of food on price premiums and price sensitivity.

Moderator: Christine L. Carroll, California State University, Chico

What Are Consumers Willing to Pay for Locally Produced, Value-Added Foods?

Ashley Spalding, University of California, Davis; **Kristin Kiesel**, University of California, Davis

How Do Organic Price Premiums Vary Across Different Supply and Demand Side Factors? A Hedonic Analysis of the German Market for Fresh Meat

Matthias Staudigel, Technical University of Munich; **Aleksej Trubnikov**, Technical University of Munich

Demand Elasticities of Conventional and Raised Without Antibiotics Chicken

Joanna Karavolias, University of Florida; **Lisa A. House**, University of Florida

Willingness and Purchase Decision on Refrigerated Ready-to-Eat Meals

Qi Zhang, Washington State University; **R. Karina Gallardo**, Washington State University

1010 Residential Values and Water Quality

Park Tower 8212, Lobby Level

Selected Presentation

This session examines the price and welfare effects of changes in water quality.

Moderator: Weizhe Weng, Virginia Tech

Coupling Water Quality Numerical Simulation and Hedonic Models to Evaluate Impact of Changes in Nutrient Loading

Weizhe Weng, Virginia Tech; **Kevin J. Boyle**, Virginia Tech; **Cayelan Carey**, Virginia Tech; **Kelly M. Cobourn**, Virginia Tech; **Hilary Dugan**, University of Wisconsin-Madison; **Kaitlin Farrell**, Virginia Tech; **Paul Hanson**, University of Wisconsin-Madison; **Sreeya Brahma Brahma**, Virginia Tech; **Nicole Ward**, Virginia Tech; **Kathleen Weathers**, Cary Institute of Ecosystem Studies

Price Based Policies for Managing Residential Development and Impacts on Water Quality

Douglas H. Wrenn, Pennsylvania State University; **Allen Klaiber**, The Ohio State University; **David Newburn**, University of Maryland

Household Willingness to Pay for Stream Restoration on Private and Public Lands: Evidence from the Baltimore Metropolitan Region

Andrew B. Rosenberg, University of Maryland; **David Newburn**, University of Maryland; **Charles A. Towe**, University of Connecticut

Modeling the Property Price Impact of Lake Restoration: Evidence from Iowa

Fangge Liu, Iowa State University; **Wendong Zhang**, Iowa State University; **Catherine L. Kling**, Iowa State University

Concurrent Sessions MONDAY, 10:00 AM - 11:30 AM

1011 International Topics in the Economics of Agri-food Supply Chains

Virginia B, Lobby Level

Selected Presentation

Papers in this session bring together current topics on the economics of food supply chains in developing and developed countries. Issues range from coordination problems to food policy and food waste.

Moderator: Xiaowei Cai, California Polytechnic State University, San Luis Obispo

Vertical Coordination Mechanisms and Farm Performance Amongst Smallholder Rice Farmers in Northern Ghana

Awal Abdul-Rahaman, *University of Kiel*; **Awudu Abdulai**, *University of Kiel*

Impacts of the 2016/17 Food Insecurity Response Program on Maize Prices in Malawi

Robert Baulch, *International Food Policy Research Institute*; **Anderson Gondwe**, *International Food Policy Research Institute*; **Chiyembekezo Chafuwa**, *LUANAR*

Liquid Milk: Cash Constraints and Recurring Savings Among Dairy Farmers in Kenya

Xin Geng, *International Food Policy Research Institute*; **Wendy Janssens**, *VU University Amsterdam*; **Berber Kramer**, *International Food Policy Research Institute*

1012 Political Economy and Regulatory Stringency in Agriculture

Virginia C, Lobby Level

Selected Presentation

Farmers are highly effective in achieving their policy goals, with the continued success of the Farm Bill being one of the clearest indicators of this effectiveness. The papers in this session evaluate the political economy of agriculture through analysis of the determinants of farmer contributions to political action committees (PACs); analyze how redistricting and shifting political coalitions have affected the viability of the Farm Bill; identify the critical members of the European Parliament whose votes are critical to form winning coalitions for EU agricultural policy; and characterize differing perceptions of regulatory stringency across the northeastern United States.

Moderator: Lisa Mancino, USDA-Economic Research Service

Farmer Campaign Finance: Determinants of Contributions to Political Action Committees

Scott Callahan, *Appalachian State University*

Where's the Pork?: The Political Economy of the U.S. Farm Bill

Joe Weinberg, *University of Southern Mississippi*

Who has the Critical Vote? Power Ranking of MEPs in the Agricultural Committee of the European Parliament

Attila Kovacs, *ITESM*; **Imre Fertó**, *Hungarian Academy of Sciences*; **László Kóczy**, *Institute of Economics, Hungarian Academy of Sciences*; **Balázs Sziklai**, *Institute of Economics, Hungarian Academy of Sciences*; **Attila A. Nás**, *Institute of Economics, Hungarian Academy of Sciences*

Farmers' Perceptions of Regulatory Stringency in the Northeastern U.S.

Anastasia M. Gamble, *University of Georgia*; **Levi A. Russell**, *University of Georgia*; **Benjamin L. Campbell**, *University of Georgia*; **Adam N. Rabinowitz**, *University of Georgia*; **Brady E. Brewer**, *University of Georgia*

1013 Child Nutrition in Developing Countries

Washington Room 1, Exhibition Level

Selected Presentation

This session focuses on empirical results regarding child nutrition in Asia and Africa. The papers include work based in China, Nigeria, Tanzania and Vietnam.

Moderator: Alexandra Peralta, University of Adelaide

Does Sustainable Intensification of Maize Production Enhance Child Nutrition? Evidence from Rural Tanzania

Jongwoo Kim, Michigan State University; Nicole M. Mason, Michigan State University; Sieglinde S. Snapp, Michigan State University

Better Nutrition, Healthier Mind? – Experimental Evidence from Primary Schools in Rural Northwestern China

Qihui Chen, China Agricultural University; Xiaoyue Liu, China Agricultural University; Qiran Zhao, China Agricultural University

Intra-Household Dietary Diversity and Nutrient Allocation in Northern Vietnam

Alexandra Peralta, University of Adelaide; Christian A. Genova II, University of Adelaide; Wendy J. Umberger, University of Adelaide; Larissa Gui-Pagluica, University of Adelaide

Effects of Gender Gaps in Livelihood Assets and Adoption of Climate Smart Practices on Nutritional Outcomes of Children in Nigeria

Maria Gbemisola Ogunnaike, Federal University of Agriculture; Adebayo M. Shittu, Federal University of Agriculture, Abeokuta; Oluwakemi Enitan Fapojuwo, Federal University of Agriculture, Abeokuta, Ogun State Nigeria; Mojisola Olanike Kehinde, Federal University of Agriculture

1014 Technology and the Productivity

Park Tower 8216, Lobby Level

Selected Presentation

Moderator: Maria Porter, Michigan State University

Heterogeneous Effects of Adopting Labor-Intensive Fertilizer Application Practices: A Randomized Control Trial in Burkina Faso

Maria Porter, Michigan State University; Andrew Dillon, Michigan State University; Aissatou Ouedraogo, Michigan State University

The Effect of Metropolitan Technological Progress on the Non-metropolitan Labor Market: Evidence from U.S. Patent Counts

Oudom Hean, The Ohio State University

Cotton Revolution and Widow Chastity in Ming and Qing China

Ruobing Liang, Xiamen University; **Xiaobing Wang**, Peking University; Futoshi Yamauchi, World Bank

Internet Access and Rural Household Income in China

Jianmei Zhao, Central University of Finance and Economics

Concurrent Sessions MONDAY, 10:00 AM - 11:30 AM

1015 Market Structure and Food Retailing

Roosevelt Room 4, Exhibition Level

Selected Presentation

This session contains papers on market structure and food retailing.

Moderator: Stefan Hirsch, ETH Zurich

Profitability and Competition in EU Food Retailing

David Lanter, ETH Zurich; **Stefan Hirsch**, ETH Zurich; Robert Finger, ETH Zurich

Switching Cost and Store Choice

Timothy J. Richards, Arizona State University; Jura Liaukonyte, Cornell University

Do Geographic Indication Labels Pay Off? Estimating GI's Implicit Price Dispersion in the Italian EVOO Market

Alessandro Bonanno, Colorado State University; Francesco Bimbo, University of Foggia; Marco Costanigro, Colorado State University; Rosaria Viscecchia, University of Foggia

The Robinson-Patman Act and Vertical Relationships in Food Retailing

Koichi Yonezawa, Cornell University; Miguel I. Gomez, Cornell University; Timothy J. Richards, Arizona State University

1016 Risk and Insurance

Washington Room 4, Exhibition Level

Selected Presentation - Discussant Test Session

Moderator: Khushbu Mishra, The Ohio State University

The Impact of Index-Insured Loans on Agricultural Production in Northern Ghana

Khushbu Mishra, The Ohio State University; Richard Gallenstein, The Catholic University of America; Abdoul G. Sam, The Ohio State University; Mario J. Miranda, The Ohio State University

Livestock Transfers and Resilience: Evidence from a Randomized Trial in Guatemala

Conner C. Mullally, University of Florida

Temporal Arbitrage Opportunities and Puzzle for Smallholders of Staple Grains in Ethiopia

Lan Li, Food and Agriculture Organization of the United Nations

Profitable but Vulnerable: Assessment of the Nicaraguan Bean Seed Enterprises Using Duration Analysis

David J. De Young, Michigan State University; Byron A. Reyes, CIAT; Mywish K. Maredia, Michigan State University; Lorena Gomez, International Center for Tropical Agriculture

1017 Climate Change Impacts on Agriculture

Washington Room 6, Exhibition Level

Selected Presentation

Papers in this session discuss the impacts of climate change on agricultural production and producers' adaptations.

Moderator: Ashok K. Mishra, Arizona State University

Looking Back to Look Forward: Food Security in Niger in an Era of Climate Change

Kayenat Kabir, Purdue University; Thomas W. Hertel, Purdue University; Uris Lantz C. Baldos, Purdue University

Is Climate Change Likely to Affect the Geographic Movement of Cattle Production within the U.S.?

Buddhika P. Mallika Appuhamilage, Kansas State University; Glynn T. Tonsor, Kansas State University; Jesse B. Tack, Kansas State University

Using Climate Analogues to Obtain a Causal Estimate of the Impact of Climate on Agricultural Productivity

Nicholas Potter, Washington State University; Michael P. Brady, Washington State University; Kirti Rajagopalan, Washington State University

Climate Change Adaptation: Planting Date and Soil Temperatures in U.S. Corn

Edward Perry, Kansas State University

1018 Agricultural R&D, Innovation and Adoption

Wilson A, Mezzanine Level

Selected Presentation

Paper presentations in this section emphasize innovation, especially precision agriculture, genetic yield revolution, and genetic drug for animal health.

Moderator: Matthew S. Clancy, USDA-Economic Research Service

How Deep are the Roots of Agricultural Innovation? Evidence from Patents

Matthew S. Clancy, *USDA-Economic Research Service*

Using Precision Agriculture to Develop Production Functions Using Landscape Positions in Mollisols and Alfisols of Illinois
Gurbir Singh, Southern Illinois University; Jebaraj Asirvatham, Southern Illinois University

Eating the Seed Corn? The Impact of Generic Drug Entry on Innovation in Animal Health

Matthew S. Clancy, *USDA-Economic Research Service*; *Stacy E. Sneeringer, USDA-Economic Research Service*

Another Genetic Yield Revolution is Needed to Offset Climate Change Effects on U.S. Maize

Ariel Ortiz-Bobea, *Cornell University*; *Jesse B. Tack, Kansas State University*

1019 Farming and Water Quality

Park Tower 8222, Lobby Level

Selected Presentation

This session investigates how to reduce farming's negative impact on water quality through various policies. The effectiveness of these policies is examined.

Moderator: Hongxing Liu, Lafayette College

A Spatially Integrated Economic-Ecological Model of Farmers' Land Management Decisions and Water Quality Outcomes in Lake Erie

Hongxing Liu, *Lafayette College*; *Wendong Zhang, Iowa State University*; *Elena G. Irwin, The Ohio State University*

Using Targeted Policies to Manage Nitrogen for Sustainable Agriculture in the U.S.

Jing Liu, *Purdue University*; *Thomas W. Hertel, Purdue University*; *Christopher Kucharik, University of Wisconsin-Madison*; *Uris Lantz C. Baldos, Purdue University*; *Larissa Jarvis, University of British Columbia*; *Navin Ramankutty, University of British Columbia*

The Impact of Clean Water Act on Farm Practices: The Case of U.S. Dairy CAFOs

Chang-Jiun Yu, *University of Wisconsin-Madison*; *Xiaodong Du, University of Wisconsin-Madison*; *Daniel J. Phaneuf, University of Wisconsin-Madison*

Water Quality Trading Program Design with Heterogeneous Behavioral Responses

Patrick Fleming, Franklin & Marshall College; *Erik Lichtenberg, University of Maryland*; **David Newburn**, *University of Maryland*

Concurrent Sessions MONDAY, 10:00 AM - 11:30 AM

1020 The Economics of Marijuana

Roosevelt Room 1, Exhibition Level

Track Session – AUS Section

The legalization of marijuana for recreational use has been debated for decades. In the past five years, eight states and the District of Columbia have voted to legalize use and possession. Along with the legalization of the formally illicit drug, comes a need for extensive analysis, in order to understand the potential tax implications as well as implications for the black market, the medicinal marijuana market, and regulations pertaining to them. This session provides perspectives on the new markets for California and Washington State and the regional implications for legalizing marijuana for recreation.

Organizer: Michael P. McCullough, California Polytechnic State University, San Luis Obispo
Marijuana Consumption in California

Daniel A. Sumner, University of California, Davis; Robin Goldstein, University of California, Davis

Marijuana Production in California

Duncan MacEwan, ERA Economics LLC; Richard E. Howitt, University of California, Davis

Marijuana in Washington State

T. Randall Fortenbery, Washington State University

1021 Beer: History, Policy, & Regulations

Maryland B, Lobby Level

Track Session – BEER Section

The United States brewing industry has a rich history. From home brewing persimmon beer during the Revolution, the wave of German immigration to the Midwest that brought lager beer, to the modern-day craft beer renaissance. However, the industry has not evolved without hiccups. A myriad of federal and local regulations and policies that make it difficult for brewers and supply chain managers to operate have long plagued the industry. Cosponsored by the Institute for Humane Studies, this panel discussion will focus on the history of beer in America and current policy and regulations. Industry professionals will discuss regulation and policy in historical and current context.

Organizer: Michael P. McCullough, California Polytechnic State University, San Luis Obispo

Current Issues in U.S. Beer Policy

Michael Urich, Beer Institute

History of Beer Regulation

Representative TBD, Institute for Humane Studies

Beer Labeling Policy

Trey Malone, Michigan State University

Concurrent Sessions **MONDAY, 10:00 AM - 11:30 AM**

1022 Outlook for Livestock, Poultry and Dairy: Ongoing and Emerging Issues

Washington Room 2, Exhibition Level

Track Session – COSBAE and EXT Sections

U.S. livestock, dairy, and poultry production continues to show an increasing trend. Global consumption growth is also evident within the meat, poultry and dairy complex. Despite this progress, the sector faces a number of ongoing and emerging challenges, including antibiotic use for production purposes, shocks from diseases, and the emergence of a range of meat and dairy analogs. These challenges influence production and price dynamics along the supply chain in the livestock, dairy and poultry sector. The objective of this session is to highlight some of the ongoing and emerging issues in the livestock industry and spark a discussion on policy and economic approaches to address these issues.

Organizers: Jeffrey M. Gillespie, Louisiana State University; Keithly G. Jones, USDA-Economic Research Service

Moderator: Glynn T. Tonsor, Kansas State University

U.S. Policy Actions to Reduce Use of Antibiotics in Livestock Production

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

Major Disease Issues in Livestock Production

Dustin L. Pendell, *Kansas State University*

Economics of Anologs in the Meat and Dairy Industries

Joseph G. Cessna Jr., *USDA-Economic Research Service*

Price Dynamics in Farm to Retail Livestock Price Relationships

William F. Hahn, *USDA-Economic Research Service*

1023 Lab-in-the-Field Experiments Identify Approaches to Motivate Producer and Consumer Decisions that Generate Private Benefits and Environmental Public Goods

Harding, Mezzanine Level

Track Session – ENV and EXECON Sections

This session features four papers that use economic experiments to analyze how agricultural producers and consumers make individual decisions that generate both private benefits and environmental public goods. Utilizing a novel experiment and survey, the first paper analyzes how the rate of innovation influences farmer adoption of new agricultural technologies that reduce environmental externalities while maintaining productivity. The second paper describes a field experiment that tests the effect of anchoring and information nudges on farmers' bids in a cost-share auction for traps for feral hogs, which cause significant damage to crops and the environment. The final two papers analyze consumer perceptions about recycled water. Water reuse and recycling can increase water security, but stigma about recycled water is an obstacle. These studies examine how consumer willingness to pay for goods produced with recycled water is affected by the type of product, the level of processing, and de-stigmatization treatments.

Organizer: Leah H. Palm-Forster, University of Delaware

Moderator: Maik Kecinski, University of Alberta

Agricultural Innovation and Sustainable Technology Adoption: Strategic Delay Reconsidered

Stephen N. Morgan, *Michigan State University*; **Nicole M. Mason**, *Michigan State University*; **Robert S. Shupp**, *Michigan State University*; **Robert J. Myers**, *Michigan State University*

Nudging Agricultural Business Owners to Invest in an Impure Environmental Public Good

Collin Weigel, *Johns Hopkins University*; **Paul J. Ferraro**, *Johns Hopkins University*; **Kent D. Messer**, *University of Delaware*; **Mark Masters**, *Albany State University*

Does Food Processing Mitigate Consumer Concerns for Crops Grown with Recycled Water?

Olesya Savchenko, *University of Illinois at Urbana-Champaign*; **Tongzhe Li**, *University of Delaware*; **Maik Kecinski**, *University of Alberta*; **Kent D. Messer**, *University of Delaware*

Mitigating Stigma on Recycled Water: Celebrity Endorsements, Social Comparisons, and Trophic Levels

Sean Ellis, *University of Delaware*; **Olesya Savchenko**, *University of Illinois at Urbana-Champaign*; **Kent D. Messer**, *University of Delaware*



Concurrent Sessions MONDAY, 10:00 AM - 11:30 AM

1024 Washington Policy Outlook

Maryland A, Lobby Level

Track Session – EXT Section

The policy outlook session will focus on contemporary, federal policy issues affecting agriculture. The presenters will provide insight from their unique perspectives and work for Congress, USDA, and related agencies. The presenters will discuss policy issues, development, and implementation to address not only the current policy issues for agriculture, but also the policy development and implementation process and the role of economics in the process.

Organizers: Steven L. Klose, Texas A&M University; Bradley D. Lubben, University of Nebraska-Lincoln

Moderator: Bradley D. Lubben, University of Nebraska-Lincoln

Perspectives from the House Agriculture Committee

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

Perspectives from the Senate Agriculture Committee

Matt Erickson, Senate Agricultural Committee; **Joe Schultz**, Senate Agricultural Committee

Perspectives from USDA

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

Perspectives from the Congressional Agencies

James A. Langley, Congressional Budget Office

1025 Economics of Information in Modern Food Markets

Roosevelt Room 3, Exhibition Level

Track Session – FAMPS and GSS Sections

Rapid advances in digital technology and the expansion of social media into every aspect of daily life have firmly impacted the functioning of food marketing and consumer behaviour in the early 21st century. At the same time, market researchers have become more innovative with regard to data collection and information dissemination to consumers. While technology has reduced the price of information, the value of information has increased- especially when accumulated spatially or across individuals. This session seeks to bring together economists and policy experts that work at the frontier of the economics of information in agricultural and applied economics. The panel will address issues such as labeling, food health behavior, and social psychology and experimental economics.

Organizer: Sven M. Anders, University of Alberta

Moderator: Sven M. Anders, University of Alberta

Labelling and Certification Systems

Julie A. Caswell, University of Massachusetts, Amherst

Information and Food Health Behavior

Christiane Schroeter, California Polytechnic State University, San Luis Obispo

Social Psychology Perspective on Food Information

Marco A. Palma, Texas A&M University

Policy Perspective on Information

Ilya M. Rahkovsky, USDA-Economic Research Service

Experimental Economic Perspective on How Information Affects Behavior

Brandon R. McFadden, University of Florida

Concurrent Sessions MONDAY, 10:00 AM - 11:30 AM

1026 Targeting and Evaluating Investments in Food Safety in Low- and Middle- Income Countries

Roosevelt Room 5, Exhibition Level

Track Session – FSN and International Sections

The WHO estimates that in 2010, 600 million people around the world experienced a foodborne illness and 420 thousand died. The 41% of the world population living in poorer countries experienced 50% of these illnesses and 75% of the deaths. A high percentage of the deaths were among children under 5. This session highlights the role economic research can play in helping target and evaluate efforts to reduce the foodborne health hazards in low- and middle-income countries. The first two papers show how the WHO's global burden of disease research can be extended to inform food safety investment prioritization. The second two papers evaluate the impacts of technology and training investments designed to reduce foodborne disease hazards in Africa and the Caribbean.

Organizer: Sandra Hoffmann, USDA-Economic Research Service

Moderator: Sandra Hoffmann, USDA-Economic Research Service

Making the Case for Food Safety Investment in Developing Countries

Laurian J. Unnevehr, University of Illinois at Urbana-Champaign; **Delia Grace**, International livestock Research Institute; **Steven Jaffee**, World Bank; **Spencer J. Henson**, University of Guelph

Assessing Potential Influences of Income and Food Price Trends on Global Patterns of Foodborne Disease

Sandra Hoffmann, USDA-Economic Research Service; **Birgit G. Meade**, USDA-Economic Research Service

Market Incentives and Subsidies for Technology Adoption: Experimental Evidence from Kenyan Maize Farmers

Vivian Hoffmann, International Food Policy Research Institute; **Kelly Jones**, International Food Policy Research Institute

Evaluation of HACCP Capacity Building in the Caribbean

Clare A. Narrod, University of Maryland; **Kelly Jones**, International Food Policy Research Institute

1027 Food Safety Challenges and Antimicrobial Resistance

Maryland C, Lobby Level

Track Session – FSN and Senior Sections

This session addresses critical consumer health issues and the future of the food animal industry. Pathogens in the U.S. food supply cause 3,000 deaths annually, long-term health consequences, and the risk of antibiotic resistance. The 1st presentation examines how limited information on pathogens reduces economic incentives for food safety in today's regulatory and legal framework. The 2nd presentation discusses the extent to which private food safety standards can assure consumer protection, how they align with public health expectations, and the pros and cons of relying on private food standards when importing food. The 3rd presentation examines the evidence of antibiotic resistance in the United States and globally related to livestock production practices, the public health implications thereof, and the political economics of the livestock industry supply chain.

Organizer: Walter J. Armbruster, Farm Foundation (retired)

Moderator: Mary Clare Ahearn, Economic Consultant

Discussant: Mary Clare Ahearn, Economic Consultant

Lack of Information Limits Economic Incentives for Food Safety

Tanya Roberts, Center for Foodborne Illness Research & Prevention

The Economics of International Voluntary Food Safety Standards

Diogo M. Souza Monteiro, Newcastle University

The Political Economy of Antibiotic Use in Food Animals

Walter J. Armbruster, Farm Foundation (retired)



Concurrent Sessions MONDAY, 10:00 AM - 11:30 AM

1028 Innovative Approaches to Measuring Resilience and Food Security in Sub-Saharan Africa

Coolidge, Mezzanine Level

Track Session – Africa and International Sections

This session highlights the importance of resilience dynamics to food security assessment and measurement, given the crucial roles of volatility and response to shocks. Resilience is a complex and dynamic concept, however, and the issue of how best to measure it is far from settled. Trade-offs exist between relying on commonly available data sources, versus collecting high-frequency data specifically to capture dynamics. The session combines papers that advance this research frontier in sub-Saharan Africa. Two papers use available climate and household data, one to compare consumption dynamics between Ethiopia and Niger (Upton et al.), and the other to predict household level food security in Malawi (Lentz et al.). A third paper, also focusing on Malawi, uses monthly sentinel site data to examine food security and resilience dynamics (Knippenberg et al.). The fourth estimates how food security levels and volatility are affected by market prices in rural Zambia (Baylis et al.).

Organizer: Joanna B. Upton, Cornell University

Moderator: Christopher B. Barrett, Cornell University

A Comparative Assessment of Resilience Measurement Approaches in Niger

Joanna B. Upton, Cornell University; **Christopher B. Barrett**, Cornell University

Use of Spatially and Temporally Rich Data Improves Prediction of Food Insecurity Crises in Malawi

Erin C. Lentz, University of Texas, Austin; **Hope Michelson**, University of Illinois at Urbana-Champaign; **Kathy Baylis**, University of Illinois at Urbana-Champaign

Resilience, Shocks, and the Dynamics of Food Insecurity, Evidence from Malawi

Erwin Knippenberg, Cornell University; **Nathaniel D. Jensen**, International Livestock Research Institute

How Food Security is Affected by Market Access: Evidence from Rural Zambia

Kathy Baylis, University of Illinois at Urbana-Champaign; **Patrese Anderson**, University of Illinois at Urbana-Champaign; **Marshaun Jesse Montgomery**, University of Illinois at Urbana-Champaign; **Tom Evans**, Indiana University; **Erin C. Lentz**, University of Texas, Austin; **Hope Michelson**, University of Illinois at Urbana-Champaign

Concurrent Sessions MONDAY, 10:00 AM - 11:30 AM

1029 The 21st Century Agribusiness in China, Jointly with Agribusiness: An International Journal

Roosevelt Room 2, Exhibition Level

Track Session – China Section

As the world's largest producer, consumer, and importer of agricultural products, China and the rapidly evolving agribusiness sector there have a significant impact on domestic and global agricultural markets. This lightning session, largely consisting of papers that might appear in a 2019 special issue of Agribusiness: an International Journal, will focus on the 21st century agribusiness in China.

Organizer: Jian Zhang, Central University of Finance and Economics

Moderator: Yuqing Zheng, University of Kentucky

Food Safety, Market Power and Risk Prevention of Meat Firms in China

Huashu Wang, Guizhou University; **Tian Xia**, Kansas State University; **Zhengfei Guan**, University of Florida

Adopting Biofortified Wheat in China: Pattern, Drivers and Farmer Behavior

Jian Li, University of Wisconsin-Madison; **Ping Qin**, Huazhong Agricultural University; **Wuyang Hu**, University of Kentucky

The Impact of Farmers' Risk and Time Preferences on Contract Stability: Evidence from Chinese Fruit Farmers Participating in Contract Farming

Jing Hou, Nanjing Agricultural University; **Jennifer E. Ifft**, Cornell University; **Ruiyao Ying**, Nanjing Agricultural University

Can Members' WeChat Engagement Affect Relationship Performance in Community Supported Agriculture? An Empirical Evidence from China

Tan Si, Renmin University of China; **Jennifer E. Ifft**, Cornell University; **Ruiyao Ying**, Nanjing Agricultural University

The Determinants of Online Fruits Purchasing in China Empirical Study with Taobao Data

Chunhui Ye, Zhejiang University; **Ni Zhuo**, Zhejiang University; **Chen Ji**, Zhejiang University

Are Customers More Sticky to Retail Channels for Fresh Food Shopping Online than Offline? Evidence, Reasons and Implications

Holly Wang, Purdue University; **Na Hao**, Beijing Technology and Business University

The Impact of Business Relationships on Farmers' Safety Production Behavior—Evidence from China

Lin Li, China Academy for Rural Development, Zhejiang University; **Hongdong Guo**, Zhejiang University

The Effect of Taobao Villages on Return Migration

Jiaqi Qi, North Carolina State University; **Xiaoyong Zheng**, North Carolina State University; **Peng Cao**, Nanjing Agricultural University; **Liqun Zhu**, Nanjing Agricultural University

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1031 Gene Editing: Economic Issues for CRISPR in Food and Agriculture

Hoover, Mezzanine Level

Invited Paper

Recent breakthroughs in gene editing, with the 2012 introduction of CRISPR, a highly precise yet versatile DNA “cut-and-paste” technology, have led to an explosion in R&D applications, unprecedented since the rise of biotechnology in the 1970s. These new technologies are capable of a wide range of genetic “edits” in plants and animals and are promising an equally wide range of applications in food and agriculture. While the potential for medical applications of CRISPR technology has captured the public imagination, it is still unclear how potential agricultural and food applications will be received by consumers and the public. The regulatory and intellectual property (IP) landscape also remain uncertain.

Discussant: Fan-Li Chou, U.S. Department of Agriculture

The Potential Economic Value of Gene Editing Technologies for Agriculture and Food and the Conditioning Effects of Regulatory Policy and Market Acceptance

Nicholas G. Kalaitzandonakes, *University of Missouri*

Intellectual Property Control of CRISPR and Implications for Development of Agricultural and Food Applications

Gregory D. Graff, *Colorado State University*

Gene Editing Technologies: What to Expect from the Institutional and Legal Battles in the EU?

Justus H. Wesseler, *Wageningen University*

1032 Applied Economics for Practical Policymaking

Wilson C, Mezzanine Level

Organized Symposium

The goal of this session is to spur a conversation between economists working in academia and those working in government agencies and nonprofits, covering topics such as: How does your work differ (or not) from that of an academic economist? How does published economic research get used in the policy process? What are some specific and general research needs at your organization? What misconceptions do academic economists have about how policy gets made? What advice would you give academic economists to make their work more useful or relevant for policy?

Organizers: Soren Anderson, Michigan State University; Eli P. Fenichel, Yale University; Derek Lemoine, University of Arizona; Daniel R. Petrolia, Mississippi State University

Moderator: Daniel R. Petrolia, Mississippi State University

Panelists: C. Frank Casey, Defenders of Wildlife; Ruben Lubowski, Environmental Defense Fund; Al McGartland, U.S. Environmental Protection Agency; Richard Newell, Resources for the Future

1033 Cost Uncertainty; Impacts on Farmers and Conservation

Maryland A, Lobby Level

Organized Symposium – Australasian Agriculture and Resource Economics Society

Organizer: John Rolfe, Central Queensland University

Identifying the Causes of Low Participation Rates in Conservation Tenders

John Rolfe, *Central Queensland University*; **Peter C. Boxall**, *University of Alberta*; **Uwe Latacz-Lohmann**, *University of Kiel*; **Megan Starr**, *University of Idaho*; **Sayed Iftexhar**, *University of Western Australia*

Uniform Versus Discriminatory Pricing – Lessons from Real Reverse Auctions

Peter C. Boxall, *University of Alberta*

Assessing Landholder Adoption of Conservation Actions with Choice Experiments

Megan Starr, *University of Idaho*; **John Rolfe**, *Central Queensland University*

Using Choice Experiments to Identify how Sugarcane Farmers Chose Fertilizer Rates when Seasons are Uncertain

John Rolfe, *Central Queensland University*; **Daniel Gregg**, *University of Adelaide*

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1034 Environmental and Nonmarket Valuation - Lightning Session

Washington Room 1, Exhibition Level

Selected Presentation – Lightning Session

This session includes papers that model behavior and willingness to pay for a variety of environmental and resource (dis) amenities. Topics include valuing ecosystem services in agriculture, forestry, weather and climate, and housing location choice.

