

AAEA 2019

ANNUAL MEETING



ATLANTA

JULY 21-23, 2019



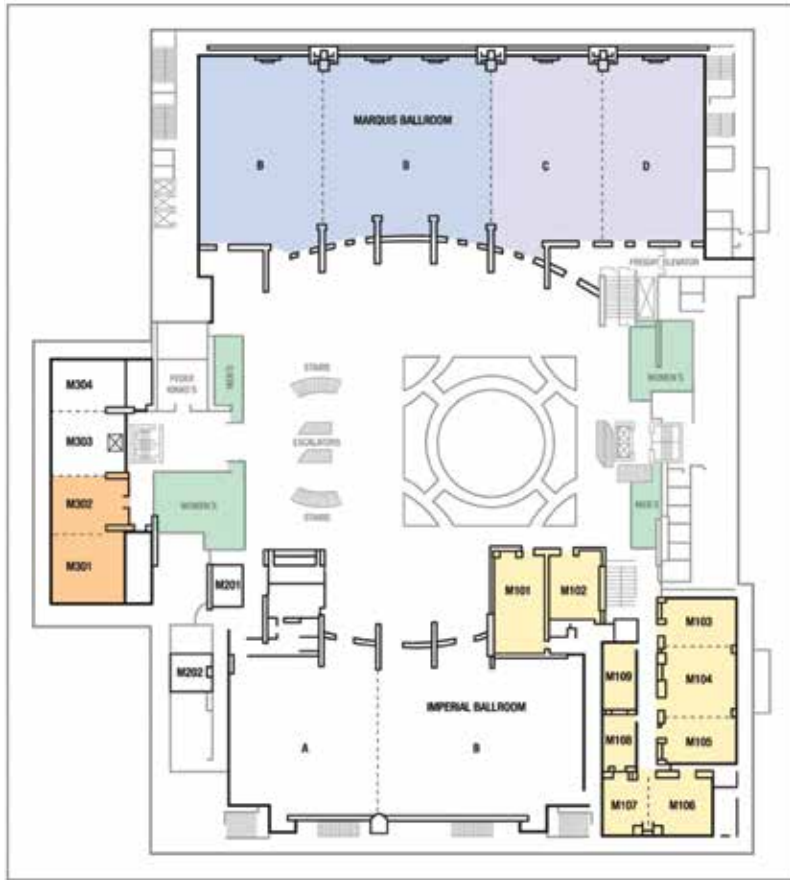
2019 AAEA Annual Meeting Program

#AAEAATL19 • www.aaea.org/2019-annual-meeting



Marriott Marquis

MARQUIS LEVEL



LEGEND:

- Registration Desk (Marquis Level)
- Plenary Hall (Marquis Ballroom C&D, Marquis Level)
- Concurrent Session Rooms (as follows)
 1. Lobby Level: L401, L402, L403, L404, L405, L406
 2. Marquis Level: M101, M102, M103, M104, M105, M106, M107, M108, M109, M303, M304
 3. Floors 38-40: Suite 3803, Suite 3819, Suite 3824, Suite 3839 (floor 38); Suite 3903, Suite 3919, Suite 3924, Suite 3939, Ambassador Suite 3934 (floor 39); Suite 4003, Suite 4019, Suite 4024, Suite 4039 (floor 40)
- Connection Center (Marquis Foyer, Marquis Level)
- Employment Center (Marquis Level)
- Poster Hall (Marquis Salon A & B, Marquis Level)
- Exhibit Hall (Marquis Foyer, Marquis Level)
- Reunions and Receptions (Marquis Rooms M101-M109, Marquis Level)
- Restrooms (every level)

LOBBY LEVEL

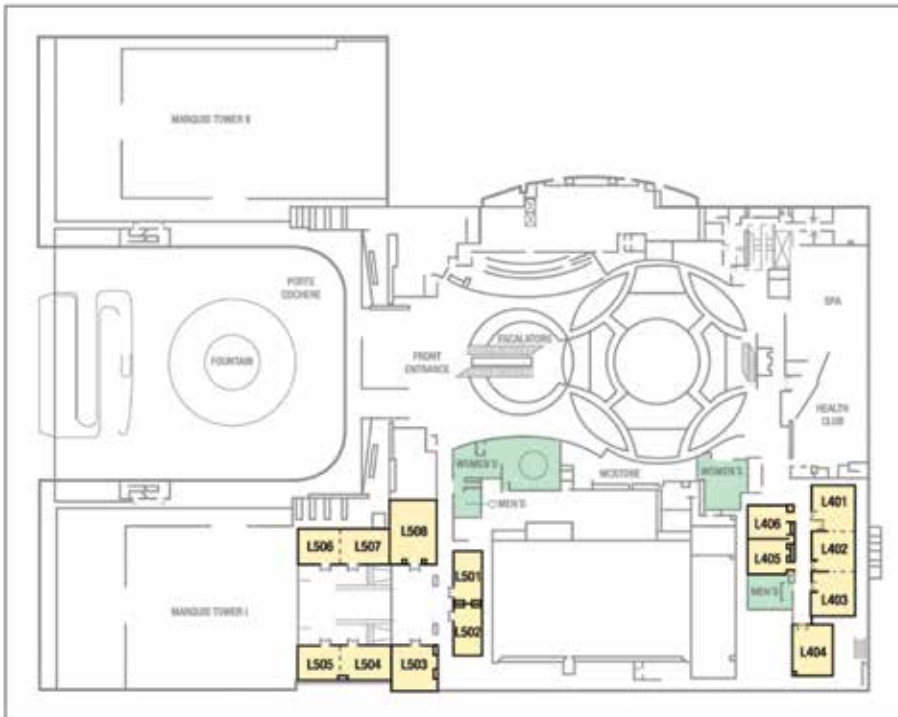


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DOWNLOAD THE 2019 AAEA ANNUAL MEETING APP!

Check out this years' #AAEAATL19 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 the interactive maps
- Find sessions by subject code, author, speaker, AAEA Section Track, etc.
- Get important updates on the app through Push Notifications
- See who is 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: David Zilberman, University of California, Berkeley

President-Elect: Keith Coble, Mississippi State University

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Past Presidents

William J. Spillman 1910-12

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Oscar C. Stine 1931

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Ernest C. Young 1938

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Foster F. Elliot 1939

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Murray R. Benedict 1941

George S. Wehrwein 1942

Sherman E. Johnson 1943

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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

Willard W. Cochrane 1960

William H. Nicholls 1961

Bushrod W. Allin 1962

George E. Brandow 1963

Lowell S. Hardin 1964

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Harold F. Breimyer 1969

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Jimmye S. Hillman 1971

Vernon W. Ruttan 1972

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James Nielson 1975

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Kenneth R. Farrell 1977

R.J. Hildreth 1978

Bernard F. Stanton 1979

Richard A. King 1980

Luther G. Tweeten 1981

G. Edward Schuh 1982

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

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Laurian J. Unnevehr 2005

Per Pinstrup-Andersen 2006

Steven T. Buccola 2007

Otto C. Doering, III 2008

Richard E. Just 2009

Ron Mittelhammer 2010

Thomas W. Hertel 2011

Robert P. King 2012

Richard J. Sexton 2013

Julie A. Caswell 2014

Barry K. Goodwin 2015

Jill J. McCluskey 2016

Jayson Lusk 2017

Scott Swinton 2018

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

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

CHOICES MAGAZINE

Editors:

Alison Davis, University of Kentucky

Kynda Curtis, Utah State University

APPLIED ECONOMICS TEACHING RESOURCES (AETR)

Editor:

Jason Bergtold, Kansas 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 Atlanta. The committee, with the help of volunteer topic leaders and over four hundred reviewers fielded a record-breaking 1400+ abstracts to create the topically diverse, high quality sessions that will be presented over the course of the 2019 Annual Meeting.

Chair: Levan Elbakidze, West Virginia University

Members:

Allen Featherstone (Board Liaison), Kansas State University
Christiane Schroeter, California Polytechnic State University, San Luis Obispo
Cloé Garnache, Michigan State University
Greg Graff, Colorado State University
Levan Elbakidze (Chair), West Virginia University
Nathan Thompson, Purdue University
Tina Saitone, University of California, Davis

Topic Leaders:

Aleksan Shanoyan, Kansas State University	Kelly Cobourn, Virginia Tech
Amy Hagerman, Oklahoma State University	Kimberly Rollins, University of Nevada, Reno
Becca Jablonski, Colorado State University	Liang Lu, University of Idaho
Brady Brewer, University of Georgia	Lyubov Kurkalova, North Carolina A&T University
Brandon McFadden, University of Delaware	Mallory Vestal, West Texas A&M University
Collin Weigel, John Hopkins University	Man-Keun Kim, Utah State University
Cory Walters, University of Nebraska-Lincoln	Marco Palma, Texas A&M University
Daniel Mooney, Colorado State University	Maria Bampasidou, Louisiana State University
Desmond Ng, Texas A&M University	Norbert Wilson, Tufts University
Doug Wrenn, The Pennsylvania State University	Ruiqing Miao, Auburn University
Ellen Bruno, University of California, Berkeley	Seong Yun, Mississippi State University
Elton Mykerezzi, University of Minnesota	Simanti Banerjee, University of Nebraska-Lincoln
Genti Kostandini, University of Georgia	Sreedhar Upendram, University of Tennessee
Greg Graff, Colorado State University	Steven Dundas, Oregon State University
Hongli Feng, Michigan State University	Sven Anders, University of Alberta
Hope Michelson, University of Illinois at Urbana-Champaign	Todd Kuethe, University of Illinois at Urbana-Champaign
Jennifer Alix-Garcia, Oregon State University	Xiaofei Li, Mississippi State University
Joseph Janzen, Kansas State University	Xiaoli L. Etienne, West Virginia University
Jude Bayham, Colorado State University	Xiaoxue Du, University of Idaho
Kari Heerman, USDA-Economic Research Service	Yuqing Zheng, University of Kentucky
Kathryn Boys, North Carolina State University	Zachary Brown, North Carolina State University

Thank you to all the 2019 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

Marquis Level, Atlanta Marriott Marquis

Sunday, July 21, 7:30 am-7:30 pm

Monday, July 22, 7:30 am-5:00 pm

Tuesday, July 23, 7:30 am-4:00 pm

WI-FI ACCESS

AAEA is providing free Wi-Fi access in the Marriott Marquis meeting space for all 2019 Annual Meeting attendees.

Wi-Fi Network: AAEA

Network Password: aaea2019

(password is case sensitive)

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.

PRIVACY ROOM

New this year, AAEA has worked to provide a secure Nursing Mother's Room for your privacy and convenience. Located in room M201, please see the Registration Desk for access information.

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.

THANK YOU



Farm Income Enhancement Program

The Ohio State University

- Welcome Reception

The Farm Income Enhancement Program in the Department of Agricultural, Environmental, and Development Economics at The Ohio State University develops and delivers research, education, and outreach to enhance farm income and promote long-term stability for farm businesses.

And a special thank you to our stylus pen sponsor!



THE UNIVERSITY OF CHICAGO PRESS JOURNALS

University of Chicago Press Journals

The University of Chicago Press publishes more than 80 scholarly journals. These titles include the Journal of the Association of Environmental and Resource Economists, Marine Resource Economics and the Journal of Political Economy.

Undergraduate Recruitment Fair

Monday, 8:00 am – 4:00 pm

Marriott Foyer near L401, Marquis Level

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

PARTICIPATING ORGANIZATIONS INCLUDE:

- South Dakota State University
- Texas A&M University
- University of Arkansas
- University of Georgia
- University of Kentucky

Exhibitors

AGECON SEARCH

AgEcon Search is an online repository of over 130,000 full-text documents including conference presentations, working papers, journal articles, reports and theses and dissertations from around the world. Subject coverage is agricultural and applied economics broadly defined including agribusiness, food security, energy and natural resources economics, and international development. AgEcon Search is the permanent host for 12,800 AAEA conference papers from 1917-2018. AGECONSEARCH.UMN.EDU



CAMBRIDGE UNIVERSITY PRESS

Cambridge University Press is a not-for-profit publisher that dates from 1534. We are part of the University of Cambridge and our mission is to unlock people's potential with the best learning and research solutions. Visit our stand to discuss publishing with us, browse our publication, and get a 20% discount. WWW.CAMBRIDGE.ORG/US/ACADEMIC



INTER-AMERICAN DEVELOPMENT BANK

Development Bank for Latin America and the Caribbean. WWW.IADB.ORG



MICHIGAN STATE UNIVERSITY, DEPARTMENT OF AGRICULTURE, FOOD, AND RESOURCE ECONOMICS (AFRE)

Information about graduate programs and international development research, outreach, and capacity building. WWW.AFRE.MSU.EDU/



PALGRAVE MACMILLAN

Palgrave Macmillan is a global publisher of professional and scholarly content covering the social sciences, humanities, business, finance, and economics. WWW.PALGRAVE.COM/US



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 engagement. AG.PURDUE.EDU/AGECON/



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.



USDA - ECONOMIC RESEARCH SERVICE (ERS)

The USDA's Economic Research Service anticipates trends and emerging issues in the food, agriculture, rural, and environmental sectors, and conducts economic research that informs public program and policy decisions in those arenas.

Visit ERS at WWW.ERS.USDA.GOV



Plenary Sessions

AAEA KEYNOTE ADDRESS

Sunday, July 21, 6:00 pm – 7:00 pm

Marquis Ballroom C&D, Marquis Level



Pamela Ronald, *University of California, Davis*

“Serving up Science: Plant Genetics and the Future of Food”

Pamela Ronald, is a Distinguished Professor, in the Dept. of Plant Pathology and the Genome Center, and Founding Director of the Institute for Food and Agricultural Literacy at the University of California, Davis. She also serves as a Key Scientist at the Joint Bioenergy Institute in Emeryville, CA. Ronald studies rice genes that control resistance to disease and tolerance to environmental stress. Ronald and colleagues received the 2008 USDA National Research Initiative Discovery Award and the 2012 Tech Award for innovative use of technology to benefit humanity. In 2011, Ronald was selected as one of the 100 most creative people in business by Fast Company Magazine. She is the recipient of the 2012 Louis Malassis International Scientific Prize for Agriculture and Food, a Guggenheim Fellowship, the National Association of Science Writers Science in Society Journalism Award, and the Fulbright-Tocqueville Distinguished Chair Award. In 2014 she was named one of the world’s most influential scientific minds by Thomson Reuters, in 2015 was selected by Scientific American as one of the world’s 100 most influential people in biotechnology and in 2016 was named one of the 50 innovators and visionaries who will lead us toward a more sustainable future by Grist magazine. She is co-author, with her husband, Raoul Adamchak, an organic farmer, of *Tomorrow’s Table: Organic Farming, Genetics, and the Future of Food*. Bill Gates calls the book “a fantastic piece of work” and “important for anyone that wants to learn about the science of seeds and challenges faced by farmers. In 2012, *Tomorrow’s Table* was selected by The New Earth Archive as one of the 25 most powerful and influential books with the power to inspire college readers to change the world. Her 2015 TED talk has been viewed by more than 1.7 million people and translated into 26 languages.

AAEA PRESIDENTIAL ADDRESS

Monday, July 22, 8:30 am – 9:30 am

Marquis Ballroom C&D, Marquis Level



Keith Coble, *Mississippi State University*

“Relevant and/or Elegant Economics”

A W.L. Giles Distinguished Professor of Agricultural Economics, Keith Coble holds teaching, research, and extension appointments. His work focuses on risk management, agricultural and food policy, renewable energy, climate, insurance, and experimental economics. Coble has analyzed how farmers can use risk management tools such as futures contracts, crop insurance, and federal commodity programs. Work in renewable energy focuses on the federal policy for renewable energy and economic feasibility of renewable energy. He has testified before Congressional Committees and has co-authored over fifty reports for government agencies. His insurance analysis and studies have modified several billion dollars of U.S. crop insurance premiums per year. Coble currently serves on the Council on Food, Agricultural and Resource Economics’ Blue Ribbon Panel of Experts who provide guidance about matters of significance to policy makers.

Plenary Sessions

AAEA FELLOWS ADDRESS

Tuesday, July 23, 8:30 am – 9:30 am

Marquis Ballroom C&D, Marquis Level



Alan Olmstead, *University of California, Davis*

“Historical and Institutional Perspectives on American Agricultural Development”

Alan L. Olmstead is Distinguished Research Professor of Economics at the University of California at Davis. His 2015 book with Paul W. Rhode, *Arresting Contagion: Science, Policy, and Conflicts over Animal Disease Control* analyzes how U.S. animal disease policies redefined American federalism, vastly increased livestock productivity, and save hundreds of thousands of lives in the three decades prior to WWII. Policies created in the United States would subsequently be copied around the world to combat animal and human diseases.

In *Creating Abundance: Biological Innovation and American Agricultural Development*, Olmstead and Rhode examine three centuries of technological advance in American agriculture. Other publications have explored the adaptability of agriculture to climatic challenges, and slavery and southern development. Olmstead is an Editor-in-Chief of the 5,000-page *Historical Statistics of the United States: Earliest Times to the Present, Millennial Edition*.

Professor Olmstead recently served on the Board of Directors of the National Bureau of Economic Research. He has organized and managed academic exchanges and advising programs in several countries. From 1989 to 1991, he served as an advisor on economic and political reform for members of the Constitutional Commissions of Russia and the USSR.

Olmstead is an inaugural Fellow of the Cliometrics Society and a Fellow of the Agricultural and Applied Economics Association. He is a past president of the Economic History Association and of the Agricultural History Society. His research has won many distinctions, including the Allan Sharlin Memorial Award (SSHS), the Quality of Research Discovery Prize (AAEA), Alice Hanson Jones Prize (EHA), the Arthur H. Cole Prize (EHA), and the Thomas Jefferson Prize (SFH). In 1999, the Australian Agricultural and Resource Economics Society honored Professor Olmstead as its inaugural Alan Lloyd Fellow.

AAEA GALBRAITH FORUM

Tuesday, July 23, 6:30 pm – 7:30 pm

Marquis Ballroom C&D, Marquis Level



David Card, *University of California, Berkeley*

“Model-based and Design-based Approaches in Empirical Microeconomics”

David Card is the Class of 1950 Professor of Economics at the University of California, Berkeley and Director of the Labor Studies Program at the National Bureau of Economic Research. His research interests include immigration, wages, education and gender-and race-related differences in the labor market. He co-authored the 1995 book *Myth and Measurement: The New Economics of the Minimum Wage*, and co-edited *The Handbook of Labor Economics* (1999), *Seeking a Premier Economy: The Economic Effects of British Economic Reforms* (2004); and *Small Differences that Matter: Labor Markets and Income Maintenance in Canada and the United States* (1992). He has also published over 125 journal articles and book chapters.

Card was co-editor of *Econometrica* from 1991 to 1995 and of the *American Economic Review* from 2002 to 2005. He taught at Princeton University from 1983 to 1996, and has held visiting appointments at Columbia, Harvard, and the Center for Advanced Study in the Behavioral Sciences. In 1995 he received the American Economic Association’s John Bates Clark Prize, which is awarded every other year to the economist under 40 whose work is judged to have made the most significant contribution to the field. He was a co-recipient of the IZA Labor Economics Award in 2006; and the BBVA Frontiers of Knowledge Prize in 2015, and was awarded the Frisch Medal by the Econometric Society in 2007.

Speaker Series Events

CWAE AND COSBAE SPEAKER SERIES & LUNCHEON

Monday, July 22, 11:30 am – 1:00 pm

L402 & L403, Lobby Level

* This is a ticketed event



Dr. Juliet Elu, Morehouse College

Juliet U. Elu will discuss her experiences with promoting diversity and inclusivity in the Economics profession and how she sees the working landscape changing for both domestic and international researchers who are either women, underrepresented minorities or both.

Juliet U. Elu, PhD is the Charles E. Merrill Professor, Division Chair (Dean Equivalent) and Department Chair (Economics) for the Division of Business and Economics at Morehouse College in Atlanta, GA. Her previous appointments include pioneer Vice Chancellor at Gregory University, Uturu, Nigeria; Director of Management at Spelman College; Professor of Economics at Clarke University in Dubuque Iowa. An applied and policy theorist, her research has been published in a wide variety of journals such as American Economic Review, Journal of African Development, Journal of Peace Economics, Journal of Economic Studies, Journal of Third World Studies, Review of Black Political Economy, and African Development Review to name a few. She serves as an editor for Advances in African Economic, Social and Political Development, and a reviewer for Economic and Social Research Council, Journal of Developing Areas and National Science Foundation to name a few. Dr. Elu earned her BSc in Economics/Political Science and MBA/MPA from Utah State University, Logan, Utah, and completed her economics doctorate at the University of Utah, Salt Lake City, Utah. She served as the past President of National Economics Association, African Finance and Economics Associations, and a Board member on several Professional Organizations. She serves as consultant on Block Chain technology and regional integration for multilateral organizations in Africa. She is also the recipient of the Vulcan Teaching Excellence Award in recognition of her teaching, Image Service Community Award by Alliance of Nigerian Organizations in Georgia, and best outstanding research paper in 2017 by the Journal of Economic Studies.

EXTENSION SECTION LECTURE AND LUNCHEON

Monday, July 22, 11:30 am – 1:00 pm

Marquis Ballroom C&D, Marquis Level

* This is a ticketed event




Bob Young, former Chief Economist for the American Farm Bureau Federation

“Extension and Policy - Education in the Real World”

One of the paramount roles for extension is dissemination of information to those who need it. This is never more evident than in the role extension can, does, and should play in educating the public regarding government policies. Whether a new farm bill or state set-back requirements, new migrant labor law provisions or food safety procedures, extension has a key role in transmitting information to the public.

Meeting Timeline


SATURDAY, JULY 20

8:00 am – 3:00 pm 


Pre-conference Workshop: Planning and Creating a Winning Grant Proposal – Do's and Don'ts of Integrated Approach
M304, Marquis Level

8:00 am – 3:30 pm 

Pre-conference Workshop: Best Practices for Addressing the Replicability Crisis in Agricultural and Applied Economics
M301, Marquis Level

8:00 am – 5:00 pm 

ISESSAH (International Society of Economics and Social Sciences for Animal Health)
M104 & M105, Marquis Level

2:00 pm – 7:00 pm 

Pre-conference Workshop: Local Brewing Industry Tour
*Offsite, meet in Marriott Lobby

2:30 pm – 4:00 pm

Government Relations Committee Meeting
M103, Marquis Level

3:00 pm – 5:00 pm

Agribusiness: An International Journal Business Meeting
TBD

SUNDAY, JULY 21

Registration Desk Hours: 7:30 am - 7:30 pm, Marquis Foyer, Marquis Level

Employment Center Hours: 9:30 am - 5:00 pm, M106, Marquis Level

Professional Headshots Hours: 1:00 pm - 6:00 pm, Marquis Foyer, Marquis Level

7:30 am – 9:00 am

Section Leader Meeting
M301, Marquis Level

8:00 am – 1:30 pm

AJAE Editor's Meeting
M108, Marquis Level

8:00 am – 3:00 pm

AEM/GSS Case Study Competition
L401 & L402, Lobby Level

8:00 am – 3:00 pm

GSS/Extension Competition
L405 & L406, Lobby Level

9:00 am – 10:00 am

FSN Section Business Meeting
M102, Marquis Level

9:00 am – 10:00 am

Mentorship Committee Meeting
M105, Marquis Level

9:00 am – 10:30 am

C-FARE Board Meeting
M107, Marquis Level

Meeting Timeline

9:30 am – 10:30 am

ESIRC Committee Meeting
M303, Marquis Level

9:30 am – 11:30 am

CWAE Section Business Meeting
M302, Marquis Level

10:00 am – 11:00 am

Econometrics Section Business Meeting
M105, Marquis Level

10:00 am – 12:00 pm

Africa Section Business Meeting
M103, Marquis Level

10:00 am – 12:00 pm

Specialty Crop Economics Section Business Meeting
M304, Marquis Level

10:30 am – 11:30 am

Australasia Section and AARES-NAB Business Meeting
M102, Marquis Level

10:30 am – 11:30 am

IBES Section Business Meeting
M107, Marquis Level

11:00 am – 12:00 pm

BEER Section Business Meeting
M105, Marquis Level

11:00 am – 12:00 pm

Employment Services Committee Meeting
M301 and M302, Marquis Level

11:30 am – 1:00 pm

AAEA Trust Committee Meeting
M303, Marquis Level

12:00 pm – 1:30 pm

AFM Section Business Meeting
M102, Marquis Level

12:00 pm – 1:30 pm

COSBAE Section Business Meeting
M302, Marquis Level

12:00 pm – 2:00 pm

SS-AAEA Section EOHDS Spreadsheet Competition
M107, Marquis Level

12:30 pm – 1:30 pm

AEPP Editorial Board Meeting
M105, Marquis Level

Meeting Timeline

12:30 pm – 1:30 pm

CRENET Section Business Meeting
M101, Marquis Level

12:30 pm – 2:00 pm

International Section Business Meeting
M304, Marquis Level

12:30 pm – 1:30 pm

Latin American Section Business Meeting and Reception
M304, Marquis Level

1:30 pm – 2:30 pm

AJAE Editorial Board Meeting
M108, Marquis Level

2:00 pm – 3:00 pm

Communications Committee Meeting
M102, Marquis Level

2:00 pm – 3:00 pm

Experimental Economics Section Business Meeting
M304, Marquis Level

2:00 pm – 3:00 pm

Senior Section Business Meeting
M109, Marquis Level

2:00 pm – 3:30 pm

TLC Business Meeting
M101, Marquis Level

2:00 pm – 4:00 pm

NAAEA Business Meeting
M103, Marquis Level

2:30 pm – 3:30 pm

ENV Section Business Meeting
M107, Marquis Level

2:30 pm – 3:30 pm

Finance Committee Meeting
M303, Marquis Level

3:00 pm – 4:00 pm

Related Journal Editors' Meeting
M108, Marquis Level

3:00 pm – 4:30 pm

AEM Section Business Meeting
M302, Marquis Level

3:00 pm – 5:30 pm

SS-AAEA Section Paper Competition
L403, Lobby Level

Meeting Timeline

3:00 pm – 6:00 pm

Extension Section Business Meeting and Reception

M301, Marquis Level

3:30 pm – 4:30 pm

Publications Committee Meeting

M105, Marquis Level

4:00 pm – 5:00 pm

China Section Business Meeting and Reception

M101, Marquis Level

4:00 pm – 6:00 pm

FAMPS Section Business Meeting and Mixer

M303, Marquis Level

4:30 pm – 5:30 pm

Choices Editorial Board Meeting

M105, Marquis Level

4:30 pm – 6:00 pm

AEM Section Reception

M101, Marquis Level

4:30 pm – 6:00 pm

ARA Business Meeting

M103, Marquis Level

4:30 pm – 6:00 pm

COSBAE & CWAE Section Reception

M102, Marquis Level

4:30 pm – 6:00 pm

Early Career Professionals Networking Reception

M304, Marquis Level

6:00 pm – 7:00 pm

Keynote Address: Pamela Ronald, University of California, Davis

Marquis Ballroom C&D, Marquis Level

7:00 pm – 8:00 pm

Welcome Reception

Skyline - 10th Floor

7:00 pm – 9:00 pm

SS-AAEA Undergraduate Mixer/Academic Bowl Orientation

M303 and M304, Marquis Level

Meeting Timeline

REUNIONS AND RECEPTIONS

8:00 pm – 10:00 pm

Various Rooms, Marquis Foyer, Marquis Level

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

M104 & M105

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

M106 & M107

Cornell University; The Pennsylvania State University

M101

MONDAY, JULY 22

Registration Desk Hours: 7:30 am - 5:00 pm, *Marquis Foyer, Marquis Level*

Employment Center Hours: 9:30 am - 5:00 pm, *M106, Marquis Level*

Connection Center Hours: 8:00 am - 6:00 pm, *Marquis Foyer, Marquis Level*

Poster Hall Hours: 8:00 am - 5:30 pm, *Marquis Ballroom A&B, Marquis Level*

Exhibit Booth Hours: 8:00 am - 6:00 pm, *Marquis Foyer, Marquis Level*

8:00 am – 8:30 am

AAEA Business Meeting

Marquis Ballroom C&D, Marquis Level

8:00 am – 9:00 am

Coffee/Networking Break

Marquis Level

8:00 am – 4:00 pm

SS-AAEA Academic Bowl

L404, L405, & L406, Lobby Level

8:00 am – 4:00 pm

Undergraduate Recruitment Fair

Near L401, Lobby Level

8:30 am – 9:30 am

AAEA Presidential Address: Keith Coble, Mississippi State University

Marquis Ballroom C&D, Marquis Level


10:00 am – 11:30 am

Concurrent Sessions (see page 36)

11:30 am – 1:00 pm


Networking Break

Various Rooms

11:30 am – 1:00 pm 

CWAE & COSBAE Speaker Series & Luncheon

L402 & L403, Lobby Level

11:30 am – 1:00 pm 

Extension Section Lecture & Luncheon

Marquis Ballroom C&D, Marquis Level

Meeting Timeline

1:00 pm – 2:30 pm

Concurrent Sessions (see page 49)

1:30 pm – 4:00 pm

AEM/GSS Case Study Competition Finals

L401 & L403, Lobby Level

2:45 pm - 4:15 pm

Concurrent Sessions (see page 60)

4:15 pm – 5:30 pm

Poster Reception

Marquis Ballroom A&B, Marquis Level

5:30 pm – 6:00 pm

SS-AAEA Academic Bowl Finals

Marquis Ballroom C&D, Marquis Level

6:00 pm – 7:15 pm

AAEA Awards and Fellows Recognition Ceremony

Marquis Ballroom C&D, Marquis Level

8:00 pm – 9:00 pm

SS-AAEA Section Business Meeting

L402 & L403, Lobby Level

REUNIONS AND RECEPTIONS

9:00 pm – 11:00 pm

Various Rooms, Marquis Level

Purdue University, University of Illinois

M303 & M304

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

M101

Michigan State University, The Ohio State University

M301

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

M103, M104, & M105

Oregon State University, University of Idaho, Washington State University

M102

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

M302

China Agricultural University, Nanjing Agricultural University, Zhejiang University

TBD

Meeting Timeline

TUESDAY, JULY 23

Registration Desk Hours: 7:30 am - 4:00 pm, *Marquis Foyer, Marquis Level*

Employment Center Hours: 9:30 am - 4:00 pm, *M106, Marquis Level*

Connection Center Hours: 8:00 am - 6:30 pm, *Marquis Foyer, Marquis Level*

Exhibit Booth Hours: 8:00 am - 4:15 pm, *Marquis Foyer, Marquis Level*

Poster Hall Hours: 8:00 am - 4:30 pm, *Marquis Ballroom A&B, Marquis Level*

8:00 am – 9:00 am

Coffee/Networking Break

Marquis Foyer, Marquis Level

8:30 am – 9:30 am

AAEA Fellows Address: Alan Olmstead, University of California, Davis

Marquis Ballroom C&D, Marquis Level

11:30 am – 12:30 pm

Galbraith Committee Meeting

TBD

10:00 am – 11:30 am

Concurrent Sessions (see page 73)

11:30 am – 12:45 pm

Poster Reception

Marquis Salon A&B, Marquis Level

11:45 am – 12:15 pm

C-FARE Report, Appreciation, and Awards

TBD

11:45 am – 12:45 pm

Working with the Media Session

M102, Marquis Level

1:00 pm – 2:30 pm

Concurrent Sessions (see page 88)

2:45 pm – 4:15 pm

Concurrent Sessions (see page 103)

4:30 pm – 4:45 pm

Coffee/Networking Break

Connection Center, Marquis Level

4:45 pm – 6:15 pm

Concurrent Sessions (see page 116)

6:30 pm – 7:30 pm

AAEA Galbraith Forum: David Card, University of California, Berkeley

Marquis Ballroom C&D, Marquis Level


7:30 pm – 8:30 pm

Closing and International Reception

TBD


Meeting Timeline

WEDNESDAY, JULY 24

7:45 am – 5:30 pm 


Extension Section Agricultural Tour

**Off-site, meet in Marriott Lobby*

8:30 am – 5:30 pm 

Early Career Mentoring 2-Day Workshop


M101, Marquis Level

9:00 am – 4:30 pm 

Public Health and AAEA

**Off-site at the CDC Office*

THURSDAY, JULY 25

7:15 am – 1:00 pm 

Early Career Mentoring 2-Day Workshop

M101, Marquis Level

Posters

Marquis Ballroom A&B, Marquis 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 5:15 pm on Tuesday will be discarded. Setup and take down times for each day are below:

MONDAY POSTERS

Poster Setup: Sunday, July 21: 9:00 am - 4:00 pm

Monday, July 22: 7:00 am - 8:00 am

Poster Reception: Monday, July 22: 4:15 pm - 5:30 pm

Poster Take Down: Monday, July 22: 5:30 pm - 6:30 pm

TUESDAY POSTERS

Poster Setup: Tuesday July 23: 7:00 am - 8:00 am

Poster Reception: Tuesday, July 23: 11:30 am - 12:45 pm

Poster Take Down: Tuesday, July 23: 4:30 pm - 5:15 pm

Agribusiness Economics and Management - Poster Session

M001 Dynamic Price Discovery in Chinese Agricultural Futures Markets

Miao Li, Huazhong Agricultural University; Tao Xiong, Huazhong Agricultural University

M002 The Impact of Economic Sentiment Index on the Price Relationship between Organic and Conventional Fruits in Korea

Jun Ho Seok, Korea Rural Economic Institute; GwanSeon Kim, University of Kentucky; Soo-Eun Kim, Jeonbuk Institute; Tyler B. Mark, University of Kentucky

M003 Drop-in Ready Jet Biofuel from Carinata: A Real Options Analysis of Processing Plant Investments

Chong Zhao, University of Georgia; Gregory J. Colson, University of Georgia; Berna Karali, University of Georgia; George Philippidis, University of South Florida

M004 Analysis of the Competitiveness of Coffee Beans from Different Origin in the South Korea and U.S. Coffee Market

Joonhyung Joo, Korea University; Kyungsoo Nam, Korea University; Byeong-il Ahn, Korea University

M005 Productivity Growth, Scale Effects, and Regional Disparities in China's Modern Aquaculture Industry: An Empirical Research

Hao Li, Washington State University

M006 Impact of Contract Farming and Food Loss: Evidence from an Emerging Economy

Alwin Dsouza, Arizona State University; Ashok K. Mishra, Arizona State University

M007 Do Cattle Breeds Affect Carcass Value?

Julian M. Worley, University of Georgia; Jeffrey H. Dorfman, University of Georgia

M008 How Social Media Usage Affects Consumer Trust? Evidence from Chinese Community Supported Agriculture

Si Tan, Renmin University of China; Weiping Chen, Renmin University of China

M009 Farmers' Traditional Maize Harvesting and Storage Methods and Response to Improved Techniques in Ondo State, Nigeria

Ojuotimi E. Mafimisebi, Rufus Giwa Polytechnic; Segun T. Ojumu, Rufus Giwa Polytechnic, Owo, Ondo State, Nigeria; James O. Okunlola, Federal University of Technology, Akure, Ondo State, Nigeria

M010 Which Factors Affect the Importance of Information Sources among U.S. Farmers?

Zahra Mohammadi, Purdue University; Michael A. Gunderson, Purdue University; Scott Downey, Purdue University

M011 Is People's Daily Lifestyle Consistent with Their Food Purchasing Behavior?

Yefan Nian, University of Florida; Lijia Shi, University of Florida; Zhifeng Gao, University of Florida; Ruojin Zhao, University of Florida

Posters

- M012 Using Pre- and Post-Entry Data to Identify the Effect of Ethanol Expansion on the Spatial Pattern of Corn Prices: A Study in Indiana**
Jinho Jung, Purdue University; *Juan Pablo Sesmero*, Purdue University; *Ralph Siebert*, Purdue University
- M013 Farm Capabilities and Performance in Swedish Agriculture**
Jozefine Nybom, Swedish University of Agricultural Sciences; *Erik Hunter*, Swedish University of Agricultural Sciences; *Eric T. Micheels*, University of Saskatchewan; *Martin Melin*, Swedish University of Agricultural Sciences
- M014 Pure-bred Nellore Prices in Brazil: Morphological, Genetic, Physical, and Market Factors in Auctions**
Yuri Clements Daglia Calil, Texas A&M University; *Luis A. Ribera*, Texas A&M University; *David P. Anderson*, Texas A&M University; *William Koury Filho*, BrazilcomZ
- M015 How Much Does Oversupply Weaken Cheese Prices?**
Hernan A. Tejada, University of Idaho; *Man-Keun Kim*, Utah State University
- M016 Road Infrastructure and Poverty Alleviation: Evidence from Rural China**
Lifen Zhu, Chongqing Technology and Business University; *Songqing Jin*, Michigan State University; *Jikun Huang*, Peking University; *Yongzhong Tian*, College of Geographical Sciences, Southwest University
- M017 Economic Impacts of Disease and Management in U.S. Sweet Cherry Production**
Kuan-Ju Chen, Washington State University; *Marc Evans*, Washington State University; *Kuan-Heng Chen*, Stevens Institute of Technology; **Ashley Railey**, Washington State University
- M018 Investment Decision and Portfolio Diversification by U.S. Dairy Farmers**
Syed Badruddoza, Washington State University; *Modhurima D. Amin*, Washington State University
- M019 Why Did Dairy Farms Exit?**
Jing Yi, Cornell University; *Jennifer E. Ifft*, Cornell University
- M020 The Impacts of the US Interstate Highway on Farmland Values and Agricultural Production: A Market Access Approach**
Wen Li, Cornell University; *Ariel Ortiz-Bobea*, Cornell University; *Jennifer E. Ifft*, Cornell University
- M021 Who Are Hired? The Impact of the Minimum Wage Increase on Job Recruitment by Agri-Business Companies**
So-Jin Kim, Chungbuk National University; *Hyunjung Kim*, Chungbuk National University; *Miseok Kim*, Chungbuk National University; *Soonkeun Park*; *Do-il Yoo*, Chungbuk National University
- M022 In the Face of Market Consolidation – A Case Study of Large Group Veterinary Practices**
Charlotte R. Hansen, American Veterinary Medical Association

Ag Finance and Farm Management - Poster Session

- M023 Bred Heifer Price Determinants**
Christopher M. Boyer, University of Tennessee; *Andrew P. Griffith*, University of Tennessee; *Kevin Laurent*, University of Kentucky; *Jada Thompson*, University of Tennessee
- M024 Risk and Returns to Forage Mixtures in a Beef Grazing System**
Kyle Brazil, University of Tennessee; *Pat Keyser*, University of Tennessee; **Christopher M. Boyer**, University of Tennessee; *Andrew P. Griffith*, University of Tennessee
- M025 Commodity Price Shocks and Rural Mortality**
Amber R. Roberts, University of Minnesota, Twin Cities; *Joleen C. Hadrich*, University of Minnesota; *Marc F. Bellemare*, University of Minnesota
- M026 Adoption Intensity of Climate Smart Agriculture Technologies in Uganda: A Semiparametric Analysis**
Sarah Kagoya, Louisiana State University; *Dependra Bhatta*, Louisiana State University; **Krishna P. Paudel**, Louisiana State University; *Kai Liu*, South China Agricultural University
- M027 Land Values and Farm Debt Accumulation: A Dynamic Model**
Ana Claudia Sant'Anna, The Ohio State University; *Mario J. Miranda*, The Ohio State University; *Ani Katchova*, The Ohio State University

Posters

- M028 Rural Financial Development, Spatial Spillover and Poverty Reduction: Evidence from China**
Xiaoke Zhu, Beijing Institute of Technology; *Jinyang Cai*, Beijing Institute of Technology; *Ruifa Hu*, Beijing Institute of Technology
- M029 Test or Treat? Understanding Demand for Antibiotics in Dairying**
Yanan Jia, Michigan State University; *David A. Hennessy*, Michigan State University; *Hongli Feng*, Michigan State University
- M030 Dynamic Decisions in Agricultural Disease Control: The Case of Tomato Disease Management**
Sheng Li, University of Florida; *Zhengfei Guan*, University of Florida; *Feng Wu*, University of Florida
- M031 The Effect of Electricity Fluctuations on Firm Investment Decisions: Evidence from Nigeria**
Samantha Padilla, Michigan State University; *Saweda Liverpool-Tasie*, Michigan State University; *Robert J. Myers*, Michigan State University
- M032 Ethanol Production and Agricultural Freight Markets**
Heidi Schweizer, North Carolina State University
- M033 Impact of Selected Financial Measures on the Debt Repayment Ability of Illinois Grain Farms**
Samuel A. Johnson, Illinois State University; *Iuliia Tetteh*, Illinois State University; *Marina Ptukhina*, Whitman College
- M034 Farmers Willingness to Pay for Smallholder Water Lifting Technologies: Evidence from Ethiopia**
Meneyahel Z. Tesfaye, University of Rome Tor Vergata; *Jean Claude Bizimana*, Texas A&M University; *Teferi Daba*, Arba Minch University; *Bedru Balana*, International Water Management Institute; *Gebreaweria Gebregziabher*, International Water Management Institute

Behavioral & Institutional Economics - Poster Session

- M035 When You Can't Tube... Increase in Rapes after a Major YouTube Outage**
M. Amelia Gibbons, University of Wisconsin-Madison; *Martin Rossi*, Universidad de San Andres
- M036 Determinants of Consumer Attitudes toward Fuel Ethanol in the State of Nebraska**
Ye Su, University of Nebraska at Kearney; *Frank Tenkorang*, University of Nebraska at Kearney; *Fletcher Ziwoya*, University of Nebraska at Kearney
- M037 Explore Generational Differences of Food-Related Lifestyle in the U.S.**
Lijun Chen, University of Florida; *Lisa A. House*, University of Florida; *Yan Heng*, University of Florida
- M038 Equilibria and Welfare in Markets with Social Preferences**
Jill Ann Fitzsimmons, University of Massachusetts, Amherst; *Nathalie Lavoie*, University of Massachusetts, Amherst; *Daniel A. Lass*, University of Massachusetts, Amherst
- M039 Wine Tasting: Consumer Preferences for Wine, Choice, and Sensory Information**
Nadeeka D K Weerasekara, Oregon State University; *Nadia A. Streletskaya*, Oregon State University; *Jie Li*, Cornell University
- M040 Spatial Economic Analysis of Parental Immunization Hesitancy in Rural Montana**
Stephen Frimpong, University of Wyoming; *Chen Xu*, University of Wyoming; *Mariah D. Ehmke*, University of Wyoming

Demand and Price Analysis - Poster Session

- T001 Modeling Spatial Price Parity Using High-Ordered Models of Dependence**
Shu Meng, North Carolina State University; *Barry K. Goodwin*, North Carolina State University
- T002 Demand Interrelationships and Socio-economic Factors Associated with the Purchase of Various Dairy Products in the United States**
Long Gao, Texas A&M University; *Oral Capps Jr.*, Texas A&M University; *Senarath Dharmasena*, Texas A&M University
- T003 Household Demand Analysis of 100% Grass-fed Milk**
Ariun Ishdorj, Texas A&M University; *Juwon Jang*, Texas A&M University

Posters

- T004 Do the Poor Pay More for Food? Evidence from Tanzania**
Christine M. Sauer, Michigan State University; *Thomas A. Reardon*, Michigan State University; *David L. Tschirley*, Michigan State University; *Betty Waized*, Sokoine University of Agriculture; *Roselyne Alphonse*, Norwegian University of Life Sciences; *Daniel Ndyetabula*, Sokoine University of Agriculture
- T005 Predicting Caloric Consumption at Mid-Century: Implications for Sustainability**
Anton C. Yang, Purdue University; *Christophe Gouel*, Institut National de la Recherche Agronomique; *Thomas W. Hertel*, Purdue University
- T006 Food Security in Niger in 2050: What Role Does Climate Change, Agricultural Productivity, and Population Play?**
Kayenat Kabir, Purdue University; *Thomas W. Hertel*, Purdue University; *Uris Lantz C. Baldos*, Purdue University
- T007 Advertising on Market Structure: Evidence from the U.S. Retail Beer**
Ezgi Cengiz, University of Massachusetts, Amherst
- T008 Spillover Effects and Conditional Dependence between Soybean and Soybean Oil Markets**
Yao Yang, University of Georgia; *Berna Karali*, University of Georgia
- T009 Effects of Urbanization on Subsistence Consumption In China**
Vardges Hovhannisyán, University of Wyoming
- T010 Impacts of Import Penetration on Price Relationships: An Empirical Analysis of the U.S. Catfish Market**
Madan M. Dey, Texas State University; *Prasanna Surathkal*, Texas State University
- T011 Are People Willing to Pay for Improving the Food Environment? Evidence from a Spatial Hedonic Analysis of Residential Property Values**
Meng Yang, Wuhan University; *Feng Qiu*, University of Alberta
- T012 Market Integration in 'Failed' States: A Case of Cereal Grains in Somalia**
Justin V. Hastings, University of Sydney; *Sarah Phillips*, University of Sydney; *David Ubilava*, University of Sydney; *Andrey Vasnev*, University of Sydney
- T013 Estimating Price Elasticities in the U.S. Beef Cattle Industry Considering Life Cycle of Cattle and Price Volatility**
Sei Jeong, University of Georgia
- T014 Can Sliding Scale Pricing Tip the Balance Towards Healthy, Accessible, and Fresh Groceries for All? Evidence from Guelph, Ontario.**
Laura Stortz, University of Guelph
- T015 Informed Trading and the O/F Ratio**
Selina Han, University of Illinois at Urbana-Champaign; *Mindy L. Mallory*, University of Illinois at Urbana-Champaign; *Michel A. Robe*, University of Illinois at Urbana-Champaign
- T016 Forecasting CBOT Corn Futures Price with Dynamic Model Averaging: The Roles of Fundamentals, Financial Markets, and Economics Environment**
Tao Xiong, Huazhong Agricultural University
- T017 Are China's Agricultural Commodity Prices Affected by Global Energy Shocks? Copula-based Extreme Market Dependence Analysis**
Qingmeng Tong, Huazhong Agricultural University; *Feng Qiu*, University of Alberta; *Junbiao Zhang*, Huazhong Agricultural University

Environmental and Nonmarket Valuation - Poster Session

- M041 Harmful Algal Blooms Joint Impact on Property Values and Market Duration: Evidence from the Chesapeake Bay**
David Wolf, University of Wisconsin, Eau Claire; *Nicholas Irwin*, University of Nevada-Las Vegas
- M042 Value Estimates for Natural Springs in Florida: A Joint Estimation of Revealed and Stated Preference Data**
Qianyan Wu, University of Florida; *Xiang Bi*, University of Florida
- M043 Impact of Endogenous Consequentiality on Contingent Valuation: Comparison between Voluntary Donation and Referendum**
Xiang Bi, University of Florida; *John C. Whitehead*, Appalachian State University