Moderator: Lucia Levers, University of California, Riverside

Reducing the Environmental Impact of Corn Monoculture: Farmer Willingness to Accept for Alternative Cropping Systems

Lucia Levers, University of California, Riverside; Amit Pradhananga, University of Minnesota; Jeffrey M. Peterson, University of Minnesota

Factors Affecting Farmers Adoptions of Flexible Riparian Buffers

Xiaogu Li, Pennsylvania State University; Katherine Y. Zipp, Pennsylvania State University; James S. Shortle, Pennsylvania State University

The Attenuation of Flood Risk Discount and the Asymmetric Impacts of Flood Zone Status

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

Income, Belonging and Economic Value of Environmental Amenities: Evidence from Migrant Workers in China

Zhongyuan Liu, University of Georgia; Jeffrey H. Dorfman, University of Georgia; John C. Bergstrom, University of Georgia; Huiguang Chen, Nanjing Agricultural University

Measuring Climate Change Welfare Effects with the Productive Value of Agricultural Land: Accounting for Missing Markets in the Hedonic Approach

Jesus Arellano Gonzalez, University of California, Davis

The Impact of Concessions on Household Location Choice and Well-Being in Indonesia

Shang Xu, The Ohio State University; Allen Klaiber, The Ohio State University; Daniela Miteva, Duke University

Timber or Carbon? Evaluating Forest Conservation Strategies Through a Discrete Choice Experiment Conducted in Northern Guatemala

Corinne F. Bocci, The Ohio State University; Frank Lupi, Michigan State University; Brent Sohngen, The Ohio State University

Do Forests Provide Watershed Services to Local Populations in the Humid Tropics? Evidence from the Brazilian Amazon

Yu Wu, North Carolina State University; Katrina Mullan, University of Montana; Trent Biggs, San Diego State University; Jill L. Caviglia-Harris, Salisbury University; Daniel Harris, Salisbury University; Erin O. Sills, North Carolina State University

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1035 Cutting-Edge Research in Consumer Economics

Coolidge, Mezzanine Level

Selected Presentation – Lightning Session

The papers in this lightning session will examine how different product and consumer attributes impact purchase decisions and the willingness to pay for attributes. Consumer attributes including quality and sensory perceptions, decision framing and attribute attendance may affect the likelihood of purchasing specific products. These papers shed light on how these different characteristics matter to product selection, which will be useful to producers/retailers and policy makers.

Moderator: Michael S. Jones, North Carolina State University

Willingness-to-Pay Effects of Gene Drive Insect Use for Crop Pest Management in Diverse U.S. Market Applications

Michael S. Jones, North Carolina State University; Zachary S. Brown, North Carolina State University

Consumers' Valuation for Lab Produced Meat: An Investigation of Naming Effects

Daniele Asioli, University of Reading; Claudia Bazzani, University of Verona; Rodolfo M. Nayga, University of Arkansas

The Moderating Effect of Heterogeneous Beliefs on Consumer Preferences for a New Food Technology: The Case of Modified Atmospheric Packaging

Yuko Onozaka, University of Stavanger; Vegar Veseth Saue, University of Illinois, Springfield; **Marco Costanigro**, Colorado State University

Does Consumer Climate Change Knowledge and Risk Perception Influence Willingness to Pay for Climate Mitigation in Beverage Crop Production?

Hannah Kitchel, Tufts University; Rebecca L. Boehm, University of Connecticut; Sean B. Cash, Tufts University

Does Animal Welfare Matter to Consumers in Emerging Countries? Evidence from China

Junhong Chen, University of Florida; David L. Ortega, Michigan State University; **Holly Wang**, Zhejiang University and Purdue University

Marketing Opportunities for Organic Transitional Certification

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

Willingness to Pay or Not to Pay: Valuing Foods Some Respondents Find Distasteful

Jiahui Ying, University of Georgia; Vanessa P. Shonkwiler, University of Georgia; Benjamin L. Campbell, University of Georgia

Analysis of Consumer Perception of Product Attributes in Pet Food: Implications for Marketing and Brand Strategy

Lonnie Hobbs Jr., Kansas State University; Aleksan Shanoyan, Kansas State University

1036 Economics of Agri-Food Markets

Roosevelt Room 3, Exhibition Level

Selected Presentation

This session focuses on a range of issues related to the agri-food market dynamics.

Moderator: Jaime E. Malaga, Texas Tech University

Impact of Alfalfa Exports Surge on Dairy and Feed Markets

Man-Keun Kim, Utah State University; **Hernan A. Tejada**, University of Idaho

Brand and Retailer Loyalty among Large U.S. Farmers

Sarah Sellars, Purdue University

The Impossible Trinity of China's Corn Related Policies

Minghao Li, Iowa State University; Dermot J. Hayes, Iowa State University; Wendong Zhang, Iowa State University; Yantao Yang, Chinese Academy of Agricultural Sciences; Xiudong Wang, Chinese Academy of Agricultural Sciences

Dynamic Price Relationships and Price Discovery Among Cheese Markets

Hernan A. Tejada, University of Idaho; Man-Keun Kim, Utah State University

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1037 Behavioral Economics and Food Choices

Roosevelt Room 4, Exhibition Level

Selected Presentation

The papers in this session all deal with different types of food choices, either in randomized controlled trials (RCTs) or in lab experiments. Two papers examine how food waste can effectively be mitigated, one paper measures the effectiveness of strategies to improve dietary diversity in a developing country, and one paper employs a controlled experiment in order to understand the impact of time pressure on food choices.

Moderator: Vaneesha Dusruth, University of Minnesota

Household Food Waste Generation and Recycling: Impact of Downstream Usage on Behavioral Tendencies

Vaneesha Dusruth, University of Minnesota; **Hikaru Hanawa Peterson**, University of Minnesota

Take all You Want, but Eat all You Take: Effectiveness of a Financial Incentive on Individual Food Waste

Nina Jovanovic, Purdue University; **Bhagyashree Katare**, Purdue University; **Michael E. Wetzstein**, Purdue University

Behavioral Nudges and Nutrition Education in Bangladesh: Experimental Evidence Comparing Food Choices in a Lab Setting to Decisions at Home

Kelly A. Davidson, University of Florida; **Jaclyn D. Kropp**, University of Florida; **Conner C. Mullally**, University of Florida; **M. Wakilur Rahman**, Bangladesh Agricultural University

No Time to Think: Food Decision-Making under Time Pressure

Samir Huseynov, Texas A&M University; **Ian Krajchich**, The Ohio State University; **Marco A. Palma**, Texas A&M University

1038 Spatial and Vertical Price Transmission in Commodity Markets

Park Tower 8219, Lobby Level

Selected Presentation

The extent to which markets are linked across space and throughout the marketing chain has been explored widely throughout the literature. Shocks in one market are often transmitted spatially or vertically to another through commodity trade flows. However, a number of market failures can prevent or limit such price transmissions. This section examines the vertical and spatial price transmissions in commodity markets under various scenarios.

Moderator: Sanchari Ghosh, Northeastern State University

Pulpwood Market Dynamics: The Effects of Wood Pellet Production

Bruno Kanieski Da Silva, North Carolina State University; **Robert Abt**, North Carolina State University; **Frederick W. Cabbage**, North Carolina State University

Spatial Price Transmission, Transaction Costs, and Econometric Modelling: How Inference Can Be Improved When Transaction Costs Are Observed?

Pedro Celso Machado Junior, Oklahoma State University; **Chanjin Chung**, Oklahoma State University

Vertical and Spatial Price Transmission in the Presence of Floor Prices

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

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1039 Adoption of Agricultural Technology to Increase Sustainability or Decrease Incidence of Disease

Park Tower 8216, Lobby Level

Selected Presentation

Technological advancements in agricultural have the ability to address a wide-variety of issues negatively affecting humanity. This session examines adoption of technologies that can increase the suitability of production, reduce risk associated with changes in climate, and decrease both plant and human disease. Additionally, this session will provide insight into the factors that may encourage or discourage the adoption of these technologies.

Moderator: Ye Su, University of Nebraska-Kearney

Spatial Optimization of Pathogen Monitoring Networks Applied to Soybean Rust

Tiesta Thakur, University of Minnesota; Terrance M. Hurley, University of Minnesota; Frances R. Homans, University of Minnesota; Robert G. Haight, USDA-Forest Service

Drivers and Synergies in the Adoption of Sustainable Agricultural Intensification Practices: A Dynamic Perspective

Ali M. Oumer, The University of Western Australia; Michael Burton, The University of Western Australia

The Role of Social Interaction in the Adoption and Geographic Diffusion of an Agricultural Technology: The Case of High-Iron Bean (*Phaseolus vulgaris*) in Rwanda

Jose E. Funes, International Food Policy Research Institute

Legume Technologies as a Sustainable Solution to Climatic Shocks: Evidence from Malawi

Mukesh K. Ray, Michigan State University; Mywish K. Maredia, Michigan State University

1040 Workforce Decisions and the Social Safety Net

Washington Room 2, Exhibition Level

Selected Presentation

Workforce Decisions and the Social Safety Net

Moderator: Craig G. Gundersen, University of Illinois at Urbana-Champaign

The Impact of Participation in SNAP on Labor Force Decisions

Bita Fayaz Farkhad, Lehigh University; Chad D. Meyerhoefer, Lehigh University; National Bureau of Economic Research

The Impact of China's New Rural Pension Scheme on Family Labor Supply: Does the Beneficiary's Gender Matter?

Yujie Lin, University of Maryland

The Churning of the Seasons: Agricultural Employment and SNAP Certification Cycles

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

Health Insurance Reform and Gender Gap in Labor Force: Evidence from Massachusetts

Peilu Zhang, Texas A&M University; Marco A. Palma, Texas A&M University; Yajuan Li, Texas A&M University

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1041 Health, Nutrition and Education in Rural Context

Park Tower 8228, Lobby Level

Selected Presentation

Health, nutrition, and education in a rural context.

Moderator: Priya Bhagowalia, Jawaharlal Nehru University

Complementarities in Education and Nutrition: Evidence Using Cash Transfer Schemes in India

Priya Bhagowalia, Jawaharlal Nehru University

Animal Sourced Foods and Child Stunting

Derek Headey, International Food Policy Research Institute; Kalle Hirvonen, International Food Policy Research Institute; John Hoddinott, Cornell University

Assessing Heterogeneity in the Child Growth Impacts of In-Utero Rainfall Shocks in Rural Rwanda

Jarrad G. Farris, Michigan State University; Songqing Jin, Michigan State University; Mywish K. Maredia, Michigan State University; Maria Porter, Michigan State University

The Impact of Biofortified Iron Bean Adoption on Productivity, and Bean Consumption, Purchases and Sales

Kate A. Valknoras, Virginia Tech; Catherine Laroche, Virginia Tech

1042 Climate Change and Forests

Park Tower 8222, Lobby Level

Selected Presentation - Discussant Test Session

Impacts of climate change on forest and water resource management.

Moderator: Xinde Ji, Virginia Tech

The Effect of Climate Change on Irrigated Agriculture: Water-Temperature Interactions and Adaptation in the Western U.S.

Xinde Ji, Virginia Tech; Kelly M. Cobourn, Virginia Tech; Weizhe Weng, Virginia Tech

Global Cost Estimates of Forest Climate Mitigation with Albedo: A New Policy Approach

Brent Sohngen, The Ohio State University; **Alice Favero**, Georgia Institute of Technology; Yufang Jin, University of California, Davis; Yuhang Huang, University of California, Davis

Global Forest Management and Carbon Sequestration Futures Under Alternative Shared Socioeconomic Pathways

Adam J. Daigneault, University of Maine; Craig Johnston, University of Wisconsin-Madison; Justin S. Baker, RTI International; Gregory Latta, Oregon State University

Impact of Climate Change on Groundwater Extraction for Corn Production in Kansas

Oladipo S. Obembe, Kansas State University

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1043 Precision Agriculture

Washington Room 6, Exhibition Level

Selected Presentation

Papers in this session explore empirical approaches for developing optimal and variable-rate nutrient application strategies for precision agriculture.

Moderator: Rodney D. Jones, Oklahoma State University

How to Use Yield Monitor Data to Determine Nitrogen Recommendations: Bayesian Kriging for Location Specific Parameter Estimates

Eunchun Park, Mississippi State University; **Wade Brorsen**, Oklahoma State University; **Xiaofei Li**, Mississippi State University

Optimal Grid Size for Site-Specific Nutrient Application in Wheat Production

Brian Mills, Oklahoma State University; **Wade Brorsen**, Oklahoma State University; **Brian Arnall**, Oklahoma State University

Ex-Ante Expected Payoff from Variable Rate N Application: An Expected Value of Sample Information (EVSI) Approach

Richard K. Perrin, University of Nebraska-Lincoln; **Pedro Queiroz**, University of Nebraska-Lincoln; **Felipe Silva**, University of Nebraska-Lincoln; **Lilyan E. Fulginiti**, University of Nebraska-Lincoln

Dynamic Optimization of Nitrogen with Stochastic Plateau and Bayesian Updating Approach

Chandra K. Dhakal, University of Georgia

1044 Technology Adoption 1: Market and Agricultural Productivity

Wilson A, Mezzanine Level

Selected Presentation

Paper presentations in this session discuss technology adoption in agricultural sector regarding trade, agricultural productivity, and supply response.

Moderator: Sarah A. Kopper, Michigan State University

Farm Size, Technology Adoption and Agricultural Trade Reform: Evidence from Canada

Mark Brown, Statistics Canada; **Shon Ferguson**, Research Institute of Industrial Economics; **Crina Viju**, Carleton University

Market Deregulation and Sector Profitability: Empirical Evidence from Sugar Beet Farming in Germany

Stefan G. Wimmer, Technical University of Munich; **Johannes Sauer**, Technical University of Munich

Relational Contracts, Technology Adoption, and the Agricultural Supply Response Function

Guilherme M. DePaula, Iowa State University

Production Credit Associations and Agricultural Productivity Change in the United States, 1920-1940

Brent M. Hueth, University of Wisconsin-Madison; **Jared Hutchins**, University of Wisconsin-Madison

1045 Water Supply and Demand

Park Tower 8212, Lobby Level

Selected Presentation

This session consists of four papers about water demand and supply, focusing on either agricultural sector or industrial sector.

Moderator: Kelly A. Grogan, University of Florida

Groundwater, Incomplete Regulation, and Climate Change: Micro-level Evidence on the Price Elasticity of Demand for Agricultural Groundwater

Ellen Bruno, University of California, Davis; **Katrina K. Jessoe**, University of California, Davis

Agricultural Irrigation's Responses to Federal Crop Insurance in the United States

Prasenjit Ghosh, Auburn University; **Ruiqing Miao**, Auburn University; **Ruiqing Miao**, Auburn University

The Impact of Social Norms, Feedback, and Price Information on Conservation Behavior: A Meta-Analysis

Mehdi Nemati, University of Kentucky; **Jerrod Penn**, Louisiana State University

Planning for a (Less) Rainy Day: Evaluating the Regional Welfare Impacts of Water Infrastructure Investment

Hua Zhong, University of Nevada, Reno; **Michael H. Taylor**, University of Nevada, Reno; **Kimberly S. Rollins**, University of Nevada, Reno; **Dale Manning**, Colorado State University; **Christopher Goemans**, Colorado State University

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1046 Health, Education, Infrastructure and Rural Development

Virginia B, Lobby Level

Selected Presentation

Papers in this session cover health, education and infrastructure issues as they relate to rural development. Papers include the effects of rural hospital closures, standardized testing, broadband expansion, and the effects of the Affordable Care Act.

Moderator: Todd M. Schmit, Cornell University

Exploring the Feasibility of Rural Broadband Expansion via the Cooperative Business Model

Todd M. Schmit, Cornell University; **Roberta M. Severson**, Cornell University

How Standardized Testing Affects Students' College Readiness in Texas

Meng Jiang, Texas A&M University; **Ariun Ishdorj**, Texas A&M University; **Rebekka M. Dudensing**, Texas A&M University

The Effect of Rural Hospital Closure on the Health Status and Access to Care of the Aging Population in five states of the United States

Lucia Y. Ona, Abraham Baldwin Agricultural College

1047 The Future of Agribusiness Research, Teaching and Extension

Roosevelt Room 1, Exhibition Level

Track Session – AEM and TLC Sections

To maintain relevance as academics during changes in the food and agribusiness industries, it is imperative that work through ideas on the future of the industries we serve. This session will ponder how we might respond as academics involved in agribusiness programs.

Organizer: Michael A. Gunderson, Purdue University

Moderator: Jason S. Bergtold, Kansas State University

The Future of Agribusiness in the Academy: Perspectives from Researchers, Extension and Teachers

Aaron J. Johnson, University of Idaho; **Jason S. Bergtold**, Kansas State University; **David Ripplinger**, North Dakota State University; **Kathleen R. Brooks**, University of Nebraska-Lincoln; **W. Scott Downey**, Purdue University

Agribusiness Research Frontiers: Agricultural Frontiers and Big Data

Aleksan Shanoyan, Kansas State University; **Jason S. Bergtold**, Kansas State University; **Terry W. Griffin**, Kansas State University

Agribusiness Extension: A Path Forward

David Ripplinger, North Dakota State University

Accreditation of Agribusiness Degree Programs: Needs and Paths Forward

Michael A. Gunderson, Purdue University

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1048 Ex-Ante Evaluation of the Quality of Index Insurance Contracts

Maryland C, Lobby Level

Track Session – AFM and Africa Sections

Despite justifiable excitement about its potential development impacts, index insurance has an Achilles heel. By construction, index insurance will fail to compensate the farmer who has individual-specific losses. In addition, most insurance indices are imperfect, failing to payoff even for common losses. Contract failure is not a trivial problem. With failure-prone index insurance, the worst outcome gets worse: the farmer pays an insurance premium, suffers total crop loss and receives no insurance payment. If index insurance is to realize its enormous cost-effective potential, implementable and verifiable quality standards are urgently needed. This session seeks to meet this need. The three papers offer methodological innovations to evaluate the quality of index insurance contracts for: Tanzania (rice), Burkina Faso (cotton) and Colombia (coffee). Each paper takes advantage of unique data sets to overcome steep data challenges and evaluate index insurance quality.

Organizer: Stephen R. Boucher, University of California, Davis

Moderator: Michael R. Carter, University of California, Davis

Assessing Index Insurance: Conceptual Approach and Empirical Application from Burkina Faso

Quentin Stoeffler, University of California, Davis; **Thomas Barré**, Université Paris-Est Marne-la-Vallée; **Michael R. Carter**, University of California, Davis

An Ex-Ante Evaluation of the Quality of an Index Insurance Contract for Coffee Farmers in Colombia

Stephen R. Boucher, University of California, Davis; **Andrés Moya**, Universidad de los Andes; **Santiago Gómez**, Universidad de los Andes

Fail-Safe Index Insurance Without the Cost: A Satellite Based Conditional Audit Approach in Tanzania

Jon Einar Flatnes, The Ohio State University; **Michael R. Carter**, University of California, Davis

1049 Competitiveness of Low-Income Agricultural Exporting Countries

Virginia C, Lobby Level

Track Session – COSBAE and International Sections

The purpose of this session is to examine issues affecting agricultural trade and development in export-oriented sectors in Sub-Saharan Africa (SSA). This session includes presentations on intra-ECOWAS food trade, analysis of the competitiveness of SSA and Latin America in global markets, and advancements in export-oriented sectors such as coffee and shea butter. The first presentation explores the factors that determine the survival of African exporters with a focus on the effects of competing exporters and country- and firm-level factors. The second examines the impacts of economic integration in West Africa on intra-ECOWAS food trade. The third explores the impacts of assistance and financial investments in export-oriented sectors such as coffee on small farmers in Rwanda. The final presentation explores competition in the global market for shea nuts and butter and Nigeria's competitive position in the context of trade barriers.

Organizer: Andrew Muhammad, University of Tennessee Institute of Agriculture

Moderator: Andrew Muhammad, University of Tennessee Institute of Agriculture

Export Survival in Africa and Latin America: Diversification, Synergies and Competition

Michael Olabisi, Michigan State University; **Luisa Blanco**, Pepperdine University; **Jesse Mora**, Occidental College; **James Prieger**, Pepperdine University

The Impact of ECOWAS Treaty on the Dynamics of Food Trade Among ECOWAS Member States

Olalekan Ibitoye, Federal University of Technology, Akure; **Adegboyega Eytayo Oguntade**, Federal University of Technology, Nigeria

Economic Inclusion of Smallholder Farmers: Findings from Impact Assessments on Horticulture and Coffee Farmers in Rwanda

Benjamin D. K. Wood, International Initiative for Impact Evaluation; **Mohamed Abouaziza**, International Fund for Agricultural Development; **Alessandra Garbero**, International Fund for Agricultural Development; **Tim Balint**, International Fund for Agricultural Development

Policies to Facilitate Shea Industry Modernization in Rural Nigeria

Patrick Hatzenbuehler, International Food Policy Research Institute

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1050 Design of Agri-Environmental Programs: Insights from Behavioral & Experimental Economics

Maryland B, Lobby Level

Track Session – CWAE and ENV Sections

Agri-environmental programs are designed to enhance the provision of ecosystem services from our nation's farmland. Because participation is voluntary, program effectiveness relies critically on a large pool of farmers applying to maximize enrolment of land with high conservation benefits and low costs. Our proposed session features four papers that apply insights from behavioral and experimental economics using field experiments to identify factors that drive farmer conservation decisions and to help improve agri-environmental program design. The papers will discuss the effect of social norms and framing in nudging farmer participation into conservation programs, and methods for eliciting farmer inter-temporal preferences and aversion to risk and losses. All four papers are funded by a new pilot program for behavioral economic applications jointly funded by NIFA and the ERS. The presenters will share their experience on how to develop successful grant proposals.

Organizers: Simanti Banerjee, University of Nebraska-Lincoln; Cloe Garnache, Michigan State University

Moderator: Cloe Garnache, Michigan State University

Enhancing Enrollment of Leased Land in Agri-Environmental Programs: An Investigation of the Conservation Stewardship Program in Kansas

Mykel R. Taylor, *Kansas State University*; **Simanti Banerjee**, *University of Nebraska-Lincoln*; **Leah H. Palm-Forster**, *University of Delaware*

Effect of Non-Monetary Incentives on Phosphorus Use and Conservation Program Participation: A Randomized Controlled Trial

Cloe Garnache, *Michigan State University*; **Joseph A. Herriges**, *Michigan State University*; **Frank Lupi**, *Michigan State University*; **Bruno Basso**, *Michigan State University*

Improving Information Framing with Field Experiments to Increase Participation of Hispanic Farmers in Conservation Programs

Michael P. Brady, *Washington State University*; **Nicholas Potter**, *Washington State University*; **Philip R. Wandschneider**, *Washington State University*; **Hayley H. Chouinard**, *Colorado State University*

Behavioral Economics of Time Preferences, Risk Preferences and Agri-Environmental Program Participation Among U.S. Producers

Collin Weigel, *Johns Hopkins University*; **Paul J. Ferraro**, *Johns Hopkins University*; **Mark Masters**, *Albany State University*; **Kent D. Messer**, *University of Delaware*

Concurrent Sessions **MONDAY, 1:00 PM - 2:30 PM**

1051 Ongoing and Emerging Land Use Trade-offs Impacting Crop Outlook

Virginia A, Lobby Level

Track Session – EXT Section

Aggregate U.S. crop production continues to show an increasing trend, although wheat may be beginning to exhibit a declining trend. Global consumption is also increasing supported by rising feed and bioenergy demand. Despite these increases the U.S. crop sector is facing a number of land use tradeoffs that could impact the outlook for U.S. crops. For example, bio-energy use continues to impact the crop mix, shifting consumer preferences may shift wheat and dry pulse acreage, the U.S. refined sugar market is responding to GMOs, the use of dicamba is colliding with acreage of other crops and economic and policy changes are impacting the acres devoted to peanuts and cotton. The objective of this session is to focus on these land use trade-offs impacting the outlook for U.S. crops.

Organizers: Linwood A. Hoffman, USDA-Economic Research Service; Suzanne D. Thornsby, USDA-Economic Research Service

Moderator: Sam Funk, RaboResearch Food & Agribusiness

Renewable Fuel Standard and Acreage Impacts: Ethanol and Biodiesel

Scott H. Irwin, *University of Illinois at Urbana-Champaign*

Shifting Consumer Preferences: Impacts on Wheat and Dry Pulse Acreage

Anton Bekkerman, *Montana State University*

U.S. Refined Sugar Market: Shocks and Responses to GM

Michael J. McConnell, *USDA-Economic Research Service*

When Commodities Collide: The Case of Dicamba

Aaron Smith, *University of Tennessee*

Economic and Policy Changes in the U.S. Peanut and Cotton Sector

Anne B. Effland, *USDA-Office of the Chief Economist*

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1052 Food Fraud, Food Safety, and Public Policy

Washington Room 4, Exhibition Level

Track Session – FSN and Senior Sections

Food fraud and problems with food safety erode the trust of consumers in the food supply. This lightning session includes papers looking at the impacts of food fraud, the value of trust in food safety in developing countries and in international trade, the impacts of foodborne illness on the U.S. population, and the impact of the FDA's Food Safety Modernization Act (FSMA).

Organizers: Sandra Hoffmann, USDA-Economic Research Service; Janet G. Peckham, Food and Drug Administration

Moderator: Janet G. Peckham, Food and Drug Administration

Consumer Trust and Distrust in Supermarket Food Systems in China

Lijun Chen, University of Missouri; Joe L. Parcell, University of Missouri; Harvey S. James Jr., University of Missouri

WTP for Increased Trust in Food Safety Certification Among Consumers in Vietnamese Cities

Wendy J. Umberger, University of Adelaide

The Incidence of Fraud in the Agri-Food Marketing System

Syed Imran Ali Meerza, University of Nebraska-Lincoln; Konstantinos Giannakas, University of Nebraska-Lincoln; Amalia Yiannaka, University of Nebraska-Lincoln

Food Fraud and International Trade

Kathryn A. Boys, North Carolina State University

The Economic Impact of the United States Department of Agriculture's Proposed and Final Rules to Reduce the Incidence of *Listeria Monocytogenes* in Ready-to-Eat Meat and Poultry Products

Matt Parrett, Food and Drug Administration; Travis Minor, USDA-Economic Research Service

An Exposure Weighted Measure of Foodborne Illness Risk

Gregory M. Astill, USDA-Economic Research Service

The Global Economic Impact of the FDA's FSMA Rules

Cristina McLaughlin, Food and Drug Administration; Aliya Sassi, Food and Drug Administration; Peter Vardon, Food and Drug Administration

1053 Using Retail and Household Panel Scanner Data in Research

Washington Room 5, Exhibition Level

Track Session – FAMPS and GSS Section

Proprietary retail and household scanner data have been used by many researchers to examine food policy questions. This session will feature current scanner data researchers who will discuss the representativeness and coverage of scanner data, why they chose the data for their research, and tips on using the data. A range of researchers will share their experiences using scanner data to answer food policy questions related to food and nutrition demand, the food purchasing behavior of food assistance program recipients and more. Presenters will include graduate students and academic/government researchers who have become experts at using the data. They will also address questions about data content and access through ERS or through the Kilt Center.

Organizers: Aaron M. Ates, Oklahoma State University; Xinzhe H. Cheng, USDA-Economic Research Service; Christiane Schroeter, California Polytechnic State University, San Luis Obispo

Moderators: Aaron M. Ates, Oklahoma State University; Xinzhe H. Cheng, USDA-Economic Research Service

Food-at-Home Expenditures: Comparing Commercial Household Scanner Data from IRI and Government Survey Data

Megan D. Sweitzer, USDA-Economic Research Service; Derick Brown, RTI International; Shawn A. Karns, RTI International; Mary K. Muth, RTI International; Peter Siegel, RTI International; Chen Zhen, University of Georgia

Examining Store Scanner Data: A Comparison of the IRI InfoScan Data with Other Data Sets

David Levin, USDA-Economic Research Service; Danton Noriega, Duke University; Christopher W. Dicken, USDA-Economic Research Service; Abigail M. Okrent, USDA-Economic Research Service; Matt Harding, University of California-Irvine; Michael Lovenheim, Cornell University



Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

Directly Requested Retail Scanner Data and Supplemental Product Information

Kristin Kiesel, *University of California, Davis*

Using Nielsen Scanner Data to Study Habit Formation to Dietary Fat in Consumer Demand for Ground Meat and Fluid Milk

Shaheer Burney, *University of Connecticut*

The Store Choice of SNAP and WIC Participants for Fill-in Purchases

Grace Melo, *Catholic University of Chile*; **Yizao Liu**, *Pennsylvania State University*; **Adam N. Rabinowitz**, *University of Georgia*; **Shelly Ver Ploeg**, *USDA-Economic Research Service*

Incorporating Variety and Pre-Commitment in Demand Interrelationships for Nut Products in the United States

Guo Cheng, *Texas A&M University*; **Senarath Dharmasena**, *Texas A&M University*; **Oral Capps Jr.**, *Texas A&M University*

Using IRI Scanner Data to Study the Impact of Soda Tax Policy on Consumer Price and Demand for Sugar-Sweetened Beverages

Hairu Lang, *University of California, Davis*; **Richard J. Sexton**, *University of California, Davis*; **Kristin Kiesel**, *University of California, Davis*

Private Labels and Cost Pass-Through in Fluid Milk Market

Xuan Chen, *Pennsylvania State University*; **Yizao Liu**, *Pennsylvania State University*; **Adam N. Rabinowitz**, *University of Georgia*

1054 On the Role of Advancements in Experimental and Behavioral Economic Methods

Harding, Mezzanine Level

Track Session – EXECON and IBES Sections

This session discusses further advancements of experimental and behavioral economic methods. First student and non-student samples' preferences and willingness to pay for local food are compared. Then, the impact of visual compared to text/verbal cheap talk scripts on willingness to pay is analyzed. Next, behavioral relevance of different discrete choice models specifications are discussed. Also, effects of experimental auctions and real choice experiments on derivation of welfare estimates are analyzed. Afterwards, impact of information regarding scientific evidence on the effect of neonicotinoids on pollinator insects on preferences is discussed. Next, positive versus negative outcome feedback on task performance using neurophysiological tools in a laboratory setting is tested. Then, effects of nutrition label format on preferences are examined. Finally, a naturally occurring field experiment is used to tease out marginal effects of information on water consumption.

Organizers: Carola Grebitus, *Arizona State University*; Hayk Khachatryan, *University of Florida*

Moderator: Robert S. Shupp, *Michigan State University*

Measuring Preferences and WTP with Choice Experiments. Differences Between Student and General Population Samples

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

The Impact of a Visual Cheap Talk Script on Willingness to Pay in a Choice Experiment

Karen L. DeLong, *University of Tennessee*; **Jade Ellis**, *University of Tennessee*; **Kimberly L. Jensen**, *University of Tennessee*; **Andrew P. Griffith**, *University of Tennessee*

What Do Non-Parametric Distributions of Random Coefficients Tell us About the Structure of Consumer Preferences?

Vincenzina Caputo, *Michigan State University*; **Carola Grebitus**, *Arizona State University*

Experimental Auctions vs Real Choice Experiment: An Empirical Application on Consumer Valuation for Food Quality Attributes

Angelos Lagoudakis, *Michigan State University*; **Vincenzina Caputo**, *Michigan State University*; **Robert S. Shupp**, *Michigan State University*

Impact of Positive and Negative Information in Choice Experiments

Hayk Khachatryan, *University of Florida*; **Xuan Wei**, *University of Florida*; **Alicia Rihn**, *University of Florida*

Effects of Feedback Information on Optimistic-Pessimistic Individuals

Michelle Segovia, *Texas A&M University*; **Marco A. Palma**, *Texas A&M University*

Will the Updated Nutrition Facts Panel Help the Transmission of Educational Information?

Brandon R. McFadden, *University of Florida*; **Sungeun Yoon**, *University of Florida*; **Zachary Neuhofer**, *University of Florida*; **Alicia Rihn**, *University of Florida*; **Hayk Khachatryan**, *University of Florida*

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

What was the Water Quality? A Naturally Occurring Field Experiment on Understanding the Effects of Information and Institutional Trust on the Use of Water Fountains in Mexico City Public Parks

Hernan D. Bejarano, *Centro de Investigación y Docencia Económicas and Chapman University*; **Francisco Alpizar**, *Centro Agronómico Tropical de Investigación y Enseñanza*; **David Heres Del Valle**, *Centro de Investigación y Docencia Económicas*

1055 Food Labeling to Limit Diet-Related Disease in Latin America

Washington Room 3, Exhibition Level

Track Session – International and LAS Sections

According to the World Health Organization, in 2014 about 39% of adults worldwide were overweight and 13% were obese (WHO, 2016). These problems are not only prevalent in high income countries and many low- and middle-income countries, including many Latin American countries, are now also experiencing problems with obesity and its associated health issues. Thus, governments around the world are considering and implementing a variety of policies to prevent these diet related problems. Papers presented in the session aim: 1) to provide a review of nutrition policies implemented in Latin America and aimed at the prevention of chronic conditions such as obesity, and 2) to evaluate the response of consumers and producers to these policies.

Organizers: Carlos E. Carpio, Texas Tech University; Luis A. Sandoval M, Zamorano University

Moderator: Carlos E. Carpio, Texas Tech University

Chronic Conditions and Food Nutrition Policies in Latin America: The Cases of Argentina, Mexico and Chile

Maria Eugenia Bonilla-Chacin, *World Bank*

Nutritional Regulation and Trade: The New Chilean Food Labeling Law

Sofia Boza, *University of Chile*; **Macarena Espinoza**, *University of Chile*; **Rodrigo Polanco**, *Bern University*

Can Traffic Light Nutritional Labels Modify Real Consumer Behavior? Experimental Evidence from a Developing Country

Oswaldo Molina, *Universidad del Pacífico*; **Daniel Defago**, *Universidad del Pacífico*; **Jose Geng**, *Universidad del Pacífico*; **Diego Santa María**, *Universidad del Pacífico*

Nutritional Labelling in Ecuador: Consumer and Industry Response

Luis A. Sandoval M, *Zamorano University*; **Carlos E. Carpio**, *Texas Tech University*; **Marcos Sanchez Plata**, *Texas Tech University*

1056 Millennial College Students: Learning Styles and Classroom Engagement

Roosevelt Room 2, Exhibition Level

Track Session – SS-AAEA Section

The generational differences in young people's motivation, learning styles, and career expectations have been noticed and discussed by employers and educators. The concern is that these changes in millennials' preferences, attitudes, and work habits can potentially make traditional student engagement strategies employed by college professors ineffective. The papers of this session will explore the factors that can enhance engagement of millennials in the classroom and help better understand the personality traits and learning style of millennial students as a distinctive group of learners.

Organizer: Maria Bampasidou, Louisiana State University

Moderator: Maria Bampasidou, Louisiana State University

Millennial College Students: What Keeps Them Engaged in Classroom? Multi-Institutional Survey of Agriculture Students

Aslihan D. Spaulding, *Illinois State University*; **Iuliia Protopop**, *Illinois State University*; **Yangxuan Liu**, *Eastern Kentucky University*; **Ross Pruitt**, *University of Tennessee*; **Michelle L. Santiago**, *Murray State University*; **Anil Giri**, *University of Central Missouri*; **Sankalp Sharma**, *Kent State University*

The Big Five Personality Traits and Learning Styles of Agriculture Students at Illinois State University and Purdue University

Bradley Braddock, *Illinois State University*; **Aslihan D. Spaulding**, *Illinois State University*; **W. Scott Downey**, *Purdue University*; **Iuliia Protopop**, *Illinois State University*

Understanding Millennial Employees in the Food and Agribusiness Industry: A National Survey

Michael Miner, *Illinois State University*; **Iuliia Protopop**, *Illinois State University*; **Aslihan D. Spaulding**, *Illinois State University*

Concurrent Sessions MONDAY, 1:00 PM - 2:30 PM

1057 Reduced-Form vs. Structural Approaches to Empirical Work - Is the Pendulum Swinging Back

Roosevelt Room 5, Exhibition Level

Track Session – Econometrics Section

With the advent of the Credibility Revolution in applied microeconomics (Angrist and Pischke, 2009 and 2010) and its emphasis on causal identification, there has been a turn away from “fancy” estimators which make distributional assumptions (such as probit, logit, and tobit) toward simpler linear methods which make no such assumption (such as OLS, 2SLS, difference-in-differences, regression discontinuity designs, and RCTs). Some feel, however, that in adopting the relatively atheoretical approach of the Credibility Revolution, the “econ” in econometrics has been lost along the way. Among all approaches to empirical work, structural econometrics has always given theory pride of place, and with the increasingly frequent use of experimental methods to elicit “deep” structural parameters, the identification of structural models has improved considerably. Prof. John Rust (Georgetown University), whose contributions to structural econometrics are among the best-known in the economics profession, will give his thoughts on the state of econometrics in a 60-minute lecture followed by a 30-minute Q&A with the audience.

Organizer: Marc F. Bellemare, University of Minnesota

Panelist: John Rust, Georgetown University

1058 Agricultural Labor Force, Immigration Policy, and Rural Development

Wilson B, Mezzanine Level

Track Session – CRENET and Senior Sections

American agriculture is dependent on immigrant labor, especially in specialized production and processing activities. Mechanization and robotics will continue to fill the rural labor gap but future gains will only come with large capital investment in mechanization and automation. Additionally, immigration policy changes may be dramatic and sudden, plunging production and processing into disarray, and leading to further losses from unharvested produce. What are the implications of immigration policy for rural development? While many rural communities are disappearing, immigrants in more accepting communities are starting businesses, buying homes, and getting involved in school and community activities. Our focus is on how dependent agriculture is on immigrants, how far and how fast mechanization can close the potential labor gap caused by immigration policy, and what are the implications of immigration reform for rural development.

Organizer: John A. Miranowski, Iowa State University

Moderator: John A. Miranowski, Iowa State University

Filling the Ag Labor Gap: Role and Constraints of Mechanization vs. Immigration

Daniel A. Sumner, *University of California, Davis*

Immigration Policy: Agriculture Friend or Foe

Stephen Devadoss, *Texas Tech University*

Ag Imports as Solution to Ag Labor Shortages: Immigration vs. Trade Policies

Wallace E. Huffman, *Iowa State University*

Rural Development: Immigration, Trade, and Rural Policies

John A. Miranowski, *Iowa State University*

1059 Decision Cases for Teaching

Maryland C, Lobby Level

Invited Case Studies

The invited case studies highlight the application of Benefit-Cost Analysis in analyzing public policy for undergraduate and graduate level applied economic classes. One of the cases analyzes The Dow Chemical Company's decision to restore the greenbelt area in Midland, Michigan. The other one discusses ways of tackling the complex problems in policy making using the example of Bear's Ear National Monument. Both these cases are relevant to a wide range of agricultural and applied economics courses.

Incorporating Environmental Data into Corporate Decision Making

Martha Rogers, *The Nature Conservancy*; **Thomas Polzin**, *Dow Chemical Company*; **Betsy Witt**, *AECOM*; **Steve Lucas**, *Dow Chemical Company*

Tackling Wicked Problems in Applied Economics: An Application to the Bear's Ears National Monument

Amanda J. Harker Steele, *University of Georgia*; **John C. Bergstrom**, *University of Georgia*

1060 Guest Worker Programs in Agriculture: Drivers of Change

Harding, Mezzanine Level

Organized Symposium

The H-2A agricultural guest worker program has expanded rapidly across the U.S. Panelists from the USDA/ERS and University of Florida (UF) have analyzed data from H-2A petitions and conducted several surveys of growers, workers, and other agricultural labor stakeholders with an emphasis on how H-2A workers are being used in the specialty crop industries.

Moderator: Fritz M. Roka, *University of Florida*

Panelists: **Marcelo J. Castillo**, *USDA-Economic Research Service*; **Diane Charlton**, *Montana State University*; **Derek Farnsworth**, *University of Florida*; **Zhengfei Guan**, *University of Florida*; **Thomas Hertz**, *USDA-Economic Research Service*; **Travis Minor**, *USDA-Economic Research Service*; **Gulcan Onel**, *University of Florida*

1061 Accommodating Diverse Cultural Backgrounds Among Instructors and Students: Challenges, Reflections, and Suggestions

Coolidge, Mezzanine Level

Organized Symposium

Diverse cultural backgrounds among faculty and students cast challenges in teaching and learning for both undergraduate and graduate students. This symposium brings together panelists with diverse backgrounds and addresses the issue from both perspectives – the international instructor teaching domestics and the domestic mentor advising international students.

Organizers: Wen You, *Virginia Tech*; Na Zuo, *University of Arizona*

Moderator: Wen You, *Virginia Tech*

Panelists: **Wuyang Hu**, *University of Kentucky*; **Bruce A. McCarl**, *Texas A&M University*; **Jerrod Penn**, *Louisiana State University*; **Hong Holly Wang**, *Zhejiang University and Purdue University*; **Yanliang Yang**, *Virginia Tech*; **Na Zuo**, *University of Arizona*

Concurrent Sessions **MONDAY, 2:45 PM - 4:15 PM**

1062 The Many Facets of the Supplemental Nutrition Assistance Program

Virginia B , Lobby Level

Selected Presentation – Lightning Session

The Supplemental Nutrition Assistance Program is vital to the food security of many people. After attending this lightning session, attendees will have an in-depth understanding of the program and how it affects society. This session emphasizes the impacts of the program and highlights the importance of the program on populations at risk of food insecurity.

Moderator: Grace Melo, Catholic University of Chile

Food Choices of SNAP/WIC Participants at Convenience Stores and Larger Stores

Grace Melo, Catholic University of Chile; Adam N. Rabinowitz, University of Georgia

The Impacts of the Food Stamp Program on Mortality

Jordan W. Jones, Georgia State University; Charles Courtemanche, Georgia State University; James Marton, Georgia State University

The Supplemental Nutrition Assistance Program: Current Restricted Expenditures

Andrea M. Leschewski, South Dakota State University; Dave D. Weatherspoon, Michigan State University

Fill-in Purchase Decisions of SNAP/WIC Households

Grace Melo, Catholic University of Chile; Adam N. Rabinowitz, University of Georgia; Yizao Liu, Pennsylvania State University; Shelly Ver Ploeg, USDA-Economic Research Service

Impact of the 2014 Medicaid Expansion on SNAP Participation

Shaheer Burney, University of Connecticut; Rebecca L. Boehm, University of Connecticut; Rigoberto A. Lopez, University of Connecticut

The Impacts of SNAP Participation and 2013 SNAP Benefit Decrease on Food Insecurity for Households with Member(s) with Disability

Seungyeon Cho, Texas A&M University; Ariun Ishdorj, Texas A&M University; Christian A. Gregory, USDA-Economic Research Service

Impact of EBT Transition on WIC Participation

Xuemei Li, University of California, Davis; Tina L. Saitone, University of California, Davis; Richard J. Sexton, University of California, Davis

How Would a Discount on Fruits and Vegetables Benefit Poor Households?

Dominique J. Rolando, University of Minnesota

Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1063 Risk and Uncertainty - Lightning Session

Wilson C, Mezzanine Level

Selected Presentation - Lightning Session

Lightning paper session on risk and uncertainty.

Moderator: Ziran Li, Southwestern University of Finance and Economics

Soybean Crush Spread: Evidence of the Hedging Pressure Hypothesis

Ziran Li, *Southwestern University of Finance and Economics; Dermot J. Hayes, Iowa State University*

Policy Changes in Federal Crop Insurance and Implications for Adverse Selection and Moral Hazard

Dylan D. Bouchard, *North Carolina State University*

Farm Level Risk Balancing Behavior and the Role of Latent Heterogeneity

Aderajew AS Tamirat, *Maastricht University; Andres A. Trujillo-Barrera, Wageningen University; Joost M. E. Pennings, Maastricht University and Wageningen University*

Does Crop Insurance Enrollment Exacerbate the Negative Effects of Extreme Heat? A Farm-level Analysis

Madhav Regmi, *Kansas State University; Jesse B. Tack, Kansas State University*

Extreme Events and Serial Dependence in Commodity Prices

Eunchun Park, *Mississippi State University; Josh Maples, Mississippi State University*

A Game-Theoretic Model of Crop Flood Indemnity Claims in South Florida

Christina E. Brown, *Florida International University; Mahadev Bhat, Florida International University*

Optimal Time for Treatment of a Crop Disease: A Real Options Approach

Prithviraj Lakkakula, *North Dakota State University*

The Downside of Good Rains: Drought Risk and WTP for Maize with Weather Contingent Advantages

Laura A. Paul, *University of California, Davis*

1064 Risk and Resilience in Agribusiness

Park Tower 8219, Lobby Level

Selected Presentation

This session focuses on issues related to price, risk and pest resilience in agribusiness.

Moderator: Subir K. Bairagi, International Rice Research Institute

Realized Risk Premium, Future Prices and Hedging Positions: A Disaggregated Data Analysis on U.S. Wheat Markets

Nam Hoang, *University of New England; Terrance Grieb, University of Idaho*

Exploring the Effect of Disease Outbreaks on Farm Structure Change: A Dynamic Analysis for Canadian Pig Industry

Yanan Zheng, *University of Alberta; Ellen W. Goddard, University of Alberta; Feng Qiu, University of Alberta*

A Hedonic Price Model of Canadian Holstein Semen Prices: Analysis of Changes in Key Sire Attributes for Farmer Breeding Decision-Making Behaviour

Aggar A. Frias Luna, *University of Alberta; Ellen W. Goddard, University of Alberta*

Agribusiness Firm Value Impacts of Highly Pathogenic Avian Influenza Outbreak

Jada Thompson, *University of Tennessee; Carlos O. Trejo-Pech, University of Tennessee; Dustin L. Pendell, Kansas State University*

Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1065 Behavioral Economics around the Globe

Roosevelt Room 4, Exhibition Level

Selected Presentation

The papers in this session are about research conducted in China, India, Bangladesh and Ethiopia. The authors use surveys, randomly constructed household data, panel data and lab-in-the-field experiments to address classic behavioral economics topics such as transaction costs, risk preferences and trust from a developing world perspective.

Moderator: Gnel Gabrielyan, Cornell University

Transaction Cost in China's Rural Land Rental Market: Bargaining over the Degree of Contractual Formality

Ziyan Yang, University of Maryland

Can a Women's Rural Livelihood Program Improve Mental Health? Experimental Evidence from India

Ashutosh Kumar, Washington State University; **Tauhidur Rahman**, University of Arizona

Shocks and Risk Preferences Revisited: Causal Inferences from Panel Data Versus Cross-Sections

Ferdinand Vieider, University of Reading; **Salvatore DiFalco**, University of Geneva

Improving Farmer Trust and Seller Reciprocity in Agricultural Input Markets: A Lab-in-the-Field Experiment in Bangladesh

Alan D. De Brauw, International Food Policy Research Institute; **Berber Kramer**, International Food Policy Research Institute

1066 U.S. Demand for Sugar Sweetened Beverages.

Washington Room 6, Exhibition Level

Selected Presentation

The consumption of sugar-sweetened beverages (SSB) has grown over the past several decades, raising public health concerns of its consumption on obesity and other chronic diseases, and economic concerns of the healthcare costs associated with these chronic diseases. Several U.S. cities and counties have proposed and implemented SSB taxes as a way to discourage its consumption. This session examines demand for SSBs using scanner data and the potential for SSB taxes to curb its consumption.

Moderator: Xuan Chen, Pennsylvania State University

Impact of Soda Taxes on Consumer Prices and Demand for Sugar-Sweetened Beverages

Hairu Lang, University of California, Davis; **Kristin Kiesel**, University of California, Davis; **Richard J. Sexton**, University of California, Davis

Revisiting the Effects of Sugar Tax on Demand Elasticities - Evidence from the BLP Demand Model

Yinjunjie Zhang, Texas A&M University; **Marco A. Palma**, Texas A&M University

The Rational Addiction, Health Information and Dynamic Demand of Energy Drinks

Xuan Chen, Pennsylvania State University

1067 Decision Theory: Information

Park Tower 8228, Lobby Level

Selected Presentation

This session highlights the power of information in decision-making under laboratory and field experiments. The studies in this session explore the effects of information in social accountability, energy consumption, the diffusion of farming practices and consumer responses to food authenticity. The results highlight the potential outcomes of intervention programs across a diverse set of situations.

Moderator: Syed Imran Ali Meerza, University of Nebraska-Lincoln

Consumer Response to Food Fraud

Syed Imran Ali Meerza, University of Nebraska-Lincoln; **Christopher R. Gustafson**, University of Nebraska-Lincoln

Social Accountability and Service Delivery: Evidence from a Large-Scale Experiment in Uganda

Nathan Fiala, University of Connecticut

Comparison of Targeting Methods for the Diffusion of Farming Practices: Evidence from Shrimp Producers in Vietnam

Guenwoo Lee, University of Tokyo; **Aya Suzuki**, University of Tokyo; **Hoang Nam Vu**, Foreign Trade University

Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1068 All About Water: Aquaculture and Produce Marketing

Wilson A, Mezzanine Level

Selected Presentation

Papers in this session bring together work on the impact of drought on the fruit and vegetable markets, with studies on markets for fish and aquaculture products across the United States.

Moderator: Kofi Britwum, University of Maine

More Farms on The Water? U.S. Consumers' Perceptions of Aquaculture Practices and Products

Kofi Britwum, University of Maine; **Caroline L. Noblet**, University of Maine; **Keith S. Evans**, University of Maine

Effects of California Drought on Fresh Fruit and Vegetable Prices Over Time and Across Space

Metin Cakir, University of Minnesota; **Timothy Beatty**, University of California, Davis; **Timothy A. Park**, USDA-Economic Research Service

Consumer Demand for Lionfish Meat in the U.S. Virgin Islands: Zero-Inflated Regression Model

Lisa A. House, University of Florida; **Skylar M. Simnitt**, University of Florida; **Sherry L. Larkin**, University of Florida; **Jennifer Tookes**, Southern Georgia University; **Tracy Yandle**, Emory University

Consumer Preference of Away-From-Home Sustainable Salmon Consumption: East vs. West Cultural Comparison

Zhifeng Gao, University of Florida; **Yingkai Fang**, University of Florida

1069 How Policy Programs and Agronomic Research Affect Land Use and Greenhouse Gas Emissions

Virginia C, Lobby Level

Selected Presentation

There is an increasing push by government programs to reduce the footprint of agricultural production. This session examines issues of greenhouse gas emissions and land use on several continents. Specifically, this session examines how direct payments and net returns for commodities affect entry and exit in programs that promote more environmentally-friendly production practices. Additionally, this session determines how policy support and agronomic research affect land management and greenhouse gas emissions.

Moderator: Daniel C. Voica, Massey University

The Production Effects of Crop Diversification Requirements under the European Union Greening Policy

Daniel C. Voica, Massey University; **Stefan G. Wimmer**, Technical University of Munich

Assessing the Impact of Closing Global Commodity Yield Gaps on Food Production and Land-Use Change Emissions from Biofuels

Jerome Dumortier, Indiana University – Purdue University Indianapolis; **Amani E. Elobeid**, Iowa State University; **Miguel A. Carrquiry**, Universidad de la Republica

Agricultural Policy and Greenhouse Gas Emissions in Brazil

Yuri Clements Daglia Calil, Texas A&M University; **Carmine Paolo De Salvo**, Inter-American Development Bank

Impacts of Net Returns Per Acre on Land Use after Conservation Reserve Program Contract Expiration

Meongsu Lee, University of Missouri

Concurrent Sessions **MONDAY, 2:45 PM - 4:15 PM**

1070 The Intersection of Food, Nutrition, and Health for Low-Income Households

Roosevelt Room 5, Exhibition Level

Selected Presentation

This session focuses on food and nutrition issues in low-income U.S. households. Papers cover topics such as influencing food choice in food pantries, the impact of Medicaid on consumption of sugary drinks, food environment and food choice, and health care impacts on dietary quality.

Moderator: Aaron A. Adalja, Cornell University

Medicaid Expansion and Sugar Consumption in Carbonated Soft Drinks

Xi He, University of Connecticut; **Rigoberto A. Lopez**, University of Connecticut; **Rebecca L. Boehm**, University of Connecticut

The Effects of Exogenous Changes in Food Environment on Households' Healthfulness of Food Purchases

Zefeng Dong, Pennsylvania State University; **Edward C. Jaenicke**, Pennsylvania State University; **Annemarie Kuhns**, USDA-Economic Research Service

Impact of U.S. Health Care Provision Changes on Diet Quality Among the Poor

Rebecca L. Boehm, University of Connecticut; **Shaheer Burney**, University of Connecticut; **Xi He**, University of Connecticut; **Rigoberto A. Lopez**, University of Connecticut

1071 Agricultural Households and Imperfect Labor Markets

Washington Room 2, Exhibition Level

Selected Presentation

Agricultural Households and Imperfect Labor Markets

Moderator: Christopher Burns, USDA-Economic Research Service

Agricultural Labor Markets and Fertilizer Demand: Intensification is Not a Single Factor Problem for Non-Separable Households

Sarah A. Kopper, Michigan State University

Does Climate Change Influence Demand? Indian Household Behavior with Imperfect Labor Markets

Catherine Benjamin, Université de Rennes 1; **Ewen Gallic**, Université de Rennes 1

Undocumented and H2A Farm Workers' Relative Health Care Access and Choices in the United States

Jyotsna Ghimire, University of Georgia; **Cesar L. Escalante**, University of Georgia - Athens; **Ramesh Ghimire**, Atlanta Regional Commission

1072 Effect of Policies Targeting Pollution, Helping Farmers, and Ensuring Food Quality

Washington Room 4, Exhibition Level

Selected Presentation

This session examines the effect of various policies, including those targeting pollution, helping farmers, and ensuring food quality.

Moderator: Wade Brorsen, Oklahoma State University

Does California's LCFS Reduce CO2 Emissions?

Samir Huseynov, Texas A&M University; **Marco A. Palma**, Texas A&M University

Clean Energy Investment and Government Policies Under Technology Risk

Fanglin Ye, Tianjin University of Finance and Economics; **Nick Paulson**, University of Illinois at Urbana-Champaign; **Madhu Khanna**, University of Illinois at Urbana-Champaign

Measuring Oligopsony Power in Thai Jasmine Rice Market; Re-evaluating the Paddy Pledging Program

Kaittisak Kumse, University of Tokyo; **Nobuhiro Suzuki**, University of Tokyo; **Takeshi Sato**, University of Tokyo

The Uneven Spread of Private Food Quality Standards Over Time and Space

Insa Flachsbarth, University of Göttingen; **Nina Grassnick**, University of Göttingen; **Amjad Masood**, Khwaja Fareed University of Engineering and Information Technology; **Bernhard Bruemmer**, University of Göttingen

Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1073 Tech Adoption

Washington Room 3, Exhibition Level

Selected Presentation

Studies in this session examine the determinants and impact of technology adoption on farmer outcomes.

Moderator: Kwaw S. Andam, International Food Policy Research Institute

Understanding the Rationale for Heterogeneous Farmers' Agricultural Technology Adoption Decisions

Jessica Zhu, University of Wisconsin-Madison

Safe and Secure: Impact of Safe Storage Technology on Food Security in India

Pallavi Shukla, University of Illinois at Urbana-Champaign; **Kathy Baylis**, University of Illinois at Urbana-Champaign; **Hemant K. Pullabhotla**, University of Illinois at Urbana-Champaign

Estimating the Impact of a Credit and Technology Intervention on Farmer Maize Transactions: Insights from an RCT in Tanzania

Hira Channa, Purdue University; **Jacob Ricker-Gilbert**, Purdue University; **Shiferaw T. Feleke**, University of Tennessee; **Tahirou Abdoulaye**, International Institute of Tropical Agriculture

Does Mobile Communication Increase Outcomes for Cotton Farmers? Evidence from Mozambique

Daniel K. Stein, IDinsight; **Nikolaus Axmann**, IDinsight and Harvard Kennedy School; **Kevin Leiby**, IDinsight and Harvard Kennedy School; **Ignacio Busto**, IDinsight

1074 Water Quality

Park Tower 8222, Lobby Level

Selected Presentation

Effects of policies, programs, and agricultural production on water quality in the United States.

Moderator: David Brian Willis, Clemson University

Economic Benefits of Implementing a Tradeable Permit System in a Rapidly Growing Urban Watershed to Achieve Regional Water Quality Standards

David Brian Willis, Clemson University; **Charles V. Privette**, Clemson University

The Influence of Environmental Quality Incentives Program (EQIP) on Local Water Quality: Evidence from Monitoring Station Level Data

Pengfei Liu, University of Connecticut; **Yu Wang**, China Agricultural University; **Wei Zhang**, Connecticut College

Fertilizer Use and Water Quality in the United States

Jayash Paudel, University of Massachusetts, Amherst; **Christine L. Crago**, University of Massachusetts, Amherst

Land-lake Dynamics: Are There Welfare Gains from Targeted Policies in a Heterogeneous Landscape

Sathya Gopalakrishnan, The Ohio State University; **Hongxing Liu**, Lafayette College

1075 Production Economics - Methodological Frontiers

Park Tower 8216, Lobby Level

Selected Presentation

Papers in this session push the boundaries of methods in applied agricultural production economics.

Moderator: Farzad Taheripour, Purdue University

Generalizing the General: Generalizing the CES Production Function to Allow for the Flexibility of Input-Driven Output Risk and Viability of Input Thresholds

Seyyed Ali Zeytoon Nejad Moosavian, North Carolina State University; **Barry K. Goodwin**, North Carolina State University

Multi-Armed Bandit for Experimental Plot Selection

Yuji Saikai, University of Wisconsin-Madison; **Paul D. Mitchell**, University of Wisconsin-Madison; **Jed Colquhoun**, University of Wisconsin-Madison

Agricultural Productivity and Price Volatility in France: A Dynamic Stochastic Partial Equilibrium Approach

Yu Zheng, INRA; **Gohin Alexandre**, INRA and SMART-LERECO



Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1076 Economic Impacts of Temperature Shocks

Wilson B, Mezzanine Level

Selected Presentation

The four papers in this session examine temperature shocks' impact on firm productivity, labor demand, and GDP, with data for the United States, China, India, or Africa.

Moderator: Xiaobing Zhao, Northern Arizona University

The Economic Impact of Temperature Shocks on China and India using Subnational Data

Xiaobing Zhao, Northern Arizona University

Temperatures, Productivity, and Firm Competitiveness in Developing Countries: Evidence From Africa

Jeremy D. Foltz, University of Wisconsin-Madison; **Nouhoum Traore**, University of Wisconsin-Madison

Well-being Effects of Extreme Weather Events in the United States

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

1077 Cover Crops and Land Conservation

Park Tower 8212, Lobby Level

Selected Presentation - Discussant Test Session

This session consists of papers examining the related topics of cover crops and land conservation. Two of the papers assess the benefits of cover crops while the other two papers analyze aspects of cost-effectiveness in land conservation programs.

Moderator: Haoluan Wang, University of Maryland at College Park

Uptake and Additionality in a Green Payment Program: A Panel Data Study of the Maryland Cover Crop Program

Erik Lichtenberg, University of Maryland; **Haoluan Wang**, University of Maryland at College Park; **David Newburn**, University of Maryland

Do Cost-Share Programs Result in Higher Adoption of Cover Crops in Iowa? A Propensity Score Matching Assessment

Alejandro Plastina, Iowa State University; **Fangge Liu**, Iowa State University; **Wendiam Sawadgo**, Iowa State University

Cost-effectiveness of Nutrient Loss Reduction from Working Lands Agricultural Conservation Expenditures

Shanxia Sun, Shanghai University; **Ben Gramig**, University of Illinois at Urbana-Champaign; **Michael Delgado**, Purdue University

Cost Effectiveness of Conservation Auctions Revisited: The Benefits of Information Rents

Steven Wallander, USDA-Economic Research Service; **Daniel M. Hellerstein**, USDA-Economic Research Service; **Reid Johnsen**, University of California, Berkeley

Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1078 How Cooperatives Create Value and Differential Economic Impact

Washington Room 5, Exhibition Level

Track Session – AEM and AFM Sections

Cooperatives, particularly farmer-owned cooperatives, serve important functions for many agricultural industries in improving market access and bargaining power on behalf of their members. Local membership control through member-user boards of directors and residual earnings distributed to member-owners based on use are distinctive features of this business model that results value creation for members and differential economic impacts to local economies compared with traditional investor-owned firms. Unfortunately, these differences are hard to measure empirically due to both heterogeneous interpretations of value by members and a lack of necessary data to tease out financial differences on local economic impact. The papers in this session shed light on these impediments from both conceptual and empirical applications that contribute to and extend beyond previous efforts in the literature.

Organizer: Todd M. Schmit, Cornell University

Moderator: Todd M. Schmit, Cornell University

Discussant: Steven C. Deller, University of Wisconsin-Madison

How Cooperatives Create Value and what that Means for Measuring their Economic Impact

Christopher Peterson, *Michigan State University*

Assessing Differential Economic Impacts for Agricultural Cooperatives in New York State

Frederick C. Tamarkin, Cornell University; Todd M. Schmit, Cornell University; Roberta M. Severson, Cornell University

The Economic Impacts of Cooperatives in the Cotton Value Chain

Rebekka M. Dudensing, Texas A&M University; Philip Kenkel, Oklahoma State University; John L. Park, Texas A&M University

1079 Risk Management Programs and the Farm Bill

Roosevelt Room 3, Exhibition Level

Track Session – ARA Section

The negotiations over the 2018 Farm Bill cover commodity support and risk management programs, which are the second largest USDA budgetary expenditure after nutrition programs. Congressional budget disciplines, relatively low net farm income and prices for several major crops, and yield basis risk all play into the negotiations over program changes. This discussion will provide government, industry, and academic perspectives on issues regarding changes to risk management programs in the Farm Bill and their implementation.

Organizer: Joseph C. Cooper, USDA-Economic Research Service

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

Panelists: Keith H. Coble, Mississippi State University; Joy L. Harwood, USDA-Farm Service Agency; Robert C. Johansson, USDA-Office of the Chief Economist; Thomas W. Worth, USDA-Risk Management Agency; Thomas P Zacharias, National Crop Insurance Services

Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1080 Land Grant Universities and Rural Development: Are We Using All the Tools in Our Toolboxes?

Roosevelt Room 1, Exhibition Level

Track Session – CRENET and EXT Sections

The 2016 presidential election, combined with the opioid crisis, have focused national attention on a set of rural development issues that are quite separate from “big ag.” Fortunately, a small but dedicated group of applied economists, sociologists, extension specialists, and public officials has been working on these issues for decades. Now is an appropriate time to reflect on our institutional capacity to support human capital and cultivate economic opportunity over the nation’s vast rural expanse. Representatives of the USDA, the USDA-funded Regional Rural Development Centers, and other applied economists from the land grants will speak about recent successes and future challenges, in a session that welcomes input from the field.

Organizers: Stephan J. Goetz, Penn State University; Paul D. Gottlieb, Rutgers University; Steven C. Turner, Mississippi State University

Moderator: Paul D. Gottlieb, Rutgers University

The Rural Public Health Crisis: Can the Land Grants do More?

Mark Skidmore, Michigan State University

SET: A Case Study of a Logical Approach to Rural Development

Steven C. Turner, Mississippi State University

The Scope of Rural Economic Research Supported by AFRI Competitive Programs

Robbin Shoemaker, National Institute of Food and Agriculture

Understanding the Drivers of Rural Development – How Can we Bridge the Gap Between Research and Policy?

Heather Stephens, West Virginia University

Research as the Foundation of Outreach

James M. Fannin, Louisiana State University

1081 Contemporary Guidance for Benefit Transfers

Maryland A, Lobby Level

Track Session – ENV Section

The peer-reviewed valuation literature focuses on original studies, while public decisions mostly rely on reuse of existing valuation estimates; commonly referred to as benefit transfers. Unfortunately, there is no systematic guidance for benefit-transfer practice, which results in substantial variability across applications that undermines scientific validity and the credibility for decision making. An international team is developing guidance based on what is known about validity and reliability of benefit-transfer procedures. The session will include authors of the guidance and government economists that conduct benefit transfers to support decision making. The purpose of this session is to provide an overview of the state-of-the-art, discussion major challenges in practice and seek feedback from the audience to enhance guidance and practice. The goal is to motivate systematic research that will enhance the validity of benefit transfers thereby improving practice to support decision making.

Organizer: Kevin J. Boyle, Virginia Tech

Moderator: Roy Bouwer, University of Waterloo

Panelists: Kevin J. Boyle, Virginia Tech; LeRoy T. Hansen, USDA-Economic Research Service; Julie A. Hewitt, U.S. Environmental Protection Agency Robert J. Johnston, Clark University; William J. Wheeler, U.S. Environmental Protection Agency

Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1082 Do Consumers Experience Information Overload? Bundled, Attraction, and Mandatory Labeling Effects on Consumer Attitudes Towards Genetically Modified Food

Maryland B, Lobby Level

Track Session – EXECON and FAMPS Section

As the number of food attribute labels explodes, consumers face complicated issues related to valuing individual labels and bundled labels, as well as understanding overlapping or contradictory signals provided by multiple labeled products. The papers in this session discuss important findings from across the U.S. on consumer preferences and willingness to pay (WTP) for genetically modified (GM) food product labeling. Three papers discuss the consumer perceptions and WTP for multi-labeled products. Four papers discuss consumer reaction, purchase propensity, and WTP in response to upcoming mandatory GM ingredient food labeling requirements, including attraction effects and willingness to avoid GM foods. All session papers use behavioral and experimental methodologies and provide important results on labeling policy benefits and drawbacks through valuation estimates. The session papers also discuss the efficiency of cues/nudges of current and future GMO food labels.