Posters

- M045** **The Effect of Groundwater Salinity on Irrigated Land Values in Kansas**
Juhee Lee, Kansas State University; *Nathan P. Hendricks*, Kansas State University
- M046** **Flexible Buffer Systems: Enhancing Ecosystem Services and Expanding Agricultural Options in Riparian Areas**
Xiaogu Li, The Pennsylvania State University; *Katherine Y. Zipp*, The Pennsylvania State University; *James S. Shortle*, The Pennsylvania State University; *Heather E. Gall*, The Pennsylvania State University; *Fei Jiang*, The Pennsylvania State University
- M047** **Recycling Water Sachet Plastic Wastes in Nigeria: Is There a Difference between What People Say and Do?**
Ekene S. Aguegboh, Michigan State University; *Mywish K. Maredia*, Michigan State University; *Vincenzina Caputo*, Michigan State University
- M048** **Impact of Climate Change and Extreme Weather Events on Crop Pests and Diseases Using Spatial Econometric Approach**
Taeyoung Kim, Gyeongsang National University; *Minhui Son*, Gyeongsang National University; *Ho Young Rho*, Gyeongsang National University
- M049** **The Effects of Wind Turbines on Agricultural Land Values**
Gabriel Sampson, Kansas State University; *Edward Perry*, Kansas State University; *Mykel R. Taylor*, Kansas State University
- M050** **Quantifying Damages and Disutilities of Air Pollution in China: Spatial and Temporal Variations**
Shanxia Sun, Shanghai University; *Seong Do Yun*, Mississippi State University; *Ling Huang*, Shanghai University
- M051** **Compensating Differentials of Rents, Wages and Agricultural Returns: The Quality-of-Life among Indonesian Regencies and Cities**
Wei Chen, The Ohio State University; *Allen Klaiber*, The Ohio State University; *Daniela A. Miteva*, The Ohio State University

Experimental Economics - Poster Session

- T018** **Explaining Consumer Preference for Product Labels Using Visual Attention Data**
Xuan Wei, University of Florida; *Hayk Khachatryan*, University of Florida; *Alicia Rihn*, University of Florida
- T019** **Does Stakeholder Engagement Improve Groundwater Management? A Lab Experiment Analysis**
Felipe De Figueiredo Silva, University of California, Berkeley; *Richard K. Perrin*, University of Nebraska-Lincoln; *Lilyan E. Fulginiti*, University of Nebraska-Lincoln
- T020** **Scarcity, Consumption, and Satiation: Results from a Controlled Experiment**
Janani Rajbhandari Thapa, University of Georgia; *Julio Sevilla*, University of Georgia; *Rodolfo M. Nayga*, University of Arkansas
- T021** **Does the Modified Nutrition Facts Panel Improve Consumers' Understanding?**
Elizabeth J. Kim, University of Illinois at Urbana-Champaign; *Brenna Ellison*, University of Illinois at Urbana-Champaign
- T022** **Is Animal Welfare Enhancing a Hornless World? Consumer's Valuation for Milk from Gene-Edited Cows**
Valerie Kilders, Michigan State University; *Vincenzina Caputo*, Michigan State University
- T023** **Effect of Altruism and Selfishness on the Valuation of Coffee Credence Quality Attributes**
Katherine Ramirez - Fuller, Arizona State University; *Carola Grebitus*, Arizona State University

Food and Agricultural Marketing - Poster Session

- M052** **Analysis of Healthy and Convenient Food: The Example of Meal Kit Delivery Services**
Sungeun Yoon, University of Florida; *Zhifeng Gao*, University of Florida; *Lisa A. House*, University of Florida
- M053** **Product Innovation in Beverage Market and the Demand for "Better for You" Drinks**
Xuan Chen, The Pennsylvania State University; *Yizao Liu*, The Pennsylvania State University; *Pei Zhou*, The Pennsylvania State University
- M054** **A Topic Mining Approach to Understand What Matters to Online Grocery Consumers: The Case of Coconut Oil**
Yan Heng, University of Florida; *Junhong Chen*, University of Florida; *Zhifeng Gao*, University of Florida

Posters

- M055 Consumer Preferences for Environmental Attributes in Disposable Dinnerware**
Mackenzie Gill, University of Tennessee; Kimberly L. Jensen, University of Tennessee; Sreedhar Upendram, University of Tennessee; Burton C. English, University of Tennessee; Niki Labbe, University of Tennessee; Dayton M. Lambert, Oklahoma State University; Sam Jackson, Genera Energy
- M056 The Influence of Information on Consumers' Intention to Reduce Food Waste in Three European Countries**
Christina Maria Neubig, Technical University of Munich; Margot Van Cauter, KU Leuven; Simona Grasso, University of Reading; Sophie Hieke, EUFIC; Sandra Knoepfle, Technical University of Munich; Anna Macready, University of Reading; Natalie Masento, University of Reading; Camilla Massri, EUFIC; Esereosa Omoarukhe, University of Reading; Jutta Roosen, Technical University of Munich; Liesbet Vranken, Katholieke Universiteit Leuven
- M057 Effects of Self-Informed Knowledge of GM Foods and Preference of Organic Foods on the Willingness to Pay for Non-GM Foods: Focusing on the Case of Cooking Oil**
Heesun Lim, Korea University; Kyungsoo Nam, Korea University; Byeong-il Ahn, Korea University
- M058 Fraud on the Tip of the Tongue: Online Review Manipulations in the Restaurant Industry**
Guang Tian, University of Idaho; Liang Lu, University of Idaho; Jason Winfree, University of Idaho
- M059 Rural Development, Market Linkages and the Dairy Supply Chains in Colombia**
Carolina Vargas, Michigan State University; Thomas A. Reardon, Michigan State University
- M060 How do Farmers Choose Whom to Sell? Evidence from the Zambian Maize Market**
Aakanksha Melkani, Michigan State University; Nicole M. Mason, Michigan State University; Brian Chisanga, Indaba Agricultural Policy Research Institute
- M061 Economics of Mandatory Cannabis Testing Regulations: Impact on Marginal Costs in California**
Pablo Valdes-Donoso, University of California Agricultural Issues Center; **Daniel A. Sumner**, University of California, Davis; Robin Goldstein, University of California, Davis
- M062 Investigating the Drivers of Farm Diversification among U.S. Fruit and Vegetable Operations**
Nicholas Lancaster, Purdue University; Ariana Torres, Purdue University
- M063 What Criteria Supermarket Chains in India use to Select Vegetable Suppliers?**
Vishnu Shankarrao Kedar Sr., Institute for Social and Economic Change

Food and Agricultural Policy Analysis - Poster Session

- T024 Effects of Regulation of Farm Practices when Market Segregation is Significant: State Requirements of Gestation Stalls for Sows**
Hanbin Lee, University of California, Davis
- T025 Analyzing Voting Outcomes in Recent Animal Welfare and GM Food Labeling Ballot Initiatives**
Emma D. Rice, Michigan State University; Melissa G. S. McKendree, Michigan State University; Glynn T. Tonsor, Kansas State University
- T026 The Effects of the National Agricultural Input Voucher Scheme (NAIVS) on Sustainable Intensification of Maize Production in Tanzania**
Jongwoo Kim, Michigan State University; Nicole M. Mason, Michigan State University; David Mather, Michigan State University
- T027 Impact of Crop Insurance Premium Subsidy Rates on Unit and Coverage Level Choices**
Ashley E. Hungerford, USDA-Office of the Chief Economist; Joseph C. Cooper, USDA-Economic Research Service; Robert C. Johansson, USDA-Office of the Chief Economist; Thomas W. Worth, USDA-Risk Management Agency
- T028 Assessing the Co-Benefits of the Renewable Fuel Standard: Integrated Ecosystem-Economic Modeling Framework**
Sarah Acquah, University of Illinois at Urbana-Champaign; Kelsie Ferin, Iowa State University; Andy VanLooche, Iowa State University; Madhu Khanna, University of Illinois at Urbana-Champaign
- T029 Food Waste and the Consistent Estimation of Consumer Demand**
Yang Yu, The Pennsylvania State University; Edward C. Jaenicke, The Pennsylvania State University

Posters

- T030 Food Fraud and Import Refusals: Assessing China's Agri-Food Imports at the Firm Level**
Chaoping Xie, Nanjing Agricultural University; Xiaojuan Wang, Central University of Finance and Economics; Jason Grant, Virginia Tech; Yanyu Long, Central University of Finance and Economics; Yifang Liu, Central University of Finance and Economics
- T031 Does Food Insecurity Worsen due to Smoking?**
Mohit Anand, Miles College; Patricia A. Duffy, Auburn University
- T032 Winning Ugly: The Potential for Converting Ugly Food to a Horizontally Differentiated Product**
Danyi Qi, Louisiana State University; Jerrod Penn, Louisiana State University; Ran Li, Louisiana State University; Brian E. Roe, The Ohio State University
- T033 An Agent-Based Model of Insect Resistance Management and Mitigation for Bt Maize: A Social Science Perspective**
Yuji Saikai, University of Wisconsin-Madison; Paul D. Mitchell, University of Wisconsin-Madison
- T034 The Economic Value of Organic Labeling in the Fluid Milk Market**
Youngjune Kim, Kansas State University; Edward Perry, Kansas State University; Dustin L. Pendell, Kansas State University
- T035 Understanding the Factors that Drive Scaling of Agricultural Interventions: Evidence from Rural Ghana**
Prince Maxwell Etwire, CSIR-Savanna Agricultural Research Institute
- T036 Determining "Ag-Gag" Laws Effect on Business Investment in Kansas, Montana, and North Dakota through the Synthetic Control Approach**
Anastasia M. Gamble, University of Georgia; Levi Russell, Ottawa University
- T037 Estimating Slippage in the Conservation Reserve Program**
Meongsu Lee, University of Missouri; Patrick Westhoff, University of Missouri
- T038 Effects of Californian Battery-Cage Ban on Consumer Welfare and Market Equilibrium**
Sohae Oh, North Carolina State University; Xiaoyong Zheng, North Carolina State University; Tomislav Vukina, North Carolina State University
- T039 Assessing Local Vulnerability to Climate Change in Irrigated Mexican Agriculture**
Miriam Juarez-Torres, Banco de Mexico; Santiago Guerrero, Dirección Nacional de Medio Ambiente, Uruguay; Leonardo F. Sánchez-Aragón, Escuela Superior Politecnica del Litoral
- T040 Fill-in Purchase Decisions of SNAP/WIC Households**
Adam N. Rabinowitz, University of Georgia; Yizao Liu, The Pennsylvania State University; Grace Melo, Pontificia Universidad Católica de Chile; Shelly Ver Ploeg, USDA-Economic Research Service
- T041 Consumer Willingness-to-Pay for Foods with Labels Proposed by USDA's Agricultural Marketing Service to Meet the National Bioengineered Food Disclosure Standard**
Jonathan McFadden, USDA-Economic Research Service
- T042 How Should Government Spend its Budgetary Resources for Agricultural Development?**
Mywish K. Maredia, Michigan State University; Nicole M. Mason, Michigan State University; Robert S. Shupp, Michigan State University; Vincenzina Caputo, Michigan State University
- T043 Characterizing the Impact of Beginning Farmer Entry on Local Farm Systems**
William McClain, Purdue University; Brandon Weiland, Purdue University
- T044 Does Higher Planting Density Increase the Drought Sensitivity and Yield Risk of Genetically Modified Corn Seed?**
Serkan Aglasan, North Carolina State University; Roderick M. Rejesus, North Carolina State University; Zachary S. Brown, North Carolina State University
- T045 SPS Measures and the Hazard Rate of Chinese Agricultural Exports**
Xin Ning, Virginia Tech; Jason Grant, Virginia Tech
- T046 The Effects of Unemployment on Food Security Status**
Akash Issar, University of Georgia; Travis A. Smith, University of Georgia

Posters

- T047** **Income Growth, Urbanization and Food Demand in China: Prediction Based on a Meta-Regression Analysis Approach**
Shixian Zhai, China Agricultural University; **Qiubo Zhu**, China Agricultural University; **Lei Li**, China Agricultural University;
Junfei Bai, China Agricultural University

Food Safety and Nutrition - Poster Session

- M064** **Can Market Power Encourage Food Processors to Improve Food Safety Management?**
Tian Xia, Kansas State University; **Xianghong Li**, Kansas State University
- M065** **Product Recalls and Firm Learning: Evidence from the Food Industry**
Sherzod B. Akhundjanov, Utah State University; **Veronica F. Pozo**, Utah State University; **Briana Thomas**, Utah State University
- M066** **Are Home or Community Gardeners Willing to Pay More for Organic and Local?**
Lijia Shi, University of Florida; **Zhifeng Gao**, University of Florida; **Yuning Zhao**, University of Florida; **Junhong Chen**, University of Florida
- M067** **Milk Choice: Does Choosing Chocolate Milk Negatively Impact the Nutritional Content of a School Lunch?**
Janet G. Peckham, U.S. Food and Drug Administration; **Jaclyn D. Kropp**, University of Florida; **Thomas Mroz**, University of Georgia; **Vivian Haley-Zitlin**, Clemson University; **Ellen M. Granberg**, Clemson University
- M068** **A Multi-Country Study of the Willingness-to-Consume Alternative (RNAi, CRISPR and Cisgenic) Genetically Modified Food**
Alfred B. Narh, University of Arkansas; **Lawton L. Nalley**, University of Arkansas; **Heather Price**, University of Arkansas; **Aaron M. Shew**, Arkansas State University; **Rodolfo M. Nayga**, University of Arkansas
- M069** **Information Influence on Consumers' Choice for Genetically Modified Foods: A Non-Hypothetical Choice Experiment in China**
Holly Wang, Purdue University; **Jing Yang**, Zhejiang University; **Qiujie Zheng**, University of Alaska Anchorage; **Yu Jiang**, Zhejiang University
- M070** **Access to Water Estates and Food Security Outcome: Evidence from Coastal Bangladesh**
Samiul Haque, North South University; **Rushde Akbar**, North South University
- M071** **Household Nutrient Elasticities of Food Consumption and Policy Implications for Bangladesh**
Md Zabid Iqbal, Bangladesh Institute of Development Studies
- M072** **Food Choices as an Occupation Hazard: Food Choice and Purchase Behavior among Long-Haul Truck Drivers**
Walter O. Moturi, University of Georgia; **Wojciech J. Florkowski**, University of Georgia

Household and Labor Economics - Poster Session

- T048** **Have We Made Progress in Measuring Bargaining Power?**
Bradford L. Barham, University of Wisconsin-Madison; **Matthew J. Klein**, University of Wisconsin-Madison; **Yuexuan Wu**, University of Wisconsin - Madison
- T049** **The Effects of Precipitation Shocks on Rural Labor Markets and Migration**
Mohammad Hadi Mostafavi-Dehzoeei, Bloomsburg University; **Ghadir Asadi**, Virginia Tech
- T050** **Road Investment and Farmers' Non-farm Employment: Evidence from Rural China**
Lifen Zhu, Chongqing Technology and Business University; **Songqing Jin**, Michigan State University; **Jikun Huang**, Peking University; **Yongzhong Tian**, College of Geographical Sciences, Southwest University
- T051** **Height and Earnings: A Mendelian Randomization Analysis from China**
Qihui Chen, China Agricultural University; **Chen Zhu**, China Agricultural University; **Jun Wang**, Renmin University of China; **Guoshu Kong**, Renmin University of China
- T052** **Market Participation and Temporary Migration among Peruvian Small Farmers**
Vania B. Salas Garcia, Universidad de Piura; **Qin Fan**, California State University, Fresno

Posters

- T053 Labor Market Impacts and Responses: The Economic Consequences of a Marine Environmental Disaster**
Trung Hoang, Vietnam Academy of Social Sciences; Duong Le, Binghamton University - SUNY; Ha Nguyen, The World Bank; Nguyen Vuong, University of Wisconsin-Madison
- T054 Gender Differences, Social Isolation and Rural Migrants' Cigarette Smoking**
Zhongyuan Liu, University of Georgia; Wojciech J. Florkowski, University of Georgia; Huiguang Chen, Nanjing Agricultural University
- T055 Effects of Health insurance on income distribution in China**
Yu Sun, China Center for Health Economic Research; Gordon G. Liu, PKU National School of Development; Wen You, Virginia Tech; Meijiao Wang, China Center for Health Economic Research
- T056 Creative Destruction, Job Reallocation, and Subjective Well-Being**
Mona Ahmadiani, Wake Forest University; Adam S. Hyde, Wake Forest University; Jeremy Jackson, North Dakota State University
- T057 Abstract: How Do Intra-Rural Migrants in Uganda Attain Welfare Gains? Evidence from a Panel Survey**
Kayenat Kabir, Purdue University
- T058 A Meta-Analysis of Off-farm Labor Supply Functions of Farm Households**
Rakhe P. Balachandran, Louisiana State University; Jerrod Penn, Louisiana State University; Maria Bampasidou, Louisiana State University
- T059 The Impact of Gender Imbalance on Women's Education and Migratory Decisions: Evidence from Mexico**
Itzel De Haro Lopez, University of Wisconsin-Madison
- T060 Nonfarm Work and Food Security among Farming Households in Nigeria**
Olumide Aborisade, Texas Tech University; Carlos E. Carpio, Texas Tech University
- T061 Labor Market Dynamics for PhD Economists and Agricultural Economists**
Andrew Hanks, The Ohio State University; Kevin Kniffin, Cornell University

Industrial Org./Supply Chain Management - Poster Session

- M073 Corporate Social Responsibility and Product Differentiation under Mixed Competition**
Modhurima D. Amin, Washington State University; Syed Badruddoza, Washington State University; Robert Rosenman, Washington State University
- M074 Modeling Hysteresis in Agri-Food Sectors: An Application to the Dairy Sector of a French Region**
Lionel Cosnard, University of Bordeaux
- M075 Pass-Through of the E85 Subsidy to Retail Prices: Insights from Hotelling's Model**
Jinjing Luo, Iowa State University; GianCarlo Moschini, Iowa State University
- M076 Hub Location in the U.S. Fresh Produce Supply Chain - A Computational Optimization Model**
Houtian Ge, Cornell University; Patrick N. Canning, USDA-Economic Research Service; Jie Li, Cornell University
- M077 Market Power and Spatial Price Discrimination in Agricultural Procurement Markets: Evidence from the Corn Market in Indiana**
Jinho Jung, Purdue University; Juan Pablo Sesmero, Purdue University; Ralph Siebert, Purdue University

International Development - Poster Session

- M078 Constructing Rigorous Relative Price Indices of Agricultural Land in the Developed and Developing World**
Richard F. Nehring, USDA-Economic Research Service; Wendong Zhang, Iowa State University; Nilabja Ghosh, Institute of Economic Growth; Matt Liebman, Iowa State Agronomy Department; Yu Sheng, Peking University
- M079 Effectiveness of Scaling up Bio-fortified Crops: Evidence from a Field Experiment in Rwanda**
Mywish K. Maredia, Michigan State University; Maria Porter, Michigan State University; Songqing Jin, Michigan State University; Jarrad G. Farris, Michigan State University

Posters

- M080 The Impacts of a Severe Natural Disaster on the Agricultural Sector: A Case Study of the 2008 Wenchuan Earthquake**
Ming-Jou Tsai, University of Tennessee; Tun-Hsiang Yu, University of Tennessee; Christopher M. Boyer, University of Tennessee; Rachel JC Chen, University of Tennessee
- M081 Seasonal Patterns of Energy Expenditure in Agricultural and Rural Livelihoods in Low-Income Countries**
Giacomo Zanella, *University of Reading; Chittur S. Srinivasan, University of Reading; Fiorella Picchioni, University of Reading; Patrick Webb, Tufts University*
- M082 Agriculture Productivity in North Africa: Terms of Trade, Innovations or Factor Endowments?**
Ahmed Chennak, *University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln*
- M083 Mobile Money Adoption and Information Gaps: Evaluating the Impact of Video Advertisement**
Oscar Barriga-Cabanillas, *University of California, Davis*
- M084 Farm Households' Coping Mechanisms from Shocks: An Empirical Measurement of Resilience in Malawi**
Weldensie T. Embaye, Kansas State University; Yacob A. Zereyesus, Kansas State University; Lawrence Mapemba, Lilongwe University of Agriculture and Natural Resources; Jean Claude Bizimana, Texas A&M University
- M085 Gender Differences in Land Ownership and Managerial Rights: Implications for Intrahousehold Farm Labor Allocation in Ethiopia and Malawi**
Munsu Kang, *Kansas State University; Benjamin Schwab, Kansas State University; Jisang Yu, Kansas State University*
- M086 Extension Visits and Farmers' Visit to Extension Agents: What Matters More for the Adoption of Water Harvesting Techniques in Malawi?**
Festus O. Amadu, University of Illinois at Urbana-Champaign; Paul E. McNamara, University of Illinois at Urbana-Champaign
- M087 Warehouse Receipt Financing for Smallholders in Developing Countries: Short on Logic, Long on Imagination**
Mario J. Miranda, *The Ohio State University; Francis M. Mulangu, Millennium Challenge Corporation; Francis H. Kemeze, University of Ghana*
- M088 Impact of Remittances on Household Consumption in Nepal**
Khushbu Mishra, *Stetson University; Olga Kondratjeva, Washington University in St. Louis*

International Trade - Poster Session

- M089 Heterogeneous Border Enforcement of EU Food Safety Regulations**
Kjersti Nes, University of California, Davis; K. Aleks Schaefer, Royal Veterinary College, University of London
- M090 The Role of Institutional Quality on the Performance in the Export of Coconut Products**
Jessie Lin, *University of Göttingen*
- M091 Can U.S. Import Regulations Reduce IUU Fishing and Improve Production Practices in Aquaculture?**
Yingkai Fang, *University of Florida; Frank Asche, University of Florida*
- M092 The Impact of Banana Tariff Reduction from the Economic Cooperation with ASEAN on Fruits Demand in Korea: Considering the Substitutable Fruits Basket**
Hanpil Moon, Korea Rural Economic Institute; Jun Ho Seok, Korea Rural Economic Institute; Jung Won Youm, Korea Rural Economic Institute
- M093 A General Equilibrium Model of Bilateral Trade with Strategic Public Investment in Commercial Infrastructure**
Meng-Fen Yen, *CERTA, National Taiwan University; Mario J. Miranda, The Ohio State University*
- M094 Examining the Spillover Effects of Ethanol Prices on the Import Demand for Corn**
Dong Hee Suh, *Korea University*
- M095 Widespread Economic and Environmental Implications of a Ban on Palm Oil**
Farzad Taheripour, *Purdue University; Thomas W. Hertel, Purdue University; Navin Ramankutty, University of British Columbia*
- M096 Do Exports Drive Chinese Overseas Investment in Agriculture?**
Yue Hu, *Iowa State University; Minghao Li, Iowa State University; Wendong Zhang, Iowa State University*

Posters

- M097 Seasonal Price Transmission between U.S. and Brazil Soybean Prices Using the Seasonal Regime-Dependent VECM**
Byung Min Soon, University of Missouri; Jarrett Whistance, University of Missouri
- M098 Effects of Formula Feed Standard Changes and Tariffs on Soybeans for Chinese Hog Production**
Abigail J. Meffert, Food and Agricultural Policy Research Institute; Patrick Westhoff, University of Missouri; Wyatt Thompson, University of Missouri
- M099 Calculation of Gains from Sino-U.S. Agricultural Trade and Analysis on the Impact of Trade Friction**
Hui Ren, University of Washington; Hai Lin, China Agricultural University
- M100 Towards a More Efficient Tariff Rate Quota Regime: Evidence from Chinese Firm-Level Grain Imports**
Chaoping Xie, Nanjing Agricultural University; Jason Grant, Virginia Tech; Jing Zhu, Nanjing Agricultural University
- M101 Climate Change, Trade Liberalization, and Civil Strife in Developing Countries**
Sahar Yousef, The Ohio State University

Natural Resource Economics - Poster Session

- T062 Crop Insurance and Groundwater Extraction: Evidence from the Ogallala**
Matthew R. Sloggy, Colorado State University; Dale Manning, Colorado State University; Christopher Goemans, Colorado State University; Roger L. Claassen, USDA-Economic Research Service
- T063 Effects of Crop Insurance on Irrigation Water Use in the United States**
Prasenjit N. Ghosh, Auburn University; Ruiqing Miao, Auburn University; Emir Malikov, Auburn University
- T064 Estimating Water Withdrawal Response to Environmental Stresses**
Iman Haqiqi, Purdue University; Thomas W. Hertel, Purdue University
- T065 Technical Efficiency of Coffee Production in the Colombian Coffee Cultural Landscape: The Role of Payments for Environmental Services**
Orlando Rodriguez, Technical University of Munich
- T066 Entry, Competition and Price Dynamics in Retail Gasoline Markets**
Armando Rangel Colina, University of California, Davis
- T067 Water Management Practices: Use Patterns and Influencing Factors**
Yefan Nian, University of Florida; Qiuqiong Huang, University of Arkansas; Kent Kovacs, University of Arkansas; Christopher Henry, University of Arkansas; Jason Kurtz, Mississippi State University
- T068 Global Drivers of Land and Water Sustainability Stresses at Mid-Century**
Iman Haqiqi, Purdue University; Laura C. Bowling, Purdue University; Sadia Jame, Purdue University; Thomas W. Hertel, Purdue University; Uris Lantz C. Baldos, Purdue University; Jing Liu, Purdue University
- T069 What Dimension of Women Empowerment in Agriculture Matter for Adoption of Climate Smart Agricultural Practices in Southern Nigeria**
Maria Gbemisola Ogunnaike, Federal University of Agriculture; Adebayo M. Shittu, Federal University of Agriculture, Abeokuta; Abiodun E. Obayelu, Federal University of Agriculture, Abeokuta; Comfort I. Sodiya, Federal University of Agriculture Abeokuta, Ogun State Nigeria
- T070 Ownership Structure, Fairness and the Future of Wind Energy Development in Canada – A Survey-Experimental Study**
Monique C. Holowach, University of Alberta; John Parkins, University of Alberta; Sven M. Anders, University of Alberta; Juergen Meyerhoff, TU Berlin
- T071 Socioeconomic and Biophysical Drivers of Cropland Use Intensification in India: Analysis using Satellite Data and Administrative Surveys**
Gaurav Arora, Indraprastha Institute of Information Technology; Tushita Rathore, Indraprastha Institute of Information Technology; Gargi Gupta, Indraprastha Institute of Information Technology; Saket Anand, IIT Delhi
- T072 Distorting Permit Markets to Reduce Welfare Losses from Sub-Optimal Caps**
Richard Horan, Michigan State University; Carson Reeling, Purdue University; James S. Shortle, The Pennsylvania State University

Posters

- T073** **Ground Water Extraction Behavior When Agents are Heterogeneously Located in an Aquifer with Flow Dynamics: A Theoretical and Experimental Approach**
Steven Wilhelms, Mississippi State University; Kalya T. Coatney, Mississippi State University; Seong Do Yun, Mississippi State University; Anita M. Chaudhry, California State University, Chico; James N. Barnes III, Mississippi State University
- T074** **Capitalized Values of Land Subsidence - A Matching Estimator Approach**
James Yoo, California Baptist University
- T075** **The Effect of Land Use Restrictions Protecting Endangered Species on Agricultural Land Values**
Richard T. Melstrom, Loyola University Chicago
- T076** **Property Rights and Groundwater Management: A Dynamic Structural Model of the Dual Rights System in California**
Louis S. Sears, Cornell University; C.-Y. Cynthia Lin Lawell, Cornell University
- T077** **Modeling North Dakota Farmers' Historical Acreage Allocation Decisions for Five Major Crops: A Spatially-weighted Seemingly Unrelated Tobit Regression Approach**
Nazea H. Khan Chowdhury, North Dakota State University; David C. Roberts, North Dakota State University
- T078** **The Effect of Technology Reliability on Adoption and Use: Evidence from Off-Grid Electricity in Rwanda**
Salvador Lurbe, Colorado State University; Dale Manning, Colorado State University; Jesse Burkhardt, Colorado State University
- T079** **The Potential for Moral Hazard Behavior in Irrigation Decisions under Crop Insurance**
Paloch Suchato, University of Nebraska-Lincoln; Taro Mieno, University of Nebraska-Lincoln; Karina Schoengold, University of Nebraska-Lincoln; Timothy Foster, University of Manchester
- T080** **Economic Incentives for Achieving Conservation and Renewable Energy Goals with the Conservation Reserve Program**
Luoye Chen, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign; Elena Blanc, University of Illinois at Urbana-Champaign; Tara Hudiburg, University of Idaho; Evan DeLucia, University of Illinois at Urbana-Champaign
- T081** **Short Commitments, Self-Monitoring, and Local Agricultural Agency Administration: Improved BMP Cost-Share Enrollment Rates vs. Long Term Environmental Goals**
Lauriane Yehouenou, University of Florida; Kelly A. Grogan, University of Florida
- T082** **Predicting Crop Yields Using Soil Moisture and Heat: An Extension to Schlenker and Roberts (2009)**
Iman Haqiqi, Purdue University; Danielle S. Grogan, University of New Hampshire; Thomas W. Hertel, Purdue University; Wolfram Schlenker, Columbia University
- T083** **The Use and Usefulness of Irrigation Property Reform for Sustainable Agriculture**
Jing You, Renmin University of China, University of Cambridge; Yi Cui, Renmin University of China; Jiujiu Ma, Renmin University of China

Production Economics - Poster Session

- M102** **Water Efficiency in High-Yield Irrigated Corn Fields in the Western U.S. Corn Belt**
Felipe De Figueiredo Silva, University of California, Berkeley; Lilyan E. Fulginiti, University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln
- M103** **Duality Theory in Empirical Work: Evaluating the Performance of an Alternative Method**
Juan F. Rosas, Universidad ORT Uruguay; Sergio H. Lence, Iowa State University
- M104** **Profit-Maximizing Nitrogen Rates for Corn Production and Tillage Systems Using Random Parameter Response Functions**
Alexis H. Villacis Aveiga, Virginia Tech; Jeffrey Alwang, Virginia Tech; Jorge Delgado, USDA Agricultural Research Service
- M105** **Local Cropland Transitions from Ethanol Market Expansions**
Nicholas J. Pates, University of Kentucky; Nathan P. Hendricks, Kansas State University; Tyler Lark, University of Wisconsin-Madison

Posters

- M106** **Determinants of Technical Efficiency among Small-Scale Coffee Farmers in Rwanda**
Jules Ngango, Chungnam National University; Jungmyung Lee, Kyungpook National University; Seung Gyu Kim, Kyungpook National University
- M107** **The Labor Market Impact of the Citrus Greening Disease in Florida: Evidence from Difference-In-Difference Estimation**
Tianyuan Luo, University of Florida; Zhengfei Guan, University of Florida; Feng Wu, University of Florida
- M108** **How Much is Free Irrigation Water Really Worth?**
Federico J. Trindade, University of Washington; Lilyan E. Fulginiti, University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln
- M109** **Bayesian Optimal Dynamic Sampling Procedure for On-Farm Field Trials**
John N. Ng'ombe, Oklahoma State University; Wade Brorsen, Oklahoma State University
- M110** **Economic Optimality of Income over Feed Cost: An Analysis of Wisconsin Dairy Farms**
Kota Minegishi, University of Minnesota; Simon Jette Nantel, University of Wisconsin-River Falls; Sunghun Lim, University of Minnesota
- M111** **Weather Impacts on Agricultural Production Efficiency: Evidence from Kansas Wheat Farmers**
Bowen Chen, Kansas State University; Elliott J. Dennis, University of Nebraska-Lincoln; Allen M. Featherstone, Kansas State University
- M112** **The Welfare Impact of Mechanization of Sugarcane Production in São Paulo – Brazil**
Pedro Soares, University of São Paulo; Richard K. Perrin, University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln
- M113** **Pesticides Efficiency of French Wheat Producers under a Stochastic Frontier Framework**
K Hervé Dakpo, French National Institute for Agricultural Research; Fabienne Femenia, French National Institute for Agricultural Research
- M114** **Cooperative Membership, Contracts, and Production Efficiency: A Selectivity-Corrected Analysis of Smallholder Farmers**
Aditya R. Khanal, Tennessee State University; Ashok K. Mishra, Arizona State University; Anjani Kumar, International Food Policy Research Institute
- M115** **Farm Efficiency Under Risk: How Does Risk Influence the Efficiency Frontier?**
Jason S. Bergtold, Kansas State University; Elizabeth A. Yeager, Kansas State University; Asha Nalunga, Kansas State University
- M116** **Effects of Smoking on Agricultural Productivity**
Samiul Haque, North South University; Naveen Abedin, International Food Policy Research Institute; Adnan M. S. Fakir, University of Western Australia; Rafe Hannan, Economic Research Group; Rafe Alam, United Hospital
- M117** **Long Term Impacts of Cover Crops on Corn Yield Risk and Implied Changes to Crop Insurance Premiums**
Lawson Connor, Louisiana State University
- M118** **Agricultural Supply: Do Markets Anticipate Weather Shocks?**
Matthieu M. Stigler, University of California, Davis

Productivity Analysis and Emerging Technologies - Poster Session

- T084** **Estimating Yield Gains from GM Maize in South Africa**
Aaron M. Shew, Arkansas State University; Lawton L. Nalley, University of Arkansas; Jesse B. Tack, Kansas State University; Petronella Chaminuka, South African Agricultural Research Council; Zira Mavunganidze, South African Agricultural Research Council
- T085** **The Impact of Foreign Direct Investment on Agricultural Enterprises Productivity in China: Threshold Effect of Absorptive Capacity**
Yan Han, China Agricultural University; Rodney B.W. Smith, University of Minnesota

Posters

- T086** **Agricultural Productivity Adjusted for Environmental Bads in Great Plains: Redux**
Badri Khanal, University of Nebraska-Lincoln; *Lilyan E. Fulginiti*, University of Nebraska-Lincoln; *Richard K. Perrin*, University of Nebraska-Lincoln
- T087** **To Bomb a Vineyard? Developing a Model for Predicting Water Stress in a Vineyard Utilizing Hyperspectral Imagery Collected from a UAV**
Sean P. Hurley, California Polytechnic State University, San Luis Obispo; *Marc Horney*, California Polytechnic State University San Luis Obispo; *Aaron Drake*, California Polytechnic State University San Luis Obispo
- T088** **The Effect of Training and Microcredit on Productive Efficiency: The Case of Haitian Peanut Farmers**
Anthony Baffoe-Bonnie, Alcorn State University; *Genti Kostandini*, University of Georgia
- T089** **Understanding Grazing Intensity Choices on the U.S. Great Plains**
Yuyuan Che, Michigan State University; *Hongli Feng*, Michigan State University; *David A. Hennessy*, Michigan State University; *Tong Wang*, South Dakota State University
- T090** **Farm Heterogeneity and Product Differentiation: Using Farm-level Microdata in Japan**
Yuko Akune, Nihon University; *Nobuhiro Hosoe*, National Graduate Institute for Policy Studies
- T091** **Venture Capital and the Transformation of Private R&D for Agriculture**
Gregory D. Graff, Colorado State University; *Felipe De Figueiredo Silva*, University of California, Berkeley; *David Zilberman*, University of California, Berkeley
- T092** **Women's Access to Improved Seed: Does it Matter for Small- Scale Maize Farms' Productivity in Nigeria**
Opeyemi E. Ayinde, The Ohio State University; *Tahirou Abdoulaye*, International Institute of Tropical Agriculture; *Mario J. Miranda*, The Ohio State University; *Abdoul G. Sam*, The Ohio State University; *Gbadebo Olaoye*, University of Ilorin
- T093** **Application of Biodegradable Mulches in Crop Production: A Life Cycle Assessment**
Kuan-Ju Chen, Washington State University; *Ting Chi*, Washington State University; *Thomas L. Marsh*, Washington State University

Research Methods/Econometrics/Stats - Poster Session

- M119** **The Power Law Distribution of Agricultural Land Size**
Sherzod B. Akhundjanov, Utah State University; *Lauren Chamberlain*, Utah State University
- M120** **Comparing Panel Data Quantile Regression Models with an Application to Price Elasticities of Demand for Sugar-Sweetened Beverages in the U.S.**
Pourya Valizadeh, University of North Carolina, Chapel Hill; *Peter M. Lance*, University of North Carolina at Chapel Hill; *Shu Wen Ng*, UNC-Chapel Hill; *David K. Guilkey*, University of North Carolina at Chapel Hill
- M121** **Optimal Conservation Tradeoffs: Combining Bi-Level Optimization with Genetic Algorithm Methods**
Bradley L. Barnhart, Environmental Protection Agency; *Moriah B. Bostian*, Lewis & Clark College; *Manoj K. Jha*, North Carolina A&T State University; *Lyubov A. Kurkalova*, North Carolina A&T State University
- M122** **Determining the Importance of an Attribute in a Demand System: Structural versus Machine Learning Approach**
Syed Badruddoza, Washington State University; *Modhurima D. Amin*, Washington State University
- M123** **Estimating Crop Yields Using Spatiotemporal Bayesian Kriging with Nonstationary Covariance Functions**
Xun Lu, North Carolina State University; *Barry K. Goodwin*, North Carolina State University; *Sujit K. Ghosh*, North Carolina State University
- M124** **Bayesian Optimization for Precision Agriculture**
Yuji Saikai, University of Wisconsin-Madison; *Paul D. Mitchell*, University of Wisconsin-Madison

Resource and Environmental Policy Analysis - Poster Session

- T094** **Impacts of External Information Sources about Choice of Pesticide Varieties on Pesticide Misuse: Evidence from Rice Farmer's Pests Control Practice in China**
Ruifa Hu, Beijing Institute of Technology; *Shengyang Sun*, Beijing Institute of Technology; *Chao Zhang*, Beijing Institute of Technology

Posters

- T095** **Hurricanes and Local Government Revenue Structure: An Empirical Analysis Using Machine-Learning Techniques**
Jianhong E. Mu, Texas A&M University
- T096** **Evaluating the Impact of the Grassland Ecological Compensation Policy on Grassland Quality in China**
Hou Lingling, China Center for Agricultural Policy, Peking University; *Qihui Chen*, China Agricultural University; *Qisheng Feng*, Lanzhou University
- T097** **Wind Energy and Agricultural Production – Evidence from Farm-Level Data**
Tengjiao Chen, University of Illinois at Urbana-Champaign
- T098** **Do Environmental Attitudes Track Business Cycles? Evidence from the Great Recession**
Susana Ferreira, University of Georgia; *Jackson Newbury*, University of Georgia
- T099** **Lessons from Local Governance and Collective Action Efforts to Manage Irrigation Withdrawals in Kansas**
Gabriela Perez-Quesada, Kansas State University; *Nathan P. Hendricks*, Kansas State University
- T100** **The Effect of Trade on the Environment: Evidence from Meta-analysis**
Sylvanus Kwaku Afesorgbor, University of Guelph; *Binyam A. Demena*, Erasmus University of Rotterdams
- T101** **Decomposing the Wedge: Mechanisms Driving the Gap between Projected and Realized Returns in Energy Efficiency Programs**
Peter Christensen, University of Illinois at Urbana-Champaign; *Paul Francisco*, University of Illinois at Urbana-Champaign; *Erica Myers*, University of Illinois at Urbana-Champaign; *Mateus Nogueira Meirelles De Souza*, University of Illinois at Urbana-Champaign
- T102** **Competing for Long-run Energy Sustainability: Let go of the Small State-Owned Enterprises or Grasp the Large Private Enterprises?**
Chin-Hsien Yu, Southwestern University of Finance and Economics; *Wen-Chieh Lee*, National Chengchi University; *Shinn-Shyr Wang*, National Chengchi University; *Ping Qin*, Renmin University of China
- T103** **Impact of Centralization v. Decentralization on Market Performance: A Theoretical Framework Accounting for Externalities and Imperfect Information**
Aaron J. Staples, Purdue University; *Natalie R Loduca*, Purdue University; *Jacob S. Schmiess*, Purdue University
- T104** **The Impact of Bison Reintroduction on the Local Economy**
Liqing LI, University of Illinois at Urbana-Champaign; *Amy W. Ando*, University of Illinois at Urbana-Champaign
- T105** **Economic and Policy Considerations for Large Scale Investments in Natural Climate Solutions to Achieve Climate Stabilization Goals**
Justin S. Baker, RTI International; *Brent Sohngen*, The Ohio State University; *Gregory Latta*, University of Idaho
- T106** **Is the Low Carbon Agriculture Credit Program Impacting Pasture Area and Quality in Brazil's Northeast Region?**
Adauto B. Rocha Jr., University of São Paulo; *Giovani W. Gianetti*, University of São Paulo; *Alexandre N. Almeida*, University of Sao Paulo; *Joaquin Bento Ferreira*, University of São Paulo
- T107** **Achieving Spatial Connectivity for Threshold Public Goods through Payments for Ecosystem Services – Evidence from a Framed Field Experiment with Oil Palm Farmers in Indonesia**
Katrin Rudolf, University of Goettingen
- T108** **Assessing the Private and Social Benefits of Forest Concessions in the Maya Biosphere Reserve**
Corinne F. Bocci, The Ohio State University; *Brent Sohngen*, The Ohio State University
- T109** **The Impact of the 2008 Shale Gas Moratorium on New York Farmland Values**
Jennifer E. Ifft, Cornell University; *Ao Yu*, Cornell University
- T110** **Determinants of Cropland Expansion in the United States: The Role of Government Policy**
Yijia Li, University of Illinois at Urbana-Champaign; *Madhu Khanna*, University of Illinois at Urbana-Champaign; *Ruiqing Miao*, Auburn University
- T111** **How Do Landfills Impact Surrounding Property Values: A Difference-in-Differences Model Analysis**
Bijeta Bijen Saha, University of Florida

Posters

Risk and Uncertainty - Poster Session

- M125** **Optimal Spatial Distribution of Forest Carbon Payments that Balances Returns and Risks of Future Economic Growth Scenarios**
Seong-Hoon Cho, University of Tennessee; *Bijay P. Sharma*, University of Tennessee
- M126** **Farm-level Irrigation Decisions and Informal Water Transfers under the Prior Appropriation Doctrine**
Kimberly S. Rollins, University of Nevada, Reno; *Gi-Eu Lee*, University of Nevada, Reno; *Loretta Singletary*, University of Nevada, Reno
- M127** **Non-linear Impact of Extreme Heat on Nitrogen Balances**
Tobias Dalhaus, ETH Zürich; *Tony Pfingsten*, University of Bonn
- M128** **Rate-Setting of Agricultural Insurance Using Partial Derivatives of Penalized Bivariate Tensor Product B-splines: The Case of Beijing in China**
Pin Lu, Michigan State University; *Kaidi Wu*, Michigan State University
- M129** **On the Optimal Policy for Infectious Animal Disease Management: A Principal-Multiple Agents Approach**
Abdel Fawaz Osseni, French National Institute for Agricultural Research; *Arnaud Rault*, INRA - UMR BioEpAR; *Gohin Alexandre*, INRA, SMART-LERECO
- M130** **Risk Preferences and Demand for Crop Insurance**
Stephanie D. Rosch, USDA-Economic Research Service; *Joseph C. Cooper*, USDA-Economic Research Service; *Charles Holt*, University of Virginia; *Thomas W. Sproul*, University of Rhode Island; *Sarah Tulman*, Farm Credit Administration
- M131** **Is There a Demand for Aquaculture Insurance? An Analysis of New England's Oyster Market**
Avery W. Cole, University of Maine; *Xuan Chen*, Emory University; *Nicholas Alvarez*, University of Maine
- M132** **Do Values Drive the Risk Gap?**
Kayode M. Ajewole, Kansas State University; *Elliott J. Dennis*, University of Nebraska-Lincoln; *Ted C. Schroeder*, Kansas State University; *Jason S. Bergtold*, Kansas State University

Rural/Community Development - Poster Session

- T112** **Effects of Marketing Contracts and Resource-Providing Contracts in the African Small Farm Sector: Insights from Oil Palm Production in Ghana**
Anette Ruml, University of Göttingen; *Matin Qaim*, University of Göttingen
- T113** **Baby Boomers' Paths into Retirement: Income/Wealth Dependency of their Migration Behaviors and Patterns**
Ayoung Kim, Mississippi State University; *Brigitte S. Waldorf*, Purdue University
- T114** **Long-term Effects of National Health Insurance on Improving Health Status and Reducing Financial Burden: Evidence from China**
Yuying Xing, University of Illinois at Urbana-Champaign
- T115** **Are Returns to Capital Lower in Rural Areas? An Initial Evaluation.**
David W. Hughes, University of Tennessee; *David Brian Willis*, Clemson University
- T116** **The Effects of Democratic Participation in Development Program on Happiness: Does Procedural Utility Matter?**
Chenxin Leng, China Agricultural University; *Qianheng Chen*, China Agricultural University; *Li Li*, Institute of Psychology, Chinese Academy of Sciences; *Michael Delgado*, Purdue University
- T117** **The Impact of Low-Skilled Immigration on Native Student School Choice Outcomes: Does School Choice Lead to Increased Segregation in Rural Minnesota Public Schools?**
Thomas P. Krumel Jr., University of Connecticut; *Shawn Rohlin*, Kent State
- T118** **Consumer Preference on Rice as the Most Favorite Staple Food in Rural Ghana**
Sakiko Shiratori, Japan International Research Center for Agricultural Sciences
- T119** **Does the Pension Program Affect Health Care Utilization of Elderly Farmers? Evidence from the Old Farmer Pension Program in Taiwan**
Feng-An Yang, National Taiwan University; *Hung-Hao Chang*, National Taiwan University

Posters

T120 **Can Cooperatives Increase Farmers' Income: A Study of Tea in China**
Xiaorong Zhang, Renmin University of China; Xiangzhi Kong, Renmin University of China

Teaching, Communication, and Extension - Poster Session

M133 **Evaluating the Effectiveness of Basic Good Agricultural Practices Training by University of Maryland Extension**
Xiaoya Dou, University of Maryland; Clare A. Narrod, University of Maryland; Mark V. Miller, University of Maryland; Tarik Chfadi, University of Maryland; Donna Pahl, Cornell University; Justine Beaulieu, University of Maryland

M134 **The Ag Econ Diaspora: Where Do Applied Economists Publish?**
Anna Derian, Tufts University; Sean B. Cash, Tufts University; Norbert L.W. Wilson, Tufts University

M135 **Measuring Statewide Impacts of Extension on Soil Conservation Practices**
Tong Wang, South Dakota State University

M136 **Effect of Crapemyrtle Bark Scale on Crapemyrtle Industry and Consumer Demand**
Pulkit Marwah, Texas A&M University; Yu Yvette Zhang, Texas A&M University; Mengmeng Gu, Texas AgriLife Extension Service

M137 **Training Needs for Small Producers to Minimize Agricultural Marketing Problems and Challenges: How Cooperative Extension Can Fill the Gap**
Lila B. Karki, Tuskegee University; Uma Karki, Tuskegee University; David Nii O. Tackie, Tuskegee University; Gwendolyn Harris, Tuskegee 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 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 (xyz).

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 (xyz)

NEW IN 2019

The 2019 AAEA Annual Meeting will be continuing the discussant method originally featured in 2018, developed by the Selected Presentations Committee. Due to positive feedback received from 2018 presenters, we have been able to expand this format from just six sessions to 29!

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 sessions. We greatly appreciate your continued patience and enthusiasm with this new format!