Organizers: Kynda R. Curtis, Utah State University; Marco A. Palma, Texas A&M University

No Price for Decoys: Studying Attraction Effects

Daniel E. Chavez, Texas A&M University; Marco A. Palma, Texas A&M University; Allan Chen, University of Kentucky

Do Extra Labels Pay? The Impact of Non-GMO and Health Labels on Consumer WTP for Organics

Tatiana Drugova, Utah State University; Kynda R. Curtis, Utah State University

Does Mandatory Labeling in Vermont Impact Sales of Products Labeled “Produced or Partially Produced Using Genetic Engineering?”

Jane M. Kolodinsky, University of Vermont; Orest Pazuniak, University of Vermont

Who are the GM-Free Shoppers? Target-Marketing for Medjool Date Consumer Segments

Carola Grebitus, Arizona State University; **Anne O. Peschel**, Aarhus University; Renee Shaw Hughner, Arizona State University

Determinants of Willingness to Pay to Avoid and Gain Labels that Communicate the Presence or Absence of Genetically Modified Food

Brandon R. McFadden, University of Florida

Produce Buyer Perceptions of Local, Organic, and GMO Labeling

Benjamin L. Campbell, University of Georgia; Joshua P. Berning, University of Georgia

Consumer Perceptions, Willingness-to-Pay, and Visual Attention to Non-GMO Labels on Food-Producing Plants

Hayk Khachatryan, University of Florida; Alicia Rihn, University of Florida

What have we Learned and what is Ahead in GM Labeling – A Discussion

Marco A. Palma, Texas A&M University

Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1083 Academic Requirements: Publications, Grant Proposals, and Regional Research

Washington Room 1, Exhibition Level

Track Session – GSS and SCE Sections

This session will provide valuable insight for individuals in all stages of their academic career. Due to the increasing pressure to publish applied research papers in top academic journals and heavy competition amongst investigative teams when applying for grant proposals, it is easy for both graduate students and seasoned professors to feel overwhelmed when asked to meet various departmental requirements necessary for the advancement of careers. Professors who have outstanding publication records, successfully receive grant funding annually, and run successful regional research programs will share their knowledge gained over the years regarding these topics.

Organizers: Aaron M. Ates, Oklahoma State University; R. Karina Gallardo, Washington State University

Moderator: Aaron M. Ates, Oklahoma State University

Tapping Opportunities to Expand Your Research: The Role of Regional Research Committees and National Grant Programs

Dawn D. Thilmany McFadden, Colorado State University

Licensing Schemes for New Plant Varieties Developed by Land Grant Universities: An Industry Perspective

Jill J. McCluskey, Washington State University

How to Survive Working in Transdisciplinary Projects

R. Karina Gallardo, Washington State University

How to Write and Publish Applied Econ Papers

Marc F. Bellemare, University of Minnesota

1084 “Institutional Alertness” in Research, Teaching and Extension: In Memory of A. Allan Schmid and David Schweikhardt

Hoover, Mezzanine Level

Track Session – EXT and IBES Sections

This session discusses the importance of institutional economics in enhancing research, teaching, and extension outcomes. The presenters provide specific examples from their own experiences. In addition to discussing institutional economics, the presentations pay tribute to Drs. A. Allan Schmid and David Schweikhardt who passed away in 2017. Introductory remarks about the general area of institutional economics are followed by three short presentations on research, teaching, and outreach. Following the presentations, the remainder of the session is dedicated to a moderated discussion.

Organizer: B. James Deaton Jr., University of Guelph

Moderator: Sathya Gopalakrishnan, The Ohio State University

The Role of “Institutional Alertness” in Supporting Research on Natural Resources and Rural Development

B. James Deaton Jr., University of Guelph

The Role of “Institutional Alertness” in the Development of Content for Undergraduate Agricultural Economics Courses

James A. Sterns, Oregon State University

The Role of “Institutional Alertness” in Extension and Outreach

Eric A. Scorson, Michigan State University

Concurrent Sessions MONDAY, 2:45 PM - 4:15 PM

1085 Women's Empowerment for Agriculture and Nutrition in South Asia

Roosevelt Room 2, Exhibition Level

Track Session – FSN and International Sections

Recent work has emphasized the role of women's empowerment in achieving numerous outcomes in agrarian South Asia. In this panel, we consider several different approaches to measuring empowerment in South Asia. Utilizing regression decomposition techniques, Nayaranan et al. present a scorecard of the Women's Empowerment in Nutrition Index to identify community and household-level obstacles to women's nutrition in India. From Pakistan, Gazdar et al. consider survey methodology and measures related to women's earning and time use. Using data from Nepal, O'Hara and Clement compare results from their context-specific Critical Consciousness Index to the Women's Empowerment in Agriculture Index. Lentz and Ismail use panel data from Bangladesh to estimate the contribution of gendered decision-making and asset ownership to within-household differences in adult nutritional status. The aim of the panel is to spark a robust discussion on the future of measuring empowerment.

Organizer: Erin C. Lentz, University of Texas at Austin

The Nutritional Empowerment Diagnostic Tool: Using a Scorecard Approach to Identify Obstacles to Women's Empowerment in Nutrition Across Indian States

Sudha Narayanan, Indira Gandhi Institute of Development Research; **Marzia Fontana**, Independent researcher; **Erin C. Lentz**, University of Texas, Austin; **Bharati Kulkarni**, National Institute of Nutrition

The Economic Backbone – Women in Agriculture: Measuring Economic Activities of Women in Sidh Pakistan

Haris Gazdar, Collective for Social Science Research; **Sidra Mazhar**, Collective for Social Science Research; **Mysbah Balagamwala**, Oxford Policy Management

Power as Agency: A Critical Reflection on the Measurement of Women's Empowerment in the Development Sector in Nepal

Corey O'Hara, Tufts University; **Florian Clement**, International Water Management Institute

How Does Empowerment Influence Within-Household Differences in Adult Nutritional Status?: Findings from Panel Data in Bangladesh

Erin C. Lentz, University of Texas, Austin; **Ghida Ismail**, University of Texas, Austin

1086 Structural Change in Agricultural Production: A Micro Perspective

Virginia A, Lobby Level

Track Session – International and Senior Section

The process of structural transformation in agriculture has been remarkably uniform both across countries and over time. This uniformity has given rise to several stylized facts that describe the transformation, at the macroeconomic level. The papers in this session use micro data to investigate if these stylized facts are observable at the household or village level. Josephson et al. use household data from Bangladesh to examine the reallocation of labor from farm to non-farm employment. McCullough empirically measures the local equilibrium effects associated with structural transformation in Tanzania, particularly with regards to demand for non-tradable goods and services in rural economies. Michler uses 40 years of panel data from rural India to track sectoral changes in employment and income as well as test the hypothesis of induced innovation in agricultural production.

Organizers: Anna Josephson, University of Arizona; Jeffrey D. Michler, University of Saskatchewan

Discussant: George W. Norton, Virginia Tech

An "Industrious Revolution": Changes in the Household Economy in Rural Bangladesh

Anna Josephson, University of Arizona; **Jeffrey D. Michler**, University of Saskatchewan

Demand Systems for Non-Tradable Goods and Services in African Village Economies

Ellen McCullough, University of Georgia

Agriculture in the Process of Development: 40 Years of Evidence from Village India

Jeffrey D. Michler, University of Saskatchewan, **George W. Norton**, Virginia Tech



2001 Mobile Phone Platform Development: New Research and New Frontiers in Developing Countries

Virginia C, Lobby Level

Invited Paper

Mobile phones have opened up new forms of communication and information sharing in developing countries. Phones are rapidly transforming lives and livelihoods, as residents of rural areas previously served by one-way radio communication now have access to low cost, two-way ICT. The spread of mobile networks has been remarkable in its speed and ubiquity. Current estimates are that 90% of people globally have access to a mobile phone. In many countries of sub-Saharan Africa, the number of mobile phones per capita is greater than one.

Discussant: Ellen McCullough, University of Georgia

No Bulls: Asymmetric Information in the Market for Artificial Insemination in Pakistan

Arman Rezaee, University of California, Davis; Syed Ali Hasanain, Lahore University of Management Sciences; Muhammad Yasir Khan, University of California, Berkeley

MahindiMaster: Virtual Learning for Real Farmers

Travis J. Lybbert, University of California, Davis; Rachel Frattarola, University of Wisconsin-Madison; Emilia Tjernström, University of Wisconsin-Madison

Mobile Phone-Based Agricultural Extension

Tomoko Harigaya, Precision Agriculture for Development

2002 Renegotiating Trade Agreements: Implication for Agriculture

Coolidge, Mezzanine Level

Organized Symposium

The purpose of this proposed symposium is to discuss the implications of potential renegotiation of existing U.S. trade agreements for agriculture. This issue is extremely important for U.S. and global agriculture given the current political environment. Five expert panelists will be asked a series of prepared questions that focus on the major issues involving trade renegotiations. After responding, several questions will be elicited from the audience and responses will be provided by the panelists.

Organizer: Troy G. Schmitz, Arizona State University

Moderator: Ian M. Sheldon, The Ohio State University

Panelists: P Lynn Kennedy, Louisiana State University; Andrew Muhammad, University of Tennessee; Luis A. Ribera, Texas A&M University; Daniel A. Sumner, University of California, Davis; Thomas I. Wahl, North Dakota State University

2003 International Nutrition Security Priority Setting for the 21st Century

Washington Room 1, Exhibition Level

Organized Symposium

Agricultural development efforts in the 20th century reduced global poverty, raised staple food productivity and increased calorie consumption. In the 21st century, there remain widespread micronutrient deficiencies and continued energy deficiency among some population groups, even as overconsumption of macronutrients has grown rapidly to become the dominant new risk factor in public health around the world. Climate change, demographic shifts, and income inequality complicate efforts to address malnutrition. This session presents new results on how the global food system has and will continue to change and differing approaches to identifying agricultural research and economic policy priorities. We begin the session with econometric analysis of past trends to 2015, and then turn to simulation modeling to 2050. Econometric analysis of past trends includes changes in agricultural resources and production per worker, international trade and dietary intake per capita. Simulation models explore future macro- and micronutrient availability using scenarios that combine biophysical and socioeconomic modeling and assess implications for biological and economic research priorities. Next we look at alternative approaches to priority assessment; from identification of global nutrient adequacy to how biofortification research has assessed priorities. Finally, researchers involved in country-specific work comment on how these more macro approaches to priority setting can contribute to country-specific assessments.

Moderator: William A. Masters, Tufts University

Discussant: Derek Headey, International Food Policy Research Institute

Panelists: Winnie Bell, Tufts University; Keith Lividini, International Food Policy Research Institute; Gerald C. Nelson, University of Illinois at Urbana-Champaign

2004 Commodity Price and Volatility Dynamics: Causes and Implications

Roosevelt Room 1, Exhibition Level

Selected Presentation – Lightning Session

Commodity prices have undergone tremendous volatility over the past decade. Expansion in biofuel production, increasing global competition, uncertainties in trade policies, extreme weather events, and infectious diseases in livestock are among some of the mostly-discussed contributing factors in the literature. This section examines the price and volatility dynamics in various commodity markets, focusing on their causes and implications.

Moderator: Huidan Xue, University College, Dublin

The Global Vector Error Correction Model Application on the Dynamics and Drivers of the World Butter Export Prices: Evidence from the U.S., the EU, and New Zealand

Huidan Xue, University College, Dublin; **Chenguang Li**, University College, Dublin; **Liming Wang**, University College, Dublin

Price Relationships in a Changing International Corn Market

Linwood A. Hoffman, USDA-Economic Research Service; **Carlos Anthony Arnade**, USDA-Economic Research Service

Exit and Disinvestment of Retirement Age Farmers in the U.S.

Bretford Griffin, Hillsborough Community College; **Denis A. Nadolnyak**, Auburn University; **Valentina Hartarska**, Auburn University

Does Noise in Market Expectations Dilute Price Reactions to USDA Reports?

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

Identifying the Price Determinants of Animal Products in the Presence of Structural Breaks

Matthew J. MacLachlan, USDA-Economic Research Service; **David Boussios**, USDA-Economic Research Service

Does Economic Policy Uncertainty Affect Energy Market Volatility and Vice-Versa?

Alexandre Ribeiro Scarcioffolo, West Virginia University; **Xiaoli L. Etienne**, West Virginia University

An Analysis on Non-linear Structure of Livestock Prices Caused by Infectious Diseases: An Application to Pork, Chicken, and Egg

Hyeon-woong Kim, Chung-Buk National University; **Ji-soo Kwon**, Chung-Buk National University; **So-Jin Kim**, Chung-Buk National University; **Do-il Yoo**, Chung-Buk National University

Dynamic Implied Volatility Linkage between the Energy and the Grain Market

Kayode M. Ajewole, Kansas State University

Concurrent Sessions TUESDAY, 10:00 AM - 11:30 AM

2005 Research on Agricultural Labor and Rural-Urban Migration

Virginia A, Exhibition Level

Selected Presentation – Lightning Session

Research on Agricultural Labor and Rural-Urban Migration

Moderator: Chyi-Lyi Liang, North Carolina A&T State University

Moving Out but Not Up: Health Consequences of Rural-urban Migration in China

Xinjie Shi, Australian National University

On the Emergence of the Non Farming Activities in Rural Ethiopia

Giacomo De Giorgi, University of Geneva; Tesfamichael Wossen, IITA

Agricultural Transformation and Intergenerational Mobility in the U.S., 1940-1970

Tim Smith, Purdue University; Michael Delgado, Purdue University

Do Disabilities Promote Migration in Bangladesh? Evidence from Panel Household Survey

Wei Zhang, International Food Policy Research Institute; Man Li, International Food Policy Research Institute

Altruistic Grandparents? Migration and Resource Allocation between Left-behind Children and Elders in Rural China

Chunchen Pei, China Agricultural University; **Qihui Chen**, China Agricultural University; Qiran Zhao, China Agricultural University

Modeling the Labor Transfers from the Agricultural Sector to the Non-agricultural Sector under Food Supply Constraint in China

Qi Dong, University of Tokyo; Tomoaki Murakami, University of Tokyo; Yasuhiro Nakashima, University of Tokyo

The Influence of Land Titling Policy on the Rural Labor Migration to City: Evidence from China

Wenjue Zhu, South China Agricultural University; Biliang Luo, South China Agricultural University; Krishna P. Paudel, Louisiana State University

Identifying the Performance of Rural-urban Migrants on Labor Market: Evidence from the Relaxing Household Registration System

Wenrong Qian, Zhejiang University; **Xiaolin Guo**, School of Public Affairs of Zhejiang University; Shuai Chen, China Academy for Rural Development, Zhejiang University

2006 Agricultural Lending

Park Tower 8212, Lobby Level

Selected Presentation

Papers in this section examine the factors affecting agricultural lending, including the factors impacting the credit constraints, the relationship between the Farm credit system, farm service agency and commercial banks, and bankruptcies.

Moderator: Robert Dinterman, The Ohio State University

Survival Analysis of Farm Bankruptcy Filings

Robert Dinterman, The Ohio State University; Ani Katchova, The Ohio State University

Heterogeneity of Farm Loan Packaging Term Decisions: A Finite Mixture Model Approach

Chandra K. Dhakal, University of Georgia; Cesar L. Escalante, University of Georgia

Do Energy Leases Decrease Credit Constraints for U.S. Farms? Evidence from TOTAL

Travis Grout, Cornell University; Jennifer E. Ifft, Cornell University

The Historical Relationship Between the U.S. Farm Credit System, Farm Service Agency and Commercial Bank Lending

Calum G. Turvey, Cornell University; Jennifer E. Ifft, Cornell University; Amy Carduner, Farm Credit Canada

2007 Supply Chain Management and Coordination

Park Tower 8228, Lobby Level

Selected Presentation

This session focuses on issues related to supply chain coordination and management strategies.

Moderator: Na Zuo, University of Arizona

Does Excellence Pay Off? Quality, Reputation and Vertical Integration in the Wine Market

Stefano Castriota, University of Bolzano

How Well Can USDA Forecast Error of Corn Ending Stocks Be Explained?

Tianyang Zhang, Iowa State University; Ziran Li, Southwestern University of Finance and Economics

2008 Environmental and Nonmarket Valuation - Methods I

Roosevelt Room 2, Exhibition Level

Selected Presentation

This session features methodological advances in nonmarket valuation, with an emphasis on contingent valuation and choice experiment methods.

Moderator: Jerrod Penn, Louisiana State University

Quantifying the Effect of Choice Set Interdependence in the Presence of Hypothetical Bias and Choice Order Effect

Jerrod Penn, Louisiana State University; Wuyang Hu, University of Kentucky

Utilizing Subjective Beliefs in Stated Preference Models: Issues and Solutions

Brian E. Roe, The Ohio State University; Matthew G. Interis, Mississippi State University; **Gregory E. Howard**, East Carolina University

Is There Really a Difference Between “Contingent Valuation” and “Choice Experiments”? Evidence from an Induced-Value Experiment

Wiktor L. Adamowicz, University of Alberta; Patrick Lloyd-Smith, University of Saskatchewan; **Ewa Zawojka**, University of Warsaw

Regret Minimization in Decision Making: Implications for Choice Modeling and Policy Design

Qi Tian, Michigan State University; Jinhua Zhao, Michigan State University

2009 Food Fraud, Trust in Organic Labels, and GE Labeling Laws

Roosevelt Room 4, Exhibition Level

Selected Presentation

Marketers of organic and non-GE foods face a challenge in communicating the process or credence attributes of their products to buyers and consumers. The papers in this session analyze fraud incidents detected by the USDA National Organic Program; survey consumers from seven EU countries to identify what factors determine their trust in the EU's organic label; model the government's optimal policy response to food fraud; and investigate whether new U.S. GE labeling laws have driven a divergence in prices for U.S. beet and (non-GE) cane sugar.

Moderator: Elizabeth Canales Medina, Mississippi State University

Analysis of Fraud Incidents in the U.S. Organic Market

Sharon Raszap Skorbiansky, USDA-Economic Research Service; Gustavo C. Ferreira, USDA-Economic Research Service

What Determines Consumers' Trust in the EU's Organic Label? A Cross Country Comparison of the Role of Institutional Trust and Consumer Knowledge

Matthew Gorton, Newcastle University; Barbara Tocco, Newcastle University; **Ching-Hua Yeh**, University of Bonn; Monika Hartmann, University of Bonn

Optimal Policy Response to Food Fraud

Syed Imran Ali Meerza, University of Nebraska-Lincoln; Konstantinos Giannakas, University of Nebraska-Lincoln; Amalia Yiannaka, University of Nebraska-Lincoln

GE Labeling Laws and Segmentation of the Sugar Market

Colin Andre Carter, University of California, Davis; **K. Aleks Schaefer**, Royal Veterinary College, University of London



Concurrent Sessions TUESDAY, 10:00 AM - 11:30 AM

2010 Household Response to Shocks and Natural Disasters

Virginia B, Lobby Level

Selected Presentation

Household Response to Shocks and Natural Disasters.

Moderator: Amanda J. Harker Steele, University of Georgia

Does Energy Efficiency Effect Energy Security? An Analysis of Energy Efficient Upgrades and Household Energy Security

Amanda J. Harker Steele, University of Georgia; **John C. Bergstrom**, University of Georgia

Climate and Off-farm Labor Supply of Agricultural Households: Evidence from Rural Vietnam

Xuan Chen, Emory University; **Nguyen Vuong**, University of Maine

Farm Size, Risk Aversion, and Labor Migration Under Natural Disaster Risk

Man Li, International Food Policy Research Institute; **Wei Zhang**, International Food Policy Research Institute

Heat-Related Illnesses Among California Agricultural Workers

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

2011 Land

Washington Room 5, Exhibition Level

Selected Presentation

Moderator: Wuyang Hu, University of Kentucky

Wealth Disparities and Soil Fertility on Rented versus Owned Plots: Evidence from a Matched Tenant/Landlord Sample in Malawi

Jacob Ricker-Gilbert, Purdue University; **Jordan Chamberlin**, International Maize and Wheat Improvement Center; **Joseph Kanyamuka**, LUANAR, Malawi

The Impact of Land Title on Household Conflict and Perceived Damages: Evidence from Eastern Democratic Republic of Congo

Naureen Fatema, McGill University; **Shahriar Kibriya**, Conflict and Development Center

Land Tenure Security and Non-Agricultural Sector Employment: Household-level Evidence from Uganda

Lacina Diarra, University LAVAL; **Sylvain Dessy**, Laval University

Locational Fundamentals, Trade, and the Changing Urban Landscape of Mexico

Emily Sellars, Texas A&M University; **Jennifer Alix-Garcia**, Oregon State University

2012 International Trade - Gravity Model Analysis of Agricultural Trade Issues

Park Tower 8222, Lobby Level

Selected Presentation

Papers in this session are linked by their use of various gravity modeling techniques, including structural gravity and general equilibrium gravity models.

Moderator: Guolin Yao, Purdue University

Structural Gravity Model Estimates of Nested CES Import Demands for Soybeans

Guolin Yao, Purdue University; **Russell Hillberry**, Purdue University

Trade Policy Impacts on U.S. Ethanol Exports

Anupa Sharma, North Dakota State University; **Thomas I. Wahl**, North Dakota State University; **David Ripplinger**, North Dakota State University

Sources of Domestic Food Price Volatility: An Empirical Investigation Using Structural Gravity of Maize Markets

Nelson B. Villoria, Kansas State University

Increased Economic Integration in the Asia-Pacific Region: What Might be the Potential Impact on Agricultural Trade?

Kari E. Heerman, USDA-Economic Research Service; **Ian M. Sheldon**, The Ohio State University

2013 Energy

Park Tower 8219, Lobby Level

Selected Presentation

Economic and environmental impacts of energy production.

Moderator: Shruti Mishra, Argonne

Valuation of Ecosystem Services in Alternative Bioenergy Landscape Scenarios

Shruti Mishra, Argonne

Examining the Sustainability of the U.S. Shale Oil Boom

Vladimir Bejan, Seattle University

Can Wood Pellets Save Coal?

Brandon Weiland, Purdue University; *Juan Pablo Sesmero, Purdue University; Paul Preckel, Purdue University; Michael E. Wetzstein, Purdue University*

Ownership of Oil and Gas Rights and Farm Sector Income and Wealth

Claudia Hitaj, USDA-Economic Research Service; Jeremy G. Weber, University of Pittsburgh; Jeffrey W. Hopkins, USDA-Economic Research Service; Kenneth W. Erickson, USDA-Economic Research Service

2014 Water Management

Washington Room 3, Exhibition Level

Selected Presentation

Papers in this session examine critical questions in water management including groundwater interactions, mitigation of flood impacts, and irrigation technology adoption.

Moderator: Jad R. Ziolkowska, University of Oklahoma

Profitability of Irrigation and Value of Water in the Southern High Plains

Jad R. Ziolkowska, University of Oklahoma

Impact of Submergence-Tolerant Rice Varieties on Smallholders' Income and Expenditure: Farm-Level Evidence from Bangladesh

Subir K. Bairagi, International Rice Research Institute; *Humnath Bhandari, International Rice Research Institute; Subrata Das, International Rice Research Institute; Samarendu Mohanty, International Potato Center*

Economics of Groundwater Interaction and Competing Producers

Karthik Ramaswamy, Oklahoma State University; *Arthur Stoecker, Oklahoma State University; Rodney D. Jones, Oklahoma State University; Jason Warren, Oklahoma State University; Saleh Taghvaeian, Oklahoma State University*

Heterogeneity in Irrigation Technology Impacts: Implications for Adoption

Anthony M. Macharia, Texas Tech University; *Carlos E. Carpio, Texas Tech University; Lilian Kirimi, Tegemeo Institute*

Concurrent Sessions TUESDAY, 10:00 AM - 11:30 AM

2015 Technology Adoption 2: Irrigation and Agricultural Production

Wilson B, Mezzanine Level

Selected Presentation

Paper presentation in this session investigate the adoption of drought-tolerant corn and technology on water conserving/saving irrigation system. Irrigation and farmland restoration in China is also included.

Moderator: Jonathan McFadden, USDA-Economic Research Service

Adoption of Drought-Tolerant Corn in the U.S.: A Field-Level Analysis of Adoption Patterns and Emerging Trends

Jonathan McFadden, USDA-Economic Research Service; **David J. Smith**, USDA-Economic Research Service; **Steven Wallander**, USDA-Economic Research Service

The Water Productivity of Internationally Traded Agricultural Products

Angela Cheptea, INRA; **Cathie Laroche-Dupraz**, Agrocampus Ouest, UMR SMART-LERECO

Funding Assistance and Farmer Investment in Irrigation System Improvements

Yubing Fan, Texas A&M University; **Seong C. Park**, Texas A&M University

Irrigation Districts and Investment in Farmland Restoration in Arid Northwestern China

Yubing Fan, Texas A&M University; **Seong C. Park**, Texas A&M University

2016 Research Methods in Agricultural Production and Demand Forecasting

Washington Room 4, Exhibition Level

Selected Presentation

Papers in this session present methods of econometric and statistical analysis in agricultural production and demand forecasting.

Moderator: Wanglin Ma, Department of Global Value Chains and Trade

Feed Use Intensification and Technical Efficiency of Dairy Farms in New Zealand

Wanglin Ma, Department of Global Value Chains and Trade; **Alan Renwick**, Lincoln University; **Kathryn Bicknell**, Lincoln University

Estimating Heterogeneous Corn Price Response in the United States

Nicholas J. Pates, Kansas State University; **Nathan P. Hendricks**, Kansas State University

An Artificial Neural Network Approach to Acreage-Share Modeling

Steven M. Ramsey, New Mexico State University; **Jason S. Bergtold**, Kansas State University; **Jessica Heier Stamm**, Kansas State University

Transparency in Long-Term Electric Demand Forecast: A Perspective on Regional Load Forecasting

Derya Eryilmaz, University of Minnesota; **Bixuan Sun**, University of Minnesota; **Rao Konidena**, MISO Energy

2017 Land Use Change in South America

Park Tower 8216, Lobby Level

Selected Presentation

Land use change in South America, particularly in the Amazon area, can have tremendous environmental and resource impacts. This session includes four papers that study the drivers of land use change in Brazil and Bolivia from the perspectives of climatic risk, technology advance, benefit/cost, and trade, respectively.

Moderator: Kristiana M. Hansen, University of Wyoming

The Role of Climate Risk on Land Allocation in Brazilian Amazon

Marcelo D P Ferreira, Federal University of Goiás; **Jose Feres**, Instituto de Pesquisa Economica Aplicada

How Did Technical Change Affect Land Use in Brazilian Agriculture?

Pedro Queiroz, University of Nebraska-Lincoln; Felipe Silva, University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln

The Opportunity Cost of Forest Preservation in Bolivia

Felipe Silva, University of Nebraska-Lincoln; Juan M. Murguía, Inter-American Development Bank; Wanderley Ferreira, Rumbol SRL

The Effects of Environmental and Trade Policies on Land Use Change Across Borders: Analyzing the Drivers of Sugarcane Expansion in Brazil

Ernst Bertone Oehninger, University of California, Davis; C.-Y. Cynthia Lin Lawell, University of California, Davis; James N. Sanchirico, University of California, Davis

2018 Risk, Uncertainty, and Innovation in Agriculture

Washington Room 6, Exhibition Level

Selected Presentation

Behavioral economics as applied to crop insurance demand and production decision making.

Moderator: Madhav Regmi, Kansas State University

Weather Fluctuation, Expectation Formation, and the Short-run Behavioral Responses to Climate Change

Xinde Ji, Virginia Tech; Kelly M. Cobourn, Virginia Tech

Climate Change, Agricultural Risk and the Development of Cooperatives

Jianqing Ruan, Zhejiang University; **Huayan Zhang**, Zhejiang University; Shuai Chen, Zhejiang University

Technological Change and Precautionary Savings Among Dairy Farmers

Thomas Keller, University of Minnesota; Scott Petty, University of Minnesota; Marin Bozic, University of Minnesota

What Drives (No) Adoption of New Irrigation Technologies: A Structural Dynamic Estimation Approach

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

Concurrent Sessions TUESDAY, 10:00 AM - 11:30 AM

2020 Current Topics in Food and Specialty Crop Risk Management

Harding, Mezzanine Level

Track Session – AEM Section

In the past several years, there has been a marked increase across the U.S. in the number of specialty crop and value-added food producers. These producers face a unique set of risks not inherent to traditional commodities. The proposed track session would showcase the current and developing extension and research issues related to risk management within the specialty crop industry. The particular focus of the session would discuss risk and the differing issues that are present across the country. The hope of this session is stimulate future research in the topic of specialty crop risk management, as well as provide potential tools for extension economist to address the growing number of questions being asked by producers within the industry. In addition, there will be two graduate student presentations to focus on the current research and two extension economist to discuss tools and applications for the field.

Organizer: Michael A. Gunderson, Purdue University

Moderator: Clinton L. Neill, Virginia Tech

Crop Insurance for Blueberries

Robert Ranieri, *University of Florida*

High Return/Risky vs. Low Return/Non-Risky Specialty Crops

R. Karina Gallardo, *Washington State University*

Effects of Farm and Household Decisions on Labor Allocation and Profitability of Beginning Vegetable Farms in Virginia: A Linear Programming Model (Research)

Allyssa Mark, *Virginia Tech*

Marketing Risk Tools for the Mid-South

Kimberly L. Morgan, *Virginia Tech*

2021 Tax Policy and Agriculture

Roosevelt Room 5, Exhibition Level

Track Session – AFM and EXT Sections

The first presentation will be an overview of current tax policy (and tax reform if it happens) and how it impacts farms—including presenting data on tax rates farm may face. The second presentation will cover how tax provisions may help farm profitability and farm household well being, especially small farms and farms with net losses. And finally, the third presentation will examine the estate tax and drill down on who it affects, where they are located, what these farms produced, and how much land they operated. All of the presentations will be of applied research and data driven.

Organizer: James M. Williamson, USDA-Economic Research Service

Discussant: Ruby A. Ward, Utah State University

Tax Policy and Agriculture: An Overview of Tax Provisions and Their Impacts

James M. Williamson, *USDA-Economic Research Service*

How Tax Benefits Affect the Returns to Farming and Farm Household Wellbeing

Daniel Prager, *USDA-Economic Research Service*; **Sarah Tulman**, *USDA-Economic Research Service*

The Federal Estate Tax and Farm Estates

Siraj G. Bawa, *USDA-Economic Research Service*

Concurrent Sessions TUESDAY, 10:00 AM - 11:30 AM

2022 Perspectives on Evolving Wine Consumption Patterns

Wilson C, Mezzanine Level

Track Session – AUS Section

Consumption patterns for wine and other alcoholic beverages are evolving, with some convergence among nations as traditionally beer-drinking nations increase their consumption of wine and, conversely, wine-consuming nations shift towards beer. This session provides various perspectives on these patterns, including analysis and discussion of the role of quality and reputation effects in the global wine market, documentation of the global trends and their causes — putting wine consumption trends in the context of the broader market for alcohol — and a detailed look within the United States at how similar patterns can be observed at finer scales of geopolitical aggregation.

Organizer: Julian M. Alston, University of California, Davis

Moderator: Julian M. Alston, University of California, Davis

Wine Quality and Varietal, Regional, and Winery Reputations

Kym Anderson, University of Adelaide and Australian National University; **Guenter H. Schamel**, University of Bozen-Bolzano

Evolving Consumption Patterns, Regulations and Industrial Organization of the Global Alcohol Market

Johan F.M. Swinnen, Catholic University of Leuven; **Giulia Meloni**, Catholic University of Leuven; **Kym Anderson**, University of Adelaide and Australian National University

Evolving Consumption Patterns in the U.S. Alcohol Market: Disaggregated Spatial Analysis

Julian M. Alston, University of California, Davis; **Jarrett Hart**, University of California, Davis

2023 The Impact of Food System Transformations on Community Development

McKinley, Mezzanine Level

Track Session

The relationship between community development and food systems has evolved greatly over the past decade, and this session focuses on the impacts of cities integrating food into their programming. Colorado State University is using an interdisciplinary research approach to assess the rural wealth creation impacts of the City of Denver's 'winnable' goals, which resulted from the 2017 Denver Food Vision. Next, the session focuses on evidence of whether Farm to School programs result in increased market access, and profitability outcomes for farmers. Similarly, another study presents research on outcomes from the "USDA Food Boxes for Better Nutrition and Community Development". Finally, results from a USDA project investigating community garden participation in Detroit, MI and Phoenix, AZ are presented. The research draws on data from surveys with N=1,000 citizens, focusing on the role of community gardens regarding food security and well-being.

Organizers: Carola Grebitus, Arizona State University; Jane M. Kolodinsky, University of Vermont

Moderator: Trenton G. Smith, University of Otago (New Zealand)

Exploring the Farmer in Farm to School: An Initial Look at Farmer Financial Outcomes from Participation in Intermediated Sales

Dawn D. Thilmany McFadden, Colorado State University; **Allison Bauman**, Colorado State University; **Becca B. R. Jablonski**, Colorado State University

The Rural Wealth Creation Impacts of Denver's Food Vision

Becca B. R. Jablonski, Colorado State University; **Blake Angelo**, City of Denver; **Alessandro Bonanno**, Colorado State University; **Rebecca Cleary**, Colorado State University; **Dawn D. Thilmany McFadden**, Colorado State University

Farm Fresh Food Boxes: Increasing Food Access in Rural Communities through New Markets for Farmers and Retailers

Jane M. Kolodinsky, University of Vermont; **Marilyn Sitaker**, Evergreen State College; **Lisa Chase**, University of Vermont; **Diane Smith**, Washington State University; **JuliaVan Soleon Kim**, University of California, Riverside; **Hans Estrin**, University of Vermont; **WeiWei Wang**, University of Vermont; **Lauren Greco**, University of Vermont; **Erin Roche**, University of Vermont; **Florence Becot**, University of Vermont

Determinants of Community Garden Participation

Carola Grebitus, Arizona State University



Concurrent Sessions TUESDAY, 10:00 AM - 11:30 AM

2024 Meta-Analysis in Environmental Economics: Advancing the Frontier

Maryland B, Lobby Level

Track Session – ENV Section

Meta-analysis (MA) is an increasingly influential tool within environmental economics. Common uses include the identification of economic effects or outcomes across the literature, characterization of outcome heterogeneity, evaluating selection biases, and estimation of transferrable functions that predict values for policy analysis. Applications such as these are in high demand; MA plays a central role in many policy areas, and particularly in cost-benefit analysis. At the same time, MA continues to face challenges such as the reconciliation of metadata across studies, the appropriate role of theory, and development of suitable econometric methods. This session convenes internationally recognized experts in MA to advance the research frontier in this critical area of work. Papers address shortcomings in common approaches and present methods that advance the state-of-the-art. Discussions highlight ways that MA can be advanced and better applied to improve environmental economics research and practice.

Organizer: Robert J. Johnston, Clark University

Moderator: Robert J. Johnston, Clark University

Using Meta-Analysis to Prioritize Future Non-Market Valuation Research

*Stephen C. Newbold, U.S. Environmental Protection Agency; **Robert J. Johnston**, Clark University*

Understanding Error Structures and Exploiting Panel Data in Meta-Analytic Benefit Transfers

***Kevin J. Boyle**, Virginia Tech; Jeffrey Wooldridge, Michigan State University*

Reconciling Utility-Theoretic Rigor with Econometric Feasibility: Bayesian Nonlinear Meta-Regression

***Klaus Moeltner**, Virginia Tech*

Commodity Consistent Meta-Analysis of Salt Marsh Ecosystem Service Values

***Robert J. Johnston**, Clark University; Hermine Vedogbeton, Clark University*

2025 Food Waste along the Supply Chain: Drivers and Market Implications

Marriott Balcony B, Mezzanine Level

Track Session – IBES and FAMPS Sections

In this session, presenters will discuss drivers of food waste at various points in the supply chain, such as date labels and food shopping behaviors at the household level and a lack of a coordination higher up the chain to manage surplus food. Using a combination of experimental and existing market data, these presentations will offer implications for improving market efficiency and reducing food waste.

Organizer: Brenna Ellison, University of Illinois at Urbana-Champaign

Moderator: Norbert L.W. Wilson, Tufts University

Food Waste, Date Labels, and Nutrient Consumption

***Bradley J. Rickard**, Cornell University; Shuay-Tsyur Ho, Cornell University; Abigail M. Okrent, USDA-Economic Research Service*

Discard Intentions are Lower for Post-Date Milk Presented in Containers Without Date Labels

***Brian E. Roe**, The Ohio State University; David Phinney, The Ohio State University; Dennis Heldman, The Ohio State University; Christopher Simons, The Ohio State University; Aishwarya Badiger, The Ohio State University; Kathryn Bender, The Ohio State University*

Is it More Convenient to Waste? Trade-Offs Between Grocery Shopping and Waste Behaviors

***Brenna Ellison**, University of Illinois at Urbana-Champaign; Norbert L.W. Wilson, Tufts University*

Food Waste in the Sharing Economy

***Timothy J. Richards**, Arizona State University; Stephen F. Hamilton, California Polytechnic State University, San Luis Obispo*

Concurrent Sessions TUESDAY, 10:00 AM - 11:30 AM

2026 Analyzing Multidimensional Change: Rasch Modeling and Related Indicators of International Development

Maryland C, Lobby Level

Track Session – Africa and International Sections

Successful development requires sound evidence for prioritization, investment, and evaluation. The proliferation of “mash-up” indices for everything from food and water security to implementation of Africa’s Malabo Declaration obscures vital information. A statistical solution is Rasch modeling, which has recently been applied to measuring food and water insecurity and policy readiness in Africa and elsewhere. Rob Bertram, Feed the Future’s Chief Scientist, will moderate the session. The presentations open with FAO Senior Statistician Carlo Cafiero describing Rasch modeling concepts, with application to the Food Insecurity Experience Scale, which is Sustainable Development Goal indicator 21.2. Northwestern University Professor Sera Young will present the Household Water Insecurity Experiences Scale, and James Oehmke will present Feed the Future’s Policy Readiness Scale, followed by a presentation on measurement of nutrition knowledge from Kate Schneider and Will Masters at Tufts University.

Organizer: James F. Oehmke, United States Agency for International Development

Moderator: Robert Bertram, USAID Bureau of Food Security

Discussants: Martin Ravallion, Georgetown University; Edwina Wambogo, University of Maryland

An Introduction to Rasch Modeling and Application to the FAO Food Insecurity Experience Scale

Carlo Cafiero, University of Naples

The Household Water Insecurity Experiences (HWISE) Scale: A Cross-Culturally Valid Tool for the Measurement of Household-Level Water Insecurity

Sera L. Young, Northwestern University

Accelerating Agricultural Transformation: The Country Policy Readiness Scale

James F. Oehmke, United States Agency for International Development

Development and Use of a Multi-Dimensional Index for Nutrition Knowledge Among Mothers and Health Workers in Malawi

Kate Schneider, Tufts University

2027 Growing Gulf Between Grad and Undergrad Programs in Agricultural Economics

Hoover, Mezzanine Level

Track Session – NAAEA Section

The proposed session will focus on the changing landscape and trends in structure of agbusiness and food industry management degree programs in our profession. The forum will consist of a panel presentation/discussion by selected administrative leaders in the applied and agricultural economics profession. The panel will examine challenges and feasible solutions to the issue of growing dichotomy between graduate undergraduate programs in our departments. There will also be opportunities for audience participation via comments and Q&A.

Organizer: Titus O. Awokuse, Michigan State University

Panelists: Titus O. Awokuse, Michigan State University; Timothy C. Haab, The Ohio State University; Eluned C. Jones, South Dakota State University; Michael D. Woods, Oklahoma State University

Concurrent Sessions TUESDAY, 10:00 AM - 11:30 AM

2028 Sustainable Production Practices, Consumer Feedback, and Policy Implications

Washington Room 2, Exhibition Level

Track Session – CWAE and SCE Sections

This session will discuss the linkages between consumers' preferences for environmentally friendly production practices and agricultural policy implications. The first study investigates consumers' preferences for honey and elicit their willingness-to-pay (WTP) for sustainability and localization attributes by conducting eye-tracking choice experiments. The next study highlights developments in turfgrass breeding programs by investigating and comparing consumers', turfgrass breeders' and distributors' preferences for sustainable turfgrass attributes. Next, given the increasing attention to genetically modified organisms (GMO) labeling related regulation, the third presentation will focus on consumer preferences for GMO turfgrass with the further goal of understanding potential segments in the market that would be accepting of a GMO turfgrass. The concluding presentation will discuss consumer preferences and WTP for ornamental plants treated with neonicotinoid insecticides.

Organizer: Hayk Khachatryan, University of Florida

Moderator: Hayk Khachatryan, University of Florida

Preferences for Sustainability and Localization: An Application of Eye-Tracking for Honey Products

Yu-Kai Huang, Texas A&M University; **Marco A. Palma**, Texas A&M University

Sustainable Turfgrass Attributes: Do Consumer Preferences Match Breeder Preferences?

Chengyan Yue, University of Minnesota; **Eric Watkins**, University of Minnesota

Impact on GMO Turfgrass Introductions on Varying Consumer Markets

Benjamin L. Campbell, University of Georgia; **Joshua P. Berning**, University of Georgia; **Julie Campbell**, University of Georgia

Effects of Neonicotinoid Insecticide Labeling on Consumer Preferences for Ornamental Plants

Xuan Wei, University of Florida; **Hayk Khachatryan**, University of Florida; **Alicia Rihn**, University of Florida

2029 AAEA Teaching Tips from AAEA Winners

Maryland A, Lobby Level

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 which have worked for them. Their approaches, techniques, teaching styles, and philosophy in the classroom setting. 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: Mallory Kay Vestal, West Texas A&M University

Moderator: Mallory Kay Vestal, West Texas A&M University

Less than Ten Year's Experience

Aleksan Shanoyan, Kansas State University

Undergraduate Teaching: Ten or More Year's Experience

William W. Wilson, North Dakota State University

Graduate Teaching: Ten or More Year's Experience

Christopher B. Barrett, Cornell University

2030 Climate Econometrics- New Regression Methods and Practices

Marriott Balcony A, Mezzanine Level

Track Session – Econometrics Section

The combination of advancements in econometric methods and availability of comprehensive climate data has facilitated tackling important questions on the climate–economics nexus. This session will feature applications of climate econometric methods, and will highlight issues associated with the data and model selection. Ortiz-Bobea will provide a systematic analysis of the magnitude of biases associated with aggregation of relatively granular weather and economic data to capture nonlinear responses. Miller will propose a semi-structural emulator of annual latitudinal temperature output to shed light on economic costs of climate change. Ubilava will introduce a variant of the panel smooth transition regression that allows for heterogeneity in parameters that are bounded continuous functions of latitudes and longitudes. Ghanem will show conditions under which the frequently applied goodness-of-fit measures, such as cross-validation and information criteria, can deliver consistent model selection or asymptotic optimality.

Organizer: David Ubilava, University of Sydney

Aggregation Bias of Nonlinear Temperature Effects in Panel Models: Evidence on U.S. Crop Yields

Ariel Ortiz-Bobea, Cornell University

Semi-Structural Emulation of a Big Climate Model with an Application to Projecting Disaggregated Mortality Risk from Excessive Heat

J. Isaac Miller, University of Missouri; **William Brock**, University of Wisconsin-Madison

Smooth Transitions Across Latitudes and Longitudes: An Application of a Nonlinear Panel Regression to the Climate-Economics Nexus

David Ubilava, University of Sydney; **Jesse B. Tack**, Kansas State University; **Nelson B. Villoria**, Kansas State University

On Model Selection Criteria for Climate Change Impact Studies

Dalia Ghanem, University of California, Davis; **Xiaomeng Cui**, University of California, Davis; **Todd Kuffner**, Washington University, St. Louis

2031 Creating Trust in Economic Research: Research Design and Reproducibility

Roosevelt Room 3, Exhibition Level

Track Session – Senior Section

Recent concerns about declining public trust in research point to overall erosion of trust in institutions, politicization of science, as well as controversies about the reproducibility of research and independence of researchers. Good social science research takes advantage of learning through the research process and discovering information by exploring the data. This includes economics research that draws on secondary data sources, uses unstructured, “big data”, and experimental and behavioral methods. When does the research design devolve into data mining that undermines confidence in the results? How can researchers and the profession ensure that research follows established scientific norms and best practices? This session focuses on research design, reproducibility, and best practices across the statistics, economics, and agricultural economics disciplines to ensure high quality, reproducible research findings. The panel brings together expertise in economics, statistics, data development, and behavioral economics.

Organizers: Mary E. Bohman, USDA-Economic Research Service; Sarahelen Thompson, Bureau of Economic Analysis

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

Overview of Reproducibility Issues and Implications for Journal Editors

Jayson L. Lusk, Purdue University

Implications for Reproducibility of Research Design, Data Access, and Computing Environments

John Abowd, Census Bureau

Strategies for Research Model Design and Reproducibility to Leverage the Data Revolution

Sallie Keller, Virginia Tech

Best Practices for Model Design and Reproducibility in Experimental and Behavioral Economics

David R. Just, Cornell University



Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2032 Multi-Pollutant Point-Nonpoint Trading with Participation Decisions: The Role of Transaction Costs

Roosevelt Room 4, Exhibition Level

Invited Paper

This session features three papers that focus on the design of pollution permit markets that integrate trading along a number of dimensions, including space, time and environmental media. This integration captures key features of many agricultural pollution problems, including (i) the joint production of multiple pollutants affecting multiple environmental media and (ii) lags from when pollutants are emitted to the time when they contribute to pollution stocks that damage major environmental resources, and can improve the efficiency of pollution management.

Organizer: Carson Reeling, Western Michigan University

Moderator: Ben Gramig, University of Illinois at Urbana-Champaign

Discussant: Amy W. Ando, University of Illinois at Urbana-Champaign

Multi-Credit Market, Landowners' Behavioral Responses, and Cost Effectiveness of Credit Stacking Policy

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

When the Levee Breaks: Linking Markets to Remove Barriers to Trade

Cloe Garnache, *Michigan State University*; **Richard D. Horan**, *Michigan State University*; **Carson Reeling**, *Western Michigan University*

Intertemporal Trading Ratios for Nutrient Pollution Control

Aaron Cook, *Pennsylvania State University*; **James S. Shortle**, *Pennsylvania State University*

2033 Agricultural Baseline Models and U.S. Farm Policy

Harding, Mezzanine Level

Organized Symposium

This symposium will review the economic assumptions underlying stochastic agricultural supply and demand models used by Congress, USDA, and academic institutions to evaluate U.S. agricultural policy. Negotiations on a new Farm Bill are underway in both the House and Senate, and these agricultural baseline models play a key role in answering policy questions related to costs to taxpayers, impacts on farmers and ranchers, and the supply and demand of agricultural products.

Organizer: John C. Newton, American Farm Bureau Federation

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

Panelists: Joseph C. Cooper, USDA-Economic Research Service; James A. Langley, Congressional Budget Office; Patrick C. Westhoff, University of Missouri

Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2034 AJAE Volume 100: Reflections on a Century of Publishing the Frontiers of the Profession

Coolidge, Mezzanine Level

Organized Symposium

This symposium will commemorate 100 volumes of the American Journal of Agricultural Economics as the leading field journal in agricultural and applied economics. It will begin with the presentation of a bibliometric analysis of the roughly 18,000 articles published since Volume 1 in 1919. This will set the stage for an interactive panel discussion with current and past AJAE Editors spanning the most recent 30 years of the journal. This distinguished panel will also look forward – and speculate about the future of academic publishing in the profession.

Organizer: Travis J. Lybbert, University of California, Davis

Moderators: Terrance M. Hurley, University of Minnesota; Timothy J. Richards, Arizona State University

Panelists: Steven T. Buccola, Oregon State University; Madhu Khanna, University of Illinois at Urbana-Champaign; Gordon C. Rausser, University of California, Berkeley; Kathleen Segerson, University of Connecticut; William G. Tomek, Cornell University

2035 Profits, Markets and Risk

Park Tower 8228, Lobby Level

Selected Presentation – Lightning Session

Papers in this section examine a variety of topics related to farm profitability and risk including crop insurance, futures and derivatives, financial structure, and agricultural cooperatives.

Moderator: Christopher M. Boyer, University of Tennessee

Investment into Developing Heifers: When Does She Become Profitable?

Christopher M. Boyer, University of Tennessee; Zach McFarlane McFarlane, University of Tennessee; Travis Mulliniks, University of Nebraska-Lincoln; Andrew P. Griffith, University of Tennessee

Double-Edged Sword: Liquidity Implications of Futures Hedging

Ruoding Shi, Virginia Tech; Olga Isengildina Massa, Virginia Tech

Development of Weather Derivatives: Evidence from Brazilian Soybean Market

Gian Lucca Raucchi, University of Campinas; Rodrigo Lanna F. Silveira, University of Campinas; Daniel H D Capitani, University of Campinas

The Impact of Size and Specialization on the Financial Performance of Agricultural Cooperatives

Krishna Pokharel, United States Department of Agriculture; David W. Archer, USDA-Agricultural Research Service; Allen M. Featherstone, Kansas State University

The Effect of Financial Structure and Efficiency on Kansas Farm Growth

Joleen C. Hadrach, University of Minnesota; Dustin L. Pendell, Kansas State University; **Youngjune Kim**, Kansas State University

The Relationship Between Biomaterial and Agricultural Commodity Markets

Kuan-Ju Chen, Washington State University; Thomas L. Marsh, Washington State University

Understanding Spatial Distribution of Loss Ratios in Federal Crop Insurance Program

Zhangliang Chen, University of Illinois at Urbana-Champaign

Simulating Calving Season Length Impact on Beef Cattle Profitability

Christopher M. Boyer, University of Tennessee; Zach McFarlane McFarlane, University of Tennessee; Travis Mulliniks, University of Nebraska-Lincoln; Andrew P. Griffith, University of Tennessee



Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2036 Environmental and Nonmarket Valuation - Methods II

Roosevelt Room 1, Exhibition Level

Selected Presentation

This session features methodological advances in nonmarket valuation, with an focus on discrete choice modeling.

Moderator: Jiahui Ying, University of Georgia

The Distribution of Mean Willingness to Pay in Mixed Logit Models: Classical, Bayesian and Resampling Approaches

Jiahui Ying, University of Georgia; J. Scott Shonkwiler, University of Georgia

Estimating Demand for Urban Tree Cover Using a Residential Sorting Model

Xiang Cao, Virginia Tech; Kevin J. Boyle, Virginia Tech; Shyamani D. Siriwardena, Virginia Polytechnic and State University; Thomas P. Holmes, USDA-Forest Service

Valuing Tap Water Quality Improvements Using Stated Preference Methods. Does the Number of Discrete Choice Options Matter?

Ewa Zawojka, Univeristy of Warsaw; Mikolaj Czajkowski, University of Warsaw; Marek Giergiczny, University of Warsaw

Cheap Talk, Consequentiality, and Certainty Follow-up as Hypothetical Bias Mitigation Techniques: A Cross Country Comparison

Jerrod Penn, Louisiana State University; Wuyang Hu, University of Kentucky; Tao Ye, Beijing Normal University

2037 Understanding the Factors that Affect Food Security for Various Populations

Roosevelt Room 5, Exhibition Level

Selected Presentation

Food insecurity affects many populations. This session provides insight into the factors affecting food security for various segments of population in various countries. Specifically, this session examines factors that affect food insecurity for low-income immigrant households, famers, children and low-income households. This session will provide useful information about how social safety net programs and diversified income sources have the potential to determine food security status.

Moderator: Andaleeb Rahman, Cornell University

Does Off-Farm Income Affect Food Security? Evidence from India

Andaleeb Rahman, Tata-Cornell Institute, Cornell University

Social Networks, Production of Micronutrient-Rich Foods, and Child Health Outcomes in Burkina Faso

Aissatou Ouedraogo, Michigan State University; Andrew Dillon, Michigan State University; Eugenie W.H. Maiga, Université Norbert Zongo

The Vulnerability of Poor Households in Bangladesh to Rice Price Shock

Md Zabid Iqbal, Bangladesh Institute of Development Studies

Make Up Your Mind: Comparing the Stated and Revealed Nutritional Choices of Food Pantry Clients

Dominique J. Rolando, University of Minnesota; Hikaru Hanawa Peterson, University of Minnesota

Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2038 Food Safety in the Context of Trade, Policy, and Climate Change

Hoover, Mezzanine Level

Selected Presentation

This session covers food safety in both U.S. and global contexts. Two of the papers focus on the impact of climate change on food safety, one deals with issues of monitoring and enforcement, and another looks at the impact of the 2008 Chinese dairy scandal on trade.

Moderator: Rui Chen, Auburn University

Monitoring and Enforcement in a Food Safety Context

Timothy Beatty, *University of California, Davis*; **Jay P. Shimshack**, *University of Virginia*

The Impact of Climate Change on Aflatoxin Contamination in U.S. Corn

Jina Yu, *Michigan State University*; **Felicia Wu**, *Michigan State University*; **David A. Hennessy**, *Michigan State University*

The Impact of Product-Harm Crisis on International Trade: Evidence from the 2008 Dairy Scandal in China

Jingqi Dang, *School of Management, Zhejiang University, China.*; **Wei Xu**, *School of Public Administration, Fujian Agriculture & Forestry University, China*

The Impacts of Food Safety Modernization Act on Fresh Tomato Industry: An Application of a Two-Stage Geographic Import Demand System

Lisha Zhang, *Clemson University*; **James L. Seale Jr.**, *University of Florida*

2039 Labor Markets and Health Policies

Roosevelt Room 2, Exhibition Level

Selected Presentation

Moderator: Wen You, Virginia Tech

Health Effects Associated with Marital Status Transition Among Elders in China

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

Health Insurance Coverage and Labor Allocation of Beginning Farm Operator Households

Ashok K. Mishra, *Arizona State University*; **Michael Harris**, *USDA-Economic Research Service*; **Maria Bampasidou**, *Louisiana State University*

Does Paid Sick Leave Induce Welfare Burden?

Namhoon Kim, *Virginia Tech*; **Wen You**, *Virginia Tech*

The Impact of the Minimum Wage on Health Insurance: Evidence from Agricultural Workers

Amy Kandilov, *RTI International*; **Ivan T. Kandilov**, *North Carolina State University*

Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2040 Inputs

Park Tower 8222, Lobby Level

Selected Presentation

Moderator: Stephen N. Morgan, Michigan State University

In the Weeds: Effects of Temperature on Agricultural Input Decisions in Moderate Climates

Maulik Jagnani, Cornell University; **Christopher B. Barrett**, Cornell University; Yanyan Liu, International Food Policy Research Institute; Liangzhi You, International Food Policy Research Institute

Farmer Valuation of Improved Bean Seed Technologies: Real Auction Evidence from Tanzania

Stephen N. Morgan, Michigan State University; Nicole M. Mason, Michigan State University; Mywish K. Maredia, Michigan State University

Farmer Preferences for Chemical Versus Biological Pest Control Methods: Evidence from Choice Experiments Conducted in Burkina Faso

Nathalie M. Me-Nsope, Michigan State University; David L. Ortega, Michigan State University; Dieudonne Ilboudo, INERA; Mywish K. Maredia, Michigan State University

Does Flexibility in Agricultural Input Subsidy Programs Improve Smallholder Crop Yields and Household Food Security? Evidence from Zambia

Dagbegnon A. Tossou, University of Illinois at Urbana-Champaign; Kathy Baylis, University of Illinois at Urbana-Champaign

2041 Gender and Labor Supply

Virginia B, Lobby Level

Selected Presentation

Moderator: Weldensie T. Embaye, Kansas State University

Who Works in Agriculture? Exploring Dynamics of Youth Involvement in the Agri-Food System in Sub-Saharan Africa

Kashi Kafle, International Fund for Agricultural Development; Neha Paliwal, University of Connecticut; **Rui Benfica**, International Fund for Agricultural Development

Allocation of Household Labor and Its Implications for Productive Investments, Income, and Caloric Availability: Insights from Bangladesh

Yacob A. Zereyesus, Kansas State University; Francis Tsiboe, Kansas State University

Who has the time? Gender, Labor and Willingness to Pay for Mechanized Technology in Bangladesh and Ethiopia

Benjamin Schwab, Kansas State University; **Manzamasso Hodjo**, Kansas State University

Gender and Land in Mexico

Travis McArthur, University of Florida; Matthew J. Klein, University of Wisconsin-Madison

Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2042 International Trade - Agricultural Trade and China

Park Tower 8219, Lobby Level

Selected Presentation

Two papers examine the impact of Chinese trade and domestic policy on access to its market. A third examines characteristics of Chinese agricultural exporters. The fourth paper looks at Chinese border trade with Myanmar.

Moderator: *David Orden, Virginia Tech*

China's Price Support for Wheat, Rice and Corn under Dispute at the WTO: Compliance and Economic Issues

David Orden, *Virginia Tech*; *Lars Brink, Expert Advisor*

Import Protections in China's Grain Market: An Empirical Assessment

Bowen Chen, *Kansas State University*; *Nelson B. Villoria, Kansas State University*; *Tian Xia, Kansas State University*

Technical Measures, R&D Investment and Technical Progress: Firm-Level Evidence from Chinese Agricultural Exporters

Zhongmin Xie, *University of Connecticut and Renmin University of China*; *Xinkai Zhu, Renmin University of China*; *Rigoberto A. Lopez, University of Connecticut*; *Chungui Lin, General Administration of Quality Supervision and Inspection of China*

Price Transmission Behavior of Melons Market in Myanmar-China Border Trade

Wuit Yi Lwin, *Oklahoma State University*; *Shida Rastegari Henneberry, Oklahoma State University*

2043 Common Pool Resources

Park Tower 8216, Lobby Level

Selected Presentation

Management of common pool resources in Brazil, China and Mexico.

Moderator: *Jed J. Cohen, Virginia Tech*

Benefits of Community Fisheries Management to Individual Households in the Floodplains of the Amazon River in Brazil

Stella Z. Schons Do Valle, *Virginia Tech*; *Gregory S. Amacher, Virginia Tech*; *Kelly M. Cobourn, Virginia Tech*; *Caroline Arantes, Michigan State University*

The Evolving Relationship Between Market Access and Deforestation on the Amazon Frontier

Yu Wu, *North Carolina State University*; *Erin O. Sills, North Carolina State University*

Triggers and Outcomes to Collective Action in Common-Pool Resources Management: A Devolution Case of Collective Forests in China

Yuanyuan Yi, World Bank; **Gunnar Kohlin**, *University of Gothenburg*

Factors that Affect the Management of Common Pool Resources: The Case of Community Forest Management in Michoacán, Mexico

Pablo J. Ordoñez, *University of Illinois at Urbana-Champaign*; *Kathy Baylis, University of Illinois at Urbana-Champaign*; *Isabel Ramirez, UNAM, Morelia*

Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2044 Production Economics - Agricultural Disease Management at the Micro and Macro Scale

Washington Room 3, Exhibition Level

Selected Presentation

Papers in this session identify optimal strategies for agricultural disease, pest, and weed management, and quantify their impacts from the farm to regional scale.

Moderator: Spiro E. Stefanou, University of Florida

Managing Derived Demand for Antibiotics in Animal Agriculture

David A. Hennessy, Michigan State University

Are Glyphosate-Resistant Weeds a Threat to Conservation Agriculture? Evidence from Tillage Practices in Soybean

Braeden Van Deynze, Michigan State University; Scott M. Swinton, Michigan State University; David A. Hennessy, Michigan State University

An Ounce of Prevention and a Pound of Cure: The Substitutability or Complementarity of Grapevine Trunk Disease Management Practices

Jonathan D. Kaplan, California State University, Sacramento; Max Norton, University of British Columbia; Kendra Baumgartner, USDA-Agriculture Resource Service

Optimal Decisions Under Risk in Pest Management: The Case of Tomato Disease Management

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

2045 Research Methods in Resource, Climate Change, and Agricultural Policies

Washington Room 4, Exhibition Level

Selected Presentation

This session focuses on the research methods in policy evaluations and welfare analysis.

Moderator: John M. Antle, Oregon State University

Drought, Domestic Trade and Agricultural Profit: Theory and Evidence

Zhangliang Chen, University of Illinois at Urbana-Champaign; **Sandy Dall'Erba**, University of Illinois at Urbana-Champaign

Do Crop Insurance Programs Preclude their Recipients from Adapting to New Climate Conditions?

Zhangliang Chen, University of Illinois at Urbana-Champaign; **Sandy Dall'Erba**, University of Illinois at Urbana-Champaign

The Effects of Subsidies and Mandates: A Dynamic Model of the Ethanol Industry

Fujin Yi, Nanjing Agricultural University, China; **C.-Y. Cynthia Lin Lawell**, University of California, Davis; Karen E. Thome, USDA-Economic Research Service

Climate Econometrics: Can the Panel Approach Account for Long-Run Adaptation?

Pierre Mérel, University of California, Davis; **Matthew Gammans**, University of California, Davis

Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2046 Air & Water Pollution and Health Washington Room 5, Exhibition Level

Selected Presentation

This session consists of papers using natural experiments and panel data methods to consider the human health effects of water and air pollution. Health outcomes considered in this session include respiratory-related hospitalizations in Brazil, birthweight and farmer health in China, and biomarkers of health from blood-draws in the United States.

Moderator: Iman Haqiqi, Purdue University

The impact of the Green-Blue municipality program on human diseases in São Paulo State, Brazil
*Henrique Dos Santos Maxir, University of São Paulo; Iara Silveira, University of São Paulo; Rayssa A. Costa, University of São Paulo; Alexandre N. Almeida, University of São Paulo; **María Cristina Galvão**, University of São Paulo*

Investigating the Effects of PM2.5 on Birth Weight in China

Yajuan Li, Texas A&M University; *Jianhong E. Mu, Texas A&M University; Marco A. Palma, Texas A&M University; Luis A. Ribera, Texas A&M University; Qingtao Zhou, University of New Hampshire*

The Effect of Farming on Rural Household's Health: A Natural Experiment in China

Na Lu, University of New Mexico; *Kira M. Villa, University of New Mexico*

2047 Behavioral Economics Approaches to Understanding Crop Insurance Demand Washington Room 6 Exhibition Level

Selected Presentation

Behavioral economics as applied to crop insurance demand and production decision making.

Moderator: Yu Na Lee, University of Guelph

Production Decision Making under Price Ambiguity: An Experimental Evidence

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

Insurance Demand over Varying Coverage Levels: Experimental Evidence From China

Ran Huo, University of Georgia; *Gregory J. Colson, University of Georgia*

Better Understanding of Demand for Weather Index Insurance among Smallholder Farmers Under Prospect Theory

Soye Shin, University of Georgia

Farmers' Valuation of Changes to Crop Insurance Coverage Level – A Test of Third Generation Prospect Theory

Mary Doidge, Michigan State University; *Hongli Feng, Michigan State University; David A. Hennessy, Michigan State University*

2048 Topics in U.S. Rural Development Park Tower 8212, Lobby Level

Selected Presentation

Papers in this session relate to a variety of rural development topics in the context of the United States. Topics include income from self-employment, business-owner resilience, input-output modeling and forest-based communities.