TEST SESSIONS

1033 The Economics of Nutritional Outcomes in Developing Countries; **1037** International Trade – Trade Impacts on Food Security; **1041** Energy Market and Regulations; **1055** Forecasting Prices and Trading Volume; 1056 Experimental Economics - Risk, Trust and Uncertainty; **1060** International Development - Agricultural Development; **1062** Climate Impact on Agricultural Production; **2005** Economics of Agri-Food Markets; **2006** Behavioral Economics and Farm Decision-Making; **2008** Experimental Economics – Design; **2010** U.S. Food Assistance Programs: A Focus on Food Retailers; **2012** U.S. Labor Policy, and Impact on Migration and Rural Labor Markets; **2017** Productivity Analysis and Emerging Technologies – New Data Methods for Crop and Livestock Production; **2018** Water Use and Conservation; **2041** Compensation, Incentives and Productivity; **2044** Climate, Water Scarcity, and Agricultural Adaptation; **2046** Productivity Analysis and Emerging Technologies – Productivity Factors for Crop Farming in Sub-Saharan Africa; **2047** Pollution Regulation, Violation and Disbelief; **2049** Rural Broadband and Local Foods; **2065** Agribusiness Supply Chain Management and Coordination; **2068** Organic and Non-GMO Food Markets and Marketing; **2072** International Development – Aspirations; **2094** Agricultural Production Management and Profitability; **2093** Ag Finance and Farm Management - Issues with Crop Insurance; **2097** Consumer Response to Farm Production Standards and Certification Schemes; **2099** An Assessment of Food Safety from the Farm to the Consumer; **2100** Institutions and U.S. Labor Supply; **2104** Cropping System Economics; and **2107** Gender and Rural Development.

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

1001 International Agri-Food Trade Shocks: Assessment, Measurement, and Impact

M103, Marquis Level

Invited Paper

The objective of this session is to contribute state-of-the-art empirical research to enhance understanding of current and historically significant agricultural trade shocks.

Moderator: Shawn Arita, USDA-Office of the Chief Economist

Discussant: Joseph W. Glauber, International Food Policy Research Institute

A Hybrid Model Approach to Estimating Impacts of China's Tariffs on U.S. Soybeans

Patrick Westhoff, University of Missouri; Tracy L. Davis, Texas A&M University; Byung Min Soon, University of Missouri

The Impact of 2018 Trade War Retaliation on U.S. Commodity Prices

Michael K. Adjemian, USDA-Economic Research Service; Shawn Arita, USDA-Office of the Chief Economist; Aaron D. Smith, University of California, Davis

Global Agri-Food Trade Shocks: A Historical Econometric Assessment

Jason Grant, Virginia Tech; Shawn Arita, USDA-Office of the Chief Economist; Charlotte Emlinger, CEPII

1002 Perspectives on Global Food Security

M101, Marquis Level

Organized Symposium

This session will feature four prominent panelists giving brief presentations on different features of the global food security landscape. Half the time will be dedicated to open discussion among the panelists and the audience about research directions as well as policy implications of recent research advances on global food security.

Organizer: Christopher B. Barrett, Cornell University

Moderator: Awudu Abdulai, University of Kiel

Panelists: Annemie Maertens, University of Sussex; William J. Martin, International Food Policy Research Institute; Ashok K. Mishra, Arizona State University; Matin Qaim, University of Göttingen

Trade Policy and Food Security

William J. Martin, International Food Policy Research Institute

Labor Markets, Social Protection Programs, and Diet Quality

Ashok K. Mishra, Arizona State University

Complex Household Structures and Food Security

Annemie Maertens, University of Sussex

1003 Agricultural Labor - Issues and Solutions

L401, Lobby Level

Organized Symposium

In this session, we discuss several issues of emerging importance to farmers and policymakers concerned with access to agricultural labor. From healthcare, to minimum-wage reform, and changes to the H-2A program, researchers discuss on-going research using a variety of theoretical, and empirical, approaches.

Panelists: Alexandra E. Hill, University of California, Davis; Jennifer E. Ifft, Cornell University; Ivan T. Kandilov, North Carolina State University; Timothy J. Richards, Arizona State University

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

1004 Ag Finance and Farm Management - Lightning Session

Suite 3824, 38th Floor

Selected Presentation - Lightning Session

Moderator: Carlos O. Trejo-Pech, University of Tennessee, Knoxville

Small Farmers, Large Fields – An Initiative to Improve Sustainability of Small Farms Through Synchronized Participatory Farming

Sampriati Baruah, International Rice Research Institute; Samarendu Mohanty, International Potato Center (CIP)

Adoption of Crop Insurance in Ghana: The Right Hurdle in the Presence of Non-normality and Over-dispersion

Kwame A. Addey, North Dakota State University; **John Baptist D. Jatoe**, University of Ghana, Legon; George T-M Kwadzo, University of Ghana, Legon; Yaw Osei-Asare, University Ghana, Legon; **John Baptist D. Jatoe**, University of Ghana, Legon

A Financial Analysis of Cage and Cage-free Eggs Production in the United States

Carlos O. Trejo-Pech, University of Tennessee, Knoxville; Jada Thompson, University of Tennessee

Substitute or Complement? Formal and Informal Methods of Saving: The Case of Unskilled Workers in the Cut Flower Industry in Ethiopia

Eun Jin Ryu, The University of Tokyo; Aya Suzuki, University of Tokyo

Evaluating the Feasibility of Consolidations in Agricultural Cooperatives

Olabisi Ekong, Kansas State University; Brian C. Briggeman, Kansas State University

Incorporating the Sampling Distribution of a Soil Signal for an Ex-ante Evaluation of Precision Agriculture

Pedro Queiroz, University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln; Felipe De Figueiredo Silva, University of California, Berkeley

Dispute Likelihood in Commodity Forward Contracts

Sankalp Sharma, Kent State University, Tuscarawas; Anil Giri, University of Central Missouri

1005 Risk and Resilience in Agribusiness

Suite 3839, 38th Floor

Selected Presentation

This session focuses on a range of issues related to risk and resilience of firms in the agri-food supply chain.

Moderator: Ze Shen, Texas A&M University

The Effect of Liquidity Shocks on the Resiliency of Agricultural Futures Markets

Marjolein Verhulst, Wageningen University; Joost M. E. Pennings, Maastricht University / Wageningen University; Andres A. Trujillo-Barrera, University of Idaho

The Effects of Genetically Modified Corn Adoption on Yield Risk and Drought Sensitivity in the Central Corn Belt: An Analysis of Crop Insurance Performance

Serkan Aglasan, North Carolina State University; Barry K. Goodwin, North Carolina State University

How Do Farmers Really Respond to Drought in the Short-run? An Empirical Examination in Washington State

Hao Li, Washington State University; Michael P. Brady, Washington State University

Bitcoin Return Volatility Forecasting: A Comparative Study of GARCH Model and Machine Learning Model

Ze Shen, Texas A&M University; Qing Wan, Computer Science & Engineering Department, Texas A&M University; David J. Leatham, Texas A&M University

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

1006 Experimental Economics - Lightning Session

Suite 3903, 39th Floor

Selected Presentation - Lightning Session

This Lightning session presents papers from a diversity of topics, including, extension program evaluations, virtual reality, common pool resources, the effects of temperature on team production and incentives, micronutrient adoption, politicians and their promises, technology adoption and the role of technological and environmental information on food choices.

Moderator: Irina S. Dolgoplova, Technical University of Munich

Does Virtual Reality Reduce Hypothetical Bias? Evidence from Choice Experiments Using Nutrition Labels

Di Fang, University of Arkansas; **Rodolfo M. Nayga**, University of Arkansas; **Grant H. West**, University of Arkansas; **Claudia Bazzani**, University of Verona

Is Micronutrient Training Effective in Creating Demand for Zinc Rice? A Randomized Control Trial Study and Panel Data Analysis for Bangladesh

Harold Glenn A. Valera, University of the Philippines, Los Banos; **M. Ashraful Habib**, International Rice Research Institute; **Takashi Yamano**, International Rice Research Institute

The Role of Environmental and Technological Information on Food Choices: Insights from the Combination of In-home sensory Evaluations and On-Line Auctions

Dolores Garrido, Washington State University; **Karina Gallardo**, Washington State University

Does Innovation Drive Delay? Evidence from a Technology Adoption Experiment

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

Information and Farmers' Willingness to Pay for Improved Soybean Varieties: Experimental Evidence from Ghana

Edward Martey, CSIR-Savanna Agricultural Research Institute

1007 Advances and Innovation in Assessing Consumer Demand for Food Products

Suite 3919, 39th Floor

Selected Presentation

This collection of papers offer important, new, insights into factors relevant to the design of studies that examine consumer demand for food products.

Moderator: Ting Meng, China Agricultural University

A Nonhypothetical, Hierarchical Information Valuation Approach: Which Food Labels do Consumers Value Most?

Kendra J. Rash, Purdue University; **Jayson L. Lusk**, Purdue University; **Laurent F. Muller**, French National Institute for Agricultural Research; **Bernard Ruffieux**, French National Institute for Agricultural Research

The Impact of Font-of-package Labeling with Information Spillovers

Chen Zhu, China Agricultural University; **Rigoberto A. Lopez**, University of Connecticut; **Xiaoou Liu**, Renmin University of China

Measuring Exaggeration Bias in a Contingent Valuation Study Conducted in a Retail Environment

Joshua P. Berning, Colorado State University; **Benjamin L. Campbell**, University of Georgia

Comparative Price in Choice Experiments: The Effects of Price Information on Willingness to Pay

Shan Sun, Huazhong Agricultural University; **Wuyang Hu**, The Ohio State University; **Ping Qing**, Huazhong Agricultural University

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

1008 Emerging Topics in Agricultural Policy

Suite 3934, 39th Floor

Selected Presentation

Change is on the horizon, and discussions in agriculture go well beyond cost functions and major commodities. How can nutrition and production information be better communicated to consumers? How will contemporary policies, like soda taxes and state-by-state regulation of marijuana, affect society? This session combines several diverse topics that are emerging in agricultural policy, all of which will surely affect producers and consumers. Come learn about the effectiveness of policies from food labeling, to soda taxes, to medical marijuana.

Moderator: Janani Rajbhandari Thapa, University of Georgia

Assessing Healthfulness of the Food Environment after the Mandatory Menu Labelling and Predicted Impact on Healthy Eating
Janani Rajbhandari Thapa, University of Georgia; **Nicole Katapodis**, University of Georgia; **Donglan Zhang**, University of Georgia

Heterogeneity in the Effect of Medical Marijuana Laws on Crime: Evidence from the U.S. Counties from 1994 to 2016

Scott Callahan, Appalachian State University; **David Bruner**, Appalachian State University; **Christopher S. Giguere**, I.M. Systems Group, Inc. / NOAA-NOS-ORR-ARD

Measuring the Impact of Transitional Certification and Labeling on Organic Conversion Rates and Organic Price Premiums

Ashley Spalding, University of California, Davis; **Richard J. Sexton**, University of California, Davis

Spatial Competition and Effectiveness of Soda Tax: Evidence from Berkeley and Philadelphia

Joseph V. Balagtas, Purdue University; **Xiaoyang He**, Purdue University

1009 Food Safety and Nutrition: A Lightning Session

M102, Marquis Level

Selected Presentation - Lightning Session

Food safety and nutrition are vital areas of research to improve food and agricultural systems and promote wellbeing. The papers in this session explore food safety and nutrition from policy to interventions in the U.S. and other developed countries. A trio of papers address food safety at the producer and consumer levels, while another trio of papers consider child nutrition in U.S. emphasizing school nutrition policies and programs. The other papers use national data of dietary intake to evaluate sodium in food away from home in Korea and to develop a price tool for nutrition economics research in the U.S.

Moderator: Travis A. Smith, University of Georgia

Do Private Lawsuits Crowd-In or Crowd-Out Public Food Safety Regulation?

Timothy Beatty, University of California, Davis; **Jay P. Shimshack**, University of Virginia; **Yijing Wang**, University of California, Davis

Which Criteria Do Consumers Use to Evaluate the Safety of Food?

Christine Hassauer, Technical University of Munich; **Jutta Roosen**, Technical University of Munich

The Effect of the Fresh Fruit and Vegetable Program (FFVP) on Fruit and Vegetable Consumption: An Agent Based Modeling Approach

Stephanie Schauder, Cornell University; **Michael R. Thomsen**, University of Arkansas; **Rodolfo M. Nayga**, University of Arkansas

Did the New School Meal Standards Improve the Overall Quality of Children's Diets

Travis A. Smith, University of Georgia; **Eliza M. Mojduszka**, USDA-Office of the Chief Economist

The Effect of Childhood Obesity on Hospital Length of Stay, Charges and Costs in the United States, 2006-2016

Lюдmyла Kompaniyets, Centers for Disease Control and Prevention; **Brook Belay**, Centers for Disease Control and Prevention

Effects of Food Away from Home Consumption on Sodium Intake

Jung Woo Byun, Korea University; **Kwanghun Yeon**, Korea University; **Doo Bong Han**, Korea University

Estimating Food Prices for NHANES and the USDA Food Plans

Andrea C. Carlson, USDA-Economic Research Service; **Kevin Kuczynski**, USDA-Food & Nutrition Service; **TusaRebecca Pannucci**, USDA-Food & Nutrition Service; **Kristin Koegel**, USDA-Food & Nutrition Service; **Elina T. Page**, USDA-Economic Research Service; **Carina Tornow**, Westat; **Thea Pamer Zimmerman**, Westat

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

1010 Industrial Organization/Supply Chain Management - U.S. Dairy Market

Suite 3939, 39th Floor

Selected Presentation

This session looks at the market structure, market power, and dynamics of the U.S. Dairy Industry.

Moderator: Jill Ann Fitzsimmons, University of Massachusetts, Amherst

Competition Issues in the Fluid Milk Industry in the Eastern United States

Yuliya Bolotova, Clemson University

The Price-Perceived Quality Relationship: Evidence from U.S. Cheese Markets

Charng-Jiun Yu, University of Wisconsin-Madison; **Xiaodong Du**, University of Wisconsin-Madison

Dairy Industry Transition and Exits, 1987 to 2012

Miyeon Son, Oklahoma State University; **Dayton M. Lambert**, Oklahoma State University; **Jessica A. Richard**, Oklahoma State University

Federal Milk Marketing Order and Dairy Consolidation: A Synthetic Control Method

Xiaoxue Du, University of Idaho; **Liang Lu**, University of Idaho; **Hernan A. Tejada**, University of Idaho; **Andres A. Trujillo-Barrera**, University of Idaho

1011 International Development - Technology Adoption

Suite 4003, 40th Floor

Selected Presentation

These papers examine both the drivers and the impacts of the adoption of agricultural technologies.

Moderator: David Murphy, University of Evansville

Effectiveness of Lead-Farmer Extension: The Role of Physical, Social and Personality Distance

Jarrad G. Farris, Michigan State University; **Mywish K. Maredia**, Michigan State University; **Nicole M. Mason**, Michigan State University; **David L. Ortega**, Michigan State University

Impacts of an agricultural Value Chain Development Project on Poverty, Income, and Assets: Evidence from Nepal

Tisorn Songsermsawas, International Fund for Agricultural Development; **Kashi Kafle**, International Fund for Agricultural Development

The Impact of High-Yield Technologies on the Cocoa Market in West Africa

Felipe De Figueiredo Silva, University of California, Berkeley; **David Zilberman**, University of California, Berkeley; **Scott Kaplan**, University of California, Berkeley; **Matthew Potts**, University of California, Berkeley

Show and Tell: Causal Impacts of Field Days on Farmer Learning for Organic Inputs in Kenya

David Murphy, University of Evansville; **Dries Roobroeck**, International Institute of Tropical Agriculture; **David R. Lee**, Cornell University

1012 International Trade - Agricultural Trade and China

Suite 4019, 40th Floor

Selected Presentation

This session focuses on the impact of trade and trade policies on China's agricultural imports and exports, environment, and economy.

Moderator: Chang Hong, USDA-Economic Research Service

Global Trade Effects of Tightening Environmental Standards in China

Sandro Steinbach, University of Connecticut; **Xiting Zhuang**, University of Connecticut

Trade Openness, Pollution, and Growth: Evidence from China, 1998-2008

Guojun He, Hong Kong University of Science and Technology; **Yuhang Pan**, Hong Kong University of Science and Technology; **Bing Zhang**, Nanjing University

Is There a Middle-Quality Trap in China's Agri-Products Export?

Xuemei Liu, East China University of Science and Technology; **William H. Meyers**, University of Missouri

Agricultural Trade and Consumer Demand in China

Chang Hong, USDA-Economic Research Service; **Robert Feenstra**, University of California, Davis

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

1013 Modeling Innovations in Land-Use Change

Suite 4024, 40th Floor

Selected Presentation

This session uses diverse methods to explore land-use change in the U.S. The papers present machine learning, dynamic programming, spatial econometric, and Ricardian approaches that capitalize on remote sensing and field data resources to characterize land transitions across space and time.

Moderator: Chinazor S. Azubike, North Carolina A&T State University

Determinants of Land-use Changes: A Machine-Learning Approach

Luoye Chen, University of Illinois at Urbana-Champaign; **Madhu Khanna**, University of Illinois at Urbana-Champaign

An Econometric Analysis of the Impact of Climate Change on Broad Land-use Change in the Conterminous United States

Chris Mihlar, Oregon State University; **David Lewis**, Oregon State University

Grassland Easement Acquisition: Conversion Hazard Rate and Spatial Spillover

Ruiqing Miao, Auburn University; **David A. Hennessy**, Michigan State University; **Hongli Feng**, Michigan State University; **Gaurav Arora**, Indraprastha Institute of Information Technology

Modeling Land Use and Land Cover in North Carolina; A Markov Chain Approach

Chinazor S. Azubike, North Carolina A&T State University; **Lyubov A. Kurkalova**, North Carolina A&T State University; **Timothy J. Mulrooney Jr.**, North Carolina Central University

1014 Spatial and Dynamic Methods to Advance Agricultural Production Economics Research

Suite 4039, 40th Floor

Selected Presentation

Papers in this session utilize spatial and dynamic methods to address topics in agricultural production, technology, and growth, including applications from a variety of international contexts.

Moderator: Farzad Taheripour, Purdue University

Spatial Dependence and Dynamic Productivity Growth in Wisconsin Dairy Farming

Teo Skevas, University of Missouri; **Victor E. Cabrera**, University of Wisconsin-Madison

Transient Use of Hybrid Maize: Irregularly Spaced Dynamic Panel Evidence from Kenya

Maolong Chen, Southwestern University of Finance and Economics; **Robert J. Myers**, Michigan State University; **Chaoran Hu**, Sichuan University

Does Neighborhood Matter? Spatial Proximity and Farmer Technical Efficiency in Ethiopia

Wondmagegn T. Tirkaso, Swedish University of Agricultural Sciences; **Atakelti G. Hailu**, University of Western Australia

Impact of Minimum Support Price Policy and National Food Security Mission on the Production of Pulses in India

Jannet John, Indian Institute of Management, Ahmedabad; **Anar Bhatt**, Indian Institute of Management, Ahmedabad; **Poornima Varma**, Indian Institute of Management, Ahmedabad

1015 Farm Management Practices for Pollution Reduction

M107, Marquis Level

Selected Presentation

Papers in this session review effectiveness of regulations that target farm practices to reduce pollution from farm run-off. Papers evaluate producers' options and preferences in choosing to adopt conservation practices, as well considering the effectiveness from the perspective of achieving nutrient reduction goals.

Moderator: Haoluan Wang, University of Maryland at College Park

What Drives Voluntary Adoption of Farming Practices that Can Abate Nutrient Pollution?

Zachary Luther, Michigan State University; **Scott M. Swinton**, Michigan State University; **Braeden Van Deynze**, Michigan State University

Land Tenure and Conservation Practice Use: Evidence from Landowners' Decisions in Iowa

Wendiam Sawadgo, Iowa State University; **Wendong Zhang**, Iowa State University; **Alejandro Plastina**, Iowa State University

EU Regulations to Fight Nutrient Surpluses: The Case of Nitrate Vulnerable Zones

Ivan Tzintzun, Paris 1 Panthéon-Sorbonne; **Santiago Guerrero**, Dirección Nacional de Medio Ambiente, Uruguay

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

1016 Risk and Uncertainty - Risk Perception

Suite 3924, 39th Floor

Selected Presentation

Papers in this session explore the linkage among information, risk communication, and risk perceptions.

Moderator: Andrew J. Estrin, U.S. Food and Drug Administration

Effects of Information on Risk Perception: Empirical Evidence from Housing Market in Taiwan

*Tzu-Chang Forrest Cheng, National Central University; Tai-Chi Wang, National Center for High-Performance Computing; **Jian-Da Zhu**, National Taiwan University*

Endogenous Risk Perception and Wildfire Risk Mitigating Behavior

Hari Katuwal, Tarleton State University

Do Concerns of Agricultural Producers About Risk Limit Participation in Agri-Environmental Schemes?

John Rolfe, Central Queensland University; *Megan L. Star, Central Queensland University*

1017 Understanding Adoption of Innovations and Behavior Change to Improve Agricultural Policy

M109, Marquis Level

Track Session - AUS, CWAE, ENV Sections

This session provides a broad scan across the vast literature on the adoption of new practices in agriculture, with a focus on its relevance to agricultural policy, including policy for agricultural production and policy for conservation of natural resources and the environment. Issues covered include the role of adoption and behavior change in agricultural policy, adoption of agricultural practices through a behavioral economics lens, adoption of innovations in developing countries, and the roles of economic and non-economic factors as drivers of or barriers to practice change. The session is based on a selection of papers from a special issue of AEPP that is currently in preparation.

Organizer: David J. Pannell, University of Western Australia

Discussant: David Zilberman, University of California, Berkeley

The Roles of Adoption and Behavior Change in Agricultural Policy

David J. Pannell, University of Western Australia; *Roger L. Claassen, USDA-Economic Research Service*

The Relationship Between Behavioral Economics and the Adoption of Agricultural Innovations

Nadia A. Streletskaya, Oregon State University; *Samuel D. Bell, Oregon State University; Simanti Banerjee, University of Nebraska-Lincoln; Maik Kecinski, University of Alberta; Tongzhe Li, University of Windsor; Leah H. Palm-Forster, University of Delaware; David J. Pannell, University of Western Australia*

Predicting Adoption of Innovations by Farmers: How is it Different in Smallholder Agriculture?

Rick S. Lewellyn, Commonwealth Scientific and Industrial Research Organisation, Australia; *Brendan Brown, International Maize and Wheat Improvement Center (CIMMYT), Nepal*

Profit Maximization as a Guide to Behavior Change

Alfons Weersink, University of Guelph; *Murray E. Fulton, University of Saskatchewan*

What Explains Different Findings About the Determinants of Agricultural Conservation Adoption? A Meta-Analysis

Ben Gramig, University of Illinois at Urbana-Champaign; *Linda S. Prokopy, Purdue University; Kristin Floress, U.S. Forest Service*

1018 The Front-Door Criterion in Theory and in Practice

Suite 3803, 38th Floor

Track Session - Econometrics Section

When it comes to identifying causal effects with observational data, most researchers are familiar with the usual suspects, viz. randomized controlled trials, selection on observables, instrumental variables, difference-in-differences, regression discontinuity designs, and synthetic control methods. With the publication of Pearl's Book of Why last year, however, a new method—the front-door criterion (FDC)—has been introduced to a broader audience. Though the FDC relies on strong assumptions about unobserved confounders, it can be successfully used to learn about causal effects, as shown by Glynn and Kashin (JASA 2018). In this session, Prof. Adam Glynn (Emory University) will introduce the FDC to members of the agricultural and applied economics profession, discussing both the theory and some applications of this new method as well as some extensions.

Organizers: Marc F. Bellemare, University of Minnesota; Adam Glynn, Emory University

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

1019 Washington Policy Outlook

M104, Marquis Level

Track Session - Extension 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

Perspectives from the House Agriculture Committee, Minority

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

Perspectives from the Senate Agriculture Committee

Matt Erickson, *Senate Agricultural Committee*

Perspectives from USDA

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

Perspectives from the House Agriculture Committee, Majority

Katie Zenk, *House Agriculture Committee*

1020 WTP: And then What!? - Lightning Session

M304, Marquis Level

Track Session - EXECON & FAMPS Sections

The literature using experimental methods (choice experiments, laboratory and field experiments) to estimate preferences for food attributes and labelling types is ever larger, but it appears to be facing a crisis of relevance. As experimental methods have become more common and widely adopted, so did the number of studies whose primal contribution is the mere estimation of WTP, with limited attention to other policy inputs and/or practical implications. This lightning session presents 8 studies where estimation of consumer preferences are employed as a means to directly address a specific policy problem. Presentations will follow a common format, emphasizing the framing of the research question and the policy inference to be drawn.

Organizers: Marco Costanigro, Colorado State University; Christiane Schroeter, California Polytechnic State University, San Luis Obispo

Using State Preference Techniques and Experimental Auction Methods: A Review of Advantages and Disadvantages for Each Method in Examining Consumer Preference for New Technology

Jill J. McCluskey, *Washington State University*; *Wallace E. Huffman*, *Iowa State University*

WTP, Cost, and Market Impacts of a Transition to Slow Growth Broilers

Jayson L. Lusk, *Purdue University*; *Nathanael M. Thompson*, *Purdue University*

WTP and Wellness Incentive Programs: What Does it Take?

Christiane Schroeter, *California Polytechnic State University, San Luis Obispo*

Types of Front of Pack Food Labels: Do Obese Consumers Care? Evidence from Northern Ireland

Riccardo Scarpa, *University of Waikato*; *Mara Thiene*, *University of Padova*; *Alberto Longo*, *Queen's University Belfast*; *George Hutchinson*, *Queen's University Belfast*

Predicting Consumer Policy Preferences using Economic Experiments

Vincenzina Caputo, *Michigan State University*; *Jayson L. Lusk*, *Purdue University*

Including Price in a Choice Experiment without the Intention to Estimate WTP

Brandon R. McFadden, *University of Delaware*

When WTP Shows that Consumers Don't Want "Environmentally Friendly" Food: Informing the Use of Recycled Irrigation Water

Kent D. Messer, *University of Delaware*; *Sean Ellis*, *University of Delaware*; *Maik Kecinski*, *University of Alberta*; *Tongzhe Li*, *University of Windsor*; *Olesya Savchenko*, *University of Delaware*

Introducing the Chianti Classico Gran Selezione: Winners, Losers and Changes in Quality Perceptions

Marco Costanigro, *Colorado State University*; *Gabriele Scozzafava*, *University of Florence*; *Leonardo Cassini*, *University of Florence*

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

1021 Addressing Policy Challenges Using Administrative Data: Applications in the WIC Program

M303, Marquis Level

Track Session - FAMPS & FSN Sections

Micro-Level administrative data are an increasingly common and valuable input for policy-relevant applied economics research. This session presents several applications that use administrative data from U.S. states on food benefit transactions in the Women, Infants, and Children (WIC) Program. The WIC Program is the third largest USDA food assistance program providing benefits to low-income and nutritionally at-risk pregnant, breastfeeding, and post-partum women; infants; and children up to age 5. The program is far-reaching, typically covering roughly half of all infants nationwide, and thus successful operation of the program may have a significant impact on public health. Containment of food costs, encouraging program participation, and meeting desired dietary outcomes are examples of WIC policy challenges that administrative data can help address. This session will also highlight successes and challenges, and discuss how policy research interfaces with the work of practitioners.

Organizers: Xuemei Li, University of California, Davis; Patrick W. McLaughlin, USDA-Economic Research Service

Discussant: Mark Denbaly, USDA-Economic Research Service

Cost Containment and Participant Access in the WIC Program: Evidence from the Greater Los Angeles Area

Richard J. Sexton, University of California, Davis; **Michelle Saksena**, USDA-Economic Research Service; **Patrick W. McLaughlin**, USDA-Economic Research Service; **Tina L. Saitone**, University of California, Davis; **Meilin Ma**, Purdue University; **Richard J. Volpe III**, California Polytechnic State University, San Luis Obispo; **Qi Wu**, University of California, Davis

Electronic Transfer and WIC Program Food Costs: Evidence from the Oklahoma EBT Transition

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

WIC Cash Value Voucher (CVV) Redemption Choices in Electronic Benefit Transfer (EBT) Era

Patrick W. McLaughlin, USDA-Economic Research Service; **Qi Zhang**, Old Dominion University; **Kayoung Park**, Old Dominion University; **Junzhou Zhang**, Old Dominion University; **Chuanyi Tang**, Old Dominion University; **Brian W. Stacy**, USDA-Economic Research Service

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

1022 Pre-Analysis Plans and Research Design in Development Economics

Suite 3819, 38th Floor

Track Session - Africa, Econometrics, & International Sections

It is becoming more and more common for researchers to prepare and file pre-analysis plans before implementing experiment-based research projects. This is especially true for researchers conducting impact evaluations in developing countries. Pre-analysis plans offer researchers the opportunity to declare their hypotheses and methodologies in advance, which can lead to greater transparency in data analysis and an improved record of studies, including those that lead to null results. In addition to improving research transparency and validity, preparing a pre-analysis plan can help researchers to design better experiments and to solicit feedback on research design and methodology from peers. If such feedback is received early enough in the planning process, researchers can act on it. If the same feedback is received when researchers are presenting results from completed experiments, on the other hand, little can be done to address methodological problems. Despite the high value of feedback on research design and methodology, researchers have very few venues to present research plans. This session seeks to create an innovative platform for researchers to present and exchange feedback on experimental research in the field of development economics. Each of the four proposed papers involves an impact evaluation planned to begin after August 2019. The session will consist of four brief presentations focused on research design and methodology, with presenters providing very brief discussant comments on each others' papers. Following the presentations, an additional discussant will facilitate a discussion with the presenters and audience about the role that peer exchange around pre-analysis plans can play in development economics.

Organizer: Ellen McCullough, University of Georgia

Moderator: Ellen McCullough, University of Georgia

Increasing Smallholder Farmers' Incentives to Maintain Quality: Experimental Evidence from Western Kenya

Jacob Ricker-Gilbert, *Purdue University*

Plot Size Misperceptions and Input Optimization: Experimental Evidence from Kenya

Andrew M. Simons, *Fordham University*; *David Murphy*, *University of Evansville*

Insuring Farmers Through Credit: Linking Smallholders to Financial Markets with Bundled Products

Conner C. Mullally, *University of Florida*; *Nicholas Magnan*, *University of Georgia*; *Sarah A. Janzen*, *Kansas State University*

Her Time: Measuring Women's Time Use in Ethiopia

Ellen McCullough, *University of Georgia*; *Tamara McGavock*, *Grinnell College*; *Girum Abebe Tefera*, *Ethiopian Development Research Institute*; *Nicholas Magnan*, *University of Georgia*; *Thomas Assefa*, *University of Georgia*

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

1023 The Effect of Government Policies, Investments in Education, and Producers' Decision to Diversify on the Economic Efficiency of the Agricultural Sector in Latin America

M108, Marquis Level

Track Session - LAS Section

Important changes have occurred in the agricultural sector of Latin America in the last decade. The aim of this session is to shed light on economic efficiency, technical efficiency, and productivity changes in the agricultural sector. The first paper evaluates economies of scope in the production technology of diverse agro-ecological zones in Bolivia. The remaining papers evaluate the impact of government policies, international factors, and investment in extension and education on the agricultural productivity in Brazil, Ecuador, and Bolivia. Papers in this session will also provide insight into growth opportunities in the region.

Organizer: Graciela C. Andrango, Western Illinois University

Moderator: Graciela C. Andrango, Western Illinois University

Economies of Scope in Bolivian Agriculture

Travis McArthur, University of Florida; **Bradford L. Barham**, University of Wisconsin-Madison; **Jean-Paul Chavas**, University of Wisconsin-Madison

Agricultural Productivity and Technical Efficiency in Brazil at the State Level: Assessing Determinants of Change

Ana Claudia Sant'Anna, The Ohio State University; **Humberto F.S. Spolador**, University of São Paulo; **Jason S. Bergtold**, Kansas State University

Productivity, Technical Efficiency and Well-Being: Lessons from the Policy of Expansion and Improvement of the Educational Services in Ecuador

Ivan M. Borja, Universidad San Francisco de Quito; **Sebastian Oleas**, Universidad San Francisco de Quito

Municipality Agricultural Productivity in Bolivia: A Stochastic Frontier Approach

Brisa Rejas, Inter-American Development Bank; **Felipe De Figueiredo Silva**, University of California, Berkeley; **Juan M. Murguía**, Inter-American Development Bank

1024 The Future of Institutional Organization and Support of Applied Economics

M105, Marquis Level

Track Session - NAAEA & Senior Sections

Policymakers require objective information to design evidence-based policies. There is worldwide concern over the lack of appreciation for objective scientific facts and analysis. In turn, this has led to portions of our citizenry losing trust in our government and research institutions and concern about threats to our democracy. What do these developments imply for Applied Economics analysis and the concomitant development of statistical evidence? While there are implications at the individual economist level, it is an especially critical time for institutions to consider their role in promoting fact-based information, and for the discipline, at large, to consider the issues. This session will explore how the major institutions whose missions align with the scope of the issues of focus by the AAEA—agriculture, food, rural development, and the environment—can address the challenge to meet their mission of public service.

Organizers: Mary Clare Ahearn, Economic Consultant; Neilson C. Conklin, Farm Foundation; Robbin Shoemaker, National Institute of Food and Agriculture

Moderator: Helena Bottemiller Evich, Politico

Universities of the Future and Implications for Applied Economists

Michael Martin, Florida Gulf Coast University

Future Needs of Government Statistical and Program Agencies for Applied Economic Analysis

Katherine S. Evans, American Economic Association

Policy Decisions in the Private Sector—Need For Analytical Support

Robert Young II, Agricultural Prospects

University Economists as Providers and Interpreters of Evidence-Based Scientific Advice to Government Agencies

Kevin J. Boyle, Virginia Tech

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

1025 Increasing Student Engagement and Attracting Talent in a Changing Academic Environment - Lightning Session *M301, Marquis Level*

Track Session - AEM & TLC Sections

Demand for well-trained college graduates with a degree from agricultural programs continues to increase. An estimated 57,900 high-skilled job openings in the food, agriculture, renewable natural resources, and environment fields are added annually in the United States (USDA, 2015). How can we successfully attract and retain talent, and engage our students in agriculture in a meaningful way under changing academic structures that often mean larger class sizes or moving instructions online? More specifically, how can we use technology to foster hands-on experiences, utilize peer learning to stimulate student interest, and use group projects to allow students to tackle real world problems? Teaching scholars will share their experiences to provide answers to these questions. Presenters will share specific teaching approaches embedded in a moderated discussion that allows audience members to actively engage with all session participants.

Organizers: Kristin Kiesel, University of California, Davis; Katherine M. Lacy, University of Nevada, Reno

Moderator: Kristin Kiesel, University of California, Davis

Interacting with Agricultural Policy: The Use of Twitter to Stimulate Student Interest and Engagement with Agriculture, Enhance Critical Thinking, and Promote Effective Communication

Julianne Treme, North Carolina State University

Teach Locally, Ag. Globally: Assessment of Three Classroom Practices to Engage Students in Global Agriculture

Na Zuo, University of Arizona; **Anna Josephson**, University of Arizona; **Dan Scheitrum**, University of Arizona

The Farm Credit Fellows Program: Collaborations with Industry to Enhance Learning

Erik Hanson, North Dakota State University; **Ryan Larsen**, Utah State University

Peer-Based Learning: The Use of Group Projects, Clickers, and Instructional Videos to Increase Student Engagement in Large Classes

Kristin Kiesel, University of California, Davis

Skill Builders: Using Small Group In-Class Assignments for Enhanced Learning and More Meaningful Lectures in Large Classes

Andrew P. Barkley, Kansas State University

Minimizing Chaos: Teaching with Experiments in Large Classes

Katherine M. Lacy, University of Nevada, Reno

Increased Student Involvement in Online Classes: The Use of Diverse Student Evaluation Tools

Luis M. Peña-Lévano, University of Florida

Putting EdTech to the Test: Experiences with the AI-assisted Discussion Board Tool Packback

Zoë Plakias, The Ohio State University; **Anna Parkman**, The Ohio State University

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

1026 Novel Experimental Approaches Exploring Factors Influencing Consumer Choices of Healthier Food Options M102, Marquis Level

Invited Paper

This session is designed to focus on latest developments in the experimental approaches investigating consumer choices of healthier food options. The overall focus of the session is how novel experimental approaches can help in exploring the determinants of healthier food consumption. This session will be devoted to the discussion of the following three main topics: (1) a meal-based experimental approach, where consumer demand is elicited through a novel experimental setting; (2) consumer acceptance of burgers with substituted meat under different information scenarios; and (3) the influence of dynamic feedback on fast food choices.

Moderator: Jutta Roosen, Technical University of Munich

Discussant: Nadia A. Streletskaya, Oregon State University

Assessing Consumer Demand for Plant Versus Meat-Based Foods: A Meal-based Food Choice Experiment Approach

Vincenzina Caputo, Michigan State University; Jayson L. Lusk, Purdue University

Factors Influencing Consumers Acceptance of A New Meat-Mushroom Burger

Giovanni Sogari, University of Parma; Jie Li, Cornell University; Michele Lefebvre, Cornell Dining; Shihua Huang, Cornell University; Cristina Mora, University of Parma; Miguel I. Gomez, Cornell University

See What You Eat: Fast-food Choices of Young Adults in an Experiment with Dynamic Feedback

Irina S. Dolgoplova, Technical University of Munich; Jutta Roosen, Technical University of Munich

1027 Agricultural and Food Supply Chain Dynamics under Changing Market and Policy Environments: Leveraging New Data and Geographic Approaches to Explore Employment Dynamics M103, Marquis Level

Organized Symposium

The food and agriculture supply chain has undergone remarkable evolution over the past three decades. This session highlights how researchers are utilizing relatively new or enriched economic data that enhance publicly available sets, all of which take unique approaches to study the evolution of geographic dynamics of upstream and downstream agricultural and food supply chains. One panelist will present work on the locational determinants of food manufacturing across the U.S., exploring how farm-based direct sales and other indicators of local food systems may spillover into the birth rate of food manufacturing establishments. Another panelist will explore whether a relatively recent food market policy intervention, Cottage Food laws, may influence the birth rate, survival and/or employment growth of food manufacturers in those states where they have been enacted. Subsequent discussion will highlight future directions for the work with food manufacturing, retail and food-away-from home data including opportunities for work in agribusiness, rural development and geographic elements of industrial organization.

Organizer: Dawn D. Thilmany McFadden, Colorado State University

Moderator: Dawn D. Thilmany McFadden, Colorado State University

Discussant: Dawn D. Thilmany McFadden, Colorado State University

The Geography of Foodies: Exploring the Influence of Place-based Factors on the Relocalization and Employment Dynamics of Food Manufacturing Establishments

Sarah A. Low, University of Missouri; Dawn D. Thilmany McFadden, Colorado State University; Marcelo J. Castillo, USDA Resource and Rural Economics Division; Martha Bass, University of Missouri

Do Cottage Food Laws Reduce Barriers to Entry for Food Manufacturers?

Jeffrey K. O'Hara, USDA-Agricultural Marketing Service; Dawn D. Thilmany McFadden, Colorado State University; Marcelo J. Castillo, USDA Resource and Rural Economics Division

Economic Dynamism: Comparing Urban and Rural Regions of the United States Author(s), Including Institutional Affiliation and Contact Information:

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

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

1028 The Role of Economic Theory in Empirical Analysis

M101, Marquis Level

Organized Symposium

This session explores the role of economic theory in empirical analysis. Each presenter will begin with some general comments on the role of theory in empirical analysis, and then present a research paper to illustrate how the theory informs the empirical analysis. The presentation would not focus on the theoretical model per se nor the empirical results, but rather on how the one informs the other, i.e., the link between the two.

Organizers: Corbett Grainger, University of Wisconsin-Madison; JunJie Wu, Oregon State University

Moderator: JunJie Wu, Oregon State University

Combining Theoretical and Empirical Analysis to Evaluate Voluntary Environmental Programs with Spillover Effects

Kathleen Segerson, *University of Connecticut*

The Role of Theory for the Modern Empirical Researcher

David A. Keiser, *Iowa State University*

Quantifying Heat Waves and Their Effect on Economic Activity

Steve Miller, *University of Minnesota*

1029 Ag Finance and Farm Management - Issues in Farmland Valuation and Cash Rents

Suite 3824, 38th Floor

Selected Presentation

This session will cover issues concerning farmland valuation and cash rental rates.

Preferential Agricultural Property Tax's Impact on Land Values

Robert Dinterman, *The Ohio State University*

Revisiting the Incidence of Government Programs on Illinois Cash Rental Market

Juo-Han Tsay, *University of Illinois at Urbana-Champaign*; **Nick Paulson**, *University of Illinois at Urbana-Champaign*

Factors Affecting Heterogeneous Agricultural Land: The Case of Kentucky

GwanSeon Kim, *University of Kentucky*; **Tyler B. Mark**, *University of Kentucky*

1030 Consumer Preferences and Willingness-to-Pay for Product Attributes

Suite 3839, 38th Floor

Selected Presentation

Attributes affect the prices that consumers are willing to pay for products. Understanding how product attributes affect demand for and prices of foods has implications for food regulations in the United States and other countries. This session examines the effects of product attributes on price premiums and price sensitivity.

Moderator: Jonathan G. Malacarne, University of California, Davis

U.S. Demand for Plant-Based Dairy Alternative Beverages: A Hedonic Metric Approach

Ye Su, *University of Nebraska-Kearney*; **Tingyi Yang**, *Texas A&M University*; **Senarath Dharmasena**, *Texas A&M University*

Look Inside a Seed: An Analysis of the Demand of Traits in the U.S. Corn Seed Market

Huichun Sun, *Zhongnan University of Economics and Law*; **Terrance M. Hurley**, *University of Minnesota*

Measuring Consumer Preference for Clean Label in Processed Foods

Kara R. Grant, *Washington State University*; **Karina Gallardo**, *Washington State University*; **Jill J. McCluskey**, *Washington State University*

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

1031 Food Security in Developing Areas

Suite 3919, 39th Floor

Selected Presentation

The number of hungry people is approaching one billion, and essentially all of those people live in developing areas. A high proportion of income is devoted to food consumption in these countries. The promising news is that well-targeted interventions have the ability to make a large impact. This session combines seven studies from various countries to examine the effectiveness of several interventions, which will provide attendees with a robust understanding of how to increase food security in developing areas.

Moderator: Shruti Mishra, Argonne National Laboratory

Does Food Insecurity Cause Civil War in Sub-Saharan Africa?

Ashok K. Mishra, Arizona State University; **Sébastien Mary**, University of Kansas

Impact of Agricultural Input Subsidies on Food Security: The National Agricultural Input Voucher Scheme in Tanzania

Srabashi Ray, Oregon State University

Food Security Options for Ethiopia: A Fuzzy Logic Approach

Precious M. Tshabalala, Universiti Putra Malaysia; Shaufique F. Siddique, Michigan State University

Entrepreneurship and Household Food Security in Malawi

Henry Kankwamba, University of Bonn; Lukas Kornher, University of Kiel

Association Between Iron Deficiency Anemia and Wages in India: A Secondary Data Analysis

Sanchit Makkar, St. John Research Institute; Sumedha Minocha, St. Johns Research Institute; Kishor G. Bhat, St. Johns Research Institute; Anjaly Teresa John, St. Johns Research Institute; Sumathi Swaminathan, St. Johns Research Institute; Tinku Thomas, St. Johns Medical College; Venkatesh Mannar, University of Toronto; Anura V. Kurpad, St. Johns Medical College

Market Participation of Nepalese Staple Crop Producers and the Value Of Shadow Prices

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

1032 Farm to School Program and Food Security

Suite 3924, 39th Floor

Selected Presentation

Increasing fruit and vegetable consumption is challenging for the average individual. The challenge is amplified for children and citizens in remote locations. Policies, like subsidies, and programs, like Farm-to-School, should either increase quantity demanded or shift demand for fruits and vegetables by lowering prices or changing preferences. However, the effectiveness of these types of policies and program is an empirical question. This session seeks to inform attendees about the effectiveness of policies and programs designed to influence demand by increasing food security and access to nutritious foods.

Moderator: Benjamin Y. Avuwadah, University of Florida

Assessing the Effect of Food Retail Subsidies on the Price of Food in Remote Aboriginal Communities: A Case Study of Canada's Nutrition North Subsidy Program

Jamie M. Naylor, University of Guelph; B. James Deaton Jr., University of Guelph

The Impacts of Introducing a Farm to School Program on National School Lunch Program Participation and Selection of Salads

Benjamin Y. Avuwadah, University of Florida; Jaclyn D. Kropp, University of Florida

Farm-to-School Programs and Local Agricultural Revenues

Garrett W. Austin, Georgia State University

Optimal Local Foods Procurement in the National School Lunch Program: An Analysis of Potential Impacts of Farm to School Policies on Procurement Practices.

Abby Long, Colorado State University; Becca B. R. Jablonski, Colorado State University; Marco Costanigro, Colorado State University; W. Marshall Frasier, Colorado State University

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

1033 The Economics of Nutritional Outcomes in Developing Countries

L401, Lobby Level

Selected Presentation - Discussant Test Session

In developing countries access to higher quality nutrition can be influenced by market access, prices, policies, environmental conditions, even household context. In this session, the papers address the role of food subsidies, soil quality, remoteness, and refrigerators in shaping nutritional outcomes or health endpoints. Collectively, these papers point to ways that current or future policies and programs can improve the wellbeing of individuals in developing countries.

Moderator: Mariah D. Ehmke, University of Wyoming

Do Food Subsidies Improve Nutrition?

Aditya Shrinivas, *University of Illinois at Urbana-Champaign*

Soils and South Asian Stunting: Low Soil Zinc Availability Drives Child Stunting in Nepal

Kichan Kim, *The Ohio State University*; **Leah EM Bevis**, *The Ohio State University*

Do remote Rural People Pay Higher Prices for more Nutritious Foods? Evidence from 130,975 Price Observations at Rural Markets in Malawi, 2007-2017

Stevier Kaiyatsa, *Lilongwe University of Agriculture and Natural Resources*; **William A. Masters**, *Tufts University*; **Yan Bai**, *Tufts University*; **Kate Schneider**, *Tufts University*; **Anna Herforth**, *Independent Consultant*

Childhood Development and Nutrition: What is the Role of Refrigerators?

Sebastian W. Martinez, *Inter-American Development Bank*; **Juan M. Murguía**, *Inter-American Development Bank*; **Sara S. Winters**, *Inter-American Development Bank*; **Brisa Rejas**, *Inter-American Development Bank*

1034 Intra-Household Labor Allocation and Bargaining

Suite 3934, 39th Floor

Selected Presentation

This session examines how farm households make labor and resource allocation decisions and various aspects of intra-household bargaining.

Moderator: Matthew J. Klein, University of Wisconsin-Madison

Crop Loss Shocks and Intra-household Labour Allocation of Husbands and Wives; Evidence from Uganda

Peter Agamile, *The University of Manchester*

Point Estimates of Bargaining Power Using Outside Options

Matthew J. Klein, *University of Wisconsin-Madison*; **Bradford L. Barham**, *University of Wisconsin-Madison*

The Intra-Couple Wealth Gap in Ecuador

Boaz Anglade, *University of Florida*; **Pilar Useche**, *University of Florida*

Behind Every Farmer: Women's Off-farm Income and Risk Management for U.S. Farms

Margaret C. Jodlowski, *Cornell University*

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

1035 Industrial Organization/Supply Chain Management - Lightning Session

Suite 3939, 39th Floor

Selected Presentation - Lightening Session

This session discusses the latest theoretical and empirical findings in industrial organization/supply chain management.

Moderator: Ian M. Sheldon, The Ohio State University

Dynamic Model of Mergers and Pricing in the Beer Industry

Timothy J. Richards, Arizona State University; **Bradley J. Rickard**, Cornell University

Designing Vertical Linkages to Reduce Food Loss

Alwin Dsouza, Arizona State University; **Scott Webster**, Arizona State University; **Ashok K. Mishra**, Arizona State University

Price Premium for Geographically Labelled Food: The Case of the Wisconsin Fresh Potatoes

I-Chun Chen, University of Wisconsin-Madison; **Paul D. Mitchell**, University of Wisconsin-Madison; **Xiaodong Du**, University of Wisconsin-Madison

Farmers, Traders, and Processors: Estimating the Welfare Loss from Double Marginalization for the Indonesian Rubber Sector

Thomas Kopp, University of Göttingen; **Richard J. Sexton**, University of California, Davis

Brexit: Will it be a Game of 'Chlorinated Chicken'?

Ian M. Sheldon, The Ohio State University

Competing with Fad Products: Erroneous Health Beliefs and Market Outcomes

Christoph Bauner, University of Massachusetts, Amherst; **Nathalie Lavoie**, University of Massachusetts, Amherst

The Effect of Public Online Disclosure of Restaurant Inspection Hygiene Scores in the LIVES program: A Difference-in-Difference and Geographic Regression Discontinuity Approach

Shuiqin Yu, Colorado State University; **Marco Costanigro**, Colorado State University

Economic Analysis of Oklahoma's Potential as a Bioenergy Producer Based on the Optimization of a Blended Lignocellulosic Biomass Feedstock Supply Chain

Heydi J. Calderon Ambelis, Oklahoma State University; **Rodney B. Holcomb**, Oklahoma State University

1036 International Development - Climate Change

Suite 4003, 40th Floor

Selected Presentation

These papers study the effects of climate change on agriculture, nutrition, firm activity, and conflict.

Moderator: Aslihan D. Spaulding, Illinois State University

Temperature & Children's Nutrition: Evidence from West Africa

Sylvia Blom, Cornell University; **Ariel Ortiz-Bobea**, Cornell University; **John Hoddinott**, Cornell University

Climate and Tropical Cyclone Effects on Economic Activity: Evidence at the Firm Level from Mexico

Miriam Juarez-Torres, Bank of Mexico; **Jonathan E. Puigvert**, Bank of Mexico

Does irrigation Mitigate the Effect of Rainfall Shocks on Conflict? Evidence from Indonesia

Nicolas Gatti, University of Illinois at Urbana-Champaign; **Kathy Baylis**, University of Illinois at Urbana-Champaign; **Benjamin Crost**, University of Illinois at Urbana-Champaign

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

1037 International Trade - Trade Impacts on Food Security

Suite 4019, 40th Floor

Selected Presentation - Discussant Test Session

This session discusses the impact of trade on food security in developing countries.

Moderator: Bowen Chen, Kansas State University

Political Instability, Food Supply Disruptions and Food Security in a Highly Import-dependent Economy

Simeon Kaitibie, Lincoln University; **Patrick Irungu**, University of Nairobi

The Asymmetric Effects of Foreign Supply Shocks on Domestic Price Stability: An Application to Maize Markets in Developing Countries

Bowen Chen, Kansas State University; **Nelson B. Villoria**, Kansas State University

Trade Dynamics and Duration of Chinese Food Imports

Bixuan Yang, University of Florida; **Frank Asche**, University of Florida; **James L. Anderson**, University of Florida

Southeast Asia's Growing Meat Demand, Livestock Production and Feed Demand: Assessing Impact on Domestic and Global Trade Markets

Karen E. Thome, USDA-Economic Research Service; **James M. Hansen**, USDA-Economic Research Service; **Tani Lee**, USDA-Economic Research Service

1038 Conservation and Payments for Ecosystem Services

Suite 4024, 40th Floor

Selected Presentation

This session includes a mix of papers on conservation policy and payments for ecosystem services schemes. While some analyses focus on policy design, others focus on outcomes such as food security.

Moderator: Serge G. Adjognon, The World Bank Group

Worshipping the Tiger: The Importance of Existence Values for Conservation Policies

Shadi S. Atallah, University of New Hampshire; **Adrian Lopes**, Bates College

Optimal Conservation in A Public Agency Framework

Ian H. Luby, University of Minnesota

Can Payments for Ecosystem Services (PES) Deliver Food Security Outcomes?

Serge G. Adjognon, The World Bank Group; **Daan Van Soest**, Tilburg University

Spatial Targeting of Payments for Ecosystem Services Under Growth Uncertainties

Seong-Hoon Cho, University of Tennessee; **James Mingie**, University of Tennessee

1039 Agricultural Productivity and Growth

Suite 4039, 40th Floor

Selected Presentation

Papers in this session examine the growth in agricultural productivity and various factors impacting the growth.

Moderator: David C. Hall, University of Calgary

Is Global Agriculture Growing More Resilient to Climatic Shocks?

Ariel Ortiz-Bobea, Cornell University; **Robert G. Chambers**, University of Maryland; **David Lobell**, Stanford University

Has Agricultural Yield Growth Decelerated?

John Baffes, World Bank; **Xiaoli L. Etienne**, West Virginia University

Induced Innovation in South American Agriculture: Acemoglu's Directed Technical Change

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

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

1040 Environmental Policy Analysis - Lightning Session

Suite 3903, 39th Floor

Selected Presentation - Lightning Session

This lightning session includes papers that evaluate policies and programs targeting household waste and recycling, carbon dioxide reduction, water conservation, air pollution, biofuels, and hidden surprises in housing markets.

Moderator: Hou Lingling, Peking University

Underground Lemons: The Effect of Time of Sale Regulations on the Housing Market

April Athnos, Michigan State University

Waste Reduction from a Mandatory Recycling and Unit-Based Pricing: Quasi-experimental Evidence from Taiwan

Yu-Kai Huang, Texas A&M University; Reid Stevens, Texas A&M University; William D. Shaw, Texas A&M University

Climate Change Policy: Dynamics, Strategy, and the Kyoto Protocol

Saleh Zakerinia, Cornell University; C.-Y. Cynthia Lin Lawell, Cornell University

Bioplastics and Biofuel Policy in the EU – Impacts and Interactions

Xinqi Zhu, Technical University of Munich; Johannes Sauer, Technical University Munich; Thomas J. Venus, Technical University Munich; Maria Vrachlioli, Technical University of Munich; Dušan Drabik, Wageningen University

Biofuels Policy and Innovation Impacts: Evidence from Biofuels and Agricultural Patent Indicators

Kelly Nelson, North Carolina State University; Zachary S. Brown, North Carolina State University; Lee Parton, Boise State University

The Energy-Water Nexus in Developing Country Agriculture: Equity-Efficiency Tradeoffs of Electricity Tariff Reform

Juan Pablo Sesmero, Purdue University; Jonathan Bauchet, Purdue University

The Impact of High Renewable Energy Mandates on Water Use in Electricity Generation

Michael E. Reed, West Virginia University; Levan Elbakidze, West Virginia University

Solar Initiatives in the Sunshine State: Analysis of 2016 Florida Amendment Votes

Ritika Khurana, West Virginia University; Levan Elbakidze, West Virginia University

1041 Energy Market and Regulations

Suite 3819, 38th Floor

Selected Presentation - Discussant Test Session

Papers in this section focus on energy market and the impact of various regulations on the market.

Moderator: Iman Haqiqi, Purdue University

Costs of Energy Efficiency Mandates Can Reverse the Sign of Rebound

Don Fullerton, University of Illinois at Urbana-Champaign; **Chi L. Ta**, University of Illinois at Urbana-Champaign

Effect of Transmission Integration on Prices of Congestion Revenue Rights: Evidence from the Texas Electricity Market

Gaurav Doshi, University of Wisconsin-Madison; Sheldon Du, University of Wisconsin-Madison

What Drives the Effects of Renewable Portfolio Standards on Emissions and Renewable Deployment?: Theory and Empirical Analysis

Fullerton Don, University of Illinois at Urbana-Champaign; **Chi L. Ta**, University of Illinois at Urbana-Champaign

Repeal of the Clean Power Plan: Who Gains and Who Loses?

Xiaoguang Chen, Southwestern University of Finance and Economics; Weiwei Wang, University of Illinois at Urbana-Champaign; Anthony Oliver, South Coast Air Quality Management District; **Madhu Khanna**, University of Illinois at Urbana-Champaign

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

1042 Social Norms and Social Networks in Agricultural Markets and Technology Adoption

M302, Marquis Level

Track Session - Africa & International Sections

Papers in this session explore the role of social networks and social norms in agricultural market development and technology adoption. Using a combination of theoretical analysis, lab-in-the field methods, and randomized controlled trials, these papers test for the presence of social interaction effects and assess the importance of such forces. The first paper focuses on the role of cooperative-enhancing norms in Haitian water markets; the second paper considers inequality-averse social norms in land markets in Malawi; the third paper considers gender-dependent social networks and their role in demand for a new agricultural technology in India; and the fourth paper studies links between social networks and altruism, and how these links affect sharing between farmers in Ghana.

Organizer: Hope Michelson, University of Illinois at Urbana-Champaign

Moderator: Bradford L. Barham, University of Wisconsin-Madison

Collective Action in Games as in Life: Experimental Evidence from Canal Cleaning in Haiti

Abbie Turiansky, *Mathematica*

Social Norms in the Land Rental Market: Evidence from Malawi

Kwabena Krah, *University of Illinois at Urbana-Champaign*; Hope Michelson, *University of Illinois at Urbana-Champaign*; Annemie Maertens, *University of Sussex*; Wezi Mhango, *Lilongwe University of Agriculture and Natural Resources, Malawi*; Vesall Nourani, *Cornell University*

Information Networks, Intra-household Bargaining, and the Demand for an Agricultural Technology in India

Kajal Gulati, *IMPAQ International, LLC*; Nicholas Magnan, *University of Georgia*; David J. Spielman, *International Food Policy Research Institute*; Travis J. Lybbert, *University of California, Davis*

Altruism, Insurance, and Costly Solidarity Commitments

Christopher B. Barrett, *Cornell University*; Vesall Nourani, *Cornell University*; Tom Walker, *The World Bank*

1043 Farm Regulation and the Agricultural Economy

M104, Marquis Level

Track Session - AUS Section

California agribusinesses face increasingly burdensome regulations. This session describes several regulatory studies underway in California. The first presents a broad overview of the regulatory environment in the San Joaquin Valley, the most productive agricultural region in the U.S., and compares the regulatory cost changes between 2012 and 2018. Another presentation analyzes the implications of the Sustainable Groundwater Management Act, California's first effort to regulate groundwater. SGMA is administered by local Groundwater Sustainability Agencies, which will bear the cost of regulation. Finally, a structural change in dairy policy that allows California to abandon its milk marketing order and join the Federal MMO is examined. This presentation explores whether California dairy producers' prospects improve or further deteriorate under the new Federal milk price system, and whether a dairy market free of pricing regulations would be a better option.

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

The Changing Landscape of California Agriculture: Implications of Increasing Regulatory Costs

Michael P. McCullough, *California Polytechnic State University, San Luis Obispo*; Lynn L. Hamilton, *California Polytechnic State University, San Luis Obispo*

California's SGMA Legislation: New Regulations, New Costs

Duncan MacEwan, *ERA Economics LLC*; Kabir Tumber, *University of California, Davis*; Richard E. Howitt, *University of California, Davis*; Jay Noel, *ERA Economics*

Shifting Price Regulations Affected California Dairy Outcomes and Prospects? From C-MMO to F-MMO and What About NO-MMO?

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

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

1044 Broadband and Rural America

M108, Marquis Level

Track Session - AFT & CRENET Sections

While evidence is growing about the economic and social importance of broadband in rural locations, many questions still remain. Very high speed networks are becoming common, and mobile Internet use has overtaken the traditional wireline connection. This session explores a variety of issues associated with rural broadband, including if faster speeds encourage business startups; whether housing prices in rural areas show a broadband premium; the socio-economic impacts associated with rural library hotspot loan programs; and whether a rural/urban digital skill gap exists. The rural library and digital skills papers have explicit links to extension work, where county educators are important components in setting up and running programs. The findings related to other aspects of economic development (housing prices, business growth) will be useful for extension and research personnel seeking a better understanding of the implications of being left behind in an increasingly connected world.

Organizer: Brian E. Whitacre, Oklahoma State University

Home is Where the Internet Is? High Speed Internet's Impact on Rural Housing Values in Oklahoma
*Kelsey L. Conley, Oklahoma State University; **Brian E. Whitacre**, Oklahoma State University*

Rural Library Hotspot Lending in Tennessee
Sreedhar Upendram, University of Tennessee

Broadband and Entrepreneurship: Do Faster Speeds Mean More Start-Ups?
*Tessa Conroy, University of Wisconsin-Madison; **Steven C. Deller**, University of Wisconsin-Madison; Brian E. Whitacre, Oklahoma State University*

The Digital Readiness Index: Documenting a Rural – Urban Gap in Digital Skills
Roberto Gallardo, Purdue University

1045 How Should Econometrics Be Taught?

M105, Marquis Level

Track Session - Econometrics Section

There has been a great deal of discussion how econometrics should be taught following Angrist and Pischke's (2017) NBER working paper on this topic. The goal of this session is to present a discussion between econometrician Dave Giles (University of Victoria) and Marc Bellemare (University of Minnesota), both of whom are known for writing accessibly about econometrics. More importantly, they are known respectively for being against and for the "cookbook" approach to teaching econometrics. Given that the comparative advantage of many agricultural and applied economics departments within their home institution is in the application of econometrics, what is the right balance between the two approaches for students in those departments? This session will address those issues in opening remarks by both presenters (40 minutes), and it will feature an extensive Q&A session with the audience (50 minutes).

Organizer: Marc F. Bellemare, University of Minnesota

Against the Cookbook Approach to Econometrics
Dave Giles, University of Victoria

In Favor of the Cookbook Approach to Econometrics
Marc F. Bellemare, University of Minnesota

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

1046 Recent Advances in Regional and Global GIS Modeling to Determine Land-use and Greenhouse Gas Emissions

M301, Marquis Level

Track Session - ENV Section

Use of Geographic Information System (GIS) data by agricultural economists has significantly increased over the past decade. Policy analysis for land-use, ecosystem services, and water is linked to location and distance. We bring together researchers who use GIS at the global, regional, and local level to conduct environmental policy analysis. Kurkalova et al. use the GIS-based Cropland Data Layer (CDL) to determine land-use transitions probabilities in North Carolina. Carriquiry et al. illustrate the use of global GIS data to improve agricultural trade models to determine land-use change effects and greenhouse gas emissions. Baylis et al. use bi-weekly geocoded SMS-survey results to develop a spatial diffusion model of Fall Army Worms, an invasive pest from South America spreading into Africa. Liu et al. present an integrated spatial model of agricultural land management and the Lake Erie watershed to predict phosphorus run-off.

Organizer: Jerome Dumortier, Indiana University, Purdue University Indianapolis

Moderator: Jerome Dumortier, Indiana University, Purdue University Indianapolis

The Intensity of North Carolina Cropland Use

Justice Darko, North Carolina A&T State University; Lyubov A. Kurkalova, North Carolina A&T State University

Importance of Sub-National Spatial Economic Modeling in Brazil in Evaluating Sugarcane and Corn Ethanol Policies

Miguel A. Carriquiry, Universidad de la República, Ciencias Economicas; Amani E. Elobeid, Iowa State University; Jerome Dumortier, Indiana University, Purdue University Indianapolis

Effect of a Hungry Invasive: The Impact of the Introduction of Fall Army Worms in Sub-Saharan Africa

Kathy Baylis, University of Illinois at Urbana-Champaign; Tom Evans, University of Arizona; Protensia Hadunka, University of Illinois at Urbana-Champaign; Esther Ngumbi, University of Illinois at Urbana-Champaign

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; Noel Aloysius, University of Missouri; Jay Martin, The Ohio State University

1047 Changing Needs for Farm Management Education in the Future

M107, Marquis Level

Track Session - EXT Section

The needs of farmers in the future will evolve as structural change occurs in the agricultural sector. Moreover, demands will be placed on farmers as the public demands more environmentally-friendly production. Three topics will be presented: 1. Increasing the value of data from farm business management associations. This presentation will discuss reductions in public Level data, increasing production data capture, the emergence of big data, and needs for farm management associations to change. 2. Meeting changing public demands for sustainability. This presentation will discuss desires for sustainability, desires for increases in water quality, and needs for education to farmers in the face sustainability demands by the public. 3. Meeting changing landowner desires for managing their farmland. This presentation will discuss views of landowners on conservation, availability of farm management information, and skills farmers will need in dealing with detached landowners.

Organizer: Gary D. Schnitkey, University of Illinois at Urbana-Champaign

Moderator: Gary D. Schnitkey, University of Illinois at Urbana-Champaign

Increasing the Value of Data from farm Business Management Associations

Joleen C. Hadrich, University of Minnesota; Gary D. Schnitkey, University of Illinois at Urbana-Champaign

Meeting Changing Public Demands for Sustainability

Raymond E. Massey, University of Missouri; **Alejandro Plastina**, Iowa State University

Meeting Changing Landowner Desires for Managing their Farmland

Mykel R. Taylor, Kansas State University; Michael R. Langemeier, Purdue University

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

1048 SNAP Recipient Behavior and Benefit Cycles, Price Variation, and Foods Purchased

M303, Marquis Level

Track Session - FAMPS & FSN Sections

SNAP is the largest food assistance program in the U.S. and provides benefits for over 20 million households. While empirical evidence shows that SNAP reduces food insecurity, food insecurity measures may be inaccurate, regional price variation may affect program efficacy, and the diets of those on SNAP do not meet national standards. In this session we expect to shed light on these issues. In the first paper, researchers will discuss how the SNAP benefit cycle may bias responses to food security questionnaires. In the second papers, researchers will show how price variation across the U.S. affects purchasing power of SNAP dollars. Researchers in the third presentation will measure the time required for SNAP recipients to adopt diets that meet national standards. In the last presentation, researchers will show how changes in SNAP benefits affects the types of foods purchased.

Organizer: Andrew Hanks, The Ohio State University

Moderator: Andrew Hanks, The Ohio State University

Framing, Food Insecurity, and the SNAP Cycle

Christian A. Gregory, USDA-Economic Research Service; **Jessica E. Todd**, USDA-Economic Research Service

The Real Value of SNAP Benefits and its Impact on Food Expenditures and Food Security of SNAP Participants

Xinzheng H. Cheng, USDA-Economic Research Service; **Young Jo**, USDA-Economic Research Service; **Jiyoon Kim**, Indiana-Purdue University Fort Wayne

A SNAP Benefit Adequacy Profile Investigation

George C. Davis, Virginia Tech; **Wen You**, Virginia Tech; **Young Jo**, USDA-Economic Research Service

The Effect of SNAP Benefit Changes on Foods Purchased

Yiting Lan, The Ohio State University; **Andrew Hanks**, The Ohio State University; **Scott Colby**, SUNY Morrisville

1049 The First Year Transition - Insight from New Faculty

M303, Marquis Level

Track Session - GSS Section

For many graduate students, preparing for the job market and securing a position can be challenging. But what happens after you land the job? This track session assembles early-career faculty with experiences in teaching, research, extension and service to provide tips and share insight on how to make the transition from graduate student to assistant professor. This session will be beneficial to attendees have been recently hired at their first job or those seeking insight on how to be a stronger job market candidate.

Organizers: Logan L. Britton, Oklahoma State University; William E. Maples, Oklahoma State University

Moderator: William E. Maples, Oklahoma State University

Insight on Research

Leah H. Palm-Forster, University of Delaware

Insight on Extension

Brittney K. Goodrich, Auburn University

Insight on Teaching

Jacob Manlove, Tarleton State University

Insight in General

Andrew W. Stevens, Mississippi State University

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

1050 Agriculture, Food and Public Health: Seeing Connections

Suite 3803, 38th Floor

Track Session - International & Senior Sections

AAEA Members are working on research, extension or policy that involve protection or improvement of human health. This session brings together topics that are investigated by both agricultural and health economists. Various methods and data sources are used to assess burden of diseases in both domestic and international settings. This session will demonstrate how CDC data is used by academic researchers, how CDC datasets are created, and how other data sources can be used to assess issues that affect public health and agriculture.

Organizer: Gabrielle Miller, Centers for Disease Control and Prevention

Moderator: Gabrielle Miller, Centers for Disease Control and Prevention

The Burden of Zoonotic Diseases: Panel Data Evidence from Rural Kenya

Thomas L. Marsh, *Washington State University*

How Scanner Data Can Aid Understanding of Foodborne Disease Patterns in the U.S

Sandra Hoffmann, *USDA-Economic Research Service*; *Lydia Ashton*, *University of Wisconsin-Madison*; *Jessica E. Todd*, *USDA-Economic Research Service*

Characteristics of Vending Machines available to Students in U.S. Schools

Caitlin Merlo, *Centers for Disease Control and Prevention*; *Georgianne Tiu*, *The Centers for Disease Control and Prevention*; *Zewditu Demissie*, *Centers for Disease Control and Prevention*; *Nancy Brener*, *Centers for Disease Control and Prevention*; *Sarah Lee*, *Centers for Disease Control and Prevention*; *Sohyun Park*, *Centers for Disease Control and Prevention*; *Adina Cooper*, *Centers for Disease Control and Prevention*

Do Increases in Minimum Wage Affect Enteric Disease Incidence?

Qihua Qiu, *Centers for Disease Control and Prevention*; *Beau Bruce*, *Centers for Disease Control and Prevention*; *Sam Crowe*, *Centers for Disease Control and Prevention*; *Aimee Geissler*, *Centers for Disease Control and Prevention*

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

1051 Getting Food Taxes Right

M102, Marquis Level

Invited Paper

The unhealthy and excessive consumption of food in general and meat in particular have generated concerns surrounding their environmental effects. The aim is to establish a theoretical and empirical foundation for shifting the literature toward an efficient food-consumption trajectory. Only then can we develop economic and environmental efficient policies.

Moderator: Timothy A. Park, USDA-Economic Research Service

Discussant: Glynn T. Tonsor, Kansas State University

Toward Optimal Meat Consumption

*Jonathan W. Lawing, Purdue University; Bhagyashree Katare, Purdue University; Timothy A. Park, USDA-Economic Research Service; Na Hao, Beijing Technology and Business University; Holly Wang, Purdue University; **Michael E. Wetzstein**, Purdue University*

Are Obese Consumers Less Responsive to Price (Dis)incentives?

Chen Zhen, University of Georgia; *Biing-Hwan Lin, USDA-Economic Research Service; Lisa Mancino, USDA-Economic Research Service; Shelly Ver Ploeg, USDA-Economic Research Service; Yu Chen, University of Georgia*

Food Tax and Food Insecurity: What is the Connection?

*Jason Zhao, Cornell University; **Yuqing Zheng**, University of Kentucky; Harry M. Kaiser, Cornell University; Norbert L.W. Wilson, Tufts University; Steven C. Buck, University of Kentucky; Shaheer XBurney, University of Wisconsin, River Falls*

1052 Economic Methods in Public Health at the Centers for Disease Control and Prevention (CDC)

L402, Lobby Level

Organized Symposium

We will discuss how applied economics methodologies can, and have, been used to generate essential information for public health decision makers. These topics include public health emergency, infectious diseases, vaccines, and injury prevention. This symposia will feature speakers with experience in public health, and they will describe how they have used applied economics methodologies to produce essential information for leadership. These methods are ultimately published and contribute to the field in public health economics. Discussants and attendants will discuss the specific challenges and types of questions relevant in public health.

Organizer: Gabrielle Miller, Centers for Disease Control and Prevention

Panelists: *Cristina Carias, Centers for Disease Control and Prevention; Andres Leidner, Centers for Disease Control and Prevention; Gabrielle Miller, Centers for Disease Control and Prevention; Jamison Pike, Centers for Disease Control and Prevention*

1053 Reforming Cost-Benefit Analysis for Regulation: What are the Consequences?

M101, Marquis Level

Organized Symposium

This session reviews the history of C/B methods and applications, discusses alternative changes that might occur under the proposed reform, and assesses the consequences of these alternatives. This session will include a moderated discussion between the audience and the speakers.

Organizers: Otto C. Doering III, Purdue University; Leah H. Palm-Forster, University of Delaware

Moderator: Otto C. Doering III, Purdue University

A Short History of C/B Analysis and its Application

Wallace E. Tyner, Purdue University

What Are Some Suggested Changes in C/B and Their Consequences?

Cathy Kling, Cornell University

Do Current C/B Protocols Need Changing?

Ben Gramig, University of Illinois at Urbana-Champaign

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

1054 Agribusiness Economics and Management - Lightning Session

Suite 3819, 38th Floor

Selected Presentation - Lightning Session

This session includes papers that focus on wide range of topics related to agribusiness economics and management.

Moderator: Yefan Nian, University of Florida

Assessment of Crop Yield Response to Climate Change: Evidence from The Greater Midwest

Rezwanul Parvez, Community College of Denver; **Nazea H. Khan Chowdhury**, North Dakota State University

E-commerce Adoption and Rural Sustainable Livelihood Development: The Case of Smallholders in the Chinese Agro-Food Producing Sector

Yi Cai, Huazhong Agricultural University; **Chunping Xia**, Huazhong Agriculture University; **Cuicui Wang**, Huazhong Agriculture University

Success Realized from Creating a Culture of Collaboration: The Case of Midwestern Farm Family Businesses

Renee D. Wiatt, Purdue Initiative for Family Firms; **Maria I. Marshall**, Purdue University

The Impact of Roll Strategies and Commodity Futures Characteristics on Long-Only Strategies

Marjolein Verhulst, Wageningen University; **Joost M. E. Pennings**, Maastricht University / Wageningen University; **Andres A. Trujillo-Barrera**, University of Idaho; **Peter Prins**, CORMEC

The Impact of Health-Related Information on Consumers' WTP for the Food Product: Does the Format Matter?

Yefan Nian, University of Florida; **Zhifeng Gao**, University of Florida; **Junhong Chen**, University of Florida

Use of a Stochastic Production Frontier Approach to examine Gastrointestinal Nematode Management in Beef Cow-Calf Herds in Canada

David C. Hall, University of Calgary; **Philip Rasmussen**, University of Calgary

Veterinary Expenditures: What Influences Pet Owners to Spend Money at the Veterinarian's Office

Lisa A. House, University of Florida; **Matthew J. Salois**, American Veterinary Medical Association

1055 Forecasting Commodity Prices and Trading Volume

Suite 3839, 38th Floor

Selected Presentation - Discussant Test Session

Fluctuations in commodity prices continue to affect global economic activity. This session discusses forecasting in the grain and energy sectors, focusing on prices and trading volume.

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

The Signal and the Noise of Short-term Climate Forecasts: Evidence from Grain Futures Markets

Aaron D. Smith, University of California, Davis; **David Ubilava**, University of Sydney

An Alternative Method to Forecast the Season-average Producer Price for U.S. Corn

Xiaoli L. Etienne, West Virginia University; **Sara Farhangdoost**, West Virginia University; **Linwood A. Hoffman**, USDA-Economic Research Service

Wheat Futures Trading Volume Forecasting and the Value of Extended Trading Hours

Joseph Janzen, Kansas State University; **Nicolas Legrand**, French National Institute for Agricultural Research

Testing Directional Predictability Between Energy Prices: A Cross-Quantilogram Analysis

Alexandre Scarciuffolo, West Virginia University; **Xiaoli L. Etienne**, West Virginia University

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

1056 Experimental Economics - Risk, Trust and Uncertainty

Suite 3903, 39th Floor

Selected Presentation - Discussant Test Session

The first two papers present advances in measuring the effects of emotions on risk and choice under uncertainty. The last two papers evaluate the effects of social distance and trust, and quality signaling effects on trust and willingness to pay for potato planting material.

Moderator: Bachir Kassas, University of Florida

Happy to Take Some Risk: Investigating the Dependence of Risk Preferences on Mood Using Biometric Data

Bachir Kassas, University of Florida; Marco A. Palma, Texas A&M University; Maria Porter, Michigan State University

Choice Uncertainty and the Endowment Effect

Christina Korting, Cornell University; Steven G. Otto, ISO New England

Interactive Social Distance and Trust: Different Measuring Approaches Among Semi-nomadic Pastoralists in Northern Kenya

Martin C. Parlasca, University of Göttingen; Daniel Hermann, Georg-August-University Göttingen; Oliver Musshoff, Georg-August-University Göttingen

The Effect of Quality Signaling and Trust on Willingness to Pay for Potato Planting Material: A Research Study in Kenya

Brian Bartle, Michigan State University; Mywish K. Maredia, Michigan State University

1057 Land Use, Property Rights, and Agricultural Productivity

Suite 3919, 39th Floor

Selected Presentation

Papers in this session will explore drivers of agricultural productivity as they relate to land rights, land records, and the functioning of land rental markets. Do enhanced property rights improve agricultural investment and labor decisions? How does land use vary with socioeconomic drivers? This session will provide insight to those questions.

Man-Keun Kim, Utah State University

Understanding the Impact of Land Property Reform: Selection Bias, Sorting Gains, and Heterogeneous Returns

Xiaoping Zhong, Renmin University of China; Jing You, Renmin University of China, University of Cambridge

Using Marginal Lands for Bioenergy Crop Production in the Rainfed Regions of Continental U.S: Economic Potential and Environmental Benefits

Sarah Acquah, University of Illinois at Urbana-Champaign; Jiang Chongya, University of Illinois at Urbana-Champaign; Guan Kaiyu, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign

Improving the Way Land Use Change is Handled in Economic Models

Xin Zhao, Joint Global Change Research Institute, PNNL; Dominique Van Der Mensbrugghe, Purdue University; Roman M. Keeney, Purdue University; Wallace E. Tyner, Purdue University

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

1058 Wellbeing of Children and Young Adults - Lightning Session

Suite 3934, 39th Floor

Selected Presentation - Lightning Session

The papers in this lightning session tackle issues related to the health, development and wellbeing of children and young adults. Topics range from childhood development, obesity, intergenerational mobility and early labor force outcomes of youth.

Moderator: Dennis Wesselbaum, University of Otago

Kindergarten Entry Age and Household Food Insecurity: Evidence from the Early Childhood Longitudinal Study

Xiaohan Sun, University of Connecticut; **Tatiana Andreyeva**, University of Connecticut

Technical Efficiency of Food Intake Frequency on Childhood Stunting in Western Kenya

Alex Kappes, Washington State University; **Thomas L. Marsh**, Washington State University

The Effects of Heat on Cognitive Performance: Evidence from a High-Stake Exam in Brazil

Ana Paula Melo, University of Wisconsin-Madison; **Mizuhiro Suzuki**, University of Wisconsin-Madison

Does Parental Out-migration Benefit Left-behind Children's Schooling Outcomes? - Evidence from Rural China

Xiaoman Luo, University of California, Davis

Are Mobile Phone and Migration Complementary? Evidence from their Impacts on Children's Nutritional Intakes in Rural China

Xiaobing Wang, Peking University; **Shi Min**, Peking University

1059 International Development - Credit and Insurance

Suite 3939, 39th Floor

Selected Presentation

Papers in this session touch on the role of risk in household choice, how to design credit and insurance schemes, and how these schemes might improve welfare.

Moderator: Soumya Balasubramanya, International Water Management Institute

Household Decisionmaking Under Risk: Evidence from Samburu County, Kenya

Andrew Hobbs, University of California, Davis

Heterogeneous Demand and Supply for an Insurance-Linked Credit Product in Kenya: A Stated Choice Experiment Approach

Apurba Shee, University of Greenwich; **Calum G. Turvey**, Cornell University; **Ana Marr**, University of Greenwich

Optimizing Agricultural Insurance: Evidence from India

Patrick S. Ward, Duke Kunshan University; **Vartika Singh**, International Food Policy Research Institute; **Shweta Gupta**, International Food Policy Research Institute; **Ranjan Ghosh**, IIM-Ahmedabad

1060 International Development - Agricultural Development

Suite 4003, 40th Floor

Selected Presentation - Discussant Test Session

These papers cover topics related to agricultural productivity, including issues of land tenure.

Moderator: Soumya Balasubramanya, International Water Management Institute

Effect of Absent Landlords on the Land Rental Market in India

Annemie Maertens, University of Sussex; **Melanie Khamis**, Wesleyan University

Can Customary Systems of Land Tenure Facilitate Agricultural Productivity Growth? An Investigation in the West African Sahel

Yoko Kusunose, University of Kentucky; **Veronique Theriault**, Michigan State University; **Didier Y. Alia**, University of Kentucky

Spillover Effects of Agricultural Productivity: Evidence from Genetically Modified Cotton Expansion in India

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

Agricultural Growth and its Spillover Effects on Agricultural and Rural Transformation: An Analysis of Zambian Household Survey Data

Jason E. Snyder, Michigan State University; **Thomas S. Jayne**, Michigan State University; **Nicole M. Mason**, Michigan State University; **Paul C. Samboko**, Indaba Agricultural Policy Research Institute

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

1061 Bioeconomic Modeling of Pest and Invasive Species

Suite 4019, 40th Floor

Selected Presentation

Papers in this session develop spatial and dynamic bioeconomic models to evaluate the management of pests and invasive species. The studies extend current modeling techniques to incorporate uncertainty and learning in a range of applications from pollinators to wild pigs.

Moderator: Seong Do Yun, Mississippi State University

Management of Smart Invasive Species: Optimal Control of Wild Pigs with Time-limited Memory of Learning Behavior

Seong Do Yun, Mississippi State University; *Kalyn T. Coatney*, Mississippi State University; *Bronson Strickland*, Mississippi State University; *Garrett Street*, Mississippi State University

A Farm-Level Bioeconomic Model of Invasive Species Management: The Case of Spotted Wing Drosophila in Maine

D. Adeline Yeh, Cornell University; *Miguel I. Gomez*, Cornell University; *Xiaoli Fan*, University of Alberta; *Francis Drummond*, University of Maine

Farm and Landscape-level Trade-offs Between Pest Control and Pollination Service Provision: The Case of Neonicotinoid Insecticides

Linghui Wu, University of New Hampshire; *Shadi S. Atallah*, University of New Hampshire

Adaptive Resistance Management with Uncertain Fitness Costs

Zachary S. Brown, North Carolina State University; *Hyeongyul Roh*, Duke University

1062 Climate Impact on Agricultural Production

Suite 4024, 40th Floor

Selected Presentation - Discussant Test Session

Papers in this session discuss the impacts of climate change on agricultural production and producer behavior.

Moderator: Steven M. Ramsey, New Mexico State University

Beyond Yield Response: Weather Shocks and Crop Abandonment

Xiaomeng Cui, Institute for Economic and Social Research, Jinan University

The Impact of Warming Temperatures on U.S. Sorghum Production and the Potential for Adaptation

Noah J. Miller, Kansas State University; *Jesse B. Tack*, Kansas State University; *Jason S. Bergtold*, Kansas State University

Impacts of Climate Change on Attributes and Retail Prices of Premium Wines

Qianyao Pan, University of California, Davis; *Daniel A. Sumner*, University of California, Davis; *James T. Lapsley*, University of California, Davis

Snowpack Yield Implications: A Case Study of Alfalfa Yields in the Rio Grande Valley of New Mexico

Steven M. Ramsey, New Mexico State University

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

1063 Productivity Analysis and Emerging Technologies - AgTech Lightning Session

Suite 4039, 40th Floor

Selected Presentation - Lightning Session

A groundswell in private R&D in agricultural production and marketing is resulting in a range of increasingly advanced “AgTech” innovations, in both high income and developing countries. This lightning session provides a sampling of economic analyses of agtech and marketing technology breakthrough, from blockchain and machine learning, to sensor imagery and irrigation technology, from microbiomes to salt tolerant rice and “green super rice.”

Moderator: Prithviraj Lakkakula, North Dakota State University

Assessing the Benefits of Green Super Rice in Sub-Saharan Africa: Evidence from Mozambique

Ashok K. Mishra, Arizona State University; **Valerien O. Pede**, International Rice Research Institute

Does Crop Insurance Inhibit Climate Change Irrigation-technology Adaption?

Sarah C. Sellars, Purdue University; Nathanael M. Thompson, Purdue University; Michael E. Wetzstein, Purdue University; Laura C. Bowling, Purdue University; Keith A. Cherkauer, Purdue University; Jane R. Frankenberger, Purdue University; Linda S. Prokopy, Purdue University; Michelle R. Hemler, Purdue University; Charlotte I. Lee, Purdue University; Benjamin D. Reinhart, Purdue University

Assessing Salt-tolerant Rice Variety Adoption in the Mekong River Delta

SongYi Paik, Virginia Tech; Bradford F. Mills, Virginia Tech; Dung Thi Phuong Le, International Center for Tropical Agriculture; Lien Thi Nhu, International Center for Tropical Agriculture

Micro-climate Engineering for Climate Change Adaptation in Agriculture: the Case of California Pistachios

Itai Trilnick, University of California, Berkeley

Efficiency as a Criterion for Optimizing Routes: A Two-stage DEA-Routing Approach

Paulo Nocera Alves Jr., University of São Paulo ; Daniela B. Bartholomeu, University of São Paulo; José C. Cruz Jr., Federal University of São Carlos; José V. Caixeta-Filho, University of São Paulo

Impact of Blockchain Technology on International Grain Trading

Prithviraj Lakkakula, North Dakota State University; David W. Bullock, North Dakota State University; William W. Wilson, North Dakota State University

1064 Transportation Fuels

M108, Marquis Level

Selected Presentation

This session contains four papers examining policies regarding U.S. transportation fuels, namely Renewable Fuel Standard, Corporate Average Fuel Economy, and California’s Ocean-going Vessel Fuel Rule.

Moderator: Julia Berazneva, Middlebury College

Doomed by Design: Structural Implications of the Renewable Fuel Standard for E85 Demand

Jia Zhong, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign

Correlated Pollutants, Avoidance, and Local Environmental Policy: Analyzing California’s Ocean-Going Vessel Fuel Rule

Julia Berazneva, Middlebury College; Richard L. Klotz, Cornell University

DUCs and Natural Gas Supply in the U.S.

Douglas Mugabe, West Virginia University; Levan Elbakidze, West Virginia University

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

1065 Innovations in Risk Management for Small-holder Farmers: Experimental Evidence from East and Southern Africa M302, Marquis Level

Track Session - Africa & International Sections

Satellite-based estimates of weather have become common in agricultural economics. However, the choice of how rainfall and temperature are measured and enter into the production function is typically ad hoc and almost never justified on agronomic principles. We propose a hybrid format for this session. The session will begin with a presentation of results from a study which has quantified the significance and magnitude of the effect of measurement error in weather metrics on estimates of agricultural production and resilience, using the LSMS-ISA data from eight countries in Africa. Following this, several case studies will be presented in lightning style. These case studies will employ the best practices and methods from the original study, with the goal of highlighting the differences in results from the use of various weather metrics.

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

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

Can Complementary Risk Management Technologies Crowd in Investment? Experimental Evidence on the Impact of Drought Tolerant Maize and Index Insurance on Small-holder Maize Farmers in Mozambique and Tanzania

Paswel P. Marenya, *International Maize and Wheat Improvement Center*; **Travis J. Lybbert**, *University of California, Davis*; **Michael R. Carter**, *University of California, Davis*; **Jonathan G. Malacarne**, *University of California, Davis*; **Laura A. Paul**, *University of Delaware*; **Stephen R. Boucher**, *University of California, Davis*

The Farmer and the Fates: Focus of Control and Investment in a Stochastic Production

Jonathan G. Malacarne, *University of California, Davis*

Out of the Pan and into the Fire: Drought-tolerant Maize Performance from Controlled Environments to Farms in East Africa

Laura A. Paul, *University of Delaware*

Reducing Basis Risk and Building Trust: The Demand for High Quality Index Insurance Contracts in Mozambique

Jon Einar Flatnes, *The Ohio State University*; **Jonathan G. Malacarne**, *University of California, Davis*; **Stephen R. Boucher**, *University of California, Davis*

1066 Crop Insurance - Current and Future Innovations M105, Marquis Level

Track Session - ARA Section

A panel of leading experts from government, private industry, and academia will discuss what is currently being innovated for U.S. Crop Insurance and what future innovations they believe the industry would benefit from.

Organizer: Julia I. Borman, Air Worldwide

Crop Insurance Update

Thomas W. Worth, *USDA-Risk Management Agency*

Updates from the USDA

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

Using Models for Innovation in the Crop Insurance Industry

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

The Evolving Farm Policy Context with Crop Insurance

Keith H. Coble, *Mississippi State University*

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

1067 Recent Changes in State, Federal, and International Alcohol Policy

M303, Marquis Level

Track Session - BEER Section

Alcohol distribution is widely regulated and changes in alcohol policy can impact the entire supply chain. This session explores alcohol policy at the international, federal and state levels. As discretionary income increases in China, craft beer has become more popular resulting in increased imports of U.S. craft beers. This presentation examines the impact of recent Chinese tariffs on exports of American craft beer. In 2017, Congress passed the Craft Beverage Modernization and Tax Reform Act (CBMTRA), the first reduction in alcohol taxes since the repeal of prohibition. This talk dives into the various implications of the CBMTRA and what it means for beer, spirits and wine industries. Starting 2019, Colorado will allow grocery stores to sell full strength beer for the first time. This presentation discusses this highly complex legislation and its impact on brewers, distributors, and retailers.

Organizer: Joshua P. Berning, Colorado State University

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

The Impact of the U.S. China Trade War on U.S. Craft Beer Exports

Cary Cavnar, North Dakota State University; **Thomas I. Wahl**, North Dakota State University; **James L. Seale Jr.**, University of Florida

Implications of the Craft Beverage Modernization and Tax Reform Act of 2017

Michael P. McCullough, California Polytechnic State University, San Luis Obispo; **Julian M. Alston**, University of California, Davis

The Colorado Beer Industry in a Changing Regulatory Landscape

Nathan P. Palardy, Colorado State University; **Marco Costanigro**, Colorado State University; **Joshua P. Berning**, Colorado State University

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

1068 Agricultural Market, Price, Information, and Consumers - Lightning Section

M107, Marquis Level

Track Session - China Section

This session focuses on the issues related agricultural market, price, information, and consumers. Presentations cover different key commodities, such as fruits, dairy products, vegetables and grains. Discussion covers broader aspects of product price, labeling, safety, insurance, etc.

Organizers: Songqing Jin, Michigan State University; Baohui Song, California State University, Chico

Rice Farmers' Demands for Productive Services in the Context of Agriculture Green Transformation: Evidence from Chinese Farmers

Qi Li, Qufu Normal University; **Kai Li**, Qufu Normal 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; **Jichun Zhao**, Beijing Academy of Agriculture and Forestry Sciences; **Hongbiao Wang**, Beijing Academy of Agriculture and Forestry Sciences

Effect of Local and National Advertising Across Brands: Case of Yogurt Demand in China

Bo Chen, Huazhong Agricultural University; **Wuyang Hu**, The Ohio State University; **Qingjie Zhou**, Beijing Technology and Business University

Does "Green Food" Certification have both Economic and Environmental Benefits? Recent Evidence from Kiwifruit Growers in China

Ruifeng Liu, Henan Agricultural University; **Zhifeng Gao**, University of Florida; **Rodolfo M. Nayga**, University of Arkansas; **Lijia Shi**, University of Florida; **Hengyun Ma**, Henan Agricultural University

The Empirical Study on Price Discovery of Corn Starch Futures Market in China

Yunxian Yan, Jilin Agricultural University; **Guiyu Zhao**

Does Price Insurance Effectively Smooth Vegetable Market? – New Evidence with Synthetic Control Method in Shanghai

Huishang Li Sr., Agricultural Information Institute, Chinese Academy of Agricultural Sciences; **Guo Xinzhu**, Agricultural Information Institute of the CAAS; **Chenpei Hu**, Chinese Academy of Agricultural Sciences

The Willingness to Pay for Country of Origin Labels – A Cases Study in Chinese Food Market

Xing Zhao, Jiangxi University of Finance and Economics; **Guzhen Zhou**, Jiangxi University of Finance and Economics

Short Supply Chain Participation Market Performance for Vegetable Farmers in China

Xiaoheng Zhang, Huazhong Agricultural University; **Ping Qing**, Huazhong Agricultural University; **Xiaohua Yu**, University of Göttingen

1069 The Generalizability of Student Experiments for Use in Agro-Environmental Policy-Making

M304, Marquis Level

Track Session - CWAE & EXECON Sections

Economic experiments often involve student participants. However, given concerns about external validity, Federal agencies often require that scientific evidence used to inform policy-making be generated using samples of the population targeted by that policy. This panel will bring together experimentalists with expertise in lab and field settings to discuss the prospects and perils of generalizing student experiments for agro-environmental policy-making, including: 1. What is known about how well students model farmer decision-making in lab experiments 2. How generalizability of student experiments is handled outside of the AgEcon discipline 3. Key research questions for generalizing student experiments to inform AgEcon policy-making and modeling 4. Barriers to conducting research that compares performance between student and farmer/rural populations This panel discussion is likely to draw attendance from economists and policy-makers interested in evidence-based policy-making and experimental methods.

Organizer: Daniel M. Hellerstein, USDA-Economic Research Service

Moderator: Collin Weigel, Johns Hopkins University

Panelists: Kent D. Messer, University of Delaware; Stephanie D. Rosch, USDA-Economic Research Service; Jordan F. Suter, Colorado State University

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

1070 Prediction, Expert Opinion, and Data in Specialty Crops

M301, Marquis Level

Track Session - Econometrics and SCE Sections

Many instances exist in government and elsewhere where predictions of quantities supplied and resultant prices of commodities are issued to contribute to the information base on which producers make decisions and commit resources to generate future production of a commodity. It is often the case that econometric methodologies are applied to observed data to extrapolate quantities and prices into the future and provide the desired predictions. In forming predictions, it is also often the case that expert judgement exists regarding likely outcomes of the decisions of producers, and the resultant levels of production and prices that will occur as a result. This session will consider econometric and data issues that are relevant in predicting quantities in specialty crops.