Moderator: Michael A. Gunderson, Purdue University

Modeling the Local Input-Output Network using County-Level Production and Consumption Estimates, and National Input-Output Table

Yicheol Han, Pennsylvania State University; *Stephan J. Goetz, Pennsylvania State University*

An Unconditional Quantile Analysis of the Determinants of Self-Employed Income across Regional Economies: An Initial Assessment

David Brian Willis, Clemson University; *David W. Hughes, University of Tennessee; Kathryn A. Boys, North Carolina State University*

Rural Forest-Based Communities, Economic Shocks, and Economic Trajectories

Kathleen P. Bell, University of Maine; *Mindy Crandall, University of Maine; Darla K. Munroe, The Ohio State University; Anita Morzillo, University of Connecticut; Chris Colocousis, James Madison University*



Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2049 Crop Insurance - Opportunities and Challenges Facing the Industry

Washington Room 2, Exhibition Level

Track Session – ARA Section

The opportunities and challenges facing the crop insurance industry will be addressed by a panel of leading experts from government, private industry, and academia. Robert Johansson, Chief Economist at the United States Department of Agriculture, will discuss U.S. crop production and prices and his view of future trends-based production, price volatility, and other external factors affecting the profitability of U.S. producers. Tom Zacharias, President of the National Crop Insurance Services, will provide the organization's view on the U.S. Farm Bill and the profitability of the crop insurance industry. Julia Borman and Oscar Vergara will present results from the AIR models on the impact that weather events, price variability and RMA rate adjustments had on the U.S. crop insurance industry during the 2017-2018 crop year. Keith Coble will discuss his views of the opportunities and challenges facing the crop insurance industry.

Organizer: Oscar Vergara, Air Worldwide

Discussant: Keith H. Coble, Mississippi State University

Crop Insurance: Opportunities and Challenges Facing Program Administrators

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

Crop Insurance: Opportunities and Challenges Facing the Industry

Thomas P. Zacharias, National Crop Insurance Services

Crop Insurance: Overview of Modeled Industry Results

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

2050 Consumers and Beer

Virginia C, Lobby Level

Track Session – BEER Section

Differentiation is becoming increasingly important in the beer industry. The industry has gone from strong market concentration through 25 years of exponential growth and is settling on nearly 6,500 breweries with various strategies for differentiation. This session focuses on consumer perceptions and reactions to these different strategies. Jarrett Hart will discuss consumer preferences for local craft beer, Ezgi Cengiz outlines consumer responsiveness to advertising in the light beer segment, and Trey Malone will finish with a discussion of local food policy & farm brewery legislation. The session will also feature a live choice experiment!

Organizer: Michael P. McCullough, California Polytechnic State University, San Luis Obispo

Moderator: Michael P. McCullough, California Polytechnic State University, San Luis Obispo

Drink Beer for Science: An Experiment on Consumer Preferences for Local Craft Beer

Jarrett Hart, University of California, Davis

Market Structure and Consumer Responsiveness to Advertising: Evidence from U.S. Beer Market

Ezgi Cengiz, University of Massachusetts, Amherst

The Economic Impacts of Local Food Policies: The Case of Farm Brewery Legislation

Trey Malone, Michigan State University

2051 Navigating Negotiations for Professional Success & Personal Fulfillment

Maryland B, Lobby Level

Track Session – CWAE and COSBAE Sections

Do you have a new or competing job offer? Or have you been asked to take on more responsibilities or teach a new class? Each new career opportunity challenges us to rebalance our workload and find harmony between our professional and personal goals. Negotiating different aspects of one's job is an integral part of our professional success and can launch and contribute to an excellent growth trajectory in a new position or an existing one. Negotiations can involve money (salary or professional funds), retention packages, benefits, physical space, research equipment, joining date, support from TAs and RAs, spousal accommodation, service expectations etc. But who should initiate the dialogue? Should one negotiate on every aspect of the new or current job? Do negotiations look different in academia and industry? We will discuss these and many other negotiation issues in this interactive and hopefully relaxed panel discussion session. Our diverse group of panelists are an excellent resource and will contribute to a lively discussion with multiple perspectives informed by their own career trajectories in academia and government agencies.

Organizers: Simanti Banerjee, University of Nebraska-Lincoln; Lurleen M. Walters, Mississippi State University

Moderators: Simanti Banerjee, University of Nebraska-Lincoln; Lurleen M. Walters, Mississippi State University

Panelists: Deacue Fields III, Auburn University; Keithly G. Jones, USDA-Economic Research Service; Uma Lele, Independent Scholar; Kathleen Liang, North Carolina A&T University; Kent D. Messer, University of Delaware

2052 Robust Econometric Modeling of Environmental Effects in Economics

Maryland C, Lobby Level

Track Session – ENV and Econometrics Sections

Robust impact measurement is key for devising sound well-grounded economic policies. This section presents a collection of papers which showcase the use of robust econometric methods to value economic effects of the climate change, environmental restorations, local environmental disamenities, and shifts in production activities such as marine aquaculture. The presentations offer novel econometric methodologies or theoretical conceptualizations or else apply recent state-of-the-art methodological developments in new contexts or both. The considered models emphasize the importance of explicit modeling of parameter and distributional heterogeneity, nonlinearities, spatial dependence and endogeneity in the estimation.

Organizer: Emir Malikov, Auburn University

Moderator: Emir Malikov, Auburn University

Nonparametric Estimates of the Climate Change Effects on U.S. Agriculture: Heterogeneity, Nonlinearities, Nonseparabilities and Spatial Spillovers

Ruiqing Miao, Auburn University; **Emir Malikov**, Auburn University

Beyond Marginal Impacts: Valuing Marine Aquaculture in a Residential Equilibrium Sorting Model

Keith S. Evans, University of Maine; **Avery W. Cole**, University of Maine; **Xuan Chen**, Emory University

The Value-Undermining Effect of Rock Mining on Nearby Residential Property: A Semiparametric Spatial Quantile Autoregression

Emir Malikov, Auburn University; **Yiguo Sun**, University of Guelph; **Diane Hite**, Auburn University

The Valuation of Dam Removals

Todd Guilfoos, University of Rhode Island; **Jason Walsh**, University of Rhode Island

2053 Recent Topics on Food Retail

Virginia A, Lobby Level

Track Session – AEM and FAMPS Sections

This session features economic research concerned with food retail and policy implications. Presentations showcase a variety of topics including: (1) the overall effects of the recession on grocery competition, (2) the relationship between market concentration and WIC food prices, (3) the strategic response of grocery retailers following the entry of a Costco club store, (4) a comparative welfare analysis examining two alternative policies designed to increase households' produce consumption, (5) the relationship between price variation and market power in local markets, (6) the welfare implications after Walmart entry into food deserts, (7) retailers' pricing strategy and consumer retention, and (8) the impact of power imbalance on incentive alignment in scan-based trading. Each paper varies by geographic scope (e.g., national-level versus case study-based), data source (e.g., publicly available, micro-level scanner data, or experimental), and econometric approach (e.g., structural versus reduced form).

Organizer: Lauren Chenarides, Arizona State University

Moderator: Christiane Schroeter, California Polytechnic State University, San Luis Obispo

Grocery Profitability and Competition: 1998-2014

Rebecca Cleary, Colorado State University; Lauren Chenarides, Arizona State University

WIC Redemption Rates and Retail Market Structure: Evidence from the Los Angeles Market

Richard J. Volpe III, California Polytechnic State University, San Luis Obispo; Tina L. Saitone, University of California, Davis; Richard J. Sexton, University of California, Davis; Meilin Ma, University of California, Davis; Michelle Saksena, USDA-Economic Research Service

Strategic Reactions to Wholesale Club Presence: Implications of Storability on Retailers' Pricing and Assortment Decisions

Emily Wang, University of Massachusetts, Amherst; Christoph Bauner, University of Massachusetts

Policy Interventions to Improve Urban Food Access

Lauren Chenarides, Arizona State University; Edward C. Jaenicke, Pennsylvania State University; Jing Li, University of Hong Kong

The Welfare Impacts of Retailer Competition in Neighborhood Areas

Yanghao Wang, University of Minnesota; Metin Cakir, University of Minnesota

What Happens When Walmart Comes to Food Deserts

Linlin Fan, University of Illinois at Urbana-Champaign

Switching Cost and Store Choice

Timothy J. Richards, Arizona State University; Jura Liaukonyte, Cornell University

Scan-based Trading: An Opportunity for the Food Industry? Evidence from a Negotiation Experiment

Carola Grebitus, Arizona State University; Min Choi, Fullerton University; Timothy J. Richards, Arizona State University; Elliot Rabinovich, Arizona State University

2054 The Potential Effect of Regulatory and Voluntary Changes in the Food Supply to Improve Diet Quality

McKinley, Mezzanine Level

Track Session – FAMPS and FSN Sections

Despite years of recommending that consumers eat more fruits, vegetables, and whole grains while limiting intake of calories, added sugar and sodium, obesity rates continue to rise and diet quality, on average, remains low. The primary focus of public health campaigns has involved providing consumers with more information on how and why to choose a healthy diet. Additional approaches involve encouraging supply side initiatives to make it easier to choose healthy foods, but will they have more of an effect? The papers in this session will present findings on the ways in which the food environment, both in terms of the mix of retailers and the nutritional content of foods available, ultimately impact consumers' dietary intake.

Organizer: Lisa Mancino, USDA-Economic Research Service

Moderator: Mark Denbaly, USDA-Economic Research Service

Impact of the Retail Food Environment on Dietary Adherence

Xiaowei Cai, *California Polytechnic State University, San Luis Obispo*; **Richard J. Volpe III**, *California Polytechnic State University, San Luis Obispo*; **Christiane Schroeter**, *California Polytechnic State University, San Luis Obispo*; **Lisa Mancino**, *USDA-Economic Research Service*

Can SNAP Restrictions Improve Nutrition Quality of Participants' Purchases

Chen Zhen, *University of Georgia*; **Yu Chen**, *The University of Georgia*; **Biing-Hwan Lin**, *USDA-Economic Research Service*; **Lisa Mancino**, *USDA-Economic Research Service*; **Michele L. Ver Ploeg**, *USDA-Economic Research Service*

How Much can Product Reformulations Improve Diet Quality Among Children?

Mary K. Muth, *RTI International*; **Shawn A. Karns**, *Research Triangle Institute*; **Jessica E. Todd**, *USDA-Economic Research Service*; **Lisa Mancino**, *USDA-Economic Research Service*

Comparing the Effect of Menu Labeling Laws on Diet Across Various Measure of Food Access

Lisa Mancino, *USDA-Economic Research Service*; **Jessica E. Todd**, *USDA-Economic Research Service*; **Brandon J. Restrepo**, *USDA Economic Research Service*

2055 Graduate Student Extension Competition Winners

Maryland A, Lobby Level

Track Session – EXT and GSS 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. This session will display the top participants of previous rounds of the competition.

Organizers: Aaron M. Ates, Oklahoma State University; William E. Maples, Oklahoma State University; Levi A. Russell, University of Georgia

Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2056 Experimental Auctions and Other Experimental Stimuli in Agri-Environmental Research: Methods and Policy Implications

Marriott Balcony B, Mezzanine Level

Track Session – EXECON and IBES Sections

The purpose of this lightning session is to examine various approaches to designing and collecting experimental data in an agri-environmental context in both market and non-market settings. The first four papers in the session examine different facets of research relying on experimental auctions. These papers examine such behaviors as consumption stigma, prosocial behavior, non-hypothetical production, and certainty in the made choice through the use of field experiments, non-hypothetical production, social communications, and mouse-tracking data. The next four papers examine the behavioral impact of subtle stimuli, focusing on the endowment effect as a function of relational aspect of the good, smoothing of consumption in certain food choices, comparison of pro-social behavior to tragedy of the commons, and the impact of concentrated buyer market power on food prices. Together, the papers demonstrate the breadth of experimental techniques available to researchers.

Organizers: Andrew Hanks, The Ohio State University; Maik Kecincki, University of Alberta; Nadia A. Streletskaia, Oregon State University

Moderator: Leah H. Palm-Forster, University of Delaware

Organic Grapes or Organic Wine? Unpacking Consumer Preferences in Presence of Certification Standards Information
Nadia A. Streletskaia, Oregon State University; *Jura Liaukonyte*, Cornell University

Wine Produced with Recycled Water Irrigated Grapes: Is it Hard to Swallow?

Tongzhe Li, University of Delaware; *Jill J. McCluskey*, Washington State University; *Kent D. Messer*, University of Delaware

Social Preferences and Communication as Stigma Mitigation Devices – Evidence from Recycled Drinking Water Experiments

Maik Kecincki, University of Alberta; *Kent D. Messer*, University of Delaware

Private Costs for Environmental Goods Provision in a Development Context: Lab and Field Tests of a Novel Cost-Revealing Mechanism

Samuel D. Bell, Oregon State University; *Kent D. Messer*, University of Delaware

Decommodifying Cider: Testing the Moderating Effects of Social Relationships on the Endowment Effect

Trey Malone, Michigan State University; *Lindy Robison*, Michigan State University

Temporal Discounting of Food Products: Consumption Smoothing and the Elusive Present Bias

Gianna Short, University of Minnesota; *Chengyan Yue*, University of Minnesota

You Can Have my Chips: Potentially Resolving the Tragedy of the Commons in Food Settings

Andrew Hanks, The Ohio State University; *David R. Just*, Cornell University

Oligopsony Power: What it Means for the Chilean Cattle Market and Farmers

Luis M. Pena-Levano, University of Florida; *Rodrigo Vasquez-Panizza*, Purdue University

2057 The Double Burden of Malnutrition in Latin America

Marriott Balcony A, Mezzanine Level

Track Session – International and LAS Section

Can you be overweight and undernourished at the same time? Surprisingly yes. There is a global obesity epidemic coexisting with undernutrition, the double burden of malnutrition, that might cause millions to suffer from an array of serious health disorders. Almost 40% of the world population is overweight, and this epidemic is rapidly increasing in medium- and low-level income countries at a rate 30% faster than richer nations. In Latin America, 58% are overweight and 6% of the population in Latin America are undernourished (WHO). This session presents four papers that provide a broad view of the double burden of malnutrition in Latin America, from a model with focus on the linkages between the future drivers of global agriculture and the food system with a focus on overweight and obesity prevalence in the LAC region to the role of household appliances in food security in Bolivia, and the effect of prices of tortilla in food security in Mexico.

Organizer: Juan M. Murguía, Inter-American Development Bank

Hunger vs. Obesity a SIMPLE Framework

Emiliano López Barrera, Purdue University; Thomas W. Hertel, Purdue University

Nutrition and Refrigerators: Do Refrigerators Help you Eat Healthier?

Juan M. Murguía, Inter-American Development Bank; Nelson Chacon, Inter-American Development Bank; Emiliano López Barrera, Purdue University; Brisa Rejas, Inter-American Development Bank

The Effects of Rising Staple Prices on Food Insecurity: The Case of Tortilla in Mexico

Camilo Bohorquez-Penuela, University of Minnesota

Health Stock and Refrigerators

Juan M. Murguía, Inter-American Development Bank

2058 Climate Change, Chinese Agriculture and Environmental Economics

Washington Room 1, Exhibition Level

Track Session – China Section

This session consists of eight papers, which examine the impact of climate change and the adaptation of Chinese agriculture as well as environmental problems in China. Some papers about Chinese agricultural production are also presented in this session.

Organizer: Jian Zhang, Central University of Finance and Economics

Moderator: Songqing Jin, Michigan State University

Farmers' Perceptions of Ex Ante and Ex Post Adaptations to Drought: Empirical Evidence from Maize Farmers in China

Lingling Hou, Peking University; Shi Min, Peking University; Qiuqiong Huang, University of Arkansas; Jikun Huang, Peking University

Impact of Climate Variability on Farmers' Off-Farm Employment Decision in Rural China

Shuai Chen, Zhejiang University; Songqing Jin, Michigan State University; Chen Ji, Zhejiang University; Ni Zhuo, Zhejiang University; Chunhui Ye, Zhejiang University

Impact of Climatic Shock on the Structural Change of Agriculture Sector in China

Chen Ji, Zhejiang University; Songqing Jin, Michigan State University; Shuai Chen, Zhejiang University; Qin Chen, Zhejiang University; Chunhui Ye, Zhejiang University

Does Smog Alerts Increase Healthy Food Demand? Evidence from China

Jianxin Guo, Beijing Academy of Agricultural and Forestry Sciences; Songqing Jin, Michigan State University; Shuai Chen, Zhejiang University; Qin Chen, Zhejiang University; Chunhui Ye, Zhejiang University

Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

Policy Support, Market Structure, and Cooperative Performance: Evidence from China

Yining Xu, Zhejiang University; Zuhui Huang, Zhejiang University; Qiao Liang, Zhejiang University

Does Agricultural Cooperatives Membership Improve Household Grain Production Efficiency in China?

Chen Zhang, Renmin University; Xiangzhi Kong, Renmin University of China; Yumeng Wang, Renmin University of China

The Effect of Land Registration and Certification on Farmland Leasing in Among Farmers - Internal Mechanism and Micro Evidence from the China Labor-Force Dynamics Survey

Wensheng Lin, Renmin University; Qin Ming, Tsinghua University; Yu Zhou, Tsinghua University

The Decline of U.S. Export Competitiveness in the Chinese Meat Import Market

Mina Hejazi, Virginia Tech; Mary Marchant, Virginia Tech; Jue Zhu, Virginia Tech; **Xin Ning**, Virginia Tech

2059 Using Population Grids to Define Rural Areas

Roosevelt Room 3, Exhibition Level

Track Session – Africa and Senior Sections

Population data geographically referenced to a system of grid cells provide a spatially-disaggregated population surface that is compatible with data sets from social, economic, and earth science fields. Using these population grids, more sparsely settled rural areas can be differentiated from urban centers. Rural areas can then be characterized by land cover and remoteness to create a typology that reflects variation in these key features across a continuum of rurality. Statistical indicators can be aligned with such a typology to support rural development policy analysis and decision making in international and domestic settings.

Organizer: Susan E. Offutt, Food and Agriculture Organization

Moderator: Klaus W. Deininger, World Bank

Construction and Use of Population Grid Cells

Mike Ratcliffe, U.S. Census Bureau

A Rural Definition for International Comparisons

Susan E. Offutt, Food and Agriculture Organization

Defining Rurality in the U.S.

David A. McGranahan, USDA-Economic Research Service

Rural Definitions in Africa, Asia, and Latin America

Monica Castillo, International Labor Organization

Concurrent Sessions TUESDAY, 1:00 PM - 2:30 PM

2060 Perspectives on Domestic Policy Drivers and Prospects with a Stalelated WTO

Wilson C, Mezzanine Level

Track Session – International and Senior Section

Since the mid-1990s, the WTO set basic rules for agricultural trade and the DDA followed this approach. All the debate was around the extent and timing of the WTO members' move towards commonly agreed broad targets. Partially as a result or anticipation of those disciplines, domestic policy reforms in the US and EU (as well as in other developed countries) saw large reductions in domestic support levels over the past 20 years. With the shift towards regional agreements (and the WTO agreement on the export competition pillar) the debate on market access has been delinked from domestic policies, thus not only opening the possibility for inconsistencies in domestic support measures, but also in the overall orientation of domestic support. What will promote further reforms or prevent backsliding if further progress is not made in reducing domestic support bindings in WTO?

Organizer: William H. Meyers, University of Missouri

Discussant: Kathy Baylis, University of Illinois at Urbana-Champaign

Perspective from the U.S.

Joseph W. Glauber, International Food Policy Research Institute

Perspective from the EU

Tassos Haniotis, European Commission, DG Agriculture

The Changing Role of Developing Countries

Valeria Piñero, International Food Policy Research Institute

The Influence of WTO Dispute Settlement vs Negotiations

Daniel A. Sumner, University of California, Davis

2118 Agribusiness Economics and Management - Lightning Session

Wilson A, Mezzanine Level

Selected Presentation – Lightning Session

This session focuses on a range of current issues pertinent to food and agribusiness industry including cyber-security, small farm profitability, bee pollination, biotechnology, retirement, renewable fuels and food waste.

Moderator: Claudia Hitaj, USDA-Economic Research Service

Pollination Services: Honeybee Movements Across the U.S. and the Impact of Travel on Honeybee Health

Claudia Hitaj, USDA-Economic Research Service; **David J. Smith**, USDA-Economic Research Service; **Kevin A. Hunt**, USDA-Economic Research Service

Cyber-Security Knowledge and Training Needs of Beginning Farmers in Illinois

Aslihan D. Spaulding, Illinois State University; **James R. Wolf**, Illinois State University

Macroeconomic and Farm-Level Drivers of Profitability Among Smaller and Beginning Farm Businesses

Hofner D. Rusiana, University of Georgia; **Cesar L. Escalante**, University of Georgia; **Brady E. Brewer**, University of Georgia; **Charles B. Dodson**, USDA-Farm Service Agency

Acceptance of Biotechnology in Fruits Across Countries

Yan Heng, University of Florida; **Lisa A. House**, University of Florida

The Past, Present, and Future: The Ins and Outs of a Veterinarian Who Would Change Veterinary Sectors if they Could

Charlotte R. Hansen, American Veterinary Medical Association

Analyzing the Economics of Renewable Jet Fuels Using a Game-theoretic Approach

Bijay P. Sharma, University of Tennessee; **Tun-Hsiang Edward Yu**, University of Tennessee; **Burton C. English**, University of Tennessee; **Christopher M. Boyer**, University of Tennessee

Determinants of Food Waste in University Event Catering

Diogo M. Souza Monteiro, Newcastle University; **Charlotte Brockbank**, Rigtons, Ltd; **Graeme Heron**, Newcastle University



Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2061 Complex Pricing by Multi-Product Firms: Experimental Evidence on Firm, Consumer, and Regulator

Coolidge, Mezzanine Level

Organized Symposium

Firms are increasingly using complex non-linear pricing strategies when marketing to consumers. Many policy-relevant questions related to multi-product pricing are simple to state, yet analytically intractable. Thus, lab experiments crafted to capture the essential tensions between sellers and buyers are invaluable for promoting our understanding of the mechanisms at play. This session presents results from three experimental studies on pricing complexity from the perspective of consumers, firms, and regulators.

Organizers: Jeffrey D. Michler, University of Saskatchewan; Emilia Tjernström, University of Wisconsin-Madison

Discussant: Guanming Shi, University of Wisconsin-Madison

Panelists: Joshua W. Deutschmann, University of Wisconsin-Madison; Jeffrey D. Michler, University of Saskatchewan; Jose Nuno-Ledesma, Purdue University

2062 The Community-Business Tipping Point: Change, Resilience, and Progress

Maryland B, Lobby Level

Organized Symposium

Recent research has proposed that there might be a community-business recovery and adaptation tipping point. Panelists will discuss how business recovery and adjustment to exogenous shocks, such as natural disasters, changing demographics, and changing industry dynamics, have occurred in the context of community adaptation to these same exogenous shocks.

Organizer: Maria I. Marshall, Purdue University

Panelists: George W. Haynes, Montana State University; Maria I. Marshall, Purdue University; Corinne Valdivia, University of Missouri; Michael D. Wilcox Jr., Purdue University

2063 Food Policy and Applications from Nutrition: Lightning Session

Roosevelt Room 5, Exhibition Level

Selected Presentation – Lightning Session

This session features lightning session presentations on topics of food policy and nutrition. There is a focus on food labeling and packaging, as well as a focus on nutrition in international contexts.

Moderator: Syed Badruddoza, Washington State University

Impact of Point of Sales Nutritional Labels on Food Purchase: Evidence from the Rural Midwest

Harshada Karnik, University of Minnesota; **Hikaru Hanawa Peterson**, University of Minnesota

Impact of Revised WIC Food Packages on Infant Feeding and Transition to Complementary Foods

Hongyang Di, Texas A&M University; **Ariun Ishdorj**, Texas A&M University; **Lisako McKyer**, Texas A&M University

Memory of Famine – Does Childhood Experience of Severe Food Shortage Affect Food Choice in Old Age?

Qihui Chen, China Agricultural University; **Tinghe Deng**, China Academy of Agricultural Sciences; **Chunchen Pei**, China Agricultural University; **Chengcheng Wang**, China Agricultural University

Consumer Acceptance of an Agricultural Products Traceability System: Evidence from China

Xiujuan Chen, Jiangnan University; **Linhai Wu**, Jiangnan University; **Yu Pan**, Taihu University of Wuxi; **Kin Wai Michael Siu**, Hong Kong Polytechnic University; **Xiaoru Gong**, Jiangnan University, School of Business; **Dian Zhu**, Suzhou University

Pesticide Use in Sub-Saharan Africa: Estimates, Projections, and Implications in the Context of Food System Transformation

Jason E. Snyder, Michigan State University; **Jennifer C. Smart**, International Food Policy Research Institute; **Joseph C. Goeb**, Michigan State University; **David L. Tschirley**, Michigan State University

A Study of Impact of Eating Habits on BMI and Metabolic Syndrome Using a Propensity Score Approach in South Korea

Sanghyo Kim, Korea Rural Economic Institute; **Dahye Kim**, Korea University; **Seong-Yoon Heo**, Korea Rural Economic Institute; **Kyei-Im Lee**, Korea Rural Economic Institute

Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2064 International Trade - Policy Impacts on Agricultural Trade

Wilson B, Mezzanine Level

Selected Presentation – Lightning Session

Papers in this session examine agricultural trade impacts of trade policies, sanitary and phyto-sanitary (SPS) measures, and other domestic policies and investments.

Moderator: K. Aleks Schaefer, Royal Veterinary College, University of London

Managed Trade: The U.S.-Mexico Sugar Suspension Agreements

Colin Andre Carter, University of California, Davis; Tina L. Saitone, University of California, Davis; K. Aleks Schaefer, Royal Veterinary College, University of London

Potential Impacts of Mexican Policy on Imports of U.S. Broiler Meat and Feed Grains

Carlos Anthony Arnade, USDA-Economic Research Service; *Christopher G. Davis, USDA-Economic Research Service*

SPS Measures and the Hazard Rate of Agricultural Exports: A Discrete-Time Approach

Xin Ning, *Virginia Tech; Jason Grant, Virginia Tech; Everett B. Peterson, Virginia Tech*

Maximum Residue Limit Heterogeneity, Trade Costs, and Trade Flows: Case Study of Fruits and Vegetables

Ly Nguyen, *Auburn University; Norbert L.W. Wilson, Tufts University*

The Effects of Transportation Infrastructure on the Export Participation and Composition

Suprabha Baniya, *Clark University; Zeynep Akgul, Purdue University*

The Role of E-governance on Bilateral Agricultural Trade

Trina Biswas, *Louisiana State University; P. Lynn Kennedy, Louisiana State University*

Do Canadian Wheat Grades Weight Down Trade? A Gravity Analysis

Peter Herman, U.S. International Trade Commission; Lesley Ahmed, U.S. International Trade Commission

The Competitiveness of French Agri-Food Exports: A Methodological and Comparative Approach

Angela Cheptea, *INRA; Marilyne Huchet-Bourdon, Agrocampus Ouest*

2065 Farmland and Cash Rental Markets

Park Tower 8228, Lobby Level

Selected Presentation - Discussant Test Session

Papers in this section examines the factors affecting farmland value and cash rental rates including bargaining power in rental market, governmental payment on cash rent, and auction behaviors for farm land value.

Moderator: Duncan M. Chembezi, Alabama A&M University

Bargaining Power in Farmland Rental Markets

Todd H. Kuethe, *at Urbana-Champaign; Daniel P. Bigelow, USDA-Economic Research Service*

Farmland Values and Bidder Behavior in First-Price Land Auctions

Martin Odening, *Humboldt University Berlin; Silke Huettel, University Bonn; Carsten Croonenbroeck, University Rostock*

Determinants of Land Value Volatility in the Corn Belt

Ana Claudia Sant'Anna, *The Ohio State University; Ani Katchova, The Ohio State University*

Impact of Counter-Cyclical Payments on Cash Rental Rates

David Boussios, *USDA-Economic Research Service; Marcelo J. Castillo, USDA-Economic Research Service; Brady E. Brewer, University of Georgia*



Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2066 Behavioral Economics, Social Norms and Nudging

Park Tower 8219, Lobby Level

Selected Presentation

The papers in this session evaluate regulations and behavioral interventions (such as information provisions) of different resources. Three papers use randomized controlled trials (RCTs), while the fourth one employs an event study.

Moderator: Rebecca Taylor, University of Sydney

A Mixed Bag: The Hidden Time Costs of Regulating Consumer Behavior

Rebecca Taylor, University of Sydney

Social Norms and Personalized Messaging to Promote Energy Conservation: Evidence from a University Residence Hall

Mateus Nogueira Meirelles De Souza, University of Illinois at Urbana-Champaign; Erica Myers, University of Illinois at Urbana-Champaign

Social Comparisons Versus Information Provision in Residential Water Consumption: Evidence from a Randomized Controlled Trial

Salvador Lurbe, Colorado State University; Jesse Burkhardt, Colorado State University; Christopher Goemans, Colorado State University; Dale Manning, Colorado State University

Can Referral Improve Targeting? Evidence from a Vocational Training Experiment

Marcel Fafchamps, Stanford University; Asadul Islam, Monash University; Abdul Malek, BRAC; Debayan Pakrashi, IIT Kanpur

2067 U.S. Demand for Marijuana and Tobacco Products

Roosevelt Room 1, Exhibition Level

Selected Presentation

The markets for tobacco and more recently marijuana consumption are highly regulated by state and federal jurisdictions in the United States. Taxes, advertising restrictions, and ingredient controls are some tools used by these jurisdictions to regulate tobacco and marijuana markets. This session examines demand for tobacco, including e-cigarettes, and marijuana products, and how state and federal laws affect its consumption and consequently the social welfare.

Moderator: Vahé Heboyan, Augusta University

Estimating the Costs and Benefits from Legalization and Regulation of Adult-Use and Medical Manufactured Cannabis Products in California

Jonathan D. Kaplan, California State University, Sacramento; Erick Eschker, Humboldt State University

Estimating the Effects of an Excise Tax on Electronic Cigarettes Consumption with a Difference-in-Difference Analysis

Xueting Deng, University of Kentucky; Yuqing Zheng, University of Kentucky

A Dynamic Quantile Regression Analysis of the U.S. Tobacco Control Policies: Implications of Tobacco Taxes and Tobacco-Free Laws on Young Adult and Adult Cigarette Consumption during 2009-2014

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

Counterfactual Policy Simulations for Assessing the Impact of Potential Regulations on E-Cigarette Attributes

Samane Zare, University of Kentucky; **Yuqing Zheng**, University of Kentucky

Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2069 Auctions, Games and Economic Behavior

Washington Room 1, Exhibition Level

Selected Presentation

The studies in this session use auctions and games to explore economic behavior for environmental conservation and risk and insurance provision. The research presented addresses several challenges in the provision of public and private goods.

Moderator: Gal Hochman, Rutgers University

Implementing Reverse Auctions with Screening Criteria to Provide Ecosystem Services

Anwesha Chakrabarti, University of Connecticut; Pengfei Liu, University of Connecticut; Stephen K. Swallow, University of Connecticut

Compulsory Versus Voluntary Insurance: An Online Experiment

Peilu Zhang, Texas A&M University; Marco A. Palma, Texas A&M University

Water Transactions Along a River: A Multilateral Bargaining Experiment with a Veto Player

Zhi Li, University of Washington; Xin Zhang, Xiamen University; Wenchao Xu, Xiamen University

The Impact of Transaction Costs and Competitiveness on the Performance of Reverse Auctions

Siddika Bhuiyanmishu, University of Delaware; Leah H. Palm-Forster, University of Delaware; Tongzhe Li, University of Delaware

2070 The Economics of Genetically Modified Organisms

Roosevelt Room 3, Exhibition Level

Selected Presentation

Papers in this session bring together research across different methodological and empirical questions regarding consumer perceptions and behaviors around the impacts of voluntary and right-to-know non-GMO labeling.

Moderator: Xiaoli Fan, University of Alberta

Effect of Information on Consumer Acceptance of Genetically Modified Potatoes in Canada

Xiaoli Fan, University of Alberta; Violet Muringai, University of Alberta

A Bayesian Approach to Modelling the Effects of Information on Consumer Acceptance of Biotechnology in Animal Products

David L. Ortega, Michigan State University; Jayson L. Lusk, Purdue University; Wen Lin, Michigan State University; Vincenzina Caputo, Michigan State University

Effects of Personality on Demand for Genetically Modified Animal Products: A Cross-Country Investigation

Wen Lin, Michigan State University; David L. Ortega, Michigan State University; Vincenzina Caputo, Michigan State University; Jayson L. Lusk, Purdue University

The Impact of Voluntary Non-GMO Labeling on Demand in the Ready-to-Eat Cereal Industry

Aaron A. Adalja, Cornell University



Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2071 Habit Formation in Beverage Demand: Farm-to-School Program Adoption

Harding, Mezzanine Level

Selected Presentation

School lunches are critical to improving the nutrition and food security of children and well-designed school lunch programs can help children develop dietary habits that will persist through their lives. Two papers in this session address the extensive and intensive margins of school districts' decisions to adopt farm-to-school (FTS) programs and purchase additional local food once FTS programs have been adopted. The other two papers estimate demand for habit-forming beverages that carry health risks: beer, carbonated-sweetened beverages, and energy drinks. The former paper explicitly models habit formation, and the latter considers the effects of labeling caffeine content.

Moderator: Zoë Plakias, The Ohio State University

Heterogeneity in Farm-to-School Spending: Drivers and Implications

Zoë Plakias, *The Ohio State University*; **Allen Klaiber**, *The Ohio State University*; **Brian E. Roe**, *The Ohio State University*

The Impacts & Distribution of State Incentives on Farm to School Programs: A Probability Model

Jonathan Z. Weir, *Purdue University*

Habit Formation with Smooth Transitions: Estimating Demand for U.S. Carbonated-Sweetened Beverages and Beer

Wenyng Li, *University of Georgia*; **Jeffrey H. Dorfman**, *University of Georgia*

The Added Caffeine, Health Concerns and Potential Regulations: The Case of Energy Drinks

Xuan Chen, *Pennsylvania State University*; **Yizao Liu**, *Pennsylvania State University*; **Edward C. Jaenicke**, *Pennsylvania State University*; **Adam N. Rabinowitz**, *University of Georgia*

2072 Food Waste, Climate Change, and Consumer Evaluation of Nutrition Claims

Roosevelt Room 4, Exhibition Level

Selected Presentation

Food waste is a major contributor to the greenhouse gas emissions of the agricultural sector; together with health and nutrition, it is expected that global warming will be one of the major problems of the 21st century. The papers in this session address these problems by simulating the effects of carbon taxes on food demand in France; analyzing the effect of changing sell-by-date regulations on purchases (and therefore waste) of fluid milk; developing and testing new methodologies for measuring food waste; and combining sensory tests with eye tracking and a discrete-choice experiment to assess consumer preferences for health claims.

Moderator: Adelaide Fadhuile, University Grenoble Alpes

How Does Carbon Pricing Matter for a Climate-Friendly Food Consumption?

France Caillavet, *University Grenoble Alpes*; **Adelaide Fadhuile**, *University Grenoble Alpes*; **Véronique Nichèle**, *University Grenoble Alpes*

The Effect of Sell-By Dates on Purchase Volume and Food Waste: A Case of New York City's Sell-By Regulation of Milk

Yang Yu, *Pennsylvania State University*; **Edward C. Jaenicke**, *Pennsylvania State University*

The Reality of Food Losses: A New Measurement Methodology

Monica Schuster, *University of Antwerp*; **Luciana Delgado**, *International Food Policy Research Institute*; **Maximo Torero**, *International Food Policy Research Institute*

Combining Discrete Choice Experiment, Eye Tracking and Sensory Tests to Assess Consumer Preferences for Nutritional and Health Claims

Petjon Ballco, *Centro de Investigación y Tecnología Agroalimentaria Aragón - Spain*; **Vincenzina Caputo**, *Michigan State University*; **Tiziana De-Magistris**, *CITA-Universidad de Zaragoza*

Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2073 Labor Supply, Demand, and Wages

Virginia A, Lobby Level

Selected Presentation

Moderator: Alexandra E. Hill, University of California, Davis

The Minimum Wage and Worker Productivity: A Case Study of California Strawberry Pickers

Alexandra E. Hill, University of California, Davis

How Agricultural Producers Adjust to a Shrinking Farm Labor Supply

Diane Charlton, Montana State University; **Genti Kostandini**, University of Georgia

Explaining the Growth in Agricultural Guest Worker Demand

Diane Charlton, Montana State University; **Marcelo J. Castillo**, USDA-Economic Research Service; **Thomas Hertz**, USDA-Economic Research Service

Marijuana and Labor Supply: Evidence from Recreational-Purposes Marijuana Legalization

Yajuan Li, Texas A&M University; **Marco A. Palma**, Texas A&M University

2074 Envirodeveconomics

Virginia C, Lobby Level

Selected Presentation

Studies in this session investigate the intersection between environmental and development economics.

Moderator: Teevrat Garg, University of California, San Diego

The Ecological Footprint of Transportation Infrastructure

Sam Asher, World Bank; **Teevrat Garg**, University of California, San Diego; **Paul Novosad**, Dartmouth College

Environmental Impacts of Cash Transfer Programs: Implications for the Welfare of Poor Communities in Developing Countries

Ted E. Gilliland, Mount Holyoke College; **James N. Sanchirico**, University of California, Davis; **J. Edward Taylor**, University of California, Davis

Climate Change, Pollution and Infant Mortality: Evidence from Temperature Shocks and Crop Residue Burning in India

Hemant K. Pullabhotla, University of Illinois at Urbana-Champaign

Ex Ante Migration in Response to Environmental Change

Esteban J. Quiñones, University of Wisconsin-Madison; **Jenna Nobles**, University of Wisconsin-Madison; **Fernando Riosmena**, University of Colorado - Boulder; **Raphael Nawrotzki**, Independent Researcher

2075 Conflict

Wilson A, Mezzanine Level

Selected Presentation - Discussant Test Session

Moderator: Youngran Choi, Washington State University

Good Intentions Gone Bad? The Dodd-Frank Act and Conflict in Africa's Great Lakes Region

Jeffrey Bloem, University of Minnesota

Persistent Effects of Civil Conflict on Schooling and Earnings in Nepal

Lokendra Phadera, University of Illinois at Urbana-Champaign

Assessing the Direct and Spillover Effects of Shocks to Refugee Remittances

Jennifer Alix-Garcia, Oregon State University; **Sarah Walker**, University of New South Wales; **Anne Bartlett**, University of New South Wales



2076 Water Management
Park Tower 8212, Lobby Level

Selected Presentation

Studies on valuation of water resources, and irrigation and groundwater management.

Moderator: Alicia Rosburg, University of Northern Iowa

Energy, Food, and Water; Electricity Cooperative Pricing and Groundwater Irrigation Decisions

R. Aaron Hrozencik, Colorado State University

Land Market Valuation of Groundwater Availability

Gabriel Sampson, Kansas State University; **Nathan P. Hendricks**, Kansas State University; **Mykel R. Taylor**, Kansas State University

Projecting the Provision and Value of Water from National Forests in Southern California Under Ecological Change
Lorie Srivastava, University of California, Davis; **Michael S. Hand**, USDA-Forest Service; **John Kim**, USDA-Forest Service

Farm-level Cropping Decision and Irrigation Water Use under Both Institutional and Hydrological Constraints

Gi-Eu Lee, University of Nevada, Reno; **Kimberly S. Rollins**, University of Nevada, Reno; **Loretta Singletary**, University of Nevada, Reno

2077 Production Economics - Exploring the Relationship Between Land Ownership and Agricultural Productivity: An International Comparison
Washington Room 3, Exhibition Level

Selected Presentation

Papers in this session explore the relationship between land ownership, tenure, and agricultural productivity in a diverse set of countries.

Moderator: Aditya R. Khanal, Tennessee State University

Impacts of Contract Farming Decisions on High Value Crop Production of Smallholder Nepalese Farmers: A Multinomial Endogenous Switching Regression Approach

Aditya R. Khanal, Tennessee State University; **Ashok K. Mishra**, Arizona State University

Heterogeneous Supply Response: Does High Price Expectation Attenuate the Inverse Farm Size-Productivity Relationship in China

Ling Yao, China Agricultural University; **Qihui Chen**, China Agricultural University; **Laping Wu**, China Agricultural University

Plot Size and Maize Production Efficiency in China: Agricultural Involution and Mechanization

Yufeng Luo, University of Georgia; **Feifei Chen**; **Huanguang Qiu**, Renmin University of China

Land Reform Delay and the Political Economy of South Africa

Aleksandr Michuda, University of California, Davis

2078 Application of State-of-the-Art Econometric Methods
Park Tower 8222, Lobby Level

Selected Presentation

Papers in this session deal with advanced econometric methods in agricultural economics.

Moderator: Aramays Dallakyan, Texas A&M University

Gaussian Copulas for Imposing Structure on VAR

Aramays Dallakyan, Texas A&M University; **David A. Bessler**, Texas A&M University

Nonparametric Estimation and Inference of Production Risk with Categorical Variables

Zheng Li, North Carolina State University; **Roderick M. Rejesus**, North Carolina State University; **Xiaoyong Zheng**, North Carolina State University

Missing Data Recovery for Farm Financial Data: An Application of the Matrix Completion Method

Yu Wang, University of Georgia; **Jeffrey H. Dorfman**, University of Georgia; **James W. Richardson**, Texas A&M University

Using Bayesian Kriging for Spatial Smoothing of Trends in the Means and Variances of Crop Yield Densities

Bart Niyibizi, Oklahoma State University; **Wade Brorsen**, Oklahoma State University; **Eunchun Park**, Mississippi State University

Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2079 Coastal & Flood Management *Washington Room 5, Exhibition Level*

Selected Presentation

This session consists of related topics of growing importance in environmental economics and policy: coastal resilience & armoring and flood control & insurance.

Moderator: Martha Rogers, The Nature Conservancy

Holding the Line: Identifying the Influential Determinants of a Land-Owner's Decision to Install Coastal Armoring

William J. Beasley, *Oregon State University*; **Steven J. Dundas**, *Oregon State University*

Coastal Resilience and the Effect of Natural and Human Adaptations on Coastal Development

Xiaoyu Li, *The Ohio State University*; **Sathya Gopalakrishnan**, *The Ohio State University*; **Allen Klaiber**, *The Ohio State University*

Identifying the Costs to Homeowners of Eliminating NFIP Subsidies

Will C. Georgic, *The Ohio State University*; **Allen Klaiber**, *The Ohio State University*

Implications of Spatial Externality of Flood Control: Land Reclamation, Wetland Reservation, and Investment in Flood Control Facilities

Yang Xie, *University of California, Riverside*; **David Zilberman**, *University of California, Berkeley*

2080 Bioenergy *Wilson C, Mezzanine Level*

Selected Presentation

This session consists of four related papers on bioenergy. Two of the papers consider the carbon/GHG effects of co-firing biomass and coal for electricity generation. The two other papers also consider the role of bioenergy in reducing carbon/GHG emissions.

Moderator: Neha Khanna, Binghamton University

The Role of Biomass in the Transition of Electricity System towards Decarbonization

Haemin Kim, *University of Wisconsin-Madison*; **Xiaodong Du**, *University of Wisconsin-Madison*; **Craig Johnston**, *University of Wisconsin-Madison*

Quantifying the Impacts of Biomass Co-Firing on GHG Emissions from Coal-Powered Electricity Generation

Shanxia Sun, *Shanghai University*; **David R. Johnson**, *Purdue University*; **Thomas W. Hertel**, *Purdue University*

Assessing the Carbon Neutrality of Biofuel: An Anticipated Baseline Approach

Madhu Khanna, *University of Illinois at Urbana-Champaign*; **Weiwei Wang**, *University of Illinois at Urbana-Champaign*; **Michael Wang**, *Argonne National Laboratory*

Analysis of United States Supplies of RNG and their Impact on the California Low Carbon Fuel Standard through 2030

Dan Scheitrum, *University of Arizona*; **Nathan C. Parker**, *Arizona State University*

2081 Assessing Crop Insurance Products Based on Different Aggregations of Risk *Washington Room 6, Exhibition Level*

Selected Presentation

Behavioral economics as applied to crop insurance demand and production decision making.

Moderator: Sandra Hoffmann, USDA-Economic Research Service

Systemic Risk, Geography and Area Insurance

Xuche Gong, *Michigan State University*; **Hongli Feng**, *Michigan State University*; **David A. Hennessy**, *Michigan State University*

Insurance and American Options in Intra-season Cropping Choices with Applications

Asa Watten, *Michigan State University*; **David A. Hennessy**, *Michigan State University*; **Jinhua Zhao**, *Michigan State University*

Tail-dependent Rainfall Risk and Demand for Index based Crop Insurance

Digvijay S. Negi, *Indian Statistical Institute*

Performance of Farm Level Vs Area Level Crop Insurance

Sebastain N. Awondo, *University of Alabama*



2082 Topics in International Rural Development

Park Tower 8216, Lobby Level

Selected Presentation

Papers in this session discuss findings from rural development research in an international setting. Topics include farmland preservation, diet quality, effects of extension, and public program targeting.

Moderator: Anne G. Timu, University of Nebraska-Lincoln

Indemnity Payouts, Learning from others and Index Insurance Uptake

Anne G. Timu, University of Nebraska, Lincoln; **Christopher R. Gustafson**, University of Nebraska-Lincoln; **Munenobu Ikegami**, International Livestock Research Institute; **Nathaniel Jensen**, International Livestock Research Institute

Improving Diet Quality through Off-Farm Work: Empirical Evidence from India

Alwin Dsouza, Arizona State University; **Ashok K. Mishra**, Arizona State University; **Amarnath Tripathi**, Institute of Economic Growth

The Effect of Rural Extension on Income and Income Inequality in Brazil

Carlos Otávio Freitas, Federal University of Rio de Janeiro; **Felipe Figueiredo Silva**, University of Nebraska-Lincoln; **Mateus C R Neves**, Federal University of Vicosa; **Marcelo J. Braga**, Federal University of Vicosa

2083 Theory and Empirical Evidences on the Welfare Implications of Agrifood Value Chain Transformation

McKinley, Mezzanine Level

Track Session – AEM and Econometrics Sections

The global agrifood value chain has been transforming rapidly: e-commerce as a new form of agribusiness is moving from niche market to commoditization; conventional agribusiness has always been looking for new strategic partners (e.g. sourcing from contract farmers); while policies promoting local production and consumption has become popularized recently. This session sheds light on welfare implications of these agrifood value chain transformations: Lu et al. provides a game theoretic framework to analyze online platforms (Amazon and Alibaba) strategic decision of inventory and sourcing at various emerging markets. Jin and Guo discusses the welfare implications of smallholders in China who participate in “e-commerce” village program. Bellemare empirically demonstrates that farmers participate in contract farming face the opportunity cost of turn away from non-agricultural activities. Winfree and Watson show that inefficiencies in local production can be exacerbated through consumption side social interactions.

Organizer: Liang Lu, University of Idaho

Contract Farming: Opportunity Cost and Trade-Offs

Marc F. Bellemare, University of Minnesota

Welfare Implications of Rural E-Commerce Villages Participants in China

Songqing Jin, Michigan State University; **Hongdong Guo**, Zhejiang University

“Buy Local” as a Social Interaction Phenomenon

Jason Winfree, University of Idaho; **Philip S. Watson**, University of Idaho

Trade and Services FDI in Emerging Agrifood E-Commerce Platforms

Liang Lu, University of Idaho; **David Zilberman**, University of California, Berkeley; **Thomas A. Reardon**, Michigan State University; **Titus O. Awokuse**, Michigan State University

Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2084 Agricultural Derivatives: Insights into Market Participation

Hoover, Mezzanine Level

Track Session – AFM and ARA Sections

This session will focus on agricultural derivatives markets, and insight into participation in these markets from survey and regulatory data.

Organizer: Sarah Tulman, USDA-Economic Research Service

Moderator: Daniel Prager, USDA-Economic Research Service

Discussant: Scott H. Irwin, University of Illinois at Urbana-Champaign

Farmers' Use of Agricultural Derivatives in Hedging

Sarah Tulman, *USDA-Economic Research Service*; **Daniel Prager**, *USDA-Economic Research Service*

Is Pit Closure Costly for Customers? A Case for Livestock Futures

Esen Onur, *CFTC*; **Eleni Gousgounis**, *Stevens Institute of Technology and CFTC*

Who Holds Positions in Agricultural Futures Markets? Evidence from Regulatory Data

John S. Roberts, *CFTC*; **Michel A. Robe**, *University of Illinois at Urbana-Champaign*

2085 Implications for Agricultural Economists of the Foundations for Evidence-Based Policymaking Act of 2017 (HR 4174)

Maryland C, Lobby Level

Track Session – CRENET and Senior Sections

HR 4174 brings about a sea change in federal policy evaluation. “The bill, jointly sponsored by House Speaker Ryan and Senator Murray, recognizes the need for more evidence to support policymakers, specifies certain roles and procedures in government institutions necessary to provide capacity to generate evidence...” (Bipartisan Policy Center Nov. 15, 2017) Agricultural economists until recently have not had access to the kinds of data required to allow rigorous and robust policy evaluation. HR 4174 opens the door for researchers to temporarily merge large, detailed firm-level databases compiled from a variety of sources to study federal program impacts in an unbiased and systematic manner. This session features Nick Hart, Policy and Research Director for the Commission that produced the bill; John Thompson, former Director of the U.S. Census Bureau; and agricultural economists with first hand experience evaluating federal policy impacts.

Organizers: Stephan J. Goetz, Pennsylvania State University; Paul D. Gottlieb, Rutgers University; Timothy R. Wojan, USDA-Economic Research Service

Implications for Agricultural Economists of the Foundations for Evidence-Based Policymaking Act of 2017 (HR 4174)

Nick Hart, *BPC's Evidence-Based Policymaking Initiative*

The Perspective of the Council of Professional Associations on Federal Statistics

John Thompson, *Council of Professional Associations on Federal Statistics*

Lessons Learned from Federal Pilots to Merge Data and Assess Program Impacts

Cynthia J. Nickerson, *USDA-Economic Research Service*

Assessing the Effectiveness of Rural Business Programs Using Administrative Data

Anil Rupasingha, *USDA-Economic Research Service*



Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2086 Coastal Resilience and Adaptation to Climate Change: Current Applications and Future Directions

Virginia B, Lobby Level

Track Session – ENV Section

Coastal communities are facing increasing threats from sea level rise and hurricanes. This session presents applications that evaluate sustainability, resilience, and adaptation to climate change in the coastal zone. Revealed preference data will be used to explore housing market dynamics, testing for regime shifts in price indexes that may be responding to changes in risk (Gopalakrishnan, et al.), and the impact of disaster aid on community resilience (Davlasheridze and Miao). Stated preference data will provide insight into economic values associated with coastal adaptation to sea level rise (Chen, et al.), and novel econometric methods will be used in joint estimation of use and passive use values for coastal erosion management and adaptation (Landry, et al.). Presenters will discuss the issues of identification, preference heterogeneity, and uncertainty in their work and discuss potentials for methodological innovation in coastal adaptation.

Organizers: Xiang Bi, University of Florida; Craig Landry, University of Georgia

Moderator: Xiang Bi, University of Florida

Do Housing Market Trends Reflect Coastal Resilience?

Sathya Gopalakrishnan, *The Ohio State University*; **Xiaoyu Li**, *The Ohio State University*; **Allen Klaiber**, *The Ohio State University*

Natural Disasters, Public Housing, and the Role of Disaster Aid

Meri Davlasheridze, *Texas A&M University at Galveston*; **Qing Miao**, *Rochester Institute of Technology*

Residents' Willingness to Pay for Sea Level Rise Adaptation in Miami

Xuqi Chen, *University of Florida*; **Xiang Bi**, *University of Florida*; **Zhifeng Gao**, *University of Florida*

Economic Values of Coastal Erosion Management: Use and Passive Use Values for Beach Nourishment, Shoreline Armoring, and Coastal Retreat

Craig Landry, *University of Georgia*; **Xiang Bi**, *University of Florida*; **Zhifeng Gao**, *University of Florida*

2087 Communicating Economics to Non-Economists Including Policy-makers, Non-governmental Organizations, and Media Organizations

Marriott Balcony B, Mezzanine Level

Track Session – EXT and GSS Sections

This symposia aims to enhance economist's skills in communicating their research findings with government officials and the public. The event will outline techniques for preparing your research for non-economist audiences while retaining the quality and depth of the analysis. Presenters will share their tips on language to use, the value of charts and graphs, contemporary approaches, the importance of brevity and communication format, and platforms and media that are most appropriate for different audiences. Following a brief (5-minute) introduction of the topic by the moderator, each presenter will have 15 minutes to share lessons learned. Remaining time will allow questions from and discussion among participants.

Organizers: Damona Doye, Oklahoma State University; Caron Gala, Council on Food, Agricultural and Resource Economics

Moderator: Spiro E. Stefanou, University of Florida

The Role of Economic Policy Analysis in Informing Media Reporting

Alan Bjerga, *Bloomberg News*

The Role of Economic Policy Analysis in Providing Guidance for Emerging Policy Issues

John C. Newton, *American Farm Bureau Federation*

Why Speaking with Congress is Important for Economic Science and Extension

Matt Hourihan, *American Association for the Advancement of Science*

Communicating Economic Research to Policy Audiences

Caron Gala, *Council on Food, Agricultural and Resource Economics*

Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

2088 Using Data to Inform Health and Nutrition Policy

Washington Room 4, Exhibition Level

Track Session – FAMPS and FSN Sections

This lightning session presents 8 papers that use data in innovative ways to address health and nutrition policy. Using a variety of data sets from statewide, individual data and analyses of mass media reports to the USDA Food Atlas, the National Household Food Acquisition and Purchase Survey, and supermarket scanner data, these presentations examine issues ranging from broad consumption patterns and the demand for sugary cereals, fiber and fruits and vegetables, to informing policy for pork quality, the NLEA (nutrition facts panel), and the list of restricted foods purchased by SNAP beneficiaries. The session is of interest to researchers and policy makers desiring to understand the uses of a variety of different types of data to address nutrition and health policy questions.

Organizer: Jane M. Kolodinsky, University of Vermont

Grocery Store Proximity and Diet Consumption

Lauren Chenarides, Arizona State University; **Oleksii Khvastunov**, Pennsylvania State University

The Luxury Impact of Organic Fruits and Vegetables on Income Elasticities

Sungeun Yoon, University of Florida; **Brandon R. McFadden**, University of Florida; **Zachary Neuhofer**, University of Florida

Simulating the Effect of the Nutrition Fact Panel Revision: Added Sugar and the Demand for Ready-to-Eat Breakfast Cereals

Alessandro Bonanno, Colorado State University; **Andrea C. Carlson**, USDA-Economic Research Service; **Armen Ghazaryan**, Colorado State University; **Rebecca Cleary**, Colorado State University

Merging Nutrition Training Data with Fitness Data to Improve School Health

Janani Rajbhandari Thapa, University of Georgia

Do Taxes for Soda and Sugary Drinks Work? Scanner Data Evidence from Berkeley and Washington

Emily Wang, University of Massachusetts, Amherst; **Christian Rojas**, University of Massachusetts, Amherst

Supplemental Nutrition Assistance Program Participants' Expenditures on Restricted Foods: Implications for Policy

Andrea M. Leschewski, South Dakota State University; **Dave D. Weatherspoon**, Michigan State University

Crawling for Information: Pork Quality and Safety Policy can be Informed by Mass Media Reports

Zhen Yan, Zhejiang University; **Zuhui Huang**, Zhejiang University; **Jiehong Zhou**, Zhejiang University; **Sensen Wu**, Zhejiang University

Media Messages and Support for Labeling of GE Products

Jane M. Kolodinsky, University of Vermont; **Katie Gallagher**, University of Vermont

2089 Impact Assessment of Agricultural Projects in Latin America

Maryland A, Lobby Level

Track Session – LAS Section

In the last ten years, the Inter-American Development Bank has reinforced its commitment to design and implement rigorous impact evaluations with the purpose to assess the effectiveness of its interventions. This session will consist of four impact evaluations of agricultural projects financed by the IDB in Latin America. The session will begin with a brief introduction on the work of the Inter-American Development Bank and the emphasis placed on the implementation of policy analysis and rigorous impact evaluations in agriculture. Specifically, four papers that aim to measure the effectiveness of different agricultural programs will be presented in the session: (i) a technology transfer program in Bolivia; (ii) a land regularization program in Ecuador; (iii) a program of communal-based irrigation systems in Bolivia; and (iv) a livestock transfer program in Nicaragua.

Organizer: Lina Salazar, Division of Environment, Rural Development and Disaster Risk Management

Moderator: Pedro Martel, Inter-American Development Bank

Productivity Effects of Investments on Community-Based Irrigation Systems: Evidence from Bolivia

Cesar A. Lopez, Inter-American Development Bank; **Mario Gonzalez-Flores**, Inter-American Development Bank; **Lina Salazar**, Division of Environment, Rural Development and Disaster Risk Management



Concurrent Sessions TUESDAY, 2:45 PM - 4:15 PM

Biodiversity Impacts of Payments for Results in the Bolivian Andean Mountains

Juan M. Murguia, *Inter-American Development Bank*; *Brisa Rejas*, *Inter-American Development Bank*; *Sergio Bobka*, *Inter-American Development Bank*

Technology Adoption and Women's Empowerment: Evidence from Small Farmers in Bolivia

Jossie Fahsbender, *Inter-American Development Bank*; *Lina Salazar*, *Division of Environment, Rural Development and Disaster Risk Management*

Livestock Transfers, Food Security and Women's Empowerment: Evidence from a Randomized Phased-in Program in Nicaragua

Lina Salazar, *Division of Environment, Rural Development and Disaster Risk Management*; *Jossie Fahsbender*, *Inter-American Development Bank*

2091 Human Capital, Social Capital, Health and Entrepreneurship

Washington Room 2, Exhibiton Level

Track Session – China Section

This session consists of eight papers looking at the human capital, social capital and health problems in China as well as rural entrepreneurship.

Organizer: Jian Zhang, *Central University of Finance and Economics*

Moderator: Jian Zhang, *Central University of Finance and Economics*

The Impact of Dietary Patterns and Their Changes on Health Inequalities: Evidence from China Health and Nutrition Survey

Yu Sun, *Virginia Tech*; *Yumeng Wang*, *Renmin University of China*; *Chaoping Xie*, *Virginia Tech*; *Xiangzhi Kong*, *Renmin University of China*

The Impact of Online Computer Assisted Learning on Education: Evidence from a Randomized Controlled Trial in China

Bin Tang, *Shaanxi Normal University*; *Yu Bai*, *Center for Experimental Economics in Education, Shaanxi Normal University*; *Boya Wang*, *Shaanxi Normal University*; *Di Mo*, *Stanford University*; *Linxiu Zhang*, *CCAP*; *Scott D. Rozelle*, *Stanford University*

Reconciling Returns to Education in Off-Farm Wage Employment among Women in Rural China

Chengfang Liu, *Peking University*; *Ye Li*, *University of Chinese Academy of Sciences*; *Linxiu Zhang*, *CCAP*; *Jack Hou*, *California State University*

Internet Usage and Rural Entrepreneurship in China

Jianmei Zhao, *Central University of Finance and Economics*; *Ye Li*, *University of Chinese Academy of Sciences*; *Linxiu Zhang*, *CCAP*; *Jack Hou*, *California State University*

Chinese Consumers' Preferences for Tomatoes: Interactive Effects Between Food Safety Labels and Brands

Shijiu Yin, *Qufu Normal University*; *Wuyang Hu*, *University of Kentucky*; *Yusheng Chen*, *Ocean University of China*; *Fei Han*, *Qufu Normal University*; *Yiqin Wang*, *Qufu Normal University*; *Mo Chen*, *Qufu Normal University*

China's Increased Food Safety Regulations for Dairy Imports: Measuring the Impact on Global Trade

Elizabeth Gooch, *USDA-Economic Research Service*; *Astha Sen*, *Sonoma State University*

The Influence of Interpersonal Trust on Food Purchasing Behavior in Wechat Micro-Business

Jiping Sheng, *Renmin University*; *Xinyi Xu*, *Renmin University of China*; *Jiangyu Chen*, *Renmin University*; *Yinchu Zeng*, *Renmin University*

Neural Basis of the U.S. Consumer Acceptance of Chinese Brands

Yu Yvette Zhang, *Texas A&M University*; *Marco A. Palma*, *Texas A&M University*; *Shaosheng Jin*, *Zhejiang University*; *Xiaotong Yuan*, *Texas A&M University*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2092 Assessing Damages from Natural Disasters: Data, Tools and Methods for Rapid Response

Coolidge, Mezzanine Level

Organized Symposium

2017 was the costliest disaster year on record in the U.S. with damage from disaster events culminating in losses exceeding \$300 billion. Losses in 2017 alone account for 20% of cumulative losses estimated since NOAA records on billion-dollar disaster events began in 1980 and are over 6.5 times the average annual losses for this time period. Land Grant Universities in many states, and specifically Applied and Agricultural Economics Departments are being asked to assist in loss estimation efforts for agricultural crops and natural resources with limited data, limited or no monetary support, and under severe time constraints. The thrust of this symposium is to identify data, tools and methods currently used by applied/agricultural economists to respond to these requests, “state of the art” damage assessment tools, and the data and modeling tools needed to move from current tools to “state of the art.”

Organizers: Rodney L. Clouser, University of Florida; C. Parr Rosson III, Texas A&M University; Spiro E. Stefanou, University of Florida; Mark L. Waller, Texas A&M University

Panelists: David P Anderson, Texas A&M University; Christa D. Court, Food and Resource Economics, University of Florida; Sandy Dall’Erba, University of Illinois at Urbana-Champaign; Rick Mueller, USDA-National Agricultural Statistics Service

2093 International Association of Agricultural Economists (IAAE)

Wilson A, Mezzanine Level

Organized Symposium

International Association of Agricultural Economists (IAAE) Organized Symposium

Organizer: William J. Martin, International Food Policy Research Institute

Structural Transformation of Growing Economies: Trade’s Role

Kym Anderson, *University of Adelaide and Australian National University*

Contributions of CGIAR R&D to Global Poverty Reduction

William J. Martin, *International Food Policy Research Institute*; **David Laborde**, *International Food Policy Research Institute*; **Simla Tokgoz**, *International Food Policy Research Institute*; **Rob Vos**, *International Food Policy Research Institute*

Agricultural Development and Food Security in Russia and Other Countries of the Former Soviet Union

Saule Burkitbayeva, *University of Leuven*; **Johan F.M. Swinnen**, *University of Leuven*



Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2094 Production Economics - Lightning Session: Production and Supply Changes due to Price, Technology, and Policy Shocks

Washington Room 2, Exhibition Level

Selected Presentation – Lightning Session

Papers in this session examine changes in farm management, production efficiency, and overall supply due to a variety of shocks from price changes, new technologies, and policies.

Moderator: Nathan P. Hendricks, Kansas State University

Global Agricultural Supply Response to Persistent Price Shocks

Nathan P. Hendricks, Kansas State University; Aaron D. Smith, University of California, Davis; Nelson B. Villoria, Kansas State University

Production Under Input Endogeneity and Farm-Specific Risk Aversion: Evidence from Contract Farming

Ashok K. Mishra, Arizona State University; **Anthony N. Rezitis**; Mike Tsionas, University of Lancaster

Revisiting Farm Efficiency of Rice-Crawfish farmers: Accounting for the H-2A program

Surendra Osti, Louisiana State University; Maria Bampasidou, Louisiana State University; J. Matthew Fannin, Louisiana State University

A Dynamic Optimization Model of Agricultural Lime Application

Sanaz Shoghi Kalkhoran, University of Western Australia; Benedict White, University of Western Australia; Maksym Polyakov, University of Western Australia; Morteza Chalak, University of Western Australia; Amin William Mugeru, University of Western Australia; **David J. Pannell**, University of Western Australia

Planting Rates in U.S. Maize: Improved Varieties and Learning

Edward Perry, Kansas State University; David A. Hennessy, Michigan State University; GianCarlo Moschini, Iowa State University

Movement of Marginal Cropland In and Out of Production: Analysis of North Carolina Crop Rotations

Lyubov A. Kurkalova, North Carolina Agricultural and Technical State University; Kingsley Bonsu, North Carolina Agricultural and Technical State University

Supply Response at the Field-Level: Disentangling Area and Yield Effects

Matthieu M. Stigler, University of California, Davis

Production Efficiency and Forms of Farm Organization in China: An Empirical Analysis

Yang Wang, Northeast Agricultural University China; Fengxia Dong, University of Wisconsin-Madison

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2095 Environmental Regulations - Lightning Session

Washington Room 4, Exhibition Level

Selected Presentation – Lightning Session

The eight papers in this lightning session examine how environmental regulations will affect many aspects of an economy, such as auto pricing, farming, innovation, pollution, and trade.