Organizers: Jill J. McCluskey, Washington State University; Ron C. Mittelhammer, Washington State University

Discussant: Thomas L. Marsh, Washington State University

A Methodology and Application of Expert Opinion and Econometric Mixtures for Generating USDA-ERS Predictions of Specialty Crop Quantities and Prices

Ron C. Mittelhammer, Washington State University; Brett Devine, Washington State University; Jill J. McCluskey, Washington State University; Travis Minor, USDA-Economic Research Service

Planting a Problem: Predicting End of Season Virus Loads in Potatoes

Christopher S. McIntosh, University of Idaho; Jeremy Rosenman, University of Idaho

Data Science and Management for Large Scale Empirical Applications in Agricultural and Applied Economics Research

Joshua D. Woodard, Cornell University

1071 Recent Developments in Sustainable Environmental Management

Suite 3824, 38th Floor

Track Session - ENV Section

This session addresses sustainable continuous time natural dynamic resource management in the face of climate change and political-economic uncertainty and upheaval.

Organizer: Jeffrey T. LaFrance, Monash University

Discussants: Mindy L. Mallory, University of Illinois at Urbana-Champaign; Michael Ward, Monash University

A Water Portfolio Model with Time-Varying Risk in the Presence of Climate Change

Anke Leroux, Department of Economics, Monash University; Vance Martin, University of Melbourne; Kathryn St. John, University of Melbourne

High Fines for Misdemeanors: Robust Public Natural Resource Management Mechanisms

Jeffrey T. LaFrance, Monash University; Jay P. Shimshack, University of Virginia; Myles J. Watts, Montana State University

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

1072 Experiments on Food Choice in Specialized Populations: Food Pantry Users and Children

Suite 3924, 39th Floor

Track Session - EXECON & IBES Sections

In this session we will present the results of field experiments on food choice in specialized populations – food pantry users and children – with interventions designed to promote food security and healthier choices. Our first presenter will show whether food pantry clientele reveal different WTP in food pantries compared to standard grocery stores. Our second presenter will discuss how children understand and respond to the presentation of discounted food prices. Our third presenter will present research showing the impact that a rating system has on food choices among food pantry clientele. Lastly, our fourth presenter will present results from a study searching for a point in time in which nudges in school cafeterias lose their efficacy and need to be refreshed. This research is timely considering the prevalence of food insecurity and nutrient poor diets among food pantry users and children.

Organizer: Andrew Hanks, The Ohio State University

Moderator: Andrew Hanks, The Ohio State University

Do People Value Pantry Food Differently?

Anne Byrne, Cornell University; **David R. Just**, Cornell University

How Do Children Respond to Differences in Food Price Presentation? An Experimental Investigation

Sean B. Cash, Tufts University; **Deirdre M. Schiff**, Tufts University; **Megan E. Lehnerd**, Framingham State University; **Anna R. McAlister**, Endicott College; **Kaela Plank**, Tufts University; **Christina Economos**, Tufts University

Effect of Unobtrusive and Low-cost Nudge on Food Choice Behavior of Food Pantries Clients

Bhagyashree Katare, Purdue University; **Brittni Echols**, Purdue University; **Rodolfo M. Nayga**, University of Arkansas; **Paul Preckel**, Purdue University

When Do Nudges Need to be Refreshed? A Pilot Study in School Cafeterias

Andrew Hanks, The Ohio State University; **Haleigh Gaines**, University Hospitals, Cleveland, OH; **Julie Kennel**, The Ohio State University

1074 Machine Learning in Applied Economics

Suite 3803, 38th Floor

Track Session - Econometrics & International Sections

This session provides an overview of various machine learning techniques and applications.

Organizer: Kathy Baylis, University of Illinois at Urbana-Champaign

Moderator: Kathy Baylis, University of Illinois at Urbana-Champaign

Identifying Poor Households in Data Scarce Environments: A Statistical Learning Approach

Varun Kshirsagar, Independent Economist

Propensity Scores and Causal Inference Using Machine Learning Methods

Linden McBride, Cornell University

Identifying Effects of Farm Subsidies on Structural Change Using Neural Networks

Thomas Heckeley, University of Bonn

Information, Credit and Inputs: The Impacts and Mechanisms of a Program to Raise Smallholder Productivity

Emilia Tjernström, University of Wisconsin-Madison

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

1075 U.S. Benefits from Foreign Assistance to Developing Country Agriculture and Food Security

M103, Marquis Level

Track Session - International & Senior Sections

A new study commissioned by the Board for International Food and Agricultural Development (BIFAD) provides analysis of U.S. benefits and capabilities leveraged by USAID investments in developing country agriculture and food security. The study examines why aid investments in agriculture affect not only developing countries but United States producers and consumers. It uses available data to quantify impacts of aid on productivity and capacity building. It examines direct and indirect benefits of increased output and incomes in USAID partner countries and their effects on U.S. exports. Increased productivity improves incomes, which helps reduce poverty and hunger and improves household purchasing power. As incomes rise, household diets improve in both quantity and quality, which leads to increased trade and other potential benefits to the United States. The study can help the public understand the value of investing in aid to agriculture.

Organizer: William H. Meyers, University of Missouri

Moderator: Brady J. Deaton Sr., University of Missouri

Discussant: Brady J. Deaton Sr., University of Missouri

Panelists: Keith O. Fuglie, USDA-Economic Research Service; George W. Norton, Virginia Tech; Melinda Smale, Michigan State University

Summary Report: U.S. Benefits and Capabilities Leveraged by USAID Investments in Developing Country Agriculture and Food Security

Stephanie A. Mercier, *Farm Journal Foundation*; **Joseph W. Glauber**, *International Food Policy Research Institute*

2630 The Economics of Genetically Modified Foods

M104, Marquis Level

Track Session - FAMPS & FSN Sections

The marketing of genetically modified (GM) foods continues to be a predominant agricultural policy issue in the U.S. This session includes papers that i) exploit state-level variation GM labeling legislation to study the effects of mandatory labeling on consumer attitudes toward GM products; ii) study the effect of consumer knowledge on GM purchasing behavior; iii) consider the political economy of the GM debate; and iv) examine the probity of industry messaging around GM products, in economic perspective. We anticipate a lively debate on this highly topical issue.

Organizer: Trenton G. Smith, University of Otago

Discussant: Parke E. Wilde, Tufts University

Consumer Support for Genetic Engineering: The Impact of Mandatory Labels, Regulatory Threats, and Laissez Faire Approaches in the U.S.

Jane M. Kolodinsky, *University of Vermont*; **Orest Pazuniak**, *University of Vermont*

Do GMO Labelling and Consumers' Knowledge in GMO Market Improve Market Efficiency?

Yu Yvette Zhang, *Texas A&M University*; **Xiaotong Yuan**, *Texas A&M University*; **Pulkit Marwah**, *Texas A&M University*; **Marco A. Palma**, *Texas A&M University*

The Political Economy of GMO at the Market and in Academia

David Zilberman, *University of California, Berkeley*

The Simple Economics of Fraud: The Case of Genetically Modified Food

Trenton G. Smith, *University of Otago*; **Jane M. Kolodinsky**, *University of Vermont*

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

2001 New Directions in Research on Agrifood Standards and Rural Poverty

M304, Marquis Level

Invited Paper

Standards related to food safety, quality, and sustainability have recently gained in importance in national and international agrifood markets, with profound implications for supply chain organization and social welfare. From a development perspective, effects on smallholder farmers in developing countries are of particular interest, because smallholders are especially vulnerable to poverty. Many case studies have analyzed effects of standards in specific situations, but much of this research is not representative and has limited external validity. The goal of this session is to synthesize the evidence and show how broader and deeper insights can be gained with new survey designs and better data.

Organizer: Matin Qaim, University of Göttingen

Moderator: Christopher B. Barrett, Cornell University

Discussant: Thomas A. Reardon, Michigan State University

Do Smallholder Farmers Benefit from Sustainability Standards? A Systematic Review and Meta-Analysis

Eva-Marie Meemken, Cornell University

Do Sustainability Standards Benefit Smallholder Farmers Also When Accounting for Cooperative Effects? Evidence from Cote d'Ivoire

Jorge Sellare, University of Göttingen; **Eva-Marie Meemken**, Cornell University; **Christophe Kouame**, World Agroforestry Center; **Matin Qaim**, University of Göttingen

Regulations, Value Chains, and Implementation of Food Standards in Developing Countries: Panel Data Evidence from India

Johan F.M. Swinnen, University of Leuven; **Saule Burkitbayeva**, University of Leuven; **Emma Janssen**, University of Leuven

2002 Increasing Role of Economics in Agricultural Regulatory Decisions

L403, Lobby Level

Organized Symposium

The session will provide an overview and perspectives on the changing role of economics in agricultural regulatory decisions today. The panel will also discuss where to look for information about forthcoming regulations and supporting documents that researchers/analysts may find useful.

Organizers: Mary E. Bohman, Bureau of Economic Analysis; Parveen P. Setia, USDA-Animal and Plant Health Inspection Service

Moderator: Shannon Hamm, USDA-Animal and Plant Health Inspection Service

Panelists: Jason Grant, Virginia Tech; Warren P. Preston, U.S. Department of Agriculture; April Regonlinski, USDA-Food Safety and Inspection Service; Parveen P. Setia, USDA-Animal and Plant Health Inspection Service

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

2003 Pollution, Health, and Environmental Policies: The Case of China

L406, Lobby Level

Organized Symposium

Unprecedented economic growth in China has caused serious environmental degradation and brought challenges for sustainable development. It is imperative to fully understand the adverse effects of environmental pollution on health and come up with feasible and effective energy/resource policies to lower the pollution levels. China's experience in tackling environmental problems provides valuable lessons for other developing economies. The session aims to create a stage for general economists to exchange opinions on environmental issues and for environmental researchers to share their research outcomes.

Organizer: Maoyong Fan, Ball State University

Moderator: Maoyong Fan, Ball State University

Panelists: Maoyong Fan, Ball State University; Junji Xiao, University of Technology, Sydney; Lunyu Xie, Renmin University

The Impacts of Air Pollution on Health: Evidence from Winter Heating Policy

Maoyong Fan, Ball State University

Battling Against Local and Global Air Pollutions by Household Energy Transition

Lunyu Xie, Renmin University; **Wanyi Wu Wu**, Renmin University; **Ziru Feng Feng**, Renmin University; **Chu Wei**, Renmin University; **Xinye Zheng**, Renmin University

The Unintended Environmental Consequences of Location-Based Policy: A Quasi-Natural Experiment from Guangdong Province in China

Junji Xiao, University of Technology, Sydney; **Jianxin Wu**, Jinan University

2004 Ag Finance and Farm Management - Issues in Agricultural Lending

M302, Marquis Level

Selected Presentation

This session covers topics with agricultural lending.

Moderator: Jian Chen, The Ohio State University

Agricultural Loan Delinquency Prediction Using Machine Learning Methods

Jian Chen, The Ohio State University; **Ani Katchova**, The Ohio State University

Evaluating the Relative Extent of Double Minority Bias in FSA's Farm Lending Decisions

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

Impact of the Basel III Bank Regulation on Agricultural Lending

Kevin N. Kim, The Ohio State University

Agricultural Credit Market Segmentation and Creditor Profiles: A Conceptual Model

Chad M. Fiechter, Cornell University; **Jennifer E. Ifft**, Cornell University

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

2005 Economics of Agri-Food Markets

M108, Marquis Level

Selected Presentation - Discussant Test Session

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

Moderator: Mahdi Asgari, University of Kentucky

Long-Term Dynamics of Organic Dairy Premium in the United States.

Syed Badruddoza, Washington State University; **Andrea C. Carlson**, USDA-Economic Research Service; **Jill J. McCluskey**, Washington State University

Market Power in EU Dairy Processing: Evidence from a Stochastic Frontier Approach

Maximilian Koppenberg, Technical University of Munich; **Stefan Hirsch**, Technical University of Munich

Mitigating Barriers of U.S. Organic Dairy Farming: Impact of Educational Programs on Beginning Organic Dairy and Feed Producers in Six Mid-Western States

Siny Joseph, Kansas State University

The Complexity of Consumers' Loyalty to Product Attributes in Soft Drinks Market

Mahdi Asgari, University of Kentucky; **Samane Zare**, University of Kentucky; **Yuqing Zheng**, University of Kentucky; **Timothy A. Woods**, University of Kentucky

2006 Behavioral Economics and Farm Decision-Making

L405, Lobby Level

Selected Presentation - Discussant Test Session

Papers in session examine behavioral factors, including social interactions and risk perceptions, that affect production decisions.

Moderator: Gaurav Arora, Indraprastha Institute of Information Technology

Understanding the Importance of Social Interactions Between Small Farmers: Evidence from Farmer Planting Behavior in Rural China

Zhu Cheng, China Agricultural University; **Qianheng Chen**, China Agricultural University; **Michael Delgado**, Purdue University

WTP Biases & Depressed Demand for Higher Coverage Crop Insurance Contracts

Xiaodong Du, University of Wisconsin-Madison; **Hongli Feng**, Michigan State University; **David A. Hennessy**, Michigan State University

Do Grassroots Interventions Relax Behavioral Constraints to the Adoption of Nutrition Sensitive Food Production Systems?

Muzna F. Alvi, International Food Policy Research Institute; **Patrick S. Ward**, Duke Kunshan University; **Simrin Makhija**, International Food Policy Research Institute; **David J. Spielman**, International Food Policy Research Institute

Past and Future Weather: Farmers' Perceptions and Their Roles in Land Use Decisions

Gaurav Arora, Indraprastha Institute of Information Technology; **Hongli Feng**, Michigan State University; **David A. Hennessy**, Michigan State University

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

2007 Commodity Price Transmission

L404, Lobby Level

Selected Presentation

This session discusses input-output price transmission, price transmission along the marketing chain, as well as price transmission between agricultural and energy commodities.

Moderator: Dan Scheitrum, University of Arizona

Piecemeal State-level Farm Regulation and the U.S. Commerce Clause

*Colin Andre Carter, University of California, Davis; K. Aleks Schaefer, Royal Veterinary College, University of London; **Dan Scheitrum**, University of Arizona*

Input-output Price Transmission in the United States Broiler Chicken Market

Dylan D. Bouchard, North Carolina State University

Price Transmission and Supply Shocks: The Role of Upstream and Downstream Market Power

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

Demystifying Horizon-based Heterogeneity in the Relationship between Agricultural Commodities and Crude Oil

*Bahram Adrangī, University of Portland; Arjun Chatrath, University of Portland; **Clark Lundberg**, San Diego State University; Tristan D. Skolrud, University of Saskatchewan*

2008 Experimental Economics - Design

Suite 4024, 40th Floor

Selected Presentation - Discussant Test Session

This session includes papers related to the design of economic experiments to understand individual behavior. The topics of the session include preferences for gene-edited canola oil, dynamic treatment assignment, attribute non-attendance, and preferences across elicitation mechanisms.

Moderator: Xuqi Chen, University of Florida

Strategic Behavior in Stated Preferences and the Demand for Gene-Edited Canola Oil

Henry An, University of Alberta; *Wiktor L. Adamowicz, University of Alberta; Patrick Lloyd-Smith, University of Saskatchewan*

Maximizing Experimental Power Through Dynamic Treatment Assignment

Stephen N. Morgan, University of Florida; *Bachir Kassar, University of Florida*

Incorporating Visual Attention Measures to Control for Attribute Non-Attendance: Preferences for Eco-Friendly Residential Landscapes

Xumin Zhang, University of Florida; *Hayk Khachatryan, University of Florida*

Experimental Auctions Versus Real Choice Experiment: An Empirical Application Using Homegrown and Induced Value Experiments

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

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

2009 Studies of Food Retailing

Suite 3803, 38th Floor

Selected Presentation

This session features studies examining aspects of consumer retail behavior in online and in grocery store environments. A variety of U.S. and international market settings are considered.

Moderator: Guzhen Zhou, Jiangxi University of Finance and Economics

Consumer and Retailer Preferences for Local Dairy Products: Evidence from Stacked Choice Experiment Surveys in Urban Mali
Ryan Vroegindewey, Michigan State University; Robert B. Richardson, Michigan State University; David L. Ortega, Michigan State University; Veronique Theriault, Michigan State University

Impact of a "Point-of-Purchase Nudge" on Fruit and Vegetable Consumption: Evidence from Supermarket Experiment

Sanghyo Kim, Korea Rural Economic Institute; Yeon A Hong, Korea Rural Economic Institute

Drivers of Online Grocery Shopping

Chinonso E. Etumnu, Purdue University; Kenneth A. Foster, Purdue University; Nicole Olynk Widmar, Purdue University; Jayson L. Lusk, Purdue University; David L. Ortega, Michigan State University

2010 U.S. Food Assistance Programs: A Focus on Food Retailers

Suite 3803, 38th Floor

Selected Presentation - Discussant Test Session

The majority of SNAP benefits are redeemed at superstores or supermarkets. This session explores how SNAP and WIC payments affect food retailers and the food industry more broadly. Papers in this session will consider impacts of food assistance programs and consumption on retail prices, the number of food stores, retailer employment, employee compensation, and entry and exit of supermarkets.

Moderator: Jordan W. Jones, Georgia State University

Food Retailer Response to the Supplemental Nutrition Assistance Program

Jordan W. Jones, Georgia State University

Impact of WIC Changes on Retailer Participation and Sales

Charlotte Ambrozek, University of California, Davis; Timothy Beatty, University of California, Davis; Marianne Bitler, University of California, Davis

Do Food Assistance Programs Affect Retailers?

Marianne Bitler, University of California, Davis; Timothy Beatty, University of California, Davis; **Cynthia Van Der Werf**, University of California, Davis

Effects of SNAP Policy Changes on Caloric Acquisition and Economic Welfare in the United States

Aaron M. Ates, Oklahoma State University; Rodney B. Holcomb, Oklahoma State University

2012 U.S. Labor Policy, and Impact on Migration and Rural Labor Markets

Suite 3824, 38th Floor

Selected Presentation - Discussant Test Session

Papers in this session examine the impact of U.S. immigration policy and labor regulations on rural labor market outcomes.

Moderator: Maria I. Marshall, Purdue University

The Effect of Agglomeration and Immigration on Dairy Farm Wage Premiums in Texas

Uthra K. Raghunathan, U.S. Department of Agriculture; Dong Li, University of Texas at Dallas

The Short-Run Impacts of Immigration on Native Workers: A Sectoral Approach

Pierre Mérel, University of California, Davis; **Zach Rutledge**, University of California, Davis

The Impact of Full Scope-of-Practice Regulation on the Rural Labor Supply of Nurse Practitioners: Implications for Farm Health in the United States

Tianyuan Luo, University of Florida; Vahé Heboyan, Augusta University

The Determinants of U.S. Agricultural Wages

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

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

2013 International Development - Nutrition Lightning Session

Suite 3839, 38th Floor

Selected Presentation - Lightning Session

This session addresses many facets about food consumption: biofortified foods, processed foods, preferences for local production, determinants of food security, measurement of nutrition. It's all here!

Moderator: Jose E. Funes, University of Maryland at College Park

Advancing the Use of Household Surveys for Nutrition: Nutrient Adequacy at the Household Level and the Cost Of Nutritious Diets in Malawi

Kate Schneider, Tufts University; **William A. Masters**, Tufts University

Spilt Milk: Measuring the Indirect Effects of Livestock Ownership in Rural Zambia

Lila Cardell, University of Illinois at Urbana-Champaign

The Impact of Iron Biofortified Beans on Yields and Farmers' Incomes: The Case of Rwanda

Jose E. Funes, University of Maryland at College Park; **Todd Benson**, International Food Policy Research Institute; **Laixiang Sun**, University of Maryland; **Fernando Sedano**, University of Maryland; **Ekin Birol**, International Food Policy Research Institute

Does Nigeria come First? An Analysis of Consumers' Ethnocentric Behavior in Food Consumption

Valerie Kilders, Michigan State University; **Vincenzina Caputo**, Michigan State University; **Saweda Liverpool-Tasie**, Michigan State University

Affordability of Nutrient Adequacy and Dietary Energy in Ethiopia, 2001-2017

Fantu Bachew, International Food Policy Research Institute; **William A. Masters**, Tufts University; **Yan Bai**, Tufts University

Introducing Safety Labels in Complex Food Supply Chains: Evidence from a Choice Experiment in Nigeria

Awa Sanou, Michigan State University; **Saweda Liverpool-Tasie**, Michigan State University; **Vincenzina Caputo**, Michigan State University

Active Markets and Household Food Security: Evidence from Zambia

Patrese Anderson, University of Illinois at Urbana-Champaign; **Kathy Baylis**, University of Illinois at Urbana-Champaign

2014 International Development - Education

Suite 3903, 39th Floor

Selected Presentation

This session gives evidence for various strategies affecting educational quality and school enrollment.

Moderator: Kajal Gulati, IMPAQ International, LLC

Education Reform in Zimbabwe: A Pseudo-panel Approach

Zeya Zhang, Virginia Tech; **Jeffrey Alwang**, Virginia Tech

Impact of Internet Access on Student Learning in Peruvian Schools

Kevin Kho, Food and Drug Administration; **Leah Lakdawala**, Michigan State University; **Eduardo Nakasone**, Michigan State University

Solution or Isolation: Is Boarding School a Good Solution for Left-behind Children in Rural China?

Mengqi Liu, University of New Mexico; **Kira M. Villa**, University of New Mexico

The Impact of Food for Education Program on Literacy Improvement in Mali

Kajal Gulati, IMPAQ International, LLC; **Elnaz Safarha**, IMPAQ International, LLC

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

2015 Topics in Natural Resources and Development: Lightning Session

Suite 3919, 39th Floor

Selected Presentation - Lightning Session

This lightning session includes a diverse set of papers on natural resources issues in the development context. Topics range from forests in Malawi to water pricing in Brazil.

Moderator: Justin S. Baker, RTI International

Gibrat's Law for CO2 Emissions

*Behzod B. Ahundjanov, Texas Tech University; **Sherzod B. Akhundjanov**, Utah State University*

Nutrition Protection with Natural Insurance: The Role of Forests in Malawi

***Kelvin H. Mulungu**, Colorado State University; Dale Manning, Colorado State University*

The Effect of Resource Wealth on Regional Economic Development in China

***Na Zuo**, University of Arizona; Hua Zhong, Beihang University*

Worker Location Decisions by Skill Level: The Welfare Impacts of Weather Shocks and Industry Composition on the Demand for High and Low Skill Labor

***Deshamithra H.W. Jayasekera**, The Pennsylvania State University; Douglas H. Wrenn, The Pennsylvania State University; Karen Fisher-Vanden, The Pennsylvania State University*

Distributional Consequences of Small-Scale Fisheries Reform in Developing Countries

***Ted E. Gilliland**, Mount Holyoke College; James N. Sanchirico, University of California, Davis; L. Edward Taylor, University of California, Davis*

Moderator.

Is Water Pricing an Efficient Instrument to Ration Brazilian Agricultural Water Consumption?

*Daniela B. Bartholomeu, University of São Paulo; **Paulo Nocera Alves Jr.**, University of São Paulo; José V. Caixeta-Filho, University of São Paulo; José C. Cruz Jr., Federal University of São Carlos*

Conflict Between Riparian Countries

***Sahar Yousef**, The Ohio State University*

Climate Change Impacts, International Trade, and Food Security

***Justin S. Baker**, RTI International; Petr Havlík, International Institute for Applied Systems Analysis; Tamas Krisztin, International Institute for Applied Systems Analysis; Tomoko Hasegawa, NIES*

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

2016 Production Economics - New Insights from Livestock Economics Research: Lightning Session

Suite 3924, 39th Floor

Selected Presentation - Lightning Session

Papers in this session highlight new insights related to the production, health, marketing, and management of livestock in the U.S.

Moderator: Matthew J. MacLachlan, USDA-Economic Research Service

Milked for All Their Worth: Analyzing the Costs of Animal Mortality on Wisconsin Dairies

Jared P. Hutchins, University of Wisconsin-Madison

The Effects of Contracting on Biosecurity Effort by U.S. Swine Producers

James L. Mitchell, Kansas State University; **Glynn T. Tonsor**, Kansas State University; **Lee Schulz**, Iowa State University

Estimating the Effect of Beef Quality Assurance (BQA) on Video Cattle Prices in the U.S. West

Daniel F. Mooney, Colorado State University; **Miles M. Rollison**, Colorado State University; **Jason K. Ahola**, Colorado State University

Are Cattle Feeding Operations Moving North? An Empirical Analysis of the USDA "Cattle on Feed" Reports

Prasanna Surathkal, Texas State University; **Madan M. Dey**, Texas State University

Tracking the Changing Valuation of Beef Bull Attributes

Minfeng Tang, Purdue University; **Nathanael M. Thompson**, Purdue University; **Christopher M. Boyer**, University of Tennessee; **Nicole Olynk Widmar**, Purdue University; **Jayson L. Lusk**, Purdue University; **Terry S. Stewart**, Purdue University; **Donna L. Lofgren**, Purdue University; **Nick Minton**, Purdue University

Comparing Willingness to Supply and Willingness to Pay for Cattle Traceability: A Novel Assessment of Both Supply and Demand Factors Driving Provision of Production Practice Information in Modern Food Systems

Glynn T. Tonsor, Kansas State University; **James L. Mitchell**, Kansas State University; **Lee Schulz**, Iowa State University

The Impacts of Federal Anti-Microbial Guidance on the Livestock Industry

Matthew J. MacLachlan, USDA-Economic Research Service; **Christina Letsou**, Boston College; **Stacy E. Sneeringer**, USDA-Economic Research Service

2017 Productivity Analysis and Emerging Technologies - New Data Methods for Crop and Livestock Production

Suite 3934, 39th Floor

Selected Presentation - Discussant Test Session

Advances in data and methods are enabling novel approaches to analyzing technical efficiency and productivity in major crop and livestock production systems around the world.

Moderator: Simone Pieralli, French National Institute for Agricultural Research

How to Double Yields in 50 Years: Lessons from Across the Great Plains

Federico J. Trindade, University of Washington; **Lilyan E. Fulginiti**, University of Nebraska-Lincoln; **Richard K. Perrin**, University of Nebraska-Lincoln

The Millennium Droughts and Australian Agricultural Productivity Performance: A Nonparametric Analysis

Robert G. Chambers, University of Maryland; **Yu Sheng**, Peking University; **Simone Pieralli**, French National Institute for Agricultural Research

Technical Efficiency of Family Dairy Farms: The Experience of a Climate Resilience Program in Brazil

Alexandre Gori Maia, University of Campinas; **Camila Veneo Campos Fonseca**, University of Campinas; **Rodrigo Lanna F. Silveira**, University of Campinas; **Jennifer Burney**, University of California, San Diego; **Daniele Cesano**, Onda Verde Consultancy

Decomposing U.S. Agricultural Productivity into Weather Shocks, Technical Change, Scale Effects, Input Price Effects, and Cost Efficiency

Alejandro Plastina, Iowa State University; **Ariel Ortiz-Bobea**, Cornell University; **Sergio H. Lence**, Iowa State University

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

2018 Water Use and Conservation

Suite 3939, 39th Floor

Selected Presentation - Discussant Test Session

The four papers in this session examine market, policy, and institution factors that affect water use and conservation in the United States.

Moderator: R. Aaron Hrozencik, USDA-Economic Research Service

The Effects of Groundwater Policies and Economic Factors on the Timing of Well Drilling Decisions

Qianyu Zhang, *University of Nebraska-Lincoln*; **Karina Schoengold**, *University of Nebraska-Lincoln*; **Taro Mieno**, *University of Nebraska-Lincoln*

Evaluating Alternative Institutions for Improving Water Allocation and Use Efficiency: Case Studies from the Western United States

Gi-Eu Lee, *University of Nevada, Reno*; **Kimberly S. Rollins**, *University of Nevada, Reno*; **Loretta Singletary**, *University of Nevada, Reno*

Spatial Spillovers from Conservation Policies in Common Property Resources

Mani Rouhi Rad, *Colorado State University*; **Dale Manning**, *Colorado State University*; **Jordan F. Suter**, *Colorado State University*; **Christopher Goemans**, *Colorado State University*

Resource Conservation and Input Markets: Assessing the Spillovers of Groundwater Conservation

Jordan F. Suter, *Colorado State University*; **R. Aaron Hrozencik**, *USDA-Economic Research Service*

2019 Risk and Uncertainty - Climate Change and Development

Suite 4003, 40th Floor

Selected Presentation

Papers in this session explore risk management strategies when faced with climate change in developing countries. Risk preferences and development strategies are also examined.

Moderator: Aditya R. Khanal, Tennessee State University

Climate Shocks and Risk Diversification: A Profit Approach to Pastoralists Decision-Making in Southern Ethiopia.

Anne G. Timu, *University of Nebraska-Lincoln*

Production Risk Management in Agriculture and Farm Performance in Rural Pakistan: Role of Adaptation to Climate Change

Muhammad Faisal Shahzad, *University of Kiel*; **Awudu Abdulai**, *University of Kiel*

Risk Preferences and Development Interventions: Evidence from Lesotho

Noemi Pace, *Food and Agriculture Organization of the United Nations*; **Silvio Daidone**, *Food and Agriculture Organization of the United Nations*

Risk Preference and Adoption of Risk Management Strategies: Evidence from High-Value Crop Production in Emerging Economy

Aditya R. Khanal, *Tennessee State University*; **Ashok K. Mishra**, *Arizona State University*; **Anjani Kumar**, *International Food Policy Research Institute*

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

2020 The Role of Weather Variability and Climate Change on Risk Management and Insurance

M107, Marquis Level

Track Session - ARA, Econometrics, ENV Sections

Interannual weather variation is a large source of risk that nearly all agricultural commodity producers must manage, and this risk exposure is likely to become larger under climate change. These papers will focus on the role of weather variability and longer run weather changes (ie, climate change) and it's implications for various risk management tools, including the Federal Crop Insurance Program, which is the dominant federal safety net policy for the U.S. agricultural system. The included panelists have utilized innovative econometric techniques for modeling various relationships among weather, production risk, and crop insurance. The session will focus on the state of research in this area, while attempting to identify areas for future research.

Organizer: Jesse B. Tack, Kansas State University

Moderator: Eric Belasco, Montana State University

Using Historical Weather Data to Price Crop Insurance Revenue Products

Jesse B. Tack, Kansas State University; **Barry J. Barnett**, University of Kentucky; **Keith H. Coble**, Mississippi State University; **Jisang Yu**, Kansas State University

A Near Real Time Forecasting System of U.S. Crop Yields

Ariel Ortiz-Bobea, Cornell University; **Zhiyun Li**, Cornell University

Estimating Non-additive Within-season Temperature Effects on Maize Yields Using Bayesian Approaches: Implications on the Cost of the Federal Crop Insurance Program

Jisang Yu, Kansas State University; **Gyuhyeong Goh**, Kansas State University

Impacts of Climate Change on the Profitability of and Choices to Enroll in the Pasture, Rangeland and Forage Rainfall Index Insurance Program

Daniel A. Sumner, University of California, Davis; **Qianyao Pan**, University of California, Davis; **Jisang Yu**, Kansas State University

2021 Recent Economics and Econometric Developments in Food Consumption, Nutrient Demand, and Binding Nonnegativity Constraints

M101, Marquis Level

Track Session - AUS Section

This session will address structural models of hedonic price functions, the induced demand for nutrition, new models of demand, and a novel model and estimation method for binding non-negativity constraints in food consumption.

Organizer: Jeffrey T. LaFrance, Monash University

Discussants: Timothy Beatty, University of California, Davis; Nicholas E. Piggott, North Carolina State University

Estimation of Hedonic Prices and the Demand for Nutrients

Jeffrey T. LaFrance, Monash University; **Hayley H. Chouinard**, Colorado State University; **Philip R. Wandschneider**, Washington State University; **Michael Ward**, Monash University

Econometrics of Binding Non-Negativity Constraints in Food Demand

Thomas L. Marsh, Washington State University; **Hayley H. Chouinard**, Colorado State University; **Xi Gu**, Washington State University; **Jeffrey T. LaFrance**, Monash University; **Michael Ward**, Monash University

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

2022 Not Even One Drink? Exploring the Relationship of Alcohol and Health

Suite 4039, 40th Floor

Track Session - BEER Section

Most health guidelines support moderate levels of drinking. However, a recent study in the Lancet suggests that no amount of alcohol consumption is safe for overall health. The presentations in this session further examine the relationship between health and alcohol consumption. The first presentation uses Mendelian randomization on genetic variation to investigate the causal influence of alcohol consumption on various health outcomes. The sample includes about 3,000 respondents from mainland China. The second presentation combines U.S. household alcohol purchases with information on individual health information. The presenters explore whether light beer is actually a healthier choice given it is consumed more but lacks many of the nutritional aspects of regular beer. The final presentation uses recent consumer surveys to evaluate the relationship between beer consumption and attitudes about the healthiness of their diet, fast food, calories, exercise, and eating well.

Organizer: Joshua P. Berning, Colorado State University

Moderator: Joshua P. Berning, Colorado State University

Alcohol Consumption and Health Outcomes: Evidence from Mendelian Randomization

Chen Zhu, China Agricultural University; **Timothy Beatty**, University of California, Davis; **Jun Wang**, Renmin University of China

Is Light Beer the Healthier Choice? Evidence from Scanner Data

Richard J. Volpe III, California Polytechnic State University; **Michael P. McCullough**, California Polytechnic State University, San Luis Obispo

Assessing Beer Consumption and Health Attitudes

Thomas I. Wahl, North Dakota State University; **James L. Seale Jr.**, University of Florida

2023 Agricultural Production, Supply, and Environment Concerns in China - Lightning Section

M102, Marquis Level

Track Session - China Section

This session examines a broader spectrum related to agricultural production, supply chain, both traditional and online marketing channels, price volatility, and environmental concerns as well as subsidy policy changes about China's agricultural industry.

Organizer: Jian Zhang, Central University of Finance and Economics

The Multi-factors Allocation Along with Agricultural Large-scale Operation

Wenjue Zhu, South China Agricultural University; **Biliang Luo**, South China Agricultural University; **Krishna P. Paudel**, Louisiana State University

The Impact of Social Capital on Local Public Goods Provision: Evidence from China

Li Li Li, Zhejiang University; **Zhonggen Zhang**, Zhejiang University

Environmental Policy, Fertilizer Usage and Water Pollution: The Impact of "Action Plan for Prevention and Control of Water Pollution" in China

Yansang Yao, Zhejiang University; **Jingqi Dang**, Zhejiang University

Effect of Direct Subsidy on Technical Efficiency of Grain Production: A Case Study with County-level Panel Data of Hubei Province, China

Xinyi Li, China Agricultural University; **Guoqiang Cheng**, Tongji University

Climate Change and Agricultural Productivity: Evidence from China

Shuai Chen, Zhejiang University; **Binlei Gong**, Zhejiang University

Benefit Analysis of Target Price Subsidy Policy Research Based on Market Price Formation and Price Volatility

Li Tang; **Xiaoji Hu**, Renmin University of China; **Xiqin Wang**, Renmin University of China

Valuation of Social Responsibility by Emerging Country Consumers

Yu Jiang, Zhejiang University; **Hong Holly Wang**, Zhejiang University & Purdue University; **Shaosheng Jin**, Zhejiang University

Does Farmer's Ecommerce Adoption Exacerbate Rural Income Inequality?

Xiaokang Li, Zhejiang University; **Songqing Jin**, Michigan State University; **Hongdong Guo**, Zhejiang University; **Dongshi Chen**, Zhejiang University

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

2024 Strategies to Promote Diversity and Inclusion in Our Profession

M105, Marquis Level

Track Session COSBAE & CWAE Sections

This session will address diversity and inclusion in the agricultural and applied economics profession as well as the broader economics profession. We will present results of a 2019 survey assessing the status of women and minorities in the profession as well as department and university-level initiatives to recruit and retain women and minorities. Following the presentation of results, we will have a panel discussion. Panel members represent perspectives of professional organizations, college- and university-level administrations, and scholarly research on the topic.

Organizer: Kelly A. Grogan, University of Florida

Panelists: Kasey Buckles, Notre Dame University; Sarah Jacobson, Williams College; Anna Josephson, University of Arizona; Dave D. Weatherspoon, Michigan State University

2025 Understanding Agricultural Producer's Challenges with Agritourism and Direct Sales Enterprises

M104, Marquis Level

Track Session - EXT Section

Agritourism has become an important diversification option for agricultural producers that struggle with falling commodity prices. The proposed track session will look at producers' challenges and identify how they can assess key opportunities and leverage barriers to business success both on the farm and as a part of collective initiatives to build regional viability. The session will also compare agritourism and direct sales opportunities in the Western and Eastern parts of the nation. While not a traditional economic extension topic, the ongoing struggle with major agricultural commodities has many producers searching for alternative options, which is evident in increased information requests received by land grant university extension services.

Organizer: Claudia Schmidt, The Pennsylvania State University

Agritourism in the West: What Influences Agritourism Operation Location and Management Decisions?

Dawn D. Thilmany McFadden, Colorado State University; **Martha J. Sullins**, Colorado State University

Harnessing the Power of Community in Agritourism Clusters – Perspectives from Both Sides of the Fence

Doolarie Singh-Knights, West Virginia University

Agritourism and Direct Sales on Small and Medium Farms: Critical Success Factors through a Multi-State Lens

Lindsay Quella, University of Vermont; **David S. Conner**, University of Vermont; **Lisa Chase**, University of Vermont; **WeiWei Wang**, University of Vermont; **Doolarie Singh-Knights**, West Virginia University; **Penny Leff**, University of California-Davis; **Mary Stewart**, Oregon State University; **Cynthia Messer**, University of Minnesota

Success Factors and Barriers for Pennsylvania's Agricultural Producers to Increase Farm Profitability with Agritourism and Direct Sales

Claudia Schmidt, The Pennsylvania State University; **Stephan J. Goetz**, The Pennsylvania State University; **Sarah Cornelisse**, The Pennsylvania State University

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

2026 What Lies Ahead of the U.S. Dairy Sector? Crop Insurance, Retaliatory Tariffs, and the Dairy Pride Act

M301, Marquis Level

Track Session - AEM & FAMPS Sections

This track session analyzes the effects of recent and future policy changes on the U.S. dairy industry. The first paper studies the effect of changes introduced in the Bipartisan Budget Act of 2018 on dairy crop insurance and Farm Bill program adoption rates, policy costs and the dairy sector's consolidation. The second contribution studies domestic spillovers of protectionist U.S. trade policies, investigating the effects for U.S. dairy farmers and processors of Mexico and China's retaliatory tariffs on U.S. dairy exports. The other two contributions focus on the Dairy Pride Act, a bill calling for a stricter use of the term "milk" for dairy products only. A first paper uses a discrete choice experiments to test whether new labels will reduce substitution between dairy milk and plant-based milk substitutes, whereas the last paper studies how consumers allocate dairy and non-dairy milk expenditures by deriving and implementing a test for weak separability using scanner data and an EASI demand model.

Organizer: Alessandro Bonanno, Colorado State University

Moderator: Joleen C. Hadrach, University of Minnesota

Evaluating the 2018 Reforms of the U.S. Dairy Safety Net

Marin Bozic, University of Minnesota; **John C. Newton**, American Farm Bureau Federation; **Kyle Jore**, University of Minnesota

Estimated Economic Impacts of Retaliatory Tariffs by China and Mexico on U.S. Dairy Products

Luis A. Ribera, Texas A&M University; **Flynn J. Adcock**, Texas A&M University; **Jianhong E. Mu**, Texas A&M University

Can You Really Milk an Almond? Predicting Effects of Mandatory Labeling Changes in U.S. Dairy Markets

Christopher A. Wolf, Michigan State University; **Trey Malone**, Michigan State University

Separated at Milk? Testing for Separability along Multiple Dimensions in a Dairy & Non-Dairy Milk Demand System

Armen Ghazaryan, Colorado State University; **Alessandro Bonanno**, Colorado State University; **Clare Cho**, USDA-Economic Research Service

2027 New Advances in the U.S. Supplemental Poverty Measure

L402, Lobby Level

Track Session - FSN & Senior Sections

Following decades of research on poverty measurement, the Census Bureau, in cooperation with the Bureau of Labor Statistics, released the first Supplemental Poverty Measure (SPM) estimates in a 2011 report. Since then, no major changes have been made to the measure, but research on potential improvements is ongoing. The Office of Management and Budget has established an interagency technical working group, which has set 2021 as a target for implementing methodological improvements. This panel would explore proposals for improvements to the SPM, including: 1) incorporating in-kind benefits into the threshold, 2) valuing nutrition assistance programs; and 3) alternative geographic adjustments to thresholds. The SPM is vital to more completely understanding poverty in the U.S. and, particularly, to understanding need for and anti-poverty effects of USDA nutrition assistance programs overall, in rural and urban communities, and for subgroups of the population.

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

Moderator: Travis A. Smith, University of Georgia

Discussant: Parke E. Wilde, Tufts University

Accounting for In-kind Benefits in Thresholds to Consistency with Resources

Thesia I. Garner, Bureau of Labor Statistics; **Juan Munoz**, Bureau of Labor Statistics

Improving Estimation of Nutritional Assistance Programs in the Supplemental Poverty Measure

Liana Fox, U.S. Census Bureau; **Kathryn Shantz**, U.S. Census Bureau; **Laryssa Mykyta**, U.S. Census Bureau

Incorporating Amenities into Geographic Adjustments for Shelter Costs in the Supplemental Poverty Measure

Trudi J. Renwick, U.S. Census Bureau

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

2028 Career Opportunities for Graduates in Agricultural and Applied Economics

M103, Marquis Level

Track Session - GSS Section

While a large percentage find employment in academia, there are several opportunities available for graduate students elsewhere. This session gathers professionals across governmental agencies and academia to provide attendees with information about occupations in their respective fields as well as career advice. This session will be beneficial to those who are preparing to enter the job market or interested in exploring careers in the agricultural and applied economics sector.

Organizers: Logan L. Britton, Oklahoma State University; William E. Maples, Oklahoma State University

Moderator: Logan L. Britton, Oklahoma State University

Career Opportunities at the Economic Research Service

Jeffrey M. Gillespie, *USDA-Economic Research Service*

Career Opportunities at the Federal Reserve Bank

Cortney A. Cowley, *Federal Reserve Bank of Kansas City*

Career Opportunities at the Centers for Disease Control and Prevention

Tbd Tbd, *Centers for Disease Control and Prevention*

Career Opportunities in Academia

John A. Fox, *University of Illinois at Urbana-Champaign*

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

2029 **Advancements in Experimental and Behavioral Methods Used in Agricultural Economics - Lightning Session**
Suite 4019, 40th Floor

Track Session - EXECON & IBES Sections

This session is designed to highlight developments of experimental and behavioral economic methods. This topic is of great importance given the increasing use of experiments. The first four papers cover recent findings from eye-tracking, highlighting the role of visual attention, and attribute cut-off values on choice behavior. The use of sophisticated models combining choice experiments and eye tracking will also be discussed. Next, methodological issues of choice experiments are addressed by studying the effects of various ex-ante mitigation hypothetical bias techniques on welfare estimates. Following is an innovative experiment that uses glucose monitors exploring the dynamic effects of fast food on blood glucose and dietary behavior. Process-based models help explain choices and provide valuable insights in policy-making. Finally, two papers present producer experiments. The first examines cattle producer management, and the second applies institutional economic theory to soybean producer decision-making.

Organizers: Vincenzina Caputo, Michigan State University; Carola Grebitus, Arizona State University

Moderator: Hayk Khachatryan, University of Florida

Studying Visual Attention during Food Choice Behavior

Ellen J. Van Loo, Wageningen University; Carola Grebitus, Arizona State University; Wim A.J. Verbeke, University of Ghent

Using Attention to Nutrition Information During Passive Viewing to Predict Subsequent Choice

Brandon R. McFadden, University of Delaware; Alicia Rihn, University of Florida; Xuan Wei, University of Florida; Zachary Neuhofer, University of Florida; Hayk Khachatryan, University of Florida

The Effect of Attribute Cut-off Values on Decision Making: An Eye-tracking Experiment

Carola Grebitus, Arizona State University; Ellen J. Van Loo, Wageningen University

Going Beyond Choice Outcomes to Infer Preferences: How Eye-tracking Can Improve Our Understanding of the Choice Process

Samir Huseynov, Texas A&M University; Marco A. Palma, Texas A&M University; Ghufraan Ahmad, National University of Sciences and Technology

The Use of Ex-ante Hypothetical Bias Techniques in Developing Countries: An Application on Consumer Preference for Aflatoxin-safe Products in Nigeria

Vincenzina Caputo, Michigan State University; Saweda Liverpool-Tasie, Michigan State University

Behavioral Response to Controlled Dietary Intake with Continuous Glucose Monitoring

Trenton G. Smith, University of Otago; Nathan Berg, University of Otago; Bernard Venn, University of Otago

Experimental Evidence on the Make-Buy Pesticide Application Decision

Trey Malone, Michigan State University; Braeden Van Deynze, Michigan State University

Implementation of a Producer Survey: Examining Cattle Producer Management of Horn Flies

Karen L. DeLong, University of Tennessee; R.T. Trout Fryxell, University of Tennessee; Susan Schexnayder, University of Tennessee; Andrew P. Griffith, University of Tennessee; David Taylor, USDA-Agricultural Research Service; Pia Olafson, USDA-Agricultural Research Service; Lettie McKay, University of Tennessee

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

2030 Strategies to Adapt to and Mitigate the Effects of Climate Change in Latin America

L401, Lobby Level

Track Session - International & LAS Sections

Understanding the effects of climate change and farmers strategies to adapt to these changes is important. Papers in this session seek to analyze how new technologies, practices, and crop mixes can help farmers mitigate and adapt to the effects of climate change. The first two papers evaluate the optimal crop-mix in the presence of carbon sequestration incentives, and the optimal portfolio of production activities that maximize net farm revenue in Colombia. The third paper analyzes the association among livelihood capitals and environmental vulnerability with farmers' investments in social and ecological adaptation strategies to increases in temperature in the Bolivian High Plateau. The fourth paper identifies factors affecting Ecuadorian potato farmers' decisions to adopt production practices that help both mitigate the effects of climate change and reduce GHG emissions associated with the use of nitrogen fertilizers.

Organizer: Graciela C. Andrango, Western Illinois University

Moderator: Alexis H. Villacis Aveiga, Virginia Tech

Carbon Sequestration Incentives in Policy Government: Application in Optimization Modeling

Luis M. Peña-Lévano, University of Florida; **Paul Preckel**, Purdue University; **James M. Lowenberg-DeBoer**, Harper Adams University; **Carlos A. Fontanilla-Díaz**, Purdue University; **Emiliano López Barrera**, Purdue University; **Kenneth A. Foster**, Purdue University; **John H. Sanders**, Purdue University; **Kevin Jerez**, South Dakota State University

Optimal Crop Choices for the Altillanura, the Last Agricultural Frontier from Colombia

Carlos A. Fontanilla-Díaz, Purdue University; **Paul Preckel**, Purdue University; **James M. Lowenberg-DeBoer**, Harper Adams University; **John H. Sanders**, Purdue University; **Luis M. Peña-Lévano**, University of Florida

Landscapes, Livelihoods and Resilience in the Context of Climate Change in Andean Landscapes

Corinne Valdivia, University of Missouri; **Karina Yager**, Stony Brook University, New York; **Elizabeth Jiménez**, Universidad Mayor San Andres; **Shirley Rojas Salazar**, University of Missouri

Determinants of Potato Farmers' Adoption of Agricultural Practices to Mitigate Climate Change Effects in the Andean Region of Ecuador

Graciela C. Andrango, Western Illinois University; **Jeffrey Alwang**, Virginia Tech; **Víctor Barrera Mosquera**, INAIA-Ecuador; **Luis Escudero**, National Institute of Agricultural and Livestock Research of Ecuador; **Juan Manuel Domínguez**, ESPAE Graduate School of Management

2511 Food Access and Nutritional Quality of Low-Income Americans and SNAP Participation

Suite 3819, 38th Floor

Selected Presentation

Low-income Americans have difficulty accessing and purchasing nutrient-dense foods. Presenters in this session explore how distance from grocers, the SNAP benefit cycle, housing assistance, transaction costs, and SNAP participation affect food purchases and nutritional quality. The papers push the boundaries of the literature on food access for low-income Americans with new data, adapted methods, and innovative research questions.

Moderator: Emiliano López Barrera, Purdue University

Do Food Deserts Affect Food Insecurity when Defined More Broadly?

Jared D. Grant, University of Georgia; **Jeffrey H. Dorfman**, University of Georgia

Transaction Costs and the SNAP Benefit Cycle

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

Differences in Nutrition Quality of Grocery Purchases Between SNAP Participants and Non-participants: Evidence from Food APS

Yu Chen, The University of Georgia; **Biing-Hwan Lin**, USDA-Economic Research Service; **Chen Zhen**, University of Georgia

SNAP as Housing Assistance: Using a Fuzzy Regression Kink Design to Examine the SNAP Excess Shelter Deduction and Housing-related Financial Stress

Mehreen Ismail, Tufts University; **Parke E. Wilde**, Tufts University

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

2031 **USDA Forecast Quality: Current State and Paths for Improvement**

Suite 3819, 38th Floor

Invited Paper

This session is designed to examine the quality of USDA forecasts and offer suggestions for their improvement. It provides a better understanding of how various USDA forecasts are currently calculated and the problems with the accuracy and efficiency in these forecasts, and explores innovative methods for addressing these problems.

Organizer: Berna Karali, University of Georgia

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

Discussant: Joseph W. Glauber, International Food Policy Research Institute

Relative Accuracy of USDA Crop Acreage and Production Forecasts

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

Evaluating USDA Forecasts of Farm Sector Accounts

Olga Isengildina Massa, Virginia Tech; Berna Karali, University of Georgia; Todd H. Kuethe, University of Illinois at Urbana-Champaign; Ani Katchova, The Ohio State University

Improving USDA Commodity Price Forecasts

Michael K. Adjemian, USDA-Economic Research Service; Valentina Bruno, American University; Michel A. Robe, University of Illinois at Urbana-Champaign

2032 **Food Waste and Loss: Global Perspectives and Local Challenges**

M106, Marquis Level

Organized Symposium

The purpose of this proposed symposium is to discuss the linkages between food waste, food security, and environmental health. It includes both global perspectives and local analyses of potential solutions. This session aims to shed light on food waste-related issues faced both in industrialized countries where consumer food waste is dominant and developing regions where post-harvest losses are more important. The proposed symposium will start by addressing global patterns of food waste and the potential for mitigation of these losses to improve environmental outcomes to then shift to specific insights for reducing food waste across different stages of the supply chain.

Organizers: Thomas W. Hertel, Purdue University; Emiliano López Barrera, Purdue University; Brian E. Roe, The Ohio State University

Moderator: Jayson L. Lusk, Purdue University

Discussant: Prabhu L. Pingali, Cornell University

Panelists: Kathryn A. Boys, North Carolina State University; Thomas W. Hertel, Purdue University; Emiliano López Barrera, Purdue University; Danyi Qi, Louisiana State University; Brian E. Roe, The Ohio State University

“Linking Food Availability and Waste in the Global Economy

Emiliano López Barrera, Purdue University; Thomas W. Hertel, Purdue University

“Putting Dollars to Waste: Estimating the Value of On-Farm Food Loss

Kathryn A. Boys, North Carolina State University; Rebecca Dunning, North Carolina State University

“Household Food Waste and Home Livestock Production: Implications of Market Liberalization for Food Waste”

Danyi Qi, Louisiana State University; Wangyang Lai, The Ohio State University; Brian E. Roe, The Ohio State University

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

2033 Pull Mechanisms and Prize Contests in the Field: Impacts of AgResults and Other Innovation Incentives

Suite 3939, 39th Floor

Organized Symposium

Pay-for-result competitions are often introduced by funders in agriculture and other sectors, offering “pull mechanisms” to reward results that are difficult to fund through traditional grants or contracts. New incentives create demand for innovation beyond existing markets, pulling efforts towards the funder’s criteria for prize payments. This AAEA symposium will debate the strengths and limitations of pay-for-results approaches, focusing on impacts to date of the multi-donor \$147 million AgResults program and other recent studies.

Organizer: Tulika Narayan, Abt Associates Inc.

Panelists: William A. Masters, Tufts University; Brian D. Wright, University of California, Berkeley

Pull Mechanisms and Prize Contests in the Field: Impacts of AgResults and Other Innovation Incentives

Tulika Narayan, Abt Associates Inc.

2034 Info-Metrics for Modeling and Inference

M103, Marquis Level

Organized Symposium

Info-metrics is a framework for rational inference based on insufficient information. It provides a logical framework for converting input information – including complex, noisy and uncertain information – into useful knowledge. It is the science of modeling, reasoning, and drawing inferences under conditions of noisy and insufficient information. It is at the intersection of information theory, statistical inference, and decision-making under uncertainty. It is a framework for modeling and processing the available information with minimal reliance on assumptions that cannot be validated. It provides a simple and efficient way for modeling all types of economic systems and problems. It plays an important role in helping make informed decisions and improved policies. It is, therefore, a valuable tool for all researchers and modelers, for studying and analyzing policies, and for establishing improved forecasts and predictions. The objective of this symposium is to demonstrate the info-metrics framework and tools for solving a host of common problems faced by agricultural and applied economists. In addition to the basic state of the art framework and tools, a special emphasis will be put on modeling and prediction.

Organizers: Amos Golan, American University; Ximing Wu, Texas A&M University

Moderator: Ron C. Mittelhammer, Washington State University

Discussant: Ron C. Mittelhammer, Washington State University

Panelists: Amos Golan, American University; Paul Preckel, Purdue University; Ximing Wu, Texas A&M University

2035 Agricultural Cooperatives and ICT Technology Application in Agriculture

M108, Marquis Level

Selected Presentation

This session has a dual focus involving examination of issues related to agricultural cooperatives and the role of information and communication technology application in agriculture.

Moderator: Zhengfei Guan, University of Florida

Social Embeddedness and Rural Cooperation: The Moderating Effects of National Culture on the Governance of Farmer Cooperatives

Qiao Liang, Zhejiang University; Han Dong, Zhejiang University; Adrian Bailey, Exeter University; Weibin Hu, Zhejiang University; Fu Jia, York University

Cooperative Member Commitment, Trust and Social Pressure

Jinghui Hao, Huazhong Agricultural University; *Jos Bijman, Wageningen University; Wim Heijman, Wageningen University; Caifeng Tan, Huazhong Agricultural University*

An Analysis of the Fair Profit Distribution in the Smart Farm Rental Business using a Shapley-value Approach

Miseok Kim, Chungbuk National University; So-Jin Kim, Chungbuk National University; Do-il Yoo, Chungbuk National University

The Impact of Mobile Money on Smallholder Producer Resilience: Evidence from Kenya

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

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

2036 Behavioral Economics of Consumer Food Choice

M109, Marquis Level

Selected Presentation

Papers in this session explore advances in methods for studying cognitive processes underlying consumers' food choices. A number of these papers also examine how consumers seek and process information in making these decisions.

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

A Framing Effect of Sugar Content Labeling on Sugar Intake: Evidence from Online Choice Experiment

Sanghyo Kim, Korea Rural Economic Institute; Seong-Yoon Heo, Korea Rural Economic Institute

Neural Antecedents in Reflection: The Application of food Choice Analysis with fNIRS Methodology

Antje Risius, University of Göttingen; Clara Mehlhose, University Göttingen; Konstanze Ullmann, University Göttingen

Information Avoidance Behavior: Does Ignorance Keep Us Uninformed?

Syed Imran Ali Meerza, University of Nebraska-Lincoln; Amalia Yiannaka, University of Nebraska-Lincoln; Kathleen R. Brooks, University of Nebraska-Lincoln; Christopher R. Gustafson, University of Nebraska-Lincoln

2037 Space and Risk in Nonmarket Valuation

M303, Marquis Level

Selected Presentation

This session features research that investigates heterogeneous space and risk-induced human behaviors. These papers focus on addressing existing challenges in nonmarket valuation with novel methodological advances.

Moderator: Michael S. Jones, North Carolina State University

Valuation of Wetland Restoration Program in Arkansas: Evidence from the Housing Market

Matthew S. Richardson, University of Arkansas, Pine Bluff; Pengfei Liu, University of Arkansas, Pine Bluff; Michael Eggleton, University of Arkansas, Pine Bluff

The Spatial Distribution of WTP and Status Quo Effects: An Application to the Chesapeake Bay Watershed

Dennis Guignet, Appalachian State University; Chris Moore, United States Environmental Protection Agency; **Haoluan Wang**, University of Maryland, College Park

Landscape-level Pest Control Externalities when Consumer Preferences are Non-neutral

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

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

2038 Insights into Consumer Demand for Food Products: A Series of Innovative Studies

M304, Marquis Level

Selected Presentation

This Lightning Session brings together collection of studies which examine aspects of consumer behavior and demand for specialty foods and food attributes. A variety of food product examples, drawn from both developed and developing country settings, are considered. Papers in this session, first consider farm (and fishery) products, then processed foods. The final papers in this session examine challenges of marketing unlabeled and generic food products given the dominant trend of food product differentiation through labeling and certification schemes.

Moderator: Ting Meng, China Agricultural University

Farmers as Suppliers of Fish: Household Seafood and Aquaculture Expenditure

Ting Meng, China Agricultural University; Chunxiao Wang, Shanghai Ocean University; Wojciech J. Florkowski, University of Georgia; Zhenyong Yang, Shanghai Ocean University

Farm Animal Welfare Perceptions and Parent-child Linkage in Dairy Consumption: Evidence from a Field Survey

Kota Minegishi, University of Minnesota; Albert K. Boatey, University of Alberta

Personality Traits and Preferences for Specialty Coffee: Results from a Coffee Shop Field Experiment

Danielle Ufer, Michigan State University; Wen Lin, Michigan State University; David L. Ortega, Michigan State University

The Influence of Wine Awards and Sustainability Labels on Consumers' WTP: An Experimental Study at the Example of German "Riesling"

Jeanette Leila Klink-Lehmann, University of Bonn; Ching-Hua Yeh, University of Bonn; Monika Hartmann, University of Bonn

The Stigma Impact of Non-GMO Label on Conventional Unlabeled Alcohol Products

Jie Li, Cornell University; Zekun Ma, Cornell University; Miguel I. Gomez, Cornell University; D. Adeline Yeh, Cornell University; Frank Ge, Cornell University

Winning Back Lapsed Consumer for the Generic Food Product

Lijun Chen, University of Florida; Yan Heng, University of Florida; Lisa A. House, University of Florida

A Hedonic Price Analysis of Processed Food Attributes in Tanzania

Jason E. Snyder, Michigan State University; David L. Tschirley, Michigan State University; **Thomas A. Reardon**, Michigan State University; Brent R. Ross, Michigan State University

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

2039 Risk, Risk, and Risk

Suite 3803, 38th Floor

Selected Presentation

Risk comes in many shapes and sizes and how producers mitigate risk depends on many factors. Some factors, like trade liberalization can both decrease risk (e.g., marketing risk) and increase risk (e.g., yield risk from disease). Decisions about risk mitigation, like crop insurance, are heterogeneous among producers and not necessarily optimal. This session will provide attendees with a wealth of knowledge by covering sources of risk, ways to mitigate risk, and how risk may be affected by innovation.

Moderator: Jisang Yu, Kansas State University

Swine Producer Willingness to Pay for Tier 1 Disease Risk Mitigation Under Ambiguity

Jiwon Lee, Iowa State University; Lee Schulz, Iowa State University; Glynn T. Tonsor, Kansas State University

Adverse Selection in Specialty Crop Insurance Markets: Evidence from the CAT Participation

Hyunok Lee, University of California, Davis; Daniel A. Sumner, University of California, Davis; **Jisang Yu**, Kansas State University

Distributional Impacts of the Federal Crop Insurance: Crop and Regional Differences

Charalampos Mavroutsikos, University of Nebraska-Lincoln; Cory G. Walters, University of Nebraska-Lincoln; Konstantinos Giannakas, University of Nebraska-Lincoln

Inadvertent Returns Through Crop Insurance Contract Selection

Sankalp Sharma, Kent State University, Tuscarawas; Cory G. Walters, University of Nebraska-Lincoln

Federal Crop Insurance Participation and On-Farm Nitrogen Balance

Jennifer E. Ifft, Cornell University; **Margaret C. Jodlowski**, Cornell University

The Impacts of Trade Liberalization and Price Risks on Crop Supply Response Under Price Supports

Cherry Kim, Seoul National University; Kwansoo Kim, Seoul National University

Yield Risk, Price Risk, and Demand for Crop Insurance

Stephanie D. Rosch, USDA-Economic Research Service; Andrew Crane-Droesch, USDA-Economic Research Service

2040 Agricultural Policy and Trade in Grains

Suite 4024, 40th Floor

Selected Presentation

Federal policies like price supports and renewable fuel standards can have significant implications for trade in world grain markets. This session covers the implications of a range of policies, from EU import taxes and Chinese price supports to U.S. biofuel subsidies. Attendees will come away with an understanding of how different factors affect global trade patterns in grains.

Moderator: Adam N. Rabinowitz, University of Georgia

Impact of Domestic and Trade Policies on Adoption of a Biofuel Crop in Dryland Wheat-Based Farming Systems in U.S. Pacific Northwest

Seojin Cho, Oregon State University; John M. Antle, Oregon State University

Trade in CRISPR Wheat: A Partial Equilibrium Analysis

Prince Fosu, North Dakota State University; **Thomas I. Wahl**, North Dakota State University

The Effect of Variable EU Import Levies on Corn Price Volatility

Jurij Berger, University of Göttingen; **Bernhard Dalheimer**, University of Göttingen; Bernhard Bruemmer, University of Göttingen

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

2041 Compensation, Incentives and Productivity

Suite 3824, 38th Floor

Selected Presentation - Discussant Test Session

The studies in this session examine the consequences of various labor market compensation structures, non market mechanisms and large external shocks on labor supply and productivity.

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

Labor Market Effects of In-Kind Food Subsidies

Aditya Shrinivas, University of Illinois at Urbana-Champaign

Do Credit Unions have Distinct Objectives? Evidence from Executive Compensation Structures

Jordan Van Rijn, University of Wisconsin-Madison; **Shuwei Zeng**, University of Wisconsin-Madison; **Brent M. Hueth**, University of Wisconsin-Madison

Natural Disasters and The Spatial Distribution of Labor and Productivity: Evidence from Indonesia

Shang Xu, The Ohio State University; **Allen Klaiber**, The Ohio State University; **Daniela A. Miteva**, The Ohio State University

The Dynamics of Reservation Wages: Evidence from a Large Job Board in Argentina

Brian H. Feld, University of Illinois at Urbana-Champaign

2042 International Development - Migration

Suite 3839, 38th Floor

Selected Presentation

This group of papers examines both the causes and impacts of migration within and between countries.

Moderator: Eduardo Cenci, University of Wisconsin-Madison

Climate Change, Migration, and Irrigation

Theo Benonnier, ENS Cachan; **Katrin Millock**, Paris School of Economics; **Vis P. Taraz**, Smith College

Short-term Returns to Agricultural Household Migration Decisions: Evidence from a Tracking Panel Data Study in Malawi

Nina Jovanovic, Purdue University; **Albert Alwang**, Virginia Tech; **Jacob Ricker-Gilbert**, Purdue University

Emigration and Rising Wages in Myanmar: Evidence from Mon State

Mateusz J. Filipski, University of Georgia; **Hak Lim Lee**, International Food Policy Research Institute; **Aung Hein**, Princeton University; **Ulrike Nischan**, International Food Policy Research Institute

Internal Migration and the Spread of Long-term Impacts of Historical Immigration in Brazil

Eduardo Cenci, University of Wisconsin-Madison; **Daniel A. F. Lopes**, Institute for Applied Economic Research; **Leonardo M. Monasterio**, Institute for Applied Economic Research

2043 International Development - New Methods

Suite 3903, 39th Floor

Selected Presentation

This session includes papers taking new approaches – from machine learning to alternative estimators to experiments in the field.

Moderator: Sandra M. Contreras, Kansas State University

U.S. Humanitarian Food Aid and Civil Conflict in Sub-Saharan Africa: Evidence from Nonlinear Fractional Panel Data Models

Sébastien Mary, University of Kansas; **Ashok K. Mishra**, Arizona State University

Cooperation and the Provision of Local Public Goods in Remote Rural Communities

Patrick S. Ward, Duke Kunshan University; **Muzna F. Alvi**, International Food Policy Research Institute; **Simrin Makhija**, International Food Policy Research Institute; **David J. Spielman**, International Food Policy Research Institute

Predict Food Security with Machine Learning: Application in Eastern Africa

Yujun Zhou, University of Illinois at Urbana-Champaign; **Kathy Baylis**, University of Illinois at Urbana-Champaign

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

2044 Climate, Water Scarcity, and Agricultural Adaptation

Suite 3919, 39th Floor

Selected Presentation - Discussant Test Session

This session explores the multiple margins along which agricultural producers adapt to climate change. The papers evaluate theoretically and empirically how changes in the mean and variability of temperature and precipitation affect the use of land, water, and fertilizer over the short and long-run.

Moderator: Yefan Nian, University of Florida

Effects of Water Scarcity, Climate Variability, and Risk Management Policy on Cropland Allocation, Water Use, and Irrigation Technology Adoption on the U.S. West Coast

Jian Shi, Oregon State University; **JunJie Wu**, Oregon State University

Estimating the Adaptive Benefits of Water Market Reform for Californian Irrigated Agriculture

Jesus Arellano Gonzalez, University of California, Davis; **Frances Moore**, University of California, Davis; **Amir AghaKouchak**, University of California, Irvine; **Yue Qin**, University of California, Irvine; **Steven Davis**, University of California, Irvine; **Jennifer Burney**, University of California, San Diego; **Morgan Levy**, University of California, San Diego

Adapting to Water Scarcity: Evidence from Irrigated Agriculture

Nick Hagerty, University of California, Berkeley

Agricultural Adaptation to Climate Change in the United States: Implications for Fertilizer Use and Water Quality

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

2045 Advances in Production Modeling Using Improved Soil Data

Suite 3924, 39th Floor

Selected Presentation

Papers in this session highlight new approaches to agricultural production modeling that incorporate improved information on soil variables (such as moisture, quality, and type). Applications to fieldwork management, climate change impacts, and sub-field yield variation are discussed.

Moderator: Seong Do Yun, Mississippi State University

Economic Management and Climatic Challenges Posed by Days Suitable for Field Work in the U.S. Corn Belt

Ben Gramig, University of Illinois at Urbana-Champaign; **Seong Do Yun**, Mississippi State University

Bumper Crop or Dearth: An Economic Methodology to Identify the Disruptive Effects of Climatic Variables on French Agriculture

Simone Pieralli, French National Institute for Agricultural Research

Soil Conditioned Climate Effects Matter when Modeling Crop Yields

Elliott J. Dennis, University of Nebraska-Lincoln; **Trevor Hefley**, Kansas State University; **Jesse B. Tack**, Kansas State University; **Nathan P. Hendricks**, Kansas State University

How Much Within-Field Yield Variability Can be Explained by Public Soil Data?

Xiaofei Li, Mississippi State University

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

2046 Productivity Analysis and Emerging Technologies - Productivity Factors for Crop Farming in Sub-Saharan Africa Suite 3934, 39th Floor

Selected Presentation - Discussant Test Session

This session explores a range of factors, beyond traditionally construed input technologies, that are related to productivity in crop farming systems in sub-Saharan Africa. Issues include information, dietary quality, gender, and intensification.

Moderator: Jose E. Funes, University of Maryland at College Park

Know What you Sow: The Cost of Seed Type Misidentification in Tanzania

Federico J. Trindade, University of Washington; Ayala Y. Wineman, Michigan State University; C. Leigh Anderson, University of Washington; Timothy Njagi, Tegemeo Institute for Agricultural Policy and Development

A Case for Space: The Efficiency Spillover Effect of Iron Biofortified Beans in Rwanda

Jose E. Funes, University of Maryland at College Park; Laixiang Sun, University of Maryland; Todd Benson, International Food Policy Research Institute; Fernando Sedano, University of Maryland

Are Productivity Differentials between Men and Women Real? Evidence from Groundnut Farmers in Malawi

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

The Impacts of Sustainable Intensification of Maize Production on Crop Income and Productivity: Evidence from Rural Tanzania

Jongwoo Kim, Michigan State University; Nicole M. Mason, Michigan State University

2047 Pollution Regulation, Violation and Disbelief

Suite 4019, 40th Floor

Selected Presentation - Discussant Test Session

The papers in this session present theoretical and empirical analyses of pollution regulation and policy design, contrasted with a study of the influences of political persuasion and local environmental conditions on environmental concern and skepticism.

Moderator: Aaron Cook, The Pennsylvania State University

Air Pollution Violations in China

Wei Guo, University of California, Berkeley

Hard NOx: Identifying Spillovers and Operational Inefficiencies Within the EPA NOx Budget Trading Program

Kevin Nakolan, University of California, Davis

Achieving Least-Cost Emissions Targets for Multiple Pollutants: Sequential vs. Simultaneous Policies

Aaron Cook, The Pennsylvania State University; James S. Shortle, The Pennsylvania State University

Heterogeneous Relationship of Environmental Concerns and Political Orientations in the United States

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

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

2048 Risk and Uncertainty - Lightning Session

Suite 4039, 40th Floor

Selected Presentation - Lightning Session

Papers in this lightning session focus on how risk and uncertainty affect people's behaviors in a variety of contexts ranging from food waste to natural hazards.

Moderator: Meilin Ma, Purdue University

Farm Investment under Insecure Land Lease Contracts: Evidence from Large Commercial Farms in China

Meilin Ma, Purdue University

Input Use under Cost-of-Production Crop Insurance: Theory and Evidence

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

Roles of Date Labels and Loss Aversion in Food Waste: An Experimental Approach

Norbert L.W. Wilson, Tufts University; **Ruiqing Miao**, Auburn University; **Carter Weis**, Cornell University

Do Natural Hazards in the Gulf Coast Still Matter for State-level Natural Gas Prices? Evidence after the Shale Gas Boom

Kuan-Ming Huang, West Virginia University; **Xiaoli L. Etienne**, West Virginia University

Spring Frost in Apple Orchards: Quality Effects can Outweigh Quantity Effects

Tobias Dalhaus, ETH Zürich; **Michael M. Blanke**, University of Bonn; **Esther Bravin**, Agroscope; **Dominique Dietiker**, Agridea, Switzerland; **Robert Finger**, ETH Zürich

Production, Market, and Labor Risk: Which Matters More?

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

The Effect of Regulatory Uncertainty on Ambient Pollution Levels: Evidence from the Clean Water Act

Tihitina Andarge, University of Maryland, College Park

2049 Rural Broadband and Local Foods

Suite 4003, 40th Floor

Selected Presentation - Discussant Test Session

This session explores rural broadband, local foods and approaches that impact regional economies.

Moderator: Anna Josephson, University of Arizona

Economic and Policy Analysis of Potential Deployment of Rural Broadband in Indiana

Alison Grant, Purdue University; **Wallace E. Tyner**, Purdue University; **Lawrence P. DeBoer**, Purdue University

Exploring the Underlying Economics of Local Food Producers: Opportunities for Rural Economic Development

Allison Bauman, Colorado State University; **Becca B. R. Jablonski**, Colorado State University; **Dawn D. Thilmany McFadden**, Colorado State University

The "New Location Theory" Applied to Production Agriculture: A Multivariate Approach

Paul D. Gottlieb, Rutgers University; **Elizabeth A. Dobis**, The Pennsylvania State University; **Anil Hira**, Simon Fraser University; **Neil Reid**, University of Toledo; **Stephan J. Goetz**, The Pennsylvania State University

The Impact of Groundwater on Economic Outcomes in the Ogallala Region

Jordan F. Suter, Colorado State University; **Mani Rouhi Rad**, Colorado State University; **Dale Manning**, Colorado State University; **Lacey K. Moore**, Colorado State University; **Christopher Goemans**, Colorado State University

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

2050 Innovative Methods in Teaching Agribusiness and Cooperative Education

M102, Marquis Level

Track Session - AEM Section

New technology and mediums for education are leading to innovative methods in teaching Agribusiness and Cooperative Education. This track session covers some of the latest methods being utilized by Agribusiness and Cooperative Educators. Presentations cover use of online and distance education tools, agribusiness simulation tools, data analytics and decision-making tools, and industry engaged learning projects. Presenters will discuss their positive and negative experiences of using innovative methods in education and the lessons they learned. The purpose is to keep participants aware of the latest methods and strategies being used to implement innovative teaching methods to meet learning objectives in Agribusiness and Cooperative Education that best prepares future leaders in agribusinesses.

Organizer: Matthew Elliott, South Dakota State University

Using Capsim for Agribusiness Undergraduate, Graduate, and Extension Education

Michael A. Gunderson, Purdue University

Using Data Analytics and Decision Making Tools for Agribusiness and Extension Education

Matthew Elliott, South Dakota State University

Using Distance Learning Tools to Deliver Cooperative and Extension Education

Frayne Olson, North Dakota State University

Using Industry Engaged Learning Projects in Cooperative and Agribusiness Education

Todd M. Schmit, Cornell University

2051 Land Values and Land Rent under Higher Interest Rates and Growing Trade Uncertainty

L401, Lobby Level

Track Session - AFM & EXT Sections

Farmland represents 83% of U.S. farm assets and is often the single largest item in a producer's investment portfolio. Currently, farmland values and cash rent across the U.S. Corn Belt and Great Plains are under significant downward pressures. In particular, Fed Reserve is and will continue to rise interest rates and U.S. agriculture witnessed trade disputes of unprecedented scale with key trading partners, especially China. This session introduces developments in agricultural trade and interest rates, discusses the U.S. producers' perceived impacts, and analyzes the impacts of rising interest rates and growing agricultural trade uncertainty on farmland values and cash rent in the midwest, as well as pastureland values and irrigated cropland values in the Great Plains.

Organizer: Wendong Zhang, Iowa State University

Producers' Perspective on Trade Impacts and Future Land Value Expectations from Ag Economy Barometer

Michael R. Langemeier, Purdue University; **James R. Mintert**, Purdue University

The Impact of Interest Rate Hikes and Agricultural Trade Uncertainty on Midwestern Farmland Values

Wendong Zhang, Iowa State University; *Albulena Basha*, Iowa State University; *Chad E. Hart*, Iowa State University

The Impact of Interest Rate Hikes and Agricultural Trade Uncertainty on Cash Rent

Gary D. Schnitkey, University of Illinois at Urbana-Champaign

Developments in Agricultural Trade and Interest Rates, and Potential Implications for Farmland Values

Cortney A. Cowley, Federal Reserve Bank of Kansas City; **Nate Kauffman**, Federal Reserve Bank of Kansas City

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

2052 Agricultural International Trade: Roles, Influences and Challenges for both China and the World - Lightning Session L406, Lobby Level

Track Session - China Section

The U.S. and China are the two largest economies in the world and they are also significant trade partners to each other. This session seeks to explore the roles, influences, and challenges of international agricultural trade for both the U.S. and China as well as the implications to the world market.

Organizer: Baohui Song, California State University, Chico

Was WTO Entry of China a Mistake? The Role of Increasing Agricultural Import to Chinese and Worldwide Agriculture

Naixi Liu, School of International Economics, China Foreign Affairs University; **Pingping Wang**, China Agricultural University/Iowa State University

WTO Agricultural Domestic Support: Dispute Over Calculation Methodology and Compliance Determination of Aggregate Measurement of Support

Guoqiang Cheng, Tongji University; **Xiaohong Wu**, Tongji University

The Heterogeneous Impact of Exchange Rate Volatility on Agricultural Export: Evidence from Chinese Food Firm-level Data

Yue Jin, Zhejiang University; **Shaosheng Jin**, Zhejiang University

Dynamic and Spillover Effects of Import Refusals on Sino-U.S. Agricultural Trade: Evidence from Monthly Data

Yu Wang, Zhejiang University; **Jiehong Zhou**, Zhejiang University; **Rui Mao**, Zhejiang University

U.S.-China Sorghum Trade Analysis Within the Trade War: Growth, Trends, and Forecast

Wei Zhang, University of Kentucky; **Mary Marchant**, Virginia Tech; **James M. Hansen**, USDA-Economic Research Service

Impact of U.S.-China Trade Dispute on American Consumers' Attitudes towards Agricultural Products

Lijun Guan, Zhejiang University; **Yu Yvette Zhang**, Texas A&M University; **Shaosheng Jin**, Zhejiang University

The Impacts of China's Soybean Policies on World Soybean Price and Price Variability

Wenting Wang, Zhejiang University; **Dermot J. Hayes**, Iowa State University

When Will a Peak Demand for Grain Appear in China: Impact of Demographic Changes

Xiao Han, China Agricultural University; **Guoqiang Cheng**, Tongji University

2053 Exploring Collaborations Between Federal Reserve Banks and AAEA Members on Community Development Topics L403, Lobby Level

Track Session - CRENET & Senior Sections

Each of the twelve regional Federal Reserve Banks works on community development issues, and community development projects undertaken by AAEA members could benefit from greater collaboration with these institutions. The goal of the track session is to foster enhanced understanding of on-going research on community development topics within the Federal Reserve Bank of Atlanta, and to explore opportunities for collaboration between AAEA membership and regional Federal Reserve Banks. The session will feature presentations by three staff members of the Federal Reserve Bank of Atlanta about ongoing community development research on workforce development, healthcare, and affordable housing. The session will also feature a presentation on outreach efforts spearheaded by the Federal Reserve System on increasing capital flows to the food system.

Organizer: Jeffrey K. O'Hara, USDA-Agricultural Marketing Service

Moderator: Jeffrey K. O'Hara, USDA-Agricultural Marketing Service

Research Under the Umbrella of Workforce Development at the Atlanta Fed

Alex Ruder, Federal Reserve Bank of Atlanta

Research Under the Umbrella of Healthcare and Community Development Collaborations and Anchor Institution Collaborations at the Atlanta Fed

Sameera Fazili, Federal Reserve Bank of Atlanta

Research Under the Umbrella of Affordable Housing at the Atlanta Fed

Ann Carpenter, Federal Reserve Bank of Atlanta

The Federal Reserve Banks and Food Systems: Harvesting Opportunity

Becca B. R. Jablonski, Colorado State University

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

2054 Big Data and the Econometrics of Health

L404, Lobby Level

Track Session - Econometrics Section & ISESSAH

This is a track session between the AAEA Econometrics Section and ISESSAH. The session will focus on applications of econometric tools applied to big data problems in health. Danny Hughes, Professor and Director, Health Economics and Analytics Lab (HEAL), Georgia Institute of Technology is the primary speaker on the general topic of analytics on big data for health, followed by Gabrielle Miller from CDC and Youngran Choi from Washington State University. Miller applies mediation analysis to MarketScan data to investigate traumatic brain injury and suicide. Choi uses machine learning to the assessment of vaccine programs using a panel data set in Kenya. Moderator and discussant is Thomas Marsh from Washington State University.

Organizer: Thomas L. Marsh, Washington State University

Discussant: Thomas L. Marsh, Washington State University

Big Data Analytics for Health

Danny R. Hughes, Georgia Institute of Technology

Mediation Analysis on Traumatic Brain Injury and Suicide

Gabrielle Miller, Centers for Disease Control and Prevention

Machine Learning Techniques for Vaccine Program Assessment in Kenya

Youngran Choi, Washington State University

2055 Issues Impacting Livestock, Poultry and Dairy Outlook

M104, Marquis Level

Track Session - COSBAE & EXT Sections

The U.S. livestock, dairy, and poultry industries continue to undergo a number of changes. For example, the U.S. hog industry has experienced structural changes and shifting marketing trends. The cattle and hog industries have seen a growth in industry concentration and economies of scale, leading to changes in cattle and hog production cycles. Meanwhile, Southeast Asia's food demand is expected to grow substantially in the coming decades, creating opportunities for major growth in dairy imports. Finally, meat and dairy analogs from cellular agriculture are forming an emerging industry. All of these changes may influence the production costs, supply, prices, and demand for dairy, livestock, and poultry commodities. This session will aim to highlight some of these ongoing industry changes and facilitate discussion on their policy and economic implications.

Organizer: Jeffrey M. Gillespie, USDA-Economic Research Service

Moderator: Josh Maples, Mississippi State University

Status of Competition for Southeast Asia Dairy Imports: Effects of Import Prices and Growth

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

Changing Features of Cattle and Hog Cycles

William F. Hahn, USDA-Economic Research Service

U.S. Pork Production and Marketing Trends and Patterns

Lee Schulz, Iowa State University

Economics of Cellular Agriculture Analogs in the Meat and Dairy Industry

Monica Saavoss, USDA-Economic Research Service

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

2056 Global Contemporary Issues Regarding Consumer Preferences for Food and Nutrition Quality - Lightning Session
L402, Lobby Level

Track Session - FAMPS & FSN Sections

The increasing and more heterogeneous demand for food quality worldwide poses new challenges to food industries and regulators. Food industries are striving for product differentiation to increase their market share. In the meantime, regulators need to keep a close eye on the market development, and propose new rules/regulations (e.g., organic standards, country of origin labeling, Nutrition Facts labeling), if necessary, to increase overall social welfare. The essential information that both food industries and regulators need before taking any actions is regarding consumer preferences for food and nutrition quality. This lighting session consists of eight papers focusing on various issues regarding consumer preferences for food quality attributes and nutrition factors in the United States, United Kingdom, Italy, and China. These topics would be of great interests to AAFA participants and promote valuable discussion regarding the future development of food marketing and policies.

Organizer: Zhifeng Gao, University of Florida

Italian Consumer Preferences for Health Claims on Extra-Virgin Olive Oil

Vincenzina Caputo, Michigan State University; Giovanna Sacchi, Ca'Foscari University of Venice

Consumer Information Seeking and Healthy Food Choices: Interrelationship Between Front-of-Package and Back-of-Package Labels

Xuqi Chen, University of Florida; Zhifeng Gao, University of Florida; Lisa A. House, University of Florida

British Consumer Preferences for Growth Hormone Free Beef

Karen L. DeLong, University of Tennessee; Carola Grebitus, Arizona State University; Troy G. Schmitz, Arizona State University

Evaluating the New Nutrition and Supplement Facts Label: Evidence from a Non-hypothetical Choice Experiment

Di Fang, University of Arkansas; Rodolfo M. Nayga, University of Arkansas; Heather Price, University of Arkansas; Grant H. West, University of Arkansas; Claudia Bazzani, University of Verona

How do Consumers Respond to Labels for CRISPR?

Yang Hu, University of Florida; Lisa A. House, University of Florida; Zhifeng Gao, University of Florida

Chinese Consumer Preference and Meat Choice

Chenguang Li, University College Dublin; Zhifeng Gao, University of Florida; Junfei Bai, China Agricultural University; Xinyi Hong, University College Dublin

Preferences for Beef with Improved Nutrient Profile

Brandon R. McFadden, University of Delaware; Sarah Flowers, University of Florida; Chad Carr, University of Florida; Raluca Mateescu, University of Florida

An Estimation of the Factors Influencing Consumers' Knowledge of Food Labels

Michael Vassalos, Clemson University; Marzieh Motallebi, Clemson University

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

2057 Teaching Tips from AAEA Award Winners

M105, Marquis Level

Track Session - GSS & 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. They will share their approaches, techniques, teaching styles, and philosophy in the classroom. The goal is to share ideas about successful teaching to facilitate learning. Contributions from the audience in the form of shared experiences, questions, and observations, will be a key part of this session.

Organizers: Rodney D. Jones, Oklahoma State University; William E. Maples, Oklahoma State University

Moderator: Rodney D. Jones, Oklahoma State University; William E. Maples, Oklahoma State University
Less Than Ten Year's Experience

Sierra S. Howry, *University of Wisconsin, River Falls*

Undergraduate Teaching: Ten or More Year's Experience

James A. Sterns, *Oregon State University*

Graduate Teaching: Ten or More Year's Experience

Gerald E. Shively, *Purdue University*

Teaching Tips From A Graduate Student Teacher Perspective

Thomas P. Krumel Jr., *University of Connecticut*

2058 Farm Transformation in Sub-Saharan Africa: Input Use and Intrahousehold Consequences

M101, Marquis Level

Track Session - Africa, CWAE, & International Sections

Growth in farm productivity is a prerequisite for rural transformation in Sub-Saharan Africa. On the aged, degraded soils of the continent, greater use of mineral fertilizers, combined with other soil and water amendments, is necessary to raise yields of most crops. In recent decades, numerous countries have established a new generation of input subsidies with the goal of promoting adoption. Household structures vary within and across nations, and these structures have implications for input use and the distribution of benefits from subsidies. Direct outcomes of bargaining among members of farm households include the allocation of productivity-enhancing inputs such as fertilizer. Yet, intrahousehold models are largely absent from the literature on either fertilizer adoption or the impacts of fertilizer subsidies in Sub-Saharan Africa. This session explores models, tests hypotheses empirically, and discusses input policies in Ethiopia, Malawi, Mali and Burkina Faso.

Organizer: Melinda Smale, Michigan State University

Moderator: Melinda Smale, Michigan State University

Discussant: Jacob Ricker-Gilbert, Purdue University

Agricultural Intensification and Intrahousehold Decisions in Burkina Faso

Hamza Haider, *Michigan State University*

Access to Fertile Soils and Gender-Based Yield Gaps in Malawi

William J. Burke, *Agricultural and Food Policy Consulting*

Gender-Differentiated Diet Quality from Promotion of Climate-Smart Practices in Ethiopia

Hailemariam Teklewold, *Environment for Development Initiative; Tagel Gebrehiwot, ECRC; Mintewab Bezabih, Environment for Development Initiative*

Diet Transformation and Fertilizer Subsidy Policy in Mali

Veronique Theriault, *Michigan State University; Melinda Smale, Michigan State University; Amidou Assima, Michigan State University, Bamako office; Alpha O. Kergna, Institut D'Economie Rurale*

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

2059 The Evolution of the U.S. Beekeeping Industry – The Shift from Producing Honey to Providing Pollination Services amid Elevated Colony Loss

M107, Marquis Level

Track Session - ENV & SCE Sections

Driven by the rapid acreage expansion of pollinator-dependent almonds, beekeepers have experienced three large industry movements over the last two decades. First, pollination service income has risen from 11 to 41 percent of all beekeeper income; second, the winter colony loss rate approximately has doubled over its historic rate of 15 percent; and, third, honey yields per colony have fallen by 29 percent. This session examines various aspects of these inter-related changes on beekeeper and farm management decisions. Goodrich examines both the potential effects of climate change and apicultural insurance on honey yields. Ferrier similarly examines the causes of long-term movements in honey yields since the 1950s. Ehmke presents estimates of almond farmer's willingness to pay for the pollination services of beekeepers.

Organizers: Peyton M. Ferrier, USDA-Economic Research Service; Brittney K. Goodrich, Auburn University

'Bee' Productive: A Study of Honey Production in the United States

Brittney K. Goodrich, Auburn University; Ruiqing Miao, Auburn University

Explaining Variation in Annual Honey Yields over Time

Peyton M. Ferrier, USDA-Economic Research Service

Almond Grower Demand for Beekeeping Services in the Western United States

Mariah D. Ehmke, University of Wyoming; Christopher T. Bastian, University of Wyoming; Vardges Hovhannisyan, University of Wyoming; Chian Ritten, University of Wyoming

An Analysis of Pesticide Use in Almonds during Bloom

Brittney K. Goodrich, Auburn University; Jennie Durant, University of California, Berkeley

2060 Leadership Development for the Future of Ag and Applied Economics

L405, Lobby Level

Track Session - NAAEA & Senior Sections

This session emphasizes the need for leadership development within the profession to enhance the skills, competencies, and confidence to lead academic institutions, government units, NGOs, and professional organizations, such as AAEA. Declining state and federal financial support have increased the competition for scarce resources among states and across campus academic units. Organizational leaders must understand university and college budget systems, strategic planning processes, and different styles of administrative leadership upstream in order to influence resource allocations downstream. Understanding local, state, and regional politics is also essential to successful strategic positioning of organizations for influence and impact. Leadership development should be an important component of AAEA's mentoring and coaching initiative to support members' career decisions. The discussion will contribute to planning an Annual Meeting Workshop or a Symposium in 2020.

Organizers: Walter J. Armbruster; A. Gene Nelson, Texas A&M University; Steven C. Turner, Mississippi State University

Moderator: Steven C. Turner, Mississippi State University

Panelists: Titus O. Awokuse, Michigan State University; Michael Boehlje, Purdue University; Joy L. Harwood, USDA-Farm Service Agency; Eluned Jones, South Dakota State University; Michael D. Woods, Oklahoma State University

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

2061 The Implications of a Farm Financial Downturn on Supply and Demand for Credit

M107, Marquis Level

Invited Paper/Track Session - ARA & AFM Sections

The economic conditions facing farm operations over the past four years are in stark contrast to the boom experienced from 2007 to 2013. This has resulted in an increase in the demand for funds to cover cash flow requirements. Consolidation and regulatory changes have transformed the agricultural banking sector, impacting the supply of capital to farm operations. This session will address the current and future issues of liquidity, farm performance, and the resulting demand and supply for agricultural credit.

Discussant: Scott W. Frame, Federal Reserve Bank of Atlanta

Farm Financial Health and the Demand for Credit

Allen M. Featherstone, Kansas State University; **Mykel R. Taylor**, Kansas State University; **Nick Paulson**, University of Illinois at Urbana-Champaign; **Madhav Regmi**, Kansas State University

Regional Analysis of Agricultural Bank Liquidity and Implications for Credit Availability

Cortney A. Cowley, Federal Reserve Bank of Kansas City; **Nate Kauffman**, Federal Reserve Bank of Kansas City

Structural Changes in the Supply Bank Supply of Credit to Agriculture: A Differential Approach

Charles B. Moss, University of Florida; **Dong Hee Suh**, Korea University

2062 Strengthening Growth in Global Food/Feed Demand with Challenging Policies: Implications for U.S. Crop Exports

L405, Lobby Level

Organized Symposium

Growth in global food/feed demand is projected for the coming decade which provides opportunities for exporting countries. However, evolving trade policies may temper growth prospects for some nations. In this symposium, we examine the potential attributes or impediments that are expected to affect demand for U.S. crops in the global marketplace.

Organizers: Jennifer K. Bond, USDA-Economic Research Service; Linwood A. Hoffman, USDA-Economic Research Service

Moderator: Seth D. Meyer, USDA-Economic Research Service

Discussant: Patrick Westhoff, University of Missouri

Global Growth in Food/Feed Demand and Changing Domestic/Trade Policies: Background

James M. Hansen, USDA-Economic Research Service

Export Growth Potential for U.S. Feed Grains: Opportunities/Challenges

Thomas C. Capehart, USDA-Economic Research Service

Export Growth Potential for U.S. Soybeans/Meal: Opportunities/Challenges

Jennifer K. Bond, USDA-Economic Research Service; **Mark S. Ash**, USDA-Economic Research Service

2063 Measuring the Global Burden of Animal Diseases

L403, Lobby Level

Organized Symposium

Economist monetize health impacts. Metrics for quantifying the global burden of disease range from direct impact on mortality and morbidity of humans and animals, to indirect effects on the economy at large. This symposium will address how economic and econometric tools can guide and inform those quantifying the burden of animal disease (including money metric measures), and how these can guide policy decisions.

Organizer: Thomas L. Marsh, Washington State University

Moderator: Kamina K. Johnson, USDA-Animal and Plant Health Inspection Service

Panelists: Amy D. Hagerman, Oklahoma State University; Ann Hillberg-Seitzinger, USDA-Animal and Plant Health Inspection Service; Thomas L. Marsh, Washington State University; Dustin L. Pendell, Kansas State University

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

2064 Careers in Economics at the Centers for Disease Control and Prevention (CDC): The Path from Agricultural and Environmental Economics Training and Practice to a Career in Health Economics

Suite 3934, 39th Floor

Organized Symposium

This symposium is an opportunity for AAEA members to gain an understanding of career opportunities at CDC, the world's largest health protection agency. Our panel includes four agricultural and/or environmental trained economists whose academic and professional paths have led to careers as health economists at CDC. Each panel member will discuss their unique experiences leading to their current positions and a synopsis of their current research. Each panel member participated in the Steven M. Teutsch Post-Doctoral Prevention Effectiveness (PE) Fellowship at CDC. Our panel will also be joined by the Dr. Adam Skelton, director of the PE Fellowship.

Organizer: Gabrielle Miller, Centers for Disease Control and Prevention

Panelists: Mark L. Messonnier, Centers for Disease Control and Prevention; Gabrielle Miller, Centers for Disease Control and Prevention; Jamison Pike, Centers for Disease Control and Prevention; Adam Skelton, Centers for Disease Control and Prevention; Sergey V. Sotnikov, Centers for Disease Control and Prevention

2065 Agribusiness Supply Chain Management and Coordination

M108, Marquis Level

Selected Presentation - Discussant Test Session

This session focuses on issues related to supply chain coordination and management strategies.

Moderator: Shruti Mishra, Argonne National Laboratory

Modeling and Optimizing the Beef Supply Chain in New York and New England

Houtian Ge, Cornell University; **Miguel I. Gomez**, Cornell University; **Christian Peters**, Tufts University

Mobile Money, Signaling, and Market Participation: Evidence from Tanzania and Cote d'Ivoire

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

The Impact of Eponymy on Firm Profit: Evidence from the German Food Processing Industry

Murad Khalilov, University of Bonn; **Stefan Hirsch**, Technical University of Munich

Economics of Precision Agriculture to Increase Cellulosic Bioenergy and Address Hypoxia

Shruti Mishra, Argonne National Laboratory

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

2066 Behavioral & Institutional Economics of Agriculture & Land Use in an International Context

M302, Marquis Level

Selected Presentation

Papers in this session examine individual behavioral factors and political economy determinants in agricultural and land use policies and systems. By including research from different countries and regions, attendees will be able to compare findings across different cultural and socioeconomic contexts.

Moderator: Chin-Hsien Yu, Southwestern University of Finance and Economics

Return Migration, Farm Household Differentiation and Farm Size in Rural China: Evidence from a Cross-sectional Survey
Ruifa Hu, Beijing Institute of Technology; Qianqian Chen, School of Management and Economics, Beijing Institute of Technology; Yiduo Sun, Beijing Institute of Technology; Chao Zhang, Beijing Institute of Technology

Investigating Consumer Food Waste Decisions: A Cross-country Comparison between Thailand and the United Kingdom
Daniele Asioli, University of Reading; *Ponjan Pinpart, University of Reading; Kelvin Balcombe, University of Reading*

Characterizing Behaviour in Production Decisions: The Case of Smallholder Indian Farmers

Kiriti Kanjilal, Indraprastha Institute of Information Technology; *Gaurav Arora, Indraprastha Institute of Information Technology*

Property Rights, Institutional Change, and Economic Development: Evidence from the First Nations Land Management Act

Liam D. Kelly, University of Guelph; *B. James Deaton Jr., University of Guelph*

Holdup Incentives in Redistributive Land Reform with Political Investment

Aleksandr Michuda, University of California, Davis

Market Response to Typhoons: The Role of Information and Expectation

Chin-Hsien Yu, Southwestern University of Finance and Economics; *Jian-Da Zhu, National Taiwan University; Bruce A. McCarl, Texas A&M University*

Farmers' Willingness to Adopt Chemical-Free Inputs and Engage in Collaborative Arrangements: A Discrete Choice Experiment in Mexico

Sergio Colin Castillo, Centro de Estudios Socio Economicos; *Adan L. Martínez-Cruz, Centro de Estudios Socio Economicos; Naim Manríquez García, Centro de Estudios Socio Economicos; Joel T. Vázquez-Pérez, Centro de Estudios Socio Economicos*

Determinants of Households' Adoption of Organic Pesticides: Evidence from Missouri

Lan T. Tran, University of Missouri; *Laura M. McCann, University of Missouri; Dong Won Shin, Korea Environment Institute*

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

2067 Environmental and Nonmarket Valuation - Lightning Session

M303, Marquis 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 methodological advances, air pollution, forest, climate change, and farmlands.

Moderator: Yilan Xu, The Ohio State University

Simulation Noise versus Approximation Error in Mixed Logit Estimation: Maximum Simulated Likelihood or Gauss Hermite Quadrature

Jiahui Ying, University of Georgia; **J. Scott Shonkwiler**, University of Georgia

The Effect of Air Pollution on Stock Market Trading Volume: Evidence from China

Yilan Xu, The Ohio State University; **Wuyang Hu**, The Ohio State University

Air Pollution and Cardiovascular Health: Evidence from Agricultural Fires in India

Hemant K. Pullabhotla, University of Illinois at Urbana-Champaign; **Mateus Souza**, University of Illinois at Urbana-Champaign

Broken Forests: Deforestation and Forest Fragmentation Increase Malaria Incidence among Young Children in Rural Liberia

Yu Shing Cheng, The Ohio State University; **Daniela A. Miteva**, The Ohio State University

The Butterfly Effect: Do Farms Do Harm?

Braeden Van Deynze, Michigan State University; **Scott M. Swinton**, Michigan State University; **Leslie Ries**, Georgetown University

Estimating the Impact of Fires on Recreation in the Angeles National Forest Using Combined Revealed and Stated Preference Methods

Sophia Tanner, University of Arizona; **Frank Lupi**, Michigan State University; **Cloe Garnache**, Michigan State University

Determinants of Avian Species Biodiversity in the United States: The Role of Land-Use Change and Pesticide Use

Yijia Li, University of Illinois at Urbana-Champaign; **Madhu Khanna**, University of Illinois at Urbana-Champaign; **Ruiqing Miao**, University of Illinois at Urbana-Champaign

Air Pollution Impacts of Shale Gas Development in Pennsylvania

Ruohao Zhang, Binghamton University; **Huan Li**, Binghamton University; **Neha Khanna**, Binghamton University; **Dan Sullivan**, Resources For the Future; **Alan Krupnick**, Resources for the Future; **Elaine Hill**, University of Rochester

2068 Organic and Non-GMO Food Markets and Marketing

M304, Marquis Level

Selected Presentation - Discussant Test Session

Factors affecting organic and non-GMO foods marketing and markets, including consumer environmental awareness and trust in auditing organizations, information signaling through labels, and price pass-through, are examined in this collection of papers.

Moderator: Antje Risius, University of Göttingen

Is Environment Consciousness Associated with Organic Consumption – A Revealed Preference Approach

Sungeun Yoon, University of Florida; **Lisa A. House**, University of Florida; **Zhifeng Gao**, University of Florida; **Kelly A. Grogan**, University of Florida; **Conner C. Mullally**, University of Florida

Public Evaluation of Organic Food Standards: Knowledge and Preference for Selective Control Features

Antje Risius, University of Göttingen; **Achim Spiller**, University Göttingen

Signaling Impacts of GMO Labeling on Fruit and Vegetable Demand

D. Adeline Yeh, Cornell University; **Miguel I. Gomez**, Cornell University; **Harry M. Kaiser**, Cornell University

Differential Price Pass-Through in Organic and Conventional Food Markets

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

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

2069 U.S. Food Assistance Programs and Effects on Spending, Food Security, and Health

Suite 3803, 38th Floor

Selected Presentation

This session focuses on issues of food choice and spending patterns within federal food-assistance programs. Papers in this session evaluate changing consumption patterns during the benefit month, the impacts of health information on diet quality, and the impact of SNAP on food security. This session will provide attendees with broad perspective of how nutrition-assistance programs affect consumers.

Moderator: Yizao Liu, The Pennsylvania State University

Time Use and Eating Patterns of SNAP Participants over the Benefit Month

Ji Yong Lee, University of Arkansas; **Rodolfo M. Nayga**, University of Arkansas; **Young Jo**, USDA-Economic Research Service; **Brandon J. Restrepo**, USDA-Economic Research Service

Distributional Impact of Health Information on Diet Quality

Yizao Liu, The Pennsylvania State University; **Rebecca Cleary**, Colorado State University; **Andrea C. Carlson**, USDA-Economic Research Service

Do Food Purchases by Supplemental Nutrition Assistance Program Recipients Vary with Food Groups Over the Benefit Month?

Chandra K. Dhakal, University of Georgia

2070 Eating Better? Investigations of Nutrition in Developed Countries

Suite 3819, 38th Floor

Selected Presentation

In developed countries, consumers struggle to eat nutrient-dense foods. Researchers and policy makers work to monitor and evaluate purchase and consumption patterns to determine areas to intervene. The papers in this session provide examples of innovations in measuring and encouraging better nutrition in developed countries. With secondary data, two papers explore a nutrition index of the U.S. food industry while another evaluates heterogeneity of food purchases by body mass index. Another pair of papers use experimental methods to evaluate nudges of an online grocery store and consumer understanding of purchases of whole grain products.

Moderator: Grace Melo, Pontificia Universidad Catolica de Chile

The Evolution of Diet Quality in the U.S.: Commercial Actions and Consumer Reactions

Christian Rojas, University of Massachusetts, Amherst; **Ezgi Cengiz**, University of Massachusetts, Amherst; **Emily Wang**, University of Massachusetts, Amherst

Application of “Nudge” to Encourage Fresh Food Consumption: Evidence from Online Experiment

Yeon A Hong, Korea Rural Economic Institute; **Sang Hyo Kim**, Korea Rural Economic Institute

Labels for Cereals, Crackers, and Breads Cause Consumer Confusion about Whole Grain Content and Healthfulness of Products

Parke E. Wilde, Tufts University; **Jennifer Pomeranz**, New York University; **Lauren Lizewski**, Tufts University; **Fang Fang Zhang**, Tufts University

The Impact of a Comprehensive Food Policy on Purchases of Non-targeted Foods: Evidence from Chile

Chen Zhen, University of Georgia; **Grace Melo**, Pontificia Universidad Catolica de Chile

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

2071 Technology and Productivity Tradeoffs in Developing Nations

Suite 3824, 38th Floor

Selected Presentation

The papers in this session examine tradeoffs that rural households face in developing nations in the face of productivity shocks.

Moderator: Yu Na Lee, University of Guelph

The Impact of Internet Use on Entrepreneurship of Migrant Workers in China

Zhongkun Zhu, Huazhong Agricultural University; **Chenxin Leng**, China Agricultural University; **Michael Delgado**, Purdue University

Of Trackers and Tractors. Using a Smartphone App to Explore the Link Between Agricultural Mechanization and Intra-Household Allocation of Time in Zambia.

Thomas Daum, University of Hohenheim; **Filippo Capezzone**, University of Hohenheim; **Regina Birner**, University of Hohenheim

Does Food Price Volatility Drive Migration? Evidence from Rural Ethiopia

Yu Na Lee, University of Guelph

2072 International Development - Aspirations

Suite 3839, 38th Floor

Selected Presentation - Discussant Test Session

These papers examine the role of aspirations in household decisions, including both how interventions affect aspirations, and how aspirations impact decisions and welfare.

Moderator: Jeffrey R. Bloem, University of Minnesota

Do Agriculture Interventions Increase Aspirations? An Examination from the Lens of Caste and Gender

Muzna F. Alvi, International Food Policy Research Institute; **Patrick S. Ward**, Duke Kunshan University; **David J. Spielman**, International Food Policy Research Institute; **Simrin Makhija**, International Food Policy Research Institute

Dream Homes: Aspirations and Real Estate Investments in Rural Myanmar

Jeffrey R. Bloem, University of Minnesota

Farmers to Entrepreneurs

Salvatore Di Falco, University of Geneva; **Giacomo De Giorgi**, University of Geneva

Feeling Rich vs. Being Rich: Subjective vs. Objective Well-being in Ghana

Felix Naschold, University of Wyoming; **Tabare Capitan**, University of Wyoming

2073 International Trade - Multiple Research Methods

Suite 3903, 39th Floor

Selected Presentation

This session highlights the improvement or development of empirical research methods or theoretical frameworks in international trade.

Moderator: Harounan Kazianga, Oklahoma State University

The Impact of Exchange Rate Volatility on International Food Trade

Sandro Steinbach, University of Connecticut

Trade Margins and Export Duration with Convex Technologies

Wendkouni J. Baptiste Zongo, Laval University; **Bruno Larue**, Université Laval; **Carl Gaigné**, French National Institute for Agricultural Research

Partial Identification of Import Demand Elasticities with Quantity Data

Shon Ferguson, Research Institute of Industrial Economics; **Aaron D. Smith**, University of California, Davis

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

2074 Agriculture and Water Quality

Suite 3919, 39th Floor

Selected Presentation

This session includes papers on agricultural activity and water quality. Topics range from decisions to overuse fertilizer to the consequences of degraded water quality.

Moderator: Mehdi Nemati, University of California, Riverside

Statistical Relationships Between Water Quality and Agricultural Intensity in Maine, USA

Laura L. Dodson, USDA-Economic Research Service; Kevin J. Boyle, Virginia Tech; Cayelan Carey, Virginia Tech

Understanding Overuse of Phosphorous Fertilizer in Soybeans

Seungyub Lee, University of Missouri; Laura M. McCann, University of Missouri

Cost-Effective Water Quality Management in Tile-Drained Fields

Di Sheng, Colorado State University; Jordan F. Suter, Colorado State University; Xiaolu Wei, Colorado State University; Ryan T. Bailey, Colorado State University

2075 Agricultural Pest and Disease Management

Suite 3924, 39th Floor

Selected Presentation

Papers in this session discuss the economics of pest and disease management in agricultural production.

Moderator: Parveen P. Setia, USDA-Animal and Plant Health Inspection Service

Evaluating Pest Management Strategies: A Robust Method and its Application to Strawberry Disease Management

Ariel Soto-Caro, University of Florida; Feng Wu, University of Florida; Zhengfei Guan, University of Florida

Preserving Biodiversity for Greater Productivity: Evidence from a Randomized Control Trial of Oil Palm Producers in Colombia

Lina Salazar, Inter-American Development Bank; Jossie Fahsbender, Inter-American Development Bank; Josue Avila, Inter-American Development Bank

Market and Production Heterogeneity Drives Differential Economic Benefits of Virus Screening Across California Grape Industry

Marieke Fenton, University of California, Davis; Travis J. Lybbert, University of California, Davis; Ji Yeon Cheon, University of California, Davis; Emma Gjerdseth, University of California, Davis; Qian Wang, University of California, Davis

The Rootworm Revisited – Analyzing Corn Farmers' Expenditures on Rootworm Abating Inputs in 2005 and 2016

Seth J. Wechsler, USDA-Economic Research Service

2076 Research Methods/Econometrics/Stats - Econometrics of Modeling Policy Impacts

Suite 4039, 40th Floor

Selected Presentation

The papers in this session examine various aspects of modeling policy impacts. Papers included look at the construction of counterfactuals, ethanol policy, monetary policy, and the impact of SNAP on diet quality.

Moderator: Christian A. Gregory, USDA-Economic Research Service

Estimation and Inference of Treatment Effects using a New Panel Data Approach with Application to the Impact of U.S. SYG Law on State Level Murder Rate

Huayan Geng, Binghamton University; Qiankun Zhou, Louisiana State University

Bounding the Effects of SNAP on Diet Quality: A Bayesian Approach to Endogeneity and Measurement Error

Christian A. Gregory, USDA-Economic Research Service; Martijn VanHasselt, University of North Carolina-Greensboro

Measuring Resilience: A Triple-difference Approach

Sonia Zaharia, Tufts University; William A. Masters, Tufts University; Shibani Ghosh, Tufts University; Gerald E. Shively, Purdue University; Katherine M. Heneveld, Tufts University; Lichen Liang, Tufts University; Sabi Gurung, Tufts University; Robin Shrestha, Tufts University; Andrew Thorne-Lyman, Johns Hopkins University; Patrick Webb, Tufts University

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

2077 Environmental Justice

L405, Lobby Level

Selected Presentation

By using micro-level data, the four papers in this section investigate air/water pollution, environment restoration programs, pesticide uses, and urban forestry from the perspective of environmental justice.

Moderator: Rezwanaul Parvez, Community College of Denver

Reassessing Environmental Injustice through Pollution Substitution and Leakage

Sangyoul Lee, University of Florida; **Xiang Bi**, University of Florida

Environmental Justice and Self-Regulation of Pesticide Applications: Evidence from California

Tor N. Tolhurst, University of California, Davis; **Rachael E. Goodhue**, University of California, Davis; **Karen Klonsky**, University of California, Davis; **Christopher DeMars**, University of California, Davis; **Minghua Zhang**, University of California, Davis

The Effect of Urban Forestry on Housing Price and Gentrification

Liqing Li, University of Illinois at Urbana-Champaign

2078 Rural Development, Energy, Climate Change and Social Capital

Suite 4003, 40th Floor

Selected Presentation

This session explores income inequality, energy, local foods, climate resilience and social impact on rural economies.

Moderator: Wojciech J. Florkowski, University of Georgia

Rural Life Quality Enhancement: Reducing Fossil Fuel Dependence Through Dwelling Renovation

Ozgur Kaya, American University of Sharjah; **Anna M. Klepacka**, Warsaw University of Life Sciences; **Wojciech J. Florkowski**, University of Georgia

The Route of Development in Intra-Regional Income Equality via High-Speed Rail: Evidence from China

Wenjing Yu, Zhejiang University; **Yansang Yao**, Zhejiang University

Modeling Location Decisions of Food and Agricultural Industry Establishments with Microdata

Anders T. Van Sandt, Texas A&M University; **Craig W. Carpenter**, Texas A&M University; **Scott Loveridge**, Michigan State University; **Rebekka M. Dudensing**, Texas A&M AgriLife Extension Service; **Linda Niehm**, Iowa State University; **Steven McKinney**, Iowa State University

Improving the Quality of Life of Smallholder Farmers by a Climate Resilience Program in Brazil

Alexandre Gori Maia, University of Campinas; **Daniel Morales Martinez**, University of Campinas; **Jennifer Burney**, University of California, San Diego; **Daniele Cesano**, Adapta Group

Does Rural Population Hollowing Bring a Loss in Happiness

Qianheng Chen, China Agricultural University; **Qianheng Chen**, China Agricultural University; **Michael Delgado**, Purdue University; **Hang Fang**, China Agricultural University

The Impact of Social Capital on Craft Beverage Tourism

Claudia Gil Arroyo, North Carolina State University; **Whitney Knollenberg**, North Carolina State University; **Carla Barbieri**, North Carolina State University; **Kathryn A. Boys**, North Carolina State University

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

2079 Teaching, Communication, and Extension

Suite 4019, 40th Floor

Selected Presentation

This session hosts papers that present extension interventions on communication networks and communication technologies. Topics include the adoption of soil fertility practices, irrigation services and nutrition technologies.

Moderator: Soumya Balasubramanya, International Water Management Institute

Do Agricultural Interventions Influence Network Formation? Insights from a Randomized Experiment in Kenya

Lisa Jäckering, *University of Göttingen*; **Theda Gödecke**, *University of Göttingen*; **Meike Wollni**, *University of Göttingen*

ICT Effectiveness in Transmitting Information about Optimal Time of Fertilizer Application to Nepalese Farmers

Nicoletta Giulivi, *McGill University*; **Aurelie P. Harou**, *McGill University*

The Effects of Decentralized and Video-based Extension on the Adoption of Integrated Soil Fertility Practices – Experimental Evidence from Ethiopia

Denise Hörner, *University of Göttingen*; **Adrien Bouguen**, *University of California, Berkeley*; **Markus Frölich**, *University of Mannheim*; **Meike Wollni**, *University of Göttingen*

The Effect of Irrigation Service Delivery and Training In Agronomy on Crop Choice in Tajikistan

Marie-Charlotte Buisson, *International Water Management Institute*; **Soumya Balasubramanya**, *International Water Management Institute*

2080 Strategic Agribusiness Sales – Training and Practice

M104, Marquis Level

Track Session - AEM Section

Collegiate sales programs hope to cultivate and produce students who are highly sought after and valued by corporations. A gap analysis compares managers' evaluations of displayed sales skills of new sales hires with the desired sales skills of new sales hires. Large commercial producer survey focuses on the role of a salesperson in building a relationship between farmer customer and input supplier. Topics such as trust, frequency of communication, and desired salesperson traits are covered. A survey of midwest farmers explores the farmers' perceptions of salespeople with a special focus on female salespeople. Professional salespeople share their experiences and expectations from new salespeople with the audience. Implications for managers and sales education will be discussed to include possible enhancements in the sales education curricula to better develop sales professionals more prepared to meet industry expectation.

Organizer: Aslihan D. Spaulding, Illinois State University

Farmers' Perceptions of Sales People

Aslihan D. Spaulding, *Illinois State University*; **W. Scott Downey**, *Purdue University*

Review of Large Producer Survey Related to Sales

Michael A. Gunderson, *Purdue University*

Are Sales Programs Effectively Preparing Sales Students for Successful Sales Careers?

Charles Howlett, *Northern Illinois University*; **Mya Groza**, *Northern Illinois State University*; **Michele Kaczka**, *Northern Illinois State University*

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

2081 Best Practices in Providing Technical Assistance to Food System Practitioners

M101, Marquis Level

Track Session - COSBAE & CRENET Sections

Traditional academic training that emphasizes research instead of extension results in junior faculty struggling to adequately fulfill the land-grant mission that integrates teaching, research, and extension/outreach. Thus, the needs of stakeholders and industry may not be fulfilled. The panelists in this session will discuss resources available to economists working on community development projects and/or providing technical assistance to food system practitioners, particularly those serving disadvantaged communities. The panel will be composed of academic, extension, and government disciplines. The panelists will focus on extension methods on innovations in marketing, distribution, and post-handling of agricultural products. Sessions attendees will obtain a greater awareness of how to gather stakeholder input to design, develop, and implement projects. The panelists will also discuss recent efforts in restructuring the National Value Added Agriculture conference to a summit that services the direct marketing sector more comprehensively.

Organizer: Jeffrey K. O'Hara, USDA-Agricultural Marketing Service

Moderator: Jeffrey K. O'Hara, USDA-Agricultural Marketing Service

Panelists: *Chyi-Lyi Liang, North Carolina A&T State University; Ronald L. Rainey, University of Arkansas; Dawn D. Thilmany McFadden, Colorado State University*

2082 Bayesian Econometrics in Agricultural Economics

L406, Lobby Level

Track Session - Econometrics Section

Although the concepts behind Bayesian statistics were developed as early as the 18th century, Bayesian techniques did not see wide use until the advent of the computer age. Computational methods developed in the 20th century allow for efficient inference; since that time the number of empirical applications utilizing Bayesian techniques has flourished. Bayesian inference is philosophically distinct from frequentist inference and has several arguable advantages including intuitive interpretation, relatively transparent estimation methods, and full quantification of uncertainty. This session includes applications of Bayesian econometrics in different areas of agricultural and applied economics. Two papers present new and novel Bayesian approaches. These papers will be discussed by Bayesian applied econometricians. AAEA members will also provide a retrospective on the growth of Bayesian techniques in the field of agricultural economics and future research directions.

Organizer: Austin F. Ramsey, Virginia Tech

Discussants: Jeffrey H. Dorfman, University of Georgia; Garth Holloway, University of Reading; Xiaoyong Zheng, North Carolina State University

Bayesian Estimation of von Liebig Production Functions

Austin F. Ramsey, Virginia Tech; Klaus Moeltner, Virginia Tech; Clinton L. Neill, Virginia Tech

Bayesian Spatiotemporal Quantile Models to Estimate County Specific Yield Distributions

Eunchun Park, Mississippi State University; Sunjin Ahn, Oklahoma State University

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

2083 Soil Health and Farmer Decisions

Suite 3939, 39th Floor

Track Session - ENV Section & AERE

The focus on soil health and its implications continues to grow across the agriculture and food sector. From farmers to supply chain companies to governments, there has been a significant emphasis and increasing attention on the role soil health plays in driving farmers' economic viability and environmental benefits. Farmers undertake a broad portfolio of management practices to improve their land health. A major challenge facing farmers is the lack of clear visibility of how their various decisions truly impact their overall economic viability. There is even less visibility of how ag practices over a longer time frame impact environmental sustainability. Soil health is a critical lever for a host of environmental benefits such as carbon sequestration and clean water. The Soil Health partnership has collaborated with over 140 farmers and a 100+ private, public and nonprofit organizations to establish a unique panel data set that assesses the impact of various agronomic practices on the land. We propose a discussion panel to bring together diverse perspectives (farmer, government, non-profit, trade association and private company) on a topic that continues to grow in urgency and importance in the U.S.

Organizers: Maria S. Bowman, Soil Health Partnership; Shefali V. Mehta, Soil Health Partnership-National Corn Growers Association

Moderator: Shefali V. Mehta, Soil Health Partnership-National Corn Growers Association

Farmer Perspective on Soil Health

Carrie Vollmer-Sanders, *North America Nature Conservancy*

Private Company Perspective on Soil Health

Andy Knepp, *Bayer*

Financial Incentives for Soil Health Practice Adoption

Maggie Monast, *Environmental Defense Fund*

Quantifying Risk in Farmer Decision-Making

Maria S. Bowman, *The Soil Health Partnership*

2084 Graduate Student Extension Competition Winners

M102, Marquis Level

Track Session - EXT & 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: William E. Maples, Oklahoma State University; Mykel R. Taylor, Kansas State University

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

2085 The Economics of Food Safety along Supply Chains

M105, Marquis Level

Track Session - FAMPS & FSN Sections

This session brings together different perspectives and latest research on the management of food safety along agri-food supply chains in a post FSMA world. The recent re-negotiation of NAFTA and the growing trade dispute between the U.S. and China have highlighted the roles long and often complex agri-food supply chains play for both U.S. consumers and firms. At the same time, recent innovations in digital technology revolutionize information sharing and related traceability systems aimed at mitigating food safety threats in food marketing. Bringing together papers on the study of border food safety inspection systems, FSMA policy and supply chain traceability, this session is focused on sharing latest research findings of interest to policy makers and academic peers.

Organizers: Sven M. Anders, University of Alberta; Kathryn A. Boys, North Carolina State University

Food Safety Requirements for Produce Growers: Retailer Demands and the Food Safety Modernization Act

Travis Minor, USDA-Economic Research Service; **Gerard Hawkes**, Cornell University; **Edward McLaughlin**, Cornell University; **Kristen Park**, Cornell University; **Linda S. Calvin**, USDA-Economic Research Service

Analyzing Patterns and Trends in Chinese and U.S. Food and Drug Administration Food Import Rejections

Fred Gale, USDA-Economic Research Service

Demand for U.S. Beef in China and Preferences for Block-chain Traceability

David L. Ortega, Michigan State University; **Wen Lin**, Michigan State University; **Vincenzina Caputo**, Michigan State University

A Review of Food and Drug Administration Imports Refusals - U.S. Seafood Trade in the Face of Food Safety Threats

Sven M. Anders, University of Alberta; **Kathryn A. Boys**, North Carolina State University

2086 The Role of Institutions in Environmental Management

M301, Marquis Level

Track Session - IBES Section

An environment's quality is largely determined by the environment's institutions. In this session, we explore four different institutional methods that might be utilized to promote positive environmental outcomes. In the first presentation, we evaluate the role of competition in commercial fisheries. The second presentation considers restoration and conservation in the National Parks as well as Areas of Concern. The third presentation considers the role informal institutions in invasive species management. The final presentation describes the potential for environmental trading markets.

Organizer: Trey Malone, Michigan State University

Moderator: Trey Malone, Michigan State University

Competition and Adaptation in Small Scale Commercial Fishery

Richard T. Melstrom, Loyola University Chicago

Comparing Preferences for Restoration and Conservation in the Great Lakes between Areas of Concern and National Parks using the Best-Worst Method

Tracy A. Boyer, University of Wisconsin, Milwaukee

Informal Institutions and Invasive Species Management

Abby Biedenbach, Oklahoma State University; **Wade Brorsen**, Oklahoma State University; **Jon T. Biermacher**, Noble Research Institute, LLC

Environmental Trading Markets

Richard Horan, Michigan State University

2087 Assessing Satellite-based Measures of Weather and the Impact on Estimates of Agricultural Productivity and Resilience

M103, Marquis Level

Track Session - Africa & International Sections

Satellite-based estimates of weather have become common in agricultural economics. However, the choice of how rainfall and temperature are measured and enter into the production function is typically ad hoc and almost never justified on agronomic principles. We propose a hybrid format for this session. The session will begin with a presentation of results from a study which has quantified the significance and magnitude of the effect of measurement error in weather metrics on estimates of agricultural production and resilience, using the LSMS-ISA data from eight countries in Africa. Following this, several case studies will be presented in lightning style. These case studies will employ the best practices and methods from the original study, with the goal of highlighting the differences in results from the use of various weather metrics.

Organizer: Anna Josephson, University of Arizona

Panelists: Anna Josephson, University of Arizona; Talip Kilic, The World Bank; Jeffrey D. Michler, University of Arizona; Siobhan Murray, The World Bank

2088 Cocoa and Palm Oil Value Chains and the Role of Producers Associations in the Production Systems of Latin America

L404, Lobby Level

Track Session - LAS & Senior Sections

This session presents four papers discussing the multiple dimensions of food value chains in Latin American countries, focused on cocoa and palm oil production in Ecuador, Colombia and Peru. This session addresses issues such as: (1) the welfare implications of producing conventional versus specialty varieties of cocoa (2) the impact of technology adoption, and (3) the role of gender and empowerment in export-oriented market chains. Furthermore, the session examines the role of producer associations in providing access to different value chains, especially those where benefits to producers are most pronounced. In addition, the session analyzes policy interventions in food value chains to enhance poverty reduction and mitigate environmental externalities associated with production processes in middle income countries. Moreover, the session will generate discussion around the increasing demand for chocolate due to the developing tastes of global consumers for dark chocolate.

Organizers: Jeffrey Alwang, Virginia Tech; Alexis H. Villacis Aveiga, Virginia Tech

Moderator: Graciela C. Andrango, Western Illinois University

Cocoa Value Chains in Ecuador: How Does Choice of Variety Influence Post-harvest Processing in High-quality Cocoa Value Chains?

Alexis H. Villacis Aveiga, Virginia Tech; Jeffrey Alwang, Virginia Tech

What Causes Some Farmers to be More Productive? A Two-step Approach that Examines Production Practices and their Adoption Amongst Smallholder Cacao Farmers in Colombia

Kalob Williams, Cornell University; Miguel I. Gomez, Cornell University

Intensification of Cocoa in the Peruvian Amazon: Gender Relations and Options for Deeper Engagement by Women

Trent D. Blare, International Maize and Wheat Improvement Center; Jason Donovan, International Maize and Wheat Improvement Center

Development and Inclusive Businesses in Rural Colombia: The Choice of ASOPAY, a Long-term Stream Income or Cash Out the Assets?

Emiliano López Barrera, Purdue University; James M. Lowenberg-DeBoer, Harper Adams University; Luis M. Peña-Lévano, University of Florida

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2089 Case Study: Government Policies and Locally Sourced Food

L403, Lobby Level

Invited Paper

This session discusses the intervention of government policies on the dairy industry as well as the intricacies of developing a locally sourced food market.

Discussants: Chia Yi Chin, University of Arizona; Katherine M. Lacy, University of Nevada, Reno

Government Cheese

Katherine M. Lacy, University of Nevada, Reno

Demand and Supply Feasibility of Local Food Center: The Case of Yavapai County, Arizona

Chia Yi Chin, University of Arizona

2091 Economics of Managing Water in Australia

L401, Lobby Level

Organized Symposium

Organizer: John Rolfe, Central Queensland University

Moderator: Daniel Gregg, Centre for Global Food and Resources, University of Adelaide

Using Choice Experiments to Assess Environmental and Amenity Values of the Great Barrier Reef

John Rolfe, Central Queensland University; **Jeremy De Valck**, Central Queensland University

A Review of Catchment Scale Modelling and Economic Implications in Australia

Malcolm K. Wegener, University of Queensland

Matching Customers' Preferences for Tariff Reform with Managers' Appetite for Change: The Case of Volumetric-only Tariffs in Australia

Saeideh Khosroshahi, Latrobe University; **Lin Crase**, Centre for Water Policy and Management, La Trobe University; **Bethany L. Cooper**, Centre for Water Policy and Management, La Trobe University; **Michael Burton**, University of Western Australia

Cost Effectiveness of Improving Water Quality from Improving Agricultural Management: A Framework to Reconcile Different Approaches

John Rolfe, Central Queensland University; **Megan L. Star**, Central Queensland University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2092 Topics in One Health, Zoonotic Diseases, & Biosecurity

L402, Lobby Level

Organized Symposium

The goal of this session is to update attendees on new research in One Health, Zoonotic Diseases, and Biosecurity happening at the regional, national, and international levels, and to discuss the economic impacts and challenges.

Organizer: Thomas L. Marsh, Washington State University

Moderators: Kamina K. Johnson, USDA-Animal and Plant Health Inspection Service; Dustin L. Pendell, Kansas State University

Discussant: Dustin L. Pendell, Kansas State University

Foot-and-mouth Disease Transmission between Wildlife and Livestock Populations of Smallholder Farmers: What are the Emerging Policy Implications?

Ndiadivha P. Tempia, Tshwane University of Technology

Effects of Drought and Media-reported Violence on Cattle Fever Tick Incursions

Jada Thompson, University of Tennessee; Hallie Hasel; Denise Bonilla; Amy Delgado; Sarah Berman

Measuring Impact of Animal Diseases on Livestock Productivity across Countries

Thomas L. Marsh, Washington State University; Mohammad Maksudur Rahman; Thomas L. Marsh

Incorporating Biological Feedback of Rhipicepalus Microplus & R. Annulatus Eradication Efforts into Simulating Eradication Costs to Agencies and Ranchers

Justin R. Benavidez, Texas A&M University; David P. Anderson; Pete D. Teel

Incorporating Containment Zones into Emergency Response Options for Highly Infectious Livestock Diseases

Ann Hillberg Seitzinger, Commonwealth Scientific and Industrial Research Organization; Kamina Johnson; Graeme Garner; Tim Capon, Sorada Tapsuwan; Corissa Miller; Ahmed Hafi; Donkor Addai

Empirical Evidence on the Substitution between Antibiotics and Vaccination: Livestock in East Africa

Ashley F. Railey, Washington State University; Thomas L. Marsh; Washington State University

Epidemiologic and Economic Consequences of African Swine Fever in the United States

Kamina Johnson, USDA-Animal and Plant Health Inspection Service; Amy Hagerman; Timothy Boyer; Ann Hillberg Seitzinger; Melissa Schoenbaum

Dynamic of Small Scale Poultry Farmers' Behavior in Response to Diseases

Alexis Delabougli, The Pennsylvania State University; Nguyen Thi Le Thanh; Huynh Thi Ai Xuyen; Phung Ngoc Tuyet; Benjamin Nguyen-Van-Yen; Ha Minh Lam; Maciej Boni

Vaccines for Coccidiosis: Pricing, Efficacy and the Productivity of Intensive Broiler Systems

W. Gilbert, University of Liverpool; C. Bellet; D.P. Blake; J. Rushton.

A Benefit Cost Ratio Approach to Evaluating Adoption of a Johne's Disease Vaccination for Dairy Cattle in Canada

David C. Hall, University of Calgary; Philip Rasmussen

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2093 Ag Finance and Farm Management - Issues with Crop Insurance

M107, Marquis Level

Selected Presentation - Discussant Test Session

This session covers topics related to crop insurance outcomes for farmers, agricultural lenders, and crop insurance providers.

Moderator: Xiaoli Fan, University of Alberta

Somebody's Watching Me! Impacts of the Spot Check List Program in U.S. Crop Insurance

Sungkwol Park, North Carolina State University; **Roderick M. Rejesus**, North Carolina State University; **Xiaoyong Zheng**, North Carolina State University; **Barry K. Goodwin**, North Carolina State University

Contract Elements, Growing Conditions, and Anomalous Claims Behavior in U.S. Crop Insurance

Sungkwol Park, North Carolina State University; **Barry K. Goodwin**, North Carolina State University; **Xiaoyong Zheng**, North Carolina State University; **Roderick M. Rejesus**, North Carolina State University

Crop Insurance's Impact on Agricultural Lenders

Alexander J. Schultz, Cornell University; **Jennifer E. Ifft**, Cornell University; **Todd H. Kuethe**, University of Illinois at Urbana-Champaign

The Impact of Crop Insurance on Farm Financial Outcomes

Nathan D. DeLay, Purdue University; **Brady E. Brewer**, Purdue University; **Allen M. Featherstone**, Kansas State University; **David Boussios**, USDA-Economic Research Service

2094 Agricultural Production Management and Profitability

M108, Marquis Level

Selected Presentation - Discussant Test Session

This session focuses on the way in which the agricultural production management strategies affect farm profitability. The relationship between size, efficiency, level of mechanization and automation, supply-chain coordination, intensification and long-term profitability is discussed.

Moderator: Kynda R. Curtis, Utah State University

Are Traditional Farms History: A Current Perspective Focusing on Hog Farms

Richard F. Nehring, USDA-Economic Research Service; **Jeffrey M. Gillespie**, USDA-Economic Research Service; **Flavius Badu**, USDA-Economic Research Service; **Charlie Hallahan**, Retired USDA-Economic Research Service; **Flavius Badu**, USDA-Economic Research Service

Stocking Rate and Dairy Production in New Zealand: An Analysis of the UQR Model with Fixed Effects

Wanglin Ma, Lincoln University; **Alan Renwick**, Lincoln University; **Bruce Greig**, Lincoln University

Adoption of Mechanization Solutions for Harvesting Fresh Market Blueberries

Karina Gallardo, Washington State University; **Liang Lu**, University of Idaho; **David Zilberman**, University of California, Berkeley

Contracting in the Presence of Insurance: The Case of Bioenergy Crop Production

Mohit Anand, Miles College; **Ruiqing Miao**, Auburn University; **Madhu Khanna**, University of Illinois at Urbana-Champaign

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2095 Firm Behavior and Consumer Demand

M105, Marquis Level

Selected Presentation

This session discusses a variety of issues related to firm behavior and consumer demand in the food industry. Topics include consumer responses to policy incentives, willingness to pay for product attributes, food waste, and firm pricing strategies.

Moderator: Vahé Heboyan, Augusta University

Retail Price Discrimination and Food Waste

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

Heterogeneity in Price Sensitivity: The Role of Prices and Wealth

Ahmed Rachid El-Khattabi, University of North Carolina at Chapel Hill; **Laurence Lin**, University of North Carolina at Chapel Hill; **Julien Isnard**, University of North Carolina at Chapel Hill; **Shadi Eskaf**, University of North Carolina at Chapel Hill; **Larry Band**, University of Virginia; **Brian McManus**, University of North Carolina at Chapel Hill; **Andrew J. Yates**, University of North Carolina at Chapel Hill

Animal Welfare Attributes in Dairy Production in Europe: Lessons Learned from a German Discrete Choice Experiment

Yascha Lena Koik, Kiel University of Applied Sciences; **Holger D. Thiele**, University of Applied Sciences Kiel; **Ullrich Enneking**, University of Applied Sciences Osnabrueck

Soda Taxes, Retail Pricing and Consumer Behavior

Hairu Lang, University of California, Davis; **Kristin Kiesel**, University of California, Davis; **Patrick W. McLaughlin**, USDA-Economic Research Service; **Richard J. Sexton**, University of California, Davis

Tobacco-Control Policies and U.S. Demand for Cigarettes: An Application of a Quantile Regression Model with State Fixed Effects

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

Medicaid and Food: An EASI Demand Approach

Rigoberto A. Lopez, University of Connecticut; **Sijia Chen**, University of Connecticut

Estimating the Effects of Electronic Cigarettes Excise Taxes on the Demand of Tobacco Products

Xueting Deng, University of Kentucky; **Yuqing Zheng**, University of Kentucky

2096 Non-Market Impacts of Natural Disasters, Pollution, and Wildfire

M303, Marquis Level

Selected Presentation

This session features nonmarket impacts of natural disaster, pollution, and wildfire in valuing the environment and other goods and services. The papers cover environments ranging from homeownership rate, housing price, sport game marketplace, and forest.

Moderator: Neha Khanna, Binghamton University

Community Resilience to Natural Disasters: The Effects of Environmental Changes on Homeownership Rate and Community Quality

Xiaoyu Li, The Ohio State University; **Allen Klaiber**, The Ohio State University; **Sathya Gopalakrishnan**, The Ohio State University

Recreational Damages from Air Pollution: Evidence from Secondary Marketplace Ticket Microdata for National Football League Games

Scott Kaplan, University of California, Berkeley; **Hal Gordon**, University of California, Berkeley

Heterogeneous Preferences Over Recreation Sites in Wildfire Prone Areas

Sophia Tanner, University of Arizona; **Frank Lupi**, Michigan State University; **Cloe Garnache**, Michigan State University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2097 Consumer Response to Farm Production Standards and Certification Schemes

M304, Marquis Level

Selected Presentation - Discussant Test Session

This session offers a collection of studies which use innovative approaches to examine consumer response to on-farm production standards and certification schemes.

Moderator: Kristin Kiesel, University of California, Davis

German Consumers' Preference and Planned Behavior for Animal Welfare Labelled Cured Ham: An Integrated Latent Choice Model

*Ching-Hua Yeh, University of Bonn; **Monika Hartmann**, University of Bonn*

Which Do U.S. Consumers Value More, Animal Welfare or Worker Welfare Labels? Evidence from Two Choice Experiments on Milk and Egg Selection

***Danielle M. Kaminski**, Michigan State University; Vincenzina Caputo, Michigan State University*

How Much do Consumers Value Farmers? An Investigation Across Food Products and Certification Schemes

***David L. Ortega**, Michigan State University; Danielle Ufer, Michigan State University; Wen Lin, Michigan State University; Christopher A. Wolf, Michigan State University*

Multi-product Firms, Multi-Category Purchase, and Firm-level Standards on Food Product Attributes Linked to Farm Practices

***Hanbin Lee**, University of California, Davis; Daniel A. Sumner, University of California, Davis*

2098 Dairy Policies and Trade Implications

Suite 3803, 38th Floor

Selected Presentation

The dairy industry, both in the U.S. and abroad, is facing challenges due to changes in policy and regulation. This session will cover the impacts of ongoing and emerging issues in the dairy industry, and their implications for international trade. Papers explore impacts of labeling requirements for dairy and dairy-related industries, the interdependencies between the U.S. and Canadian dairy markets, and the effects of waste management regulation on the size and scale of dairy farms.

Moderator: Ivan Tzintzun, Paris 1 Panthéon-Sorbonne

Milking "Milk" for Profits? Winners and Losers from The DAIRY PRIDE Act

***Armen Ghazaryan**, Colorado State University; Alessandro Bonanno, Colorado State University; Clare Cho, USDA-Economic Research Service*

North American Dairy Policy Puzzles: Do the Pieces Fit?

***Tristan M. Hanon**, University of California, Davis; Daniel A. Sumner, University of California, Davis*

Implication of Greenhouse Gas Reduction Mandates for Size Distributions of Dairy Farms

*Pablo Valdes-Donoso, University of California Agricultural Issues Center; **Daniel A. Sumner**, University of California, Davis*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2099 An Assessment of Food Safety from the Farm to the Consumer

Suite 3819, 38th Floor

Selected Presentation - Discussant Test Session

Problems with food safety can occur anywhere along the supply chain to the final consumer; thus, identifying factors that contribute to the disruption of food safety may save money, but more importantly lives. One paper in this session consider compliance costs of food safety regulation on the farm. Two papers consider firm level recalls and inspections in the U.S. A final paper theorizes consumer-level mitigating responses to food safety issues. These papers provide important analysis of critical areas of the food system to support a healthier food supply.

Moderator: Gregory M. Astill, USDA-Economic Research Service

The Impact of Third-party and Federal Produce Safety Standards on U.S. Cost of Production

Travis Minor, USDA-Economic Research Service; **Gregory M. Astill**, USDA-Economic Research Service; Suzanne D. Thornsbury, USDA-Economic Research Service; Xiao Dong, The Ohio State University

Ground Beef Recalls and Subsequent Food Safety Performance

Michael E. Ollinger, USDA-Economic Research Service; Elina T. Page, USDA-Economic Research Service; Matt Houser, University of Georgia

The Impacts of Food Safety Certification on Producers' Safety Outcomes

Lijiao Hu, University of Kentucky; Yuqing Zheng, University of Kentucky

Socioeconomic Influences on Food Safety Risks in Retail Food Environment.

Modhurima D. Amin, Washington State University; Jill J. McCluskey, Washington State University; Ron C. Mittelhammer, Washington State University; Haley F. Oliver, Purdue University; Sophie T. Wu, Purdue University

2100 Institutions and U.S. Labor Supply

Suite 3824, 38th Floor

Selected Presentation - Discussant Test Session

The papers in this session examine determinants of labor supply in U.S. markets and effects of related institutions.

Moderator: Rui Chen, Auburn University

Effects of Having an Opposite-sex Twin on Labor Market Outcomes in United States

Qiuqiong Huang, University of Arkansas; Qian Yiwei, University of Arkansas; Rodolfo M. Nayga, University of Arkansas

The Impact of ACA Medicaid Expansions on Agricultural Workers' Health Insurance Coverage, Medical Care Utilization, and Labor Supply

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

The Affordable Care Act: Does the ACA Dependent Coverage Mandate Mean Less Out-of-pocket Health Care Expenditure and Health Care Utilization?

Rui Chen, Auburn University; Di Fang, University of Arkansas; Valentina Hartarska, Auburn University

The Effect of Food Security Status on Labor Supply Decisions

Josie A. Krogh, University of Georgia; Travis A. Smith, University of Georgia

2101 International Development - Intergenerational

Suite 3839, 38th Floor

Selected Presentation

These papers explore the intergenerational transmission of behaviors and welfare.

Moderator: Jeffrey R. Bloem, University of Minnesota

All I Really Need to Know I Learned in Kindergarten? Evidence from the Philippines

Jeffrey R. Bloem, University of Minnesota

Like Parents, Like Children? Inter-Generational Poverty Transmission in China

Fan Yang, Sichuan University; **Krishna P. Paudel**, Louisiana State University; Zhuo Wang, Sichuan University

Empirical Investigation of Intertemporal Poverty Dynamics in Ghana

Yacob A. Zereyesus, Kansas State University; Francis Tsiboe, Kansas State University; Samuel Annim, University of Cape Coast

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2102 International Trade - Policy Impacts on Agricultural Trade

Suite 3903, 39th Floor

Selected Presentation

Papers in this session examine the impacts of trade policies such as retaliatory use of tariffs on agricultural trade.

Moderator: K. Aleks Schaefer, Royal Veterinary College, University of London

Retaliatory Use of Public Standards in Trade

*Kjersti Nes, University of California, Davis; **K. Aleks Schaefer**, Royal Veterinary College, University of London*

The United States Trade Policies in the Twenty First Century and Impacts for Domestic Agriculture

***Maksym Chepeliev**, Center for Global Trade Analysis, Purdue University; Wallace E. Tyner, Purdue University; Dominique Van Der Mensbrugghe, Purdue University*

Trade War: Global Land Use Implications of Chinese Tariffs on U.S. Agricultural Products

*Farzad Taheripour, Purdue University; **Peter Richards**, United States Department of Agriculture; Wallace E. Tyner, Purdue University*

Assessing the Impacts of Equivalency Agreements in International Organic Trade

***Siqi Zhang**, North Carolina State University*

U.S. Trade Policies and Their Impact on Domestic Vegetables, Fruits and Nuts Sector: A Detailed Tariff Line Analysis

*Maksym Chepeliev, Center for Global Trade Analysis, Purdue University; Alla Golub, Purdue University; Thomas W. Hertel, Purdue University; **Wajiha Saeed**, Purdue University*

Effects of Chinese and Mexican Retaliatory Tariffs on Select U.S. Agricultural Commodities on the U.S. Economy and Global Markets

*Amani E. Eloheid, Iowa State University; **Miguel A. Carriquiry**, Universidad de la República, Ciencias Economicas; David A. Swenson, Iowa State University; Dermot J. Hayes, Iowa State University*

U.S. Beef Exports Comeback in South Korea: A Competitor Analysis

***Lekhnath Chalise**, USDA-Economic Research Service; Russell Knight, USDA-Economic Research Service*

2103 Climate and Forests

Suite 3919, 39th Floor

Selected Presentation

Afforestation has the potential to provide a significant carbon sink to mitigate climate change. The papers in this session explore the relationship between forests and climate at a regional to global scale. Applications quantify the effects of climate and policy on forest area, and the potential for feedbacks as changes in forest area alter carbon sequestration, timber production, and carbon markets.

Moderator: Adam J. Daigneault, University of Maine

How Does Albedo Affect Climate-Efficient Forest Area and Global Carbon Prices?

***Emily F. McGlynn**, University of California, Davis; Bernardo Adolfo Bastien Olvera, University of California, Davis; Alice Favero, Georgia Institute of Technology*

Marginal Cost of Carbon Sequestration through Forest Restoration of Agricultural Land in the Southeast United States

***Oladipo S. Obembe**, Kansas State University; Nathan P. Hendricks, Kansas State University*

Global Forest Management, Carbon Sequestration, and Bioenergy Supply under Alternative Socioeconomic and Climate Pathways

***Adam J. Daigneault**, University of Maine; Alice Favero, Georgia Institute of Technology*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2104 Cropping System Economics

Suite 3924, 39th Floor

Selected Presentation - Discussant Test Session

Papers in this session discuss the economics of cropping systems including crop rotations, cover crops, and double cropping.

Moderator: Jarkko K. Niemi, Natural Resources Institute Finland

Cover Crops Usage in South Dakota: Perceived Profitability and Future Adoption Decisions

Tong Wang, *South Dakota State University*; **Deepthi Elizabeth Kolady**, *South Dakota State University*; **Jessica Ulrich-Schad**, *South Dakota State University*

Evaluating a Systems Approach to Suppressive Crop Rotations in Strawberry Production

Aleksandr Michuda, *University of California, Davis*; **Rachael E. Goodhue**, *University of California, Davis*; **Krishna V. Subbarao**, *University of California, Davis*; **Daniel Chellemi**, *Root Guard*

Double Cropping as an Adaptation to Climate Change in the United States

Matthew Gammans, *University of California, Davis*; **Pierre Mérel**, *University of California, Davis*

Crop Rotations and Risk Management in Mississippi Delta Agriculture

Andrew W. Stevens, *Mississippi State University*; **William B. Bradley**, *Mississippi State University*; **William Knotts**, *Mississippi State University*

2105 Research Methods/Econometrics/Stats - What's in the Data? Advances in Econometrics for Data Irregularities and New Data Sources

Suite 3934, 39th Floor

Selected Presentation - Lightning Section

The data that agricultural and applied economists use continues to evolve. This lightning session focuses on the econometrics methods that use new formats and sources of data, and that account for various data irregularities.

Moderator: Andrew Hanks, The Ohio State University

Misclassification Errors in Remote Sensing Data and Land Use Modeling

Yongjie Ji, *Iowa State University*

Estimating Dynamic Discrete Choice Panel Models Using Irregularly Spaced Data

Maolong Chen, *Southwestern University of Finance and Economics*; **Robert J. Myers**, *Michigan State University*; **Chaoran Hu**, *Sichuan University*

Testing Attrition Bias in Field Experiments

Sarojini Hirshleifer, *University of California, Riverside*; **Karen Ortiz Becerra**, *University of California, Davis*; **Dalia Ghanem**, *University of California, Davis*

Does Change in Respondents' Attention Matter in Estimating Willingness to Pay from Choice Experiments?

Kayla Hildebrand, *Oklahoma State University*; **Chanjin Chung**, *Oklahoma State University*; **Tracy A. Boyer**, *University of Wisconsin, Milwaukee*

On the Effect of the Unit of Choice in Consumer Food Valuation Studies

Wen Lin, *Michigan State University*; **David L. Ortega**, *Michigan State University*; **Vincenzina Caputo**, *Michigan State University*

Introducing Sentiment Analysis to Agricultural Economics: Case Study from Restaurant Reviews

Guang Tian, *University of Idaho*; **Xiaoxue Du**, *University of Idaho*; **Liang Lu**, *University of Idaho*; **Christopher S. McIntosh**, *University of Idaho*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2106 Clean Water Policy and Impacts

Suite 3939, 39th Floor

Selected Presentation

This session focuses on various forms of regulatory policies that target water quality, implementation problems, and benefits.

Moderator: William J. Burke, Agricultural and Food Policy Consulting

Financial Assistance and Violations of Environmental Regulations: Evidence from Clean Water Act (CWA) and Clean Water State Revolving Fund (CWSRF)

Sharaban T. Anica, West Virginia University; **Levan Elbakidze**, West Virginia University

Dueling Drought-mitigation Efforts: The Role of Water Use Efficiency and Conservation Policies on Effluent Generation and Quality

Kurt A. Schwabe, University of California, Riverside; **Mehdi Nemati**, University of California, Riverside; **Refat Amin**, University of California, Riverside

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

The Impact of Clean Water on Infant Mortality: Evidence from China

Maoyong Fan, Ball State University; **Guojun He**, Hong Kong University of Science and Technology

2107 Gender and Rural Development

Suite 4003, 40th Floor

Selected Presentation - Discussant Test Session

This session explores the role of women in agriculture and impact of broadband in rural development.

Moderator: Claudia Schmidt, The Pennsylvania State University

Female-Operated Farms and U.S. Agricultural Vitality

Claudia Schmidt, The Pennsylvania State University; **Zheng Tian**, The Pennsylvania State University; **Stephan J. Goetz**, The Pennsylvania State University

Does Elite Capture Matter? New Evidence from Development Oriented Seed Production Programme of Women Self-Help Group in India

Subash Surendran Padmaja, ICAR-National Institute of Agricultural Economics and Policy Research; **Prakashan Chellattan Veettil**, International Rice Research Institute; **Aditya K.S.**, Indian Agricultural Research Institute

Women's Empowerment and Technical Efficiency: What Role for Technology Adoption in Nigeria?

Adebayo S. Bamire, Obafemi Awolowo University; **Tahirou Abdoulaye**, International Institute of Tropical Agriculture; **Tahirou Abdoulaye**, International Institute of Tropical Agriculture; **Olajumoke Adeyeye**, Obafemi Awolowo University; **Hannah Reed**, Bill and Melinda Gates Foundation; **Alia Didier**, University of Washington; **Adebayo A. Akinola**, Obafemi Awolowo University; **Ayodeji S. Ogunleye**, Obafemi Awolowo University

Estimating the Impact of Wired Broadband Deployment on Rural Areas in Puerto Rico by Using Difference-In-Differences (DID) Method

Hyun Ji Lee, Texas Tech University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2108 Applications of Machine Learning to Predict Agricultural Land Values

Suite 4024, 40th Floor

Track Session - AFM & Econometrics Sections

Accurately predicting agricultural land values is challenging due to the small number of transactions and the large number of potential factors that affect values. Yet predictions of land values are critical for investment decisions, appraisals used by lenders, and policymakers targeting easements. This session includes two papers that advance the knowledge of predicting land values using machine learning algorithms. Co-sponsored by AFM and Econometrics sections, the session also includes discussion from a data scientist working in industry and a leading academic in agricultural finance.

Organizer: Wendong Zhang, Iowa State University

Moderator: Todd H. Kuethe, University of Illinois at Urbana-Champaign

Discussants: Allen M. Featherstone, Kansas State University; Adrian Torchiana, Granular, Inc.

Machine Learning Improves Prediction of Agricultural Land Values in Kansas

Nathan P. Hendricks, Kansas State University; **Emrah Er**, Kansas State University; **Mykel R. Taylor**, Kansas State University

The Difference Between Actual and Appraised Prices For New York Farmland: Machine Learning versus Standard Regression Analysis

Jennifer E. Ifft, Cornell University; **Akshat Vora**, Cornell University

2109 Risk Management Programs and the Farm Bill

M103, Marquis Level

Track Session - ARA Section

The 2018 Farm Act covers 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 played 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 2018 Farm Act relative to the 2014 Farm Act and their implementation.

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

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

Panelists: Harun Bulut, National Crop Insurance Services; Robert C. Johansson, USDA-Office of the Chief Economist; Dwight K. Lanclous, USDA-Farm Production and Conservation Business Center; Vincent H. Smith, Montana State University; Thomas W. Worth, USDA-Risk Management Agency

2110 Communicating Research to Support Public Trust in Science and Evidence-based Policy

L404, Lobby Level

Track Session - ENV Section & AERE

A core mission of agricultural and applied economics is to facilitate science-based policy making to address complex societal problems. However, successfully integrating science into policy requires a robust foundation of public trust in the scientific process and clear lines of communication among scientists, policymakers, and stakeholders. Too often, scientific information presented to the public and decision-makers is infused with hidden policy preferences and stealth advocacy, which erodes that trust. This session considers how the AAEA community can better communicate our research in a world of “fake news” and increased partisanship. The session will be in the format of a moderated panel discussion that features scholars with experience communicating science to broad audiences.

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

Moderator: Kelly M. Cobourn, Virginia Tech

Panelists: Kevin J. Boyle, Virginia Tech; Sandra Hoffmann, USDA-Economic Research Service; Mary Marchant, Virginia Tech; David J. Pannell, University of Western Australia; Parke E. Wilde, Tufts University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2111 China's Farmland Reform and the Development of Agriculture, Rural Areas, and Farmers - Lightning Section M102, Marquis Level

Track Session - China Section

Farmland circulation and the development of agriculture, rural areas, and farmers are critical to the future of China's agricultural industry. This session focuses on examining the current issues related to the reform of farmland circulation in China and the strategies of the development of agriculture, rural areas, and farmers.

Organizer: Yuqing Zheng, University of Kentucky

Will Land Transfer Always Increase Technical Efficiency in China?

Yu Liu, Nanjing Agricultural University; **Shangao Wang**, Nanjing Agricultural University; **Yingheng Zhou**, Nanjing Agricultural University

Does Land Titling Promote Land Transfers? Evidence from China

Yumeng Wang, Renmin University of China; **Xiangzhi Kong**, Renmin University of China; **Lixia He**, Oklahoma State University; **Dayton M. Lambert**, Oklahoma State University

Entering and Exiting: The Trends and Causes of Part-time Farming in Rural China

Yunli Bai, Institute of Geographic Sciences and Natural Resources Research; **Weidong Wang**; **Linxiu Zhang**, Institute of Geographic Sciences and Natural Resources Research; **Spencer Hagist**, Chinese Academy of Sciences

Who's Farming in China? From the Perspective of International Comparison

Linxiu Zhang, Institute of Geographic Sciences and Natural Resources Research; **Yunli Bai**, Institute of Geographic Sciences and Natural Resources Research; **Chengfang Liu**, Peking University; **Weidong Wang**

Social Capital, Capital Accessibility and Farmer Health

Menghua Li, China Academy for Rural Development of Zhejiang University; **Longbao Wei**, China Academy for Rural Development of Zhejiang University

Impact of Farmland Transfer on Household Labor Productivity: An Empirical Study in China

Lijing Zhang, Zhejiang University; **Wenrong Qian**, Zhejiang University

Group Lending without Joint Liability: Behavioral Insights from a Framed Field Experiment in Rural China

Jian Chen, The Ohio State University; **Jon Einar Flatnes**, The Ohio State University; **Richard Gallenstein**, Catholic University of America; **Mario J. Miranda**, The Ohio State University; **Yingmei Tang**, Nanjing Agricultural University

Effects of Social Network on Rural Household Debt Default

Siyu He, Sichuan Agricultural University; **Krishna P. Paudel**, Louisiana State University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2112 Outlook for U.S. Biofuels Policy - Impacts to the U.S. Crop Sector

L405, Lobby Level

Track Session - EXT Section

The U.S. Renewable Fuel Standard was enacted in the Energy Policy Act of 2005, which amended the Clean Air Act. The Energy Independence and Security Act of 2007 further amended the CAA by expanding the RFS program with mandates for different fuel types and limits on greenhouse gas emissions. Although the standard is not set to expire in its current form until 2022, it is likely that significant changes will be made before then. Three factors to be considered include: 1) reduced gasoline consumption; 2) failure of cellulosic fuels to reach their mandated levels; and 3) issuance of small refinery waivers to refiners claiming hardship due to the mandate. The goal of our session is to examine the issues surrounding this policy trade off. We specifically examine the U.S. crop sector, including bio-fuel products and their co-products.

Organizers: Thomas C. Capehart, USDA-Economic Research Service; Linwood A. Hoffman, USDA-Economic Research Service

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

Discussant: Anthony Radich, USDA-Office of the Chief Economist

Policy Issues and Outlook on Potential Changes to the Remaining RFS Standards

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

Impacts/Outlook for U.S. Feed Grain Sector

Todd Hubbs, *University of Illinois at Urbana-Champaign*

Impacts/Outlook for U.S. Oilseed Sector

Mark S. Ash, *USDA-Economic Research Service*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2113 Impact of Innovative Food Systems and Farm2School on Food Access and Food Choices - Lightning Section *M101, Marquis Level*

Track Session - FAMPS & FSN Sections

This lightning session focuses on food systems initiatives' role in improving food access, and highlights whether Farm to School (F2S) programming / local procurement influence food choices. Study one analyzes small-scale indigenous food programs and reductions in obesity and diabetes. Study two examines how dollar stores can fill food access gaps. Study three investigates characteristics of communities offering farm fresh food boxes, consumer demand and farmer profitability. Study four examines how motivation, ability and opportunity to participate in community gardening impacts food access/security. Study five analyzes students' autonomous choices and preferences for F2S (Farm-to-School)-based "healthier" options. Study six examines whether serving local F2S produce increases student consumption/acceptance of fruits and vegetables (FV). Study seven investigates student preferences for locally sourced foods and how parent-child interactions influence food choices. Study eight analyzes F2S programming spillovers on FV food-at-home purchases.

Organizers: Alessandro Bonanno, Colorado State University; Carola Grebitus, Arizona State University; Jane M. Kolodinsky, University of Vermont

Moderator: Zoë Plakias, The Ohio State University

Native Food Systems in Arizona: Improving Economic and Social Wellbeing through Indigenous Food Programs

Lauren Chenarides, Arizona State University; Renee Shaw Hughner, Arizona State University; Ashok K. Mishra, Arizona State University

The Prevalence of Dollar Stores in Areas with Low Food Access

Bongkyun Kim, University of Arkansas; Michael R. Thomsen, University of Arkansas; Lauren Chenarides, Arizona State University; Rodolfo M. Nayga, University of Arkansas

Spatial Characteristics of a Local Food Solution: Impacts on Community Development

Jane M. Kolodinsky, University of Vermont; Marilyn Sitaker, Evergreen State College; WeiWei Wang, University of Vermont

Using the Motivation-Ability-Opportunity Model to explain Community Gardening Participation and Related Food Security

Carola Grebitus, Arizona State University

The Impact of Student Choice in Farm to School elementary, Middle and High Schools

Jane M. Kolodinsky, University of Vermont; WeiWei Wang, University of Vermont

Do Farm to School Products Increase Fresh Fruit and Vegetable Consumption in Elementary Schools?

Siwen Zhou, Colorado State University; Marco Costanigro, Colorado State University; Becca B. R. Jablonski, Colorado State University; Abby Long, Colorado State University; Melissa Prescott, University of Illinois at Urbana-Champaign

Adolescent Children's Preferences for Locally Sourced Foods in School Lunches Under Parent-child Interaction

Thadchaigeni Panchalingam, The Ohio State University; Brian E. Roe, The Ohio State University; Allen Klaiber, The Ohio State University; Gregory E. Howard, East Carolina University

Exposure to Farm to School Programming and Households' Fruit and Vegetables Purchases

Sachintha S. Mendis, Colorado State University; Alessandro Bonanno, Colorado State University; Clare Cho, USDA-Economic Research Service

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2114 Job Market Papers in International and Development Economics

M302, Marquis Level

Track Session - International Section

Four job market candidates present their job market paper. The topics covered include structural transformation, global value chains, weather index insurance, and the effects of sunset times.

Organizer: Annemie Maertens, University of Sussex

Moderator: Annemie Maertens, University of Sussex

The Role Of Land Institutions in Structural Transformation: Evidence from Rural China

Zhongyuan Liu, University of Georgia

Demand for Weather-Index Insurance among Smallholder Farmers under Prospect Theory

Soye Shin, University of Georgia

Global Agricultural Value Chains and Structural Transformation

Sunghun Lim, University of Minnesota

Poor Sleep: Sunset Times and Human Capital Production

Maulik Jagnani, Cornell University

2115 Market Prices and Malnutrition in Developing Countries

M104, Marquis Level

Track Session - Africa, FSN, & International Sections

Agriculture and food markets could play a causal role in health and human development, as nutritious diets become more or less convenient and affordable. This session presents innovations in price analysis across countries and individuals to reveal large differences in the cost of meeting nutrient needs. First, Robel Alemu will address links between economic development and the cost of daily energy versus healthier diets using ICP data from 170 countries. Then Ellen McCullough will present new work on how actual consumer demand for foods and nutrients varies with income and prices using panel survey data from Tanzania, Yan Bai will address the impact of differences in nutrient needs on the affordability of healthy diets over time in Malawi, and Derek Headey will open discussion with comments linking these innovations to other work on agriculture and nutrition at International Food Policy Research Institute.

Organizer: William A. Masters, Tufts University

Moderator: William A. Masters, Tufts University

Discussant: Derek Headey, International Food Policy Research Institute

Economic Development and the Cost of Nutritious Diets in 170 Countries

Robel G. Alemu, Tufts University; Steven A. Block, Tufts University; William A. Masters, Tufts University; Derek Headey, International Food Policy Research Institute

New Estimates of Consumer Demand for Foods and Nutrients across Households in Tanzania

Ellen McCullough, University of Georgia; Soye Shin, University of Georgia; Chen Zhen, University of Georgia

Heterogeneity in Nutrient Needs and the Cost of Nutritious Diets over time in Malawi

Yan Bai, Tufts University; William A. Masters, Tufts University; Anna Herforth, Independent Consultant; Stevier Kaiyatsa, Lilongwe University of Agriculture and Natural Resources

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2116 How U.S. Trade Policies Have Shaped Latin America's Food and Ag Industry: Risks and Opportunities

Suite 4039, 40th Floor

Track Session - LAS Section

The aim of this session is to shed light on how U.S. trade policies have shaped the agricultural and food industry sector in Latin America and the Caribbean (LAC), and the implications of current trade policies on trade flows. The first two papers evaluate the potential impact of the changes in tariffs on LAC trade partners, the lessons learned, and the challenges faced. The third presentation will analyze how foreign direct investments in South America has positioned the region to address emerging export opportunities. The fourth presentation will evaluate how changes in the U.S.-China trade relationship may affect the LAC region, and the potential opportunities and challenges for the agricultural and food industry of the region.

Organizers: Felipe Peguero, CATIE University, Costa Rica; Samuel D. Zapata, Food Distribution Research Society

Moderator: P. Lynn Kennedy, Louisiana State University

From NAFTA to USMCA, Implications for Latin America and the Caribbean

Luis A. Ribera, Texas A&M University; **Flynn J. Adcock**, Texas A&M University

Central America and Caribbean Region: Lessons Learned from DR-CAFTA and Challenges Ahead

Luis A. Sandoval M, Zamorano University; **Felipe Peguero**, CATIE University, Costa Rica

South America: Foreign Direct Investments and Trade

Luis M. Peña-Lévano, University of Florida

Changes in US-China Trade Agreements: Risks and Opportunities for Latin America and the Caribbean Countries

Felipe Peguero, CATIE University, Costa Rica; **Samuel D. Zapata**, Food Distribution Research Society; **Andrew Muhammad**, University of Tennessee; **Elizabeth Canales Medina**, Mississippi State University

2117 Understanding the Economic Issues Underlying the Rural-urban Divide

M301, Marquis Level

Track Session - Senior Section

In the wake of the 2016 election, political observers have paid a significant amount of attention to rural Americans who, as a group, had a deep impact on the results. Commentators have been interested not only on rural Americans' role in the election but have also sought to determine why rural America voted the way it did. These two questions are best examined in light of some of the fundamental dynamics in the diverse rural economy. The motivation for this session comes from concerns about the relative lack of opportunities in rural areas and how that might weaken our democracy in the long run. The session will take a fresh look at persistent economic challenges and identify opportunities which are likely to give residents more of a voice in their businesses and communities.

Organizer: Mary Clare Ahearn, Economic Consultant

Moderator: Mary Clare Ahearn, Economic Consultant

Economic Diversity among Nonmetro County Types

Timothy Parker, USDA-Economic Research Service Resource and Rural Economics; **Mary Clare Ahearn**, Economic Consultant

Implications of Rural Employment Opportunities for Community Vitality

Stuart Andreason, Federal Reserve Bank of Atlanta

Running from the Mountains and Headed to the City: How Do Rural Places Survive?

Alison Davis, University of Kentucky

Causes and Consequences of the Higher Opioid Prescribing Rates in Rural America

Gery Guy, Centers for Disease Control and Prevention

Attitudes, Economics, and Rural-urban Interactions

Heather Stephens, West Virginia University

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AAEA would like to extend a special thank you to the Selected Presentations Committee for their efforts in organizing the sessions taking place here in Atlanta. The committee, with the help of volunteer topic leaders and over four hundred reviewers fielded a record-breaking 1400+ abstracts to create the topically diverse, high quality sessions that will be presented over the course of the 2019 Annual Meeting.

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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!

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Marquis Level, Atlanta Marriott Marquis

Sunday, July 21, 7:30 am-7:30 pm

Monday, July 22, 7:30 am-5:00 pm

Tuesday, July 23, 7:30 am-4:00 pm

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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.

THANK YOU



Farm Income Enhancement Program

The Ohio State University

- Welcome Reception

The Farm Income Enhancement Program in the Department of Agricultural, Environmental, and Development Economics at The Ohio State University develops and delivers research, education, and outreach to enhance farm income and promote long-term stability for farm businesses.

And a special thank you to our stylus pen sponsor!



THE UNIVERSITY OF CHICAGO PRESS JOURNALS

University of Chicago Press Journals

The University of Chicago Press publishes more than 80 scholarly journals. These titles include the Journal of the Association of Environmental and Resource Economists, Marine Resource Economics and the Journal of Political Economy.

Undergraduate Recruitment Fair

Monday, 8:00 am – 4:00 pm

Marriott Foyer near L401, Marquis Level

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

PARTICIPATING ORGANIZATIONS INCLUDE:

- South Dakota State University
- Texas A&M University
- University of Arkansas
- University of Georgia
- University of Kentucky

Exhibitors

AGECON SEARCH

AgEcon Search is an online repository of over 130,000 full-text documents including conference presentations, working papers, journal articles, reports and theses and dissertations from around the world. Subject coverage is agricultural and applied economics broadly defined including agribusiness, food security, energy and natural resources economics, and international development. AgEcon Search is the permanent host for 12,800 AAEA conference papers from 1917-2018. AGECONSEARCH.UMN.EDU



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INTER-AMERICAN DEVELOPMENT BANK

Development Bank for Latin America and the Caribbean. WWW.IADB.ORG



MICHIGAN STATE UNIVERSITY, DEPARTMENT OF AGRICULTURE, FOOD, AND RESOURCE ECONOMICS (AFRE)

Information about graduate programs and international development research, outreach, and capacity building. WWW.AFRE.MSU.EDU/



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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 engagement. AG.PURDUE.EDU/AGECON/



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.



USDA - ECONOMIC RESEARCH SERVICE (ERS)

The USDA's Economic Research Service anticipates trends and emerging issues in the food, agriculture, rural, and environmental sectors, and conducts economic research that informs public program and policy decisions in those arenas.

Visit ERS at WWW.ERS.USDA.GOV



Plenary Sessions

AAEA KEYNOTE ADDRESS

Sunday, July 21, 6:00 pm – 7:00 pm

Marquis Ballroom C&D, Marquis Level



Pamela Ronald, *University of California, Davis*

“Serving up Science: Plant Genetics and the Future of Food”

Pamela Ronald, is a Distinguished Professor, in the Dept. of Plant Pathology and the Genome Center, and Founding Director of the Institute for Food and Agricultural Literacy at the University of California, Davis. She also serves as a Key Scientist at the Joint Bioenergy Institute in Emeryville, CA. Ronald studies rice genes that control resistance to disease and tolerance to environmental stress. Ronald and colleagues received the 2008 USDA National Research Initiative Discovery Award and the 2012 Tech Award for innovative use of technology to benefit humanity. In 2011, Ronald was selected as one of the 100 most creative people in business by Fast Company Magazine. She is the recipient of the 2012 Louis Malassis International Scientific Prize for Agriculture and Food, a Guggenheim Fellowship, the National Association of Science Writers Science in Society Journalism Award, and the Fulbright-Tocqueville Distinguished Chair Award. In 2014 she was named one of the world’s most influential scientific minds by Thomson Reuters, in 2015 was selected by Scientific American as one of the world’s 100 most influential people in biotechnology and in 2016 was named one of the 50 innovators and visionaries who will lead us toward a more sustainable future by Grist magazine. She is co-author, with her husband, Raoul Adamchak, an organic farmer, of *Tomorrow’s Table: Organic Farming, Genetics, and the Future of Food*. Bill Gates calls the book “a fantastic piece of work” and “important for anyone that wants to learn about the science of seeds and challenges faced by farmers. In 2012, *Tomorrow’s Table* was selected by The New Earth Archive as one of the 25 most powerful and influential books with the power to inspire college readers to change the world. Her 2015 TED talk has been viewed by more than 1.7 million people and translated into 26 languages.

AAEA PRESIDENTIAL ADDRESS

Monday, July 22, 8:30 am – 9:30 am

Marquis Ballroom C&D, Marquis Level



Keith Coble, *Mississippi State University*

“Relevant and/or Elegant Economics”

A W.L. Giles Distinguished Professor of Agricultural Economics, Keith Coble holds teaching, research, and extension appointments. His work focuses on risk management, agricultural and food policy, renewable energy, climate, insurance, and experimental economics. Coble has analyzed how farmers can use risk management tools such as futures contracts, crop insurance, and federal commodity programs. Work in renewable energy focuses on the federal policy for renewable energy and economic feasibility of renewable energy. He has testified before Congressional Committees and has co-authored over fifty reports for government agencies. His insurance analysis and studies have modified several billion dollars of U.S. crop insurance premiums per year. Coble currently serves on the Council on Food, Agricultural and Resource Economics’ Blue Ribbon Panel of Experts who provide guidance about matters of significance to policy makers.

Plenary Sessions

AAEA FELLOWS ADDRESS

Tuesday, July 23, 8:30 am – 9:30 am

Marquis Ballroom C&D, Marquis Level



Alan Olmstead, *University of California, Davis*

“Historical and Institutional Perspectives on American Agricultural Development”

Alan L. Olmstead is Distinguished Research Professor of Economics at the University of California at Davis. His 2015 book with Paul W. Rhode, *Arresting Contagion: Science, Policy, and Conflicts over Animal Disease Control* analyzes how U.S. animal disease policies redefined American federalism, vastly increased livestock productivity, and save hundreds of thousands of lives in the three decades prior to WWII. Policies created in the United States would subsequently be copied around the world to combat animal and human diseases.

In *Creating Abundance: Biological Innovation and American Agricultural Development*, Olmstead and Rhode examine three centuries of technological advance in American agriculture. Other publications have explored the adaptability of agriculture to climatic challenges, and slavery and southern development. Olmstead is an Editor-in-Chief of the 5,000-page *Historical Statistics of the United States: Earliest Times to the Present, Millennial Edition*.

Professor Olmstead recently served on the Board of Directors of the National Bureau of Economic Research. He has organized and managed academic exchanges and advising programs in several countries. From 1989 to 1991, he served as an advisor on economic and political reform for members of the Constitutional Commissions of Russia and the USSR.

Olmstead is an inaugural Fellow of the Cliometrics Society and a Fellow of the Agricultural and Applied Economics Association. He is a past president of the Economic History Association and of the Agricultural History Society. His research has won many distinctions, including the Allan Sharlin Memorial Award (SSHS), the Quality of Research Discovery Prize (AAEA), Alice Hanson Jones Prize (EHA), the Arthur H. Cole Prize (EHA), and the Thomas Jefferson Prize (SFH). In 1999, the Australian Agricultural and Resource Economics Society honored Professor Olmstead as its inaugural Alan Lloyd Fellow.

AAEA GALBRAITH FORUM

Tuesday, July 23, 6:30 pm – 7:30 pm

Marquis Ballroom C&D, Marquis Level



David Card, *University of California, Berkeley*

“Model-based and Design-based Approaches in Empirical Microeconomics”

David Card is the Class of 1950 Professor of Economics at the University of California, Berkeley and Director of the Labor Studies Program at the National Bureau of Economic Research. His research interests include immigration, wages, education and gender-and race-related differences in the labor market. He co-authored the 1995 book *Myth and Measurement: The New Economics of the Minimum Wage*, and co-edited *The Handbook of Labor Economics* (1999), *Seeking a Premier Economy: The Economic Effects of British Economic Reforms* (2004); and *Small Differences that Matter: Labor Markets and Income Maintenance in Canada and the United States* (1992). He has also published over 125 journal articles and book chapters.

Card was co-editor of *Econometrica* from 1991 to 1995 and of the *American Economic Review* from 2002 to 2005. He taught at Princeton University from 1983 to 1996, and has held visiting appointments at Columbia, Harvard, and the Center for Advanced Study in the Behavioral Sciences. In 1995 he received the American Economic Association’s John Bates Clark Prize, which is awarded every other year to the economist under 40 whose work is judged to have made the most significant contribution to the field. He was a co-recipient of the IZA Labor Economics Award in 2006; and the BBVA Frontiers of Knowledge Prize in 2015, and was awarded the Frisch Medal by the Econometric Society in 2007.

Speaker Series Events

CWAE AND COSBAE SPEAKER SERIES & LUNCHEON

Monday, July 22, 11:30 am – 1:00 pm

L402 & L403, Lobby Level

* This is a ticketed event



Dr. Juliet Elu, Morehouse College

Juliet U. Elu will discuss her experiences with promoting diversity and inclusivity in the Economics profession and how she sees the working landscape changing for both domestic and international researchers who are either women, underrepresented minorities or both.

Juliet U. Elu, PhD is the Charles E. Merrill Professor, Division Chair (Dean Equivalent) and Department Chair (Economics) for the Division of Business and Economics at Morehouse College in Atlanta, GA. Her previous appointments include pioneer Vice Chancellor at Gregory University, Uturu, Nigeria; Director of Management at Spelman College; Professor of Economics at Clarke University in Dubuque Iowa. An applied and policy theorist, her research has been published in a wide variety of journals such as American Economic Review, Journal of African Development, Journal of Peace Economics, Journal of Economic Studies, Journal of Third World Studies, Review of Black Political Economy, and African Development Review to name a few. She serves as an editor for Advances in African Economic, Social and Political Development, and a reviewer for Economic and Social Research Council, Journal of Developing Areas and National Science Foundation to name a few. Dr. Elu earned her BSc in Economics/Political Science and MBA/MPA from Utah State University, Logan, Utah, and completed her economics doctorate at the University of Utah, Salt Lake City, Utah. She served as the past President of National Economics Association, African Finance and Economics Associations, and a Board member on several Professional Organizations. She serves as consultant on Block Chain technology and regional integration for multilateral organizations in Africa. She is also the recipient of the Vulcan Teaching Excellence Award in recognition of her teaching, Image Service Community Award by Alliance of Nigerian Organizations in Georgia, and best outstanding research paper in 2017 by the Journal of Economic Studies.

EXTENSION SECTION LECTURE AND LUNCHEON

Monday, July 22, 11:30 am – 1:00 pm

Marquis Ballroom C&D, Marquis Level

* This is a ticketed event



Bob Young, former Chief Economist for the American Farm Bureau Federation

“Extension and Policy - Education in the Real World”

One of the paramount roles for extension is dissemination of information to those who need it. This is never more evident than in the role extension can, does, and should play in educating the public regarding government policies. Whether a new farm bill or state set-back requirements, new migrant labor law provisions or food safety procedures, extension has a key role in transmitting information to the public.

Meeting Timeline


SATURDAY, JULY 20

8:00 am – 3:00 pm 


Pre-conference Workshop: Planning and Creating a Winning Grant Proposal – Do's and Don'ts of Integrated Approach
M304, Marquis Level

8:00 am – 3:30 pm 

Pre-conference Workshop: Best Practices for Addressing the Replicability Crisis in Agricultural and Applied Economics
M301, Marquis Level

8:00 am – 5:00 pm 

ISESSAH (International Society of Economics and Social Sciences for Animal Health)
M104 & M105, Marquis Level

2:00 pm – 7:00 pm 

Pre-conference Workshop: Local Brewing Industry Tour
*Offsite, meet in Marriott Lobby

2:30 pm – 4:00 pm

Government Relations Committee Meeting
M103, Marquis Level

3:00 pm – 5:00 pm

Agribusiness: An International Journal Business Meeting
TBD

SUNDAY, JULY 21

Registration Desk Hours: 7:30 am - 7:30 pm, Marquis Foyer, Marquis Level

Employment Center Hours: 9:30 am - 5:00 pm, M106, Marquis Level

Professional Headshots Hours: 1:00 pm - 6:00 pm, Marquis Foyer, Marquis Level

7:30 am – 9:00 am

Section Leader Meeting
M301, Marquis Level

8:00 am – 1:30 pm

AJAE Editor's Meeting
M108, Marquis Level

8:00 am – 3:00 pm

AEM/GSS Case Study Competition
L401 & L402, Lobby Level

8:00 am – 3:00 pm

GSS/Extension Competition
L405 & L406, Lobby Level

9:00 am – 10:00 am

FSN Section Business Meeting
M102, Marquis Level

9:00 am – 10:00 am

Mentorship Committee Meeting
M105, Marquis Level

9:00 am – 10:30 am

C-FARE Board Meeting
M107, Marquis Level

Meeting Timeline

9:30 am – 10:30 am

ESIRC Committee Meeting
M303, Marquis Level

9:30 am – 11:30 am

CWAE Section Business Meeting
M302, Marquis Level

10:00 am – 11:00 am

Econometrics Section Business Meeting
M105, Marquis Level

10:00 am – 12:00 pm

Africa Section Business Meeting
M103, Marquis Level

10:00 am – 12:00 pm

Specialty Crop Economics Section Business Meeting
M304, Marquis Level

10:30 am – 11:30 am

Australasia Section and AARES-NAB Business Meeting
M102, Marquis Level

10:30 am – 11:30 am

IBES Section Business Meeting
M107, Marquis Level

11:00 am – 12:00 pm

BEER Section Business Meeting
M105, Marquis Level

11:00 am – 12:00 pm

Employment Services Committee Meeting
M301 and M302, Marquis Level

11:30 am – 1:00 pm

AAEA Trust Committee Meeting
M303, Marquis Level

12:00 pm – 1:30 pm

AFM Section Business Meeting
M102, Marquis Level

12:00 pm – 1:30 pm

COSBAE Section Business Meeting
M302, Marquis Level

12:00 pm – 2:00 pm

SS-AAEA Section EOHDS Spreadsheet Competition
M107, Marquis Level

12:30 pm – 1:30 pm

AEPP Editorial Board Meeting
M105, Marquis Level

Meeting Timeline

12:30 pm – 1:30 pm

CRENET Section Business Meeting
M101, Marquis Level

12:30 pm – 2:00 pm

International Section Business Meeting
M304, Marquis Level

12:30 pm – 1:30 pm

Latin American Section Business Meeting and Reception
M304, Marquis Level

1:30 pm – 2:30 pm

AJAE Editorial Board Meeting
M108, Marquis Level

2:00 pm – 3:00 pm

Communications Committee Meeting
M102, Marquis Level

2:00 pm – 3:00 pm

Experimental Economics Section Business Meeting
M304, Marquis Level

2:00 pm – 3:00 pm

Senior Section Business Meeting
M109, Marquis Level

2:00 pm – 3:30 pm

TLC Business Meeting
M101, Marquis Level

2:00 pm – 4:00 pm

NAAEA Business Meeting
M103, Marquis Level

2:30 pm – 3:30 pm

ENV Section Business Meeting
M107, Marquis Level

2:30 pm – 3:30 pm

Finance Committee Meeting
M303, Marquis Level

3:00 pm – 4:00 pm

Related Journal Editors' Meeting
M108, Marquis Level

3:00 pm – 4:30 pm

AEM Section Business Meeting
M302, Marquis Level

3:00 pm – 5:30 pm

SS-AAEA Section Paper Competition
L403, Lobby Level

Meeting Timeline

3:00 pm – 6:00 pm

Extension Section Business Meeting and Reception

M301, Marquis Level

3:30 pm – 4:30 pm

Publications Committee Meeting

M105, Marquis Level

4:00 pm – 5:00 pm

China Section Business Meeting and Reception

M101, Marquis Level

4:00 pm – 6:00 pm

FAMPS Section Business Meeting and Mixer

M303, Marquis Level

4:30 pm – 5:30 pm

Choices Editorial Board Meeting

M105, Marquis Level

4:30 pm – 6:00 pm

AEM Section Reception

M101, Marquis Level

4:30 pm – 6:00 pm

ARA Business Meeting

M103, Marquis Level

4:30 pm – 6:00 pm

COSBAE & CWAE Section Reception

M102, Marquis Level

4:30 pm – 6:00 pm

Early Career Professionals Networking Reception

M304, Marquis Level

6:00 pm – 7:00 pm

Keynote Address: Pamela Ronald, University of California, Davis

Marquis Ballroom C&D, Marquis Level

7:00 pm – 8:00 pm

Welcome Reception

Skyline - 10th Floor

7:00 pm – 9:00 pm

SS-AAEA Undergraduate Mixer/Academic Bowl Orientation

M303 and M304, Marquis Level

Meeting Timeline

REUNIONS AND RECEPTIONS

8:00 pm – 10:00 pm

Various Rooms, Marquis Foyer, Marquis Level

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

M104 & M105

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

M106 & M107

Cornell University; The Pennsylvania State University

M101

MONDAY, JULY 22

Registration Desk Hours: 7:30 am - 5:00 pm, *Marquis Foyer, Marquis Level*

Employment Center Hours: 9:30 am - 5:00 pm, *M106, Marquis Level*

Connection Center Hours: 8:00 am - 6:00 pm, *Marquis Foyer, Marquis Level*

Poster Hall Hours: 8:00 am - 5:30 pm, *Marquis Ballroom A&B, Marquis Level*

Exhibit Booth Hours: 8:00 am - 6:00 pm, *Marquis Foyer, Marquis Level*

8:00 am – 8:30 am

AAEA Business Meeting

Marquis Ballroom C&D, Marquis Level

8:00 am – 9:00 am

Coffee/Networking Break

Marquis Level

8:00 am – 4:00 pm

SS-AAEA Academic Bowl

L404, L405, & L406, Lobby Level

8:00 am – 4:00 pm

Undergraduate Recruitment Fair

Near L401, Lobby Level

8:30 am – 9:30 am

AAEA Presidential Address: Keith Coble, Mississippi State University

Marquis Ballroom C&D, Marquis Level

10:00 am – 11:30 am

Concurrent Sessions (see page _)

11:30 am – 1:00 pm

Networking Break

Various Rooms

11:30 am – 1:00 pm 

CWAE & COSBAE Speaker Series & Luncheon

L402 & L403, Lobby Level

11:30 am – 1:00 pm 

Extension Section Lecture & Luncheon

Marquis Ballroom C&D, Marquis Level

Meeting Timeline

1:00 pm – 2:30 pm

Concurrent Sessions (see page _)

1:30 pm – 4:00 pm

AEM/GSS Case Study Competition Finals

L401 & L403, Lobby Level

2:45 pm - 4:15 pm

Concurrent Sessions (see page_)

4:15 pm – 5:30 pm

Poster Reception

Marquis Ballroom A&B, Marquis Level

5:30 pm – 6:00 pm

SS-AAEA Academic Bowl Finals

Marquis Ballroom C&D, Marquis Level

6:00 pm – 7:15 pm

AAEA Awards and Fellows Recognition Ceremony

Marquis Ballroom C&D, Marquis Level

8:00 pm – 9:00 pm

SS-AAEA Section Business Meeting

L402 & L403, Lobby Level

REUNIONS AND RECEPTIONS

9:00 pm – 11:00 pm

Various Rooms, Marquis Level

Purdue University, University of Illinois

M303 & M304

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

M101

Michigan State University, The Ohio State University

M301

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

M103, M104, & M105

Oregon State University, University of Idaho, Washington State University

M102

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

M302

China Agricultural University, Nanjing Agricultural University, Zhejiang University

TBD

Meeting Timeline

TUESDAY, JULY 23

Registration Desk Hours: 7:30 am - 4:00 pm, *Marquis Foyer, Marquis Level*

Employment Center Hours: 9:30 am - 4:00 pm, *M106, Marquis Level*

Connection Center Hours: 8:00 am - 6:30 pm, *Marquis Foyer, Marquis Level*

Exhibit Booth Hours: 8:00 am - 4:15 pm, *Marquis Foyer, Marquis Level*

Poster Hall Hours: 8:00 am - 4:30 pm, *Marquis Ballroom A&B, Marquis Level*

8:00 am – 9:00 am

Coffee/Networking Break

Marquis Foyer, Marquis Level

8:30 am – 9:30 am

AAEA Fellows Address: Alan Olmstead, University of California, Davis

Marquis Ballroom C&D, Marquis Level

11:30 am – 12:30 pm

Galbraith Committee Meeting

TBD

10:00 am – 11:30 am

Concurrent Sessions (see page _)

11:30 am – 12:45 pm

Poster Reception

Marquis Salon A&B, Marquis Level

11:45 am – 12:15 pm

C-FARE Report, Appreciation, and Awards

TBD

11:45 am – 12:45 pm

Working with the Media Session

M102, Marquis Level

1:00 pm – 2:30 pm

Concurrent Sessions (see page_)

2:45 pm – 4:15 pm

Concurrent Sessions (see page_)

4:30 pm – 4:45 pm

Coffee/Networking Break

Connection Center, Marquis Level

4:45 pm – 6:15 pm

Concurrent Sessions (see page_)

6:30 pm – 7:30 pm

AAEA Galbraith Forum: David Card, University of California, Berkeley

Marquis Ballroom C&D, Marquis Level


7:30 pm – 8:30 pm

Closing and International Reception

TBD


Meeting Timeline

WEDNESDAY, JULY 24

7:45 am – 5:30 pm 


Extension Section Agricultural Tour

**Off-site, meet in Marriott Lobby*

8:30 am – 5:30 pm 

Early Career Mentoring 2-Day Workshop


M101, Marquis Level

9:00 am – 4:30 pm 

Public Health and AAEA

**Off-site at the CDC Office*

THURSDAY, JULY 25

7:15 am – 1:00 pm 

Early Career Mentoring 2-Day Workshop

M101, Marquis Level

Posters

Marquis Ballroom A&B, Marquis 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 5:15 pm on Tuesday will be discarded. Setup and take down times for each day are below:

MONDAY POSTERS

Poster Setup: Sunday, July 21: 9:00 am - 4:00 pm

Monday, July 22: 7:00 am - 8:00 am

Poster Reception: Monday, July 22: 4:15 pm - 5:30 pm

Poster Take Down: Monday, July 22: 5:30 pm - 6:30 pm

TUESDAY POSTERS

Poster Setup: Tuesday July 23: 7:00 am - 8:00 am

Poster Reception: Tuesday, July 23: 11:30 am - 12:45 pm

Poster Take Down: Tuesday, July 23: 4:30 pm - 5:15 pm

Agribusiness Economics and Management - Poster Session

M001 Dynamic Price Discovery in Chinese Agricultural Futures Markets

Miao Li, Huazhong Agricultural University; Tao Xiong, Huazhong Agricultural University

M002 The Impact of Economic Sentiment Index on the Price Relationship between Organic and Conventional Fruits in Korea

Jun Ho Seok, Korea Rural Economic Institute; GwanSeon Kim, University of Kentucky; Soo-Eun Kim, Jeonbuk Institute; Tyler B. Mark, University of Kentucky

M003 Drop-in Ready Jet Biofuel from Carinata: A Real Options Analysis of Processing Plant Investments

Chong Zhao, University of Georgia; Gregory J. Colson, University of Georgia; Berna Karali, University of Georgia; George Philippidis, University of South Florida

M004 Analysis of the Competitiveness of Coffee Beans from Different Origin in the South Korea and U.S. Coffee Market

Joonhyung Joo, Korea University; Kyungsoo Nam, Korea University; Byeong-il Ahn, Korea University

M005 Productivity Growth, Scale Effects, and Regional Disparities in China's Modern Aquaculture Industry: An Empirical Research

Hao Li, Washington State University

M006 Impact of Contract Farming and Food Loss: Evidence from an Emerging Economy

Alwin Dsouza, Arizona State University; Ashok K. Mishra, Arizona State University

M007 Do Cattle Breeds Affect Carcass Value?

Julian M. Worley, University of Georgia; Jeffrey H. Dorfman, University of Georgia

M008 How Social Media Usage Affects Consumer Trust? Evidence from Chinese Community Supported Agriculture

Si Tan, Renmin University of China; Weiping Chen, Renmin University of China

M009 Farmers' Traditional Maize Harvesting and Storage Methods and Response to Improved Techniques in Ondo State, Nigeria

Ojuotimi E. Mafimisebi, Rufus Giwa Polytechnic; Segun T. Ojumu, Rufus Giwa Polytechnic, Owo, Ondo State, Nigeria; James O. Okunlola, Federal University of Technology, Akure, Ondo State, Nigeria

M010 Which Factors Affect the Importance of Information Sources among U.S. Farmers?

Zahra Mohammadi, Purdue University; Michael A. Gunderson, Purdue University; Scott Downey, Purdue University

M011 Is People's Daily Lifestyle Consistent with Their Food Purchasing Behavior?

Yefan Nian, University of Florida; Lijia Shi, University of Florida; Zhifeng Gao, University of Florida; Ruojin Zhao, University of Florida

Posters

- M012 Using Pre- and Post-Entry Data to Identify the Effect of Ethanol Expansion on the Spatial Pattern of Corn Prices: A Study in Indiana**
Jinho Jung, Purdue University; *Juan Pablo Sesmero*, Purdue University; *Ralph Siebert*, Purdue University
- M013 Farm Capabilities and Performance in Swedish Agriculture**
Jozefine Nybom, Swedish University of Agricultural Sciences; *Erik Hunter*, Swedish University of Agricultural Sciences; *Eric T. Micheels*, University of Saskatchewan; *Martin Melin*, Swedish University of Agricultural Sciences
- M014 Pure-bred Nellore Prices in Brazil: Morphological, Genetic, Physical, and Market Factors in Auctions**
Yuri Clements Daglia Calil, Texas A&M University; *Luis A. Ribera*, Texas A&M University; *David P. Anderson*, Texas A&M University; *William Koury Filho*, BrazilcomZ
- M015 How Much Does Oversupply Weaken Cheese Prices?**
Hernan A. Tejada, University of Idaho; *Man-Keun Kim*, Utah State University
- M016 Road Infrastructure and Poverty Alleviation: Evidence from Rural China**
Lifen Zhu, Chongqing Technology and Business University; *Songqing Jin*, Michigan State University; *Jikun Huang*, Peking University; *Yongzhong Tian*, College of Geographical Sciences, Southwest University
- M017 Economic Impacts of Disease and Management in U.S. Sweet Cherry Production**
Kuan-Ju Chen, Washington State University; *Marc Evans*, Washington State University; *Kuan-Heng Chen*, Stevens Institute of Technology; **Ashley Railey**, Washington State University
- M018 Investment Decision and Portfolio Diversification by U.S. Dairy Farmers**
Syed Badruddoza, Washington State University; *Modhurima D. Amin*, Washington State University
- M019 Why Did Dairy Farms Exit?**
Jing Yi, Cornell University; *Jennifer E. Ifft*, Cornell University
- M020 The Impacts of the US Interstate Highway