Moderator: Kuan-Ju Chen, Washington State University

Regulated Firm Strategy Under Uncertainty About Regulatory Status

Tihitina Andarge, University of Maryland; **Erik Lichtenberg**, University of Maryland

Revealing Auto-Manufacturer's Implicit Pricing Strategy Under the Reformed CAFE Standard

Hiroshi Matsushima, University of Illinois at Urbana-Champaign; **Madhu Khanna**, University of Illinois at Urbana-Champaign

Effect of Perform-Achieve-Trade Policy on Energy Efficiency of Indian Industries: Evidence from Fertilizer Industry

Hena Oak, Miranda House, University of Delhi; **Sangeeta Bansal**, Jawaharlal Nehru University

Carbon Pricing Induces Innovation: Evidence from China's Regional Carbon Market Pilots

Jingbo Cui, Wuhan University; **Junjie Zhang**, University of California, San Diego; **Yang Zheng**, Wuhan University

Does Relocation Help Toxic Polluters to Grow?

Xiao Wang, University of Illinois at Urbana-Champaign; **George Deltas**, University of Illinois at Urbana-Champaign; **Madhu Khanna**, University of Illinois at Urbana-Champaign; **Xiang Bi**, University of Florida

The Distributional Implications of Carbon Taxation for U.S. Crop Farms

Jennifer E. Ifft, Cornell University; **Pietro Spini**, University of California San Diego; **Steven Wilcox**, Cornell University

P2 Participation: A Potential Source of Pollution Leakage?

Binish Rijal, Binghamton University; **Neha Khanna**, Binghamton University

Does ISO Adoption Boost Export Performance? An Empirical Study Using Industry-level Data

Danbee Song, The Ohio State University; **Abdoul G. Sam**, The Ohio State University

2096 Demand for Food in China

Roosevelt Room 1, Exhibition Level

Selected Presentation

China is one of the fastest growing economies in the world, with rapidly increasing income and population shaping food consumption and production patterns globally, which has implications for land and resource use in the future. The effects of rising income growth, however, has been geographically uneven, with many rural households in China consuming a significant share of their food from foods produced at home. This session examines demand for food in China for different geographic regions.

Moderator: Jingze Jiang, Edinboro University

Mental Accounting, Production Scale, and Consumption of Self-Produced Food: Empirical Evidence from Rural China

Jiaqi Huang, Wageningen University; **Gerrit Antonides**, Wageningen University; **Christian H. Kuhlitz**, Swiss Federal Office for Agriculture; **Fengying Nie**, Agricultural Information Institute of Chinese Academy of Agricultural Sciences

The Effect of Food Prices and Own-produced Food on Food Security of Chinese Rural Households

Christian H. Kuhlitz, Swiss Federal Office for Agriculture; **Jiaqi Huang**, Wageningen University; **Gerrit Antonides**, Wageningen University; **Fengying Nie**, Agricultural Information Institute of Chinese Academy of Agricultural Sciences

Distance Metric or Random Coefficients Logit? A Comparison of Product-level Demand Models Using Chinese Instant Noodle Scanner Data

Yu Chen, University of Georgia; **Chen Zhen**, University of Georgia

An Empirical Analysis of Welfare Consequences of Rising Food Prices in Urban China: The Easi Approach

Vardges Hovhannisyan, University of Wyoming; **Aleksan Shanoyan**, Kansas State University



Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2097 Recreation and Wildlife *Park Tower 8216, Lobby Level*

Selected Presentation - Discussant Test Session

Papers in this session measure the demand for outdoor recreation and wildlife resources using several revealed and stated preference methodologies.

Moderator: David Lewis, Oregon State University

Public Preferences for Natural Capital Investments that Help Threatened Species: The Case of Oregon Coast Coho Salmon
David Lewis, Oregon State University; Steven J. Dundas, Oregon State University; David Kling, Oregon State University; Daniel K. Lew, NOAA Fisheries; Sally Hacker, Oregon State University

The Thomas Fire and the Effect of Wildfires on the Value of Recreation Services in Southern California
Cloe Garnache, Michigan State University; Frank Lupi, Michigan State University

Changes in Spatial and Temporal Substitution Patterns of Hunting Activities Caused by Chronic Wasting Disease (CWD): Evidence from Alberta, Canada

Lusi Xie, University of Alberta; Wiktor L. Adamowicz, University of Alberta; Patrick Lloyd-Smith, University of Saskatchewan

The Impact of HABs on Recreational Visits to Lake Erie

Wei Chen, The Ohio State University; David M. Wolf, The Ohio State University; Sathya Gopalakrishnan, The Ohio State University; Timothy C. Haab, The Ohio State University; Allen Klaiber, The Ohio State University

2098 Advances in Discrete Choice Experiments *Virginia A, Lobby Level*

Selected Presentation

Applications of discrete choice experiments to different topics show their versatility for market good valuation. This session explores methodological improvements to increase the reliability of discrete choice experiments as a valuation technique.

Moderator: Wen You, Virginia Tech

When Does Real Become Consequential in Non-Hypothetical Choice Experiments?

Daniel E. Chavez, Texas A&M University; **Marco A. Palma**, Texas A&M University; Rodolfo M. Nayga, University of Arkansas

The Role of Strategic Uncertainty in Area-wide Pest Management Decisions of Florida Citrus Growers

Ariel Singerman, University of Florida; Pilar Useche, University of Florida

Milk Produced Under Certified Labor Conditions: Are U.S. Consumers Willing to Pay for It and Does Prior Information Impact Their Behavior?

Danielle M. Kaminski, Michigan State University; Vincenzina Caputo, Michigan State University

Ordering Effects under Heterogeneous Decision Rules in Discrete Choice Experiments

Yin Ma, University of Connecticut

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2099 Retail Strategies in Food Marketing

Roosevelt Room 3, Exhibition Level

Selected Presentation

The papers in this session take different perspectives on the issue of retailer strategic behavior in the context of the food products and consumption, private label brands and consumer demand for local food.

Moderator: Gary W. Williams, Texas A&M University

Generalizing Variety Seeking Measurement from Brand Space to Product Attribute Space

Roozbeh Irani-Kermani, Pennsylvania State University; Edward C. Jaenicke, Pennsylvania State University

Retailer Marketing Strategy and Consumer Purchase Decision for Local Food – An Agent-Based Model

Houtian Ge, Cornell University; Miguel I. Gomez, Cornell University; Timothy J. Richards, Arizona State University

Retailers' Private Labels Strategy Under the Weather Effect

Shaoyan Sun, University of Alberta; Henry An, University of Alberta; Philippe Andre Marcoul, University of Alberta

Too Congested to Enjoy? Estimating How Crowdedness Affects Food Consumption in Restaurants

Chen Zhu, China Agricultural University; Xiaou Liu, Renmin University of China; Rodolfo M. Nayga, University of Arkansas

2100 Economics of Livestock Policy

Park Tower 8212, Lobby Level

Selected Presentation

The papers in this session analyze the integration of EU broiler meat markets using vine copulas; analyze the effects of a new water-pollution regulation on the environment and pork and poultry farms in nine Chinese provinces; simulate the effects of an outbreak of foot-and-mouth disease on U.S. livestock markets; and estimate the cost of inducing private industry to develop new animal pharmaceuticals.

Moderator: Stacy E. Sneeringer, USDA-Economic Research Service

How Much Does it Cost to Induce R&D in Animal Health?

Matthew S. Clancy, USDA-Economic Research Service; **Stacy E. Sneeringer**, USDA-Economic Research Service

Integration of the EU Broiler Meat Markets – Application of Regular Vine Copulas

Mari K. Carlson, University of Helsinki; Anthony N. Rezitis

Impact Evaluation of “Regulation on Water Pollution from Livestock and Poultry Production” - The Case of Livestock Sector in China

Chen Ji, Zhejiang University; Shuai Chen, Zhejiang University; Songqing Jin, Michigan State University

Saving Our Bacon without Hamstringing the Industry: Sensitivity of Economic Losses to Post-outbreak Management of Foot-and-Mouth Disease Vaccinated Animals in a Simulated U.S. Outbreak

Amy D. Hagerman, USDA-Animal and Plant Health Inspection Service; Ann Hillberg-Seitzinger, USDA-Animal and Plant Health Inspection Service; Lindsey Holmstrom, USDA-Animal and Plant Health Inspection Service; Timothy Boyer, USDA-Animal and Plant Health Inspection Service; Kelly Patyk, USDA-Animal and Plant Health Inspection Service; Columb Rigney, USDA-Animal and Plant Health Inspection Service; Melissa Schoenbaum, USDA-Animal and Plant Health Inspection Service; Stephanie A. Shwiff, USDA-Animal and Plant Health Inspection Service



Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2101 Factors that Affect the Development and Participation of Agricultural Insurance Programs

Maryland A, Lobby Level

Selected Presentation

Development of agricultural insurance programs and associated participation has been a concern since the 1930s. Better data collection allows for a more precise analysis of these programs. This session examines factors affecting government spending and participation in agricultural insurance programs. The factors examined include: premium subsidy reductions, premium rate changes, program structure, own-price effects, neighborhood effects, historical loss effects, cross-price or substitution effects, and asymmetric information.

Moderator: Norbert L.W. Wilson, Tufts University

Policy Implications of Joint versus Separate Estimation of Crop Insurance Demand

I-Chun Chen, *University of Wisconsin-Madison*; **Xiaodong Du**, *University of Wisconsin-Madison*; **Paul D. Mitchell**, *University of Wisconsin-Madison*

Risk Preferences and the Participation Pattern of Rainfall Index Insurance

Brittney K. Goodrich, *Auburn University*; **Jisang Yu**, *Kansas State University*

Crop Insurance under Asymmetric Information and Different Government Objectives

Charalampos Mavroutsikos, *University of Nebraska-Lincoln*; **Konstantinos Giannakas**, *University of Nebraska-Lincoln*; **Cory G. Walters**, *University of Nebraska-Lincoln*

Influence of Farm and Lease Type on Crop Insurance Returns

Sankalp Sharma, *Kent State University - Tuscarawas*; **Cory G. Walters**, *University of Nebraska-Lincoln*

2102 U.S. Food Assistance Programs and Food Choice and Health

Roosevelt Room 5, Exhibition Level

Selected Presentation

This session focuses on issues of food choice in U.S. household food assistance programs. It focuses on empirical results regarding the SNAP and WIC programs.

Moderator: Mark Denbaly, USDA-Economic Research Service

SNAP Benefit Allotments and Dietary Quality

Rebecca Cleary, *Colorado State University*; **Clare Cho**, *USDA-Economic Research Service*; **Becca B. R. Jablonski**, *Colorado State University*

Distributional Impacts of WIC on Dietary Quality of Children: Evidence from a Regression Discontinuity Design

Pourya Valizadeh, *University of Georgia*; **Travis A. Smith**, *University of Georgia*

Household Structure and SNAP's Effect on Food Spending

Mehreen Ismail, *Tufts University*; **Parke E. Wilde**, *Tufts University*; **Michele L. Ver Ploeg**, *USDA-Economic Research Service*

How Does SNAP Participation Affect Rates of Diabetes?

Matthew Mays, *University of Georgia*; **Travis A. Smith**, *University of Georgia*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2103 U.S. Immigration and Farm Labor Supply

Park Tower 8228, Lobby Level

Selected Presentation

Moderator: Zhengfei Guan, University of Florida

Immigration Reform and Farm Labor Markets

Timothy J. Richards, Arizona State University

The Diffusion of the H-2A Temporary Agricultural Workers Program: A Spatial-Econometric Approach

Skylar M. Simnitt, University of Florida

Evaluating the Effects of Legalization on Farmworker Wages in the Crop Sector

Chellie A. Hogan, Mississippi State University; **Lurleen M. Walters**, Mississippi State University; **Brian R. Williams**, Mississippi State University

Regulation and Farm Labor Market Structure

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

2104 Market Concentration and R&D Concentration

Virginia B, Lobby Level

Selected Presentation

This session is devoted to the discussion of Market Concentration and R&D Concentration.

Moderator: Peter Slade, University of Saskatchewan

Market Power with Capacity and Commitment: An Experimental Exploration

Peter Slade, University of Saskatchewan; **James F. Nolan**, University of Saskatchewan

Market Concentration, Market Shares, and Retail Food Prices: Evidence from the U.S. Women, Infants, and Children Program

Meilin Ma, University of California, Davis; **Tina L. Saitone**, University of California, Davis; **Richard J. Volpe III**, California Polytechnic State University, San Luis Obispo; **Richard J. Sexton**, University of California, Davis; **Michelle Saksena**, USDA-Economic Research Service

Bigger Farms and Bigger Food Firms-The Agricultural Origin of Industrial Concentration in the Food Sector

Xi He, University of Connecticut

R&D Concentration in Soybean and Cotton Markets

Benjamin C. Anderson, Colgate University; **Ian M. Sheldon**, The Ohio State University



2105 Methodological Frontiers

Virginia C, Lobby Level

Selected Presentation

Moderator: Hope Michelson, University of Illinois at Urbana-Champaign

Calling for Food Security: Bias in Cellular Phone-Based Measures of Food Security

Hope Michelson, University of Illinois at Urbana-Champaign; Kathy Baylis, University of Illinois at Urbana-Champaign; Erin C. Lentz, University of Texas at Austin; Marshaun Jesse Montgomery, University of Illinois at Urbana-Champaign; Patrese Anderson, University of Illinois at Urbana-Champaign

Correlated Non-Classical Measurement Errors, 'Second Best' Policy Inference and the Inverse Size-Productivity Relationship in Agriculture

Kibrom A. Abay, University of Copenhagen; Gashaw Abate, International Food Policy Research Institute; **Christopher B. Barrett**, Cornell University; Tanguy Bernard, International Food Policy Research Institute

Robustness and External Validity: What do we Learn from Repeated Study Designs Over Time?

Oladele Akogun, Modibbo Adama University of Technology; Adedoyin Adesina, Modibbo Adama University of Technology, Yola; **Andrew Dillon**, Michigan State University; Jed Friedman, World Bank; Sani Njobdi, Modibbo Adama University of Technology, Yola; Pieter Serneels, University of East Anglia

Impact of NREGS on Forest Cover

Shourish Chakravarty, University of Florida; Conner C. Mullally, University of Florida

2106 International Trade – Outcomes of Trade Openness

Washington Room 1, Exhibition Level

Selected Presentation

Papers explore links between openness to trade and economic conditions in U.S. counties, patterns of agricultural production and child stunting. A fourth paper examines the relationship between food price volatility and imports.

Moderator: Sébastien Mary, DePaul University

Does Agricultural (Food) Trade Openness Reduce Child Stunting?

Sébastien Mary, DePaul University

U.S. County-Level Impacts of Growing Agricultural Imports from China

Russell Hillberry, Purdue University; **Yichuan Cheng**, Purdue University

Effects of International Trade on World Agricultural Production: Evidence from a Panel of 126 Countries 1962–2014

Binlei Gong, Zhejiang University

Food Price Variability and Import Dependence: A Country Panel Analysis

Bowen Chen, Kansas State University; Nelson B. Villoria, Kansas State University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2107 Measuring Efficiency in Agriculture

Washington Room 3, Exhibition Level

Selected Presentation

Paper presentations in this session focus on assessing technical efficiency using different methods such as two-stage envelopment analysis, Bayesian non-crossing quantile regression, and stochastic frontier analysis.

Moderator: Huaiyu Wang, Beijing Institute of Technology

Non-Farm Income and Technical Efficiency in the Uplands of Yunnan, China: A Bayesian Non-Crossing Quantile Regression Approach

Austin F. Ramsey, Virginia Tech; **Huaiyu Wang**, Beijing Institute of Technology

Assessing Dairy Farming Eco-Efficiency in New Zealand: A Two-Stage Data Envelopment Analysis

Tarek Soliman, Manaaki Whenua, Landcare Research; Utkur Djanibekov, Landcare Research

Dynamic Inefficiency Under by Production Framework and Determinants Influencing Corporate Responsibility Specific Inefficiency: Evidence from the European Food and Beverage Industry

Tadesse Getacher Engida, Wageningen University; **Xudong Rao**, Wageningen University; Alfons Oude Lansink, Wageningen University

The Effect of PROCAMPO on Farms' Technical Efficiency: A Stochastic Frontier Analysis

Saul Basurto Hernandez, University of Birmingham; David Maddison, University of Birmingham; Anindya Banerjee, University of Birmingham

2108 Energy

Washington Room 5, Exhibition Level

Selected Presentation

This session discusses aspects of recent energy development in the United States. Three of the papers relate to natural gas and oil development and the final paper is on the solar energy sector.

Moderator: Gabriel Lade, Iowa State University

Costs of Inefficient Regulation: Evidence from the Bakken

Gabriel Lade, Iowa State University; Ivan Rudik, Cornell University

The Silence of Falling Trees: Hidden Forest Loss from Shale Gas Development

Xiao Dong, Ohio State University; Allen Klaiber, The Ohio State University; Sathya Gopalakrishnan, The Ohio State University; Douglas H. Wrenn, Pennsylvania State University

Provision of Natural Gas Infrastructure and Shifts in Fuel Patterns

Shang Xu, The Ohio State University; Allen Klaiber, The Ohio State University

Solar Bait: How States Attract Solar Investments from Large Corporations

Jed J. Cohen, Virginia Tech; Levan Elbakidze, West Virginia University; Randall Jackson, West Virginia University



Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2109 Government Policies and Rural Development

Washington Room 6, Exhibition Level

Selected Presentation

Papers in this session relate to government policies and programs. Topics include housing programs, the Value-Added Producer Grant Program, Supplemental Nutrition Assistance Program, and tax increment financing.

Moderator: Michael E. Ollinger, USDA-Economic Research Service

The Impact of Super Center Stores on the Availability of SNAP-Approved Stores

Michael E. Ollinger, USDA-Economic Research Service; **Shelly Ver Ploeg**, USDA-Economic Research Service; **Christopher W. Dicken**, USDA-Economic Research Service

A Two-way Fixed Effects Approach to Analyzing the Value-Added Producer Grant Program

Alexis Solano, USDA-Rural Business-Cooperative Service; **Kandace Kimber**, College of William & Mary; **Honie Turner**, USDA-Rural Business-Cooperative Service

Bringing HUD's Moving To Work Demonstration to Rural Small Housing Authorities: Prospects and Barriers

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

Tax Increment Financing and Spatial Spillovers

Anita Yadavalli, National League of Cities; **Michael Delgado**, Purdue University

2110 The Role of Trust in the Food and Agribusiness Value Chain

Wilson B, Mezzanine Level

Track Session – AEM Section

Despite the instrumental importance of trust in economic decision-making, little empirical work has been conducted that seeks to identify relational trust in agribusiness and management. This track session brings together research that utilize different experimental methods to determine the importance and effects of relational trust on agricultural producers.

Organizer: Michael A. Gunderson, Purdue University

Moderator: Michael A. Gunderson, Purdue University

Understanding Trust within Agricultural Cooperatives

Kishor P. Luitel, Angelo State University; **Sanja Zivkovic**, Texas Tech University

Labor Relations, Brand Value, and Trust in Agricultural Cooperatives

Andrew W. Stevens, Mississippi State University

What Characteristics Create a Trusted Agribusiness Advisor?

Trey Malone, Michigan State University

What Makes People Think Like A Farmer?

Brandon R. McFadden, University of Florida

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2111 Index Numbers Through the Looking Glass

Wilson C, Mezzanine Level

Track Session – AUS Section

Chris O'Donnell has developed arguments and evidence supporting a claim that the so-called “superlative” index numbers, as widely used by economists to measure quantities, prices, and other magnitudes are not consistent with measurement theory. This deficiency has implications for almost all work that any applied economist does with any of the available data. In this session, Professor O'Donnell will present these ideas as they relate to measurement of agricultural inputs, outputs, and productivity. Dr. Marshall Reinsdorf will respond to Chris O'Donnell's presentation, and then the floor will be opened to general discussion.

Organizer: Julian M. Alston, University of California, Davis

Moderator: Julian M. Alston, University of California, Davis

Was the Red Queen Right?

Chris O'Donnell, University of Queensland

Has the Mad Hatter Lost his Marbles?

Marshall Reinsdorf, International Monetary Fund

2112 Agricultural Economists Engaging our Communities

Hoover, Mezzanine Level

Track Session – CWAE and CRENET Sections

How agricultural economists communicate with key stakeholders through extension and outreach is evolving as key issues (food-related public health, food systems) and delivery methods (Webinars, social media) change. This session will highlight the opportunities, roles and challenges of Extension, Outreach and local/state government agency work with graduate students and early career professionals. Since research and teaching seem to be the main focus and areas of training, it is important for early career professionals to also hear examples of how to effectively develop a fulfilling role that integrates Extension and outreach. The panelists bring diverse experiences and examples of ways to successfully incorporate Extension and outreach with applied research and roles, focused on industry and government partnerships.

Organizers: Melissa G. S. McKendree, Michigan State University; Dawn D. Thilmany McFadden, Colorado State University

Discussant: Melissa G. S. McKendree, Michigan State University

The Good, the Bad and the Ugly of Three Way Appointments

Dawn D. Thilmany McFadden, Colorado State University

How to Succeed at Research and Extension at an Industry-Driven and Off-Campus Center

R. Karina Gallardo, Washington State University

Organizing Centers to Effectively Connect Applied Researchers, Extension and Community Stakeholders

Alison Davis, University of Kentucky

Engaging with the Laboratories of Democracy: The Role of Extension Economists

Eric A. Scorsone, Michigan State University



2113 From Global to Local: Linking Global Drivers to Local Sustainability Stresses

McKinley, Mezzanine Level

Track Session – ENV and International Sections

Sustainability is a concept best applied at the local level. Whether it is water scarcity, terrestrial carbon, biodiversity or a host of other environmental sensitivities, there is often tremendous variation in sustainability challenges across localities, so it is of little use to evaluate these stresses – and proposed solutions – at a national level. However, the drivers of local socio-economic and environmental outcomes are increasingly global in nature and therefore require an international perspective – hence the need for frameworks linking the two. This organized session will feature three different approaches to the global-to-local analysis challenge. The first derives from the integrated assessment literature, where the GCAM model is at the forefront of efforts to link climate policy with long run climate impacts, paying special attention to land and water resources. The second paper continues on the theme of land and water, but this time in the context of the UN Sustainable Development Goals, which are evaluated using the global gridded framework, SIMPLE-G. The third paper explores the gridded impacts of climate change in the context of international trade, using a newly developed empirical trade model.

Organizer: Thomas W. Hertel, Purdue University

Discussant: Jeff J. Reimer, Oregon State University

Energy-Water-Land Interactions at Global Scale

Katherine Calvin, *University of Maryland*

Competition for Land and Water Under the UN Sustainable Development Goals

Thomas W. Hertel, *Purdue University*; **Uris Lantz C. Baldos**, *Purdue University*; **Jing Liu**, *Purdue University*

The Crucial Role of International Trade in Adaptation to Climate Change

David Laborde, *International Food Policy Research Institute*; **Christophe Gouel**, *Institut National de la Recherche Agronomique*

2114 Farm Financial Performance and Investment

Harding, Mezzanine Level

Track Session – EXT Section

U.S. net farm income has declined substantially since the recent peak in 2013. Presentations in this track session will highlight trends and changes in farm financial performance and investment over the last 10 to 15 years. Joleen Hadrich will evaluate cash flow volatility and agricultural investment decisions. Michael Langemeier will compare financial position and performance benchmarks for five and ten-year periods. Kevin Patrick will provide insights on U.S. farm financial performance. Mykel Tayler will examine trends in net farm income, cash rent, and land values.

Organizer: Michael R. Langemeier, Purdue University

Moderator: Michael R. Langemeier, Purdue University

Cash Flow Volatility and Agricultural Investment Decisions

Joleen C. Hadrich, *University of Minnesota*

Benchmark Comparisons for the 2012-2016 and 2007-2016 Periods

Michael R. Langemeier, *Purdue University*

Insights on U.S. Farm Financial Performance

Kevin T. Patrick, *USDA-Economic Research Service*

The Relationship Between Net Farm Income, Cash Rent, and Land Values

Mykel R. Taylor, *Kansas State University*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2115 Economics of Dietary Choices – Measurement Issues

Roosevelt Room 4, Exhibition Level

Track Session – FAMPS and FSN Sections

Dietary choice is often a key outcome variable in research in economics, but it can be notably difficult to measure. Reliable measures of dietary choice are necessary to assess and evaluate the effects of various policies. This session consists of eight papers that employ alternative strategies to measure dietary intake, varying from survey methods to purchase data and incentivized experiments. Each paper will present a specific study using one or more alternative methods.

Organizer: Michele Belot, European University Institute

Moderator: Trenton G. Smith, University of Otago (New Zealand)

Sugary Drinks Know No Income Boundaries

Sean Morris, University of Vermont; **Jane M. Kolodinsky**, University of Vermont

Solving the Puzzle Between Food Context and Type-2-Diabetes

Christiane Schroeter, California Polytechnic State University, San Luis Obispo; **Xiaowei Cai**, California Polytechnic State University, San Luis Obispo; **Richard J. Volpe III**, California Polytechnic State University, San Luis Obispo

Using a 16-Item Food Intake Questionnaire to Evaluate Dietary Quality in Major U.S. Cities

Carola Grebitus, Arizona State University; **Larissa S. Drescher**, Technical University of Munich

Using the Nielsen Homescan Consumer Panel to Address Issues with Fiber Consumption or Other Nutrients

Mark C. Senia, Texas A&M University; **Senarath Dharmasena**, Texas A&M University; **Oral Capps Jr.**, Texas A&M University

Estimating the Willingness to Pay for the Health Attributes of Milk Products in Quebec, Canada

René Roy, McGill University; **Paul J. Thomassin**, McGill University; **Jun Xiao**, McGill University

A Computer-Based Incentivized Food Basket Choice Tool - Presentation and Evaluation

Michele Belot, European University Institute; **Jonathan James**, University of Bath; **Jonathan Spiteri**, University of Malta

Measuring Dietary Intake Using Photo Diaries: The Consumer's Perspective

Trenton G. Smith, University of Otago; **Daniel Hamill**, New Zealand Ministry for Primary Industries; **Bernard Venn**, University of Otago

The Local Food Environment, Grocery Purchases, and Dietary Quality: Evidences from FoodAPS Data

Richard J. Volpe III, California Polytechnic State University, San Luis Obispo; **Eliana Zeballos**, USDA-Economic Research Service; **Patrick W. McLaughlin**, USDA-Economic Research Service; **Clare Cho**, USDA-Economic Research Service

2116 Analysis of Agricultural Policies in the Caribbean – Evidence, Trends, and Perspectives

Maryland C, Lobby Level

Track Session – COSBAE and LAS Sections

The session will present the latest available evidence on the effectiveness of agricultural policies in the Caribbean. The session will include: 1) a regional study on the magnitude and composition of agricultural policies in nine Caribbean countries (Haiti, Dominican Republic, Jamaica, Belize, Suriname, Guyana, Barbados, Trinidad and Tobago, and The Bahamas); 2) a regional study on the effectiveness of different categories of agricultural support; 3) an impact evaluation of an input subsidy program in Haiti using a randomized control trial; 4) an impact evaluation conducted on a technology transfer program in the Dominican Republic using a randomized control trial. The combination of these studies allows for a comprehensive analysis on the effectiveness of general agricultural policies as well as specific programs in the region.

Organizers: Carmine Paolo De Salvo, Inter-American Development Bank; Sebastien Gachot, Inter-American Development Bank; Lina Salazar, Division of Environment, Rural Development and Disaster Risk Management

Moderator: Pedro Martel, Inter-American Development Bank

Analysis of Agricultural Policies in the Caribbean

Timothy E. Josling, Stanford University; **Olga Shik**, Food and Agriculture Organization; **Christian Derlagen**, Food and Agriculture Organization; **Rachel Boyce**, Inter-American Development Bank; **Carmine Paolo De Salvo**, Inter-American Development Bank; **William E. Foster**, Catholic University of Chile; **Jesus De Los Santos**, Fundacion RedDom; **Gonzalo P. Muñoz Sr.**, IADB; **Cleeford Pavilus**, University of Arkansas



Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

Public Expenditures and the Performance of Latin American and Caribbean Agriculture

Carmine Paolo De Salvo, *Inter-American Development Bank*; **Gustavo Anriquez**, *Catholic University of Chile*; **William E. Foster**, *Catholic University of Chile*; **Jorge Ortega**, *Catholic University of Chile*; **Cesar A. Falconi**, *Inter American Development Bank*

Measuring Spillovers in Technology Adoption Programs: A Two-stage Randomized Control Trial in the Dominican Republic

Lina Salazar, *Division of Environment, Rural Development and Disaster Risk Management*; **Julian Aramburu**, *Yale University*; **Lucas Figal**, *Inter-American Development Bank*; **Alessandro Maffioli**, *Inter-American Development Bank*

Evaluating the Impact of the Technology Transfer for Smallholders Program (PTTA) in Haiti

Sebastien Gachot, *Inter-American Development Bank*; **Julian Aramburu**, *Yale University*; **Lucas Figal**, *Inter-American Development Bank*; **Alessandro Maffioli**, *Inter-American Development Bank*; **Lina Salazar**, *Division of Environment, Rural Development and Disaster Risk Management*

2117 Recent Developments in Using Choice Experiments to Elicit Producer and Consumer Preferences in Africa

Roosevelt Room 2, Exhibition Level

Track Session – Africa and Senior Sections

With rapid agri-food system transformation underway in sub-Saharan Africa (SSA), there is a growing need for policymakers and other stakeholders to update their understanding of consumers' and producers' preferences for new agri-food system products, inputs, technologies, and even policies. Recent advancements in best-worst scaling (BW) and discrete choice experiments (CE) methods offer new tools to rapidly elicit these preferences in order to anticipate future trends, evaluate emerging market conditions, and guide public policy. This session brings together three illustrative examples of novel applications of BW and CE in SSA. The first paper uses BW to elicit Zambian farmers' agricultural sector policy preferences; the second paper employs CE to study the effects of food fiscal policies and information on Nigerian consumers' preferences for food labeled "aflatoxins free"; and the third study uses CE to capture new food consumption trends in Senegal.

Organizers: Vincenzina Caputo, Michigan State University; Nicole M. Mason, Michigan State University

Discussant: David L. Ortega, Michigan State University

Do Smallholder Farmers Really Prefer Input Subsidies Over Other Types of Government Programs and Investments in the Agricultural Sector? Experimental Evidence from Zambia

Nicole M. Mason, *Michigan State University*; **Danielle Resnick**, *International Food Policy Research Institute*; **Vincenzina Caputo**, *Michigan State University*; **Auckland Kuteya**, *Indaba Agricultural Policy Research Institute*

Evaluating the Effects of Policies and Information on Consumer Valuation of Food Safety Labelling: Evidence from Nigeria

Vincenzina Caputo, *Michigan State University*; **Saweda Liverpool-Tasie**, *Michigan State University*

Discrete Choice Experiment Revelation of Preferences for Imported Rice Versus Traditional Domestic Millet Dishes Sold by Retailers/Street Vendors in Dakar Senegal

Sarah V. Chase-Walsh, *Michigan State University*; **Vincenzina Caputo**, *Michigan State University*; **Thomas A. Reardon**, *Michigan State University*

2119 **Agricultural Cooperatives**
Park Tower 8222, Lobby Level

Selected Presentation

This session addresses managerial issues facing agricultural cooperatives. Governance, capital structure, member relations, and the role in the agri-food supply chain are discussed.

Moderator: Brian D. Adam, Oklahoma State University

Cooperatives Capital Structure Adjustment During the Agricultural Downturn

Yuxi Cheng, *The Ohio State University*; **Ani Katchova**, *The Ohio State University*

Supply and Demand Integrated Management Model for Effective Farmer-Cooperative Coordination: Case of the Organic Milk Industry in the U.S.

Ye Su, *University of Nebraska-Kearney*

The Bank Financing of Cooperatives when Debt can be used for Investment or Members' Cash Payment

Julien Cadot, *ISG Paris*; **Arnaud Féral**, *ISG Paris*

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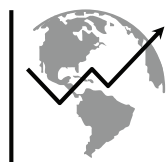
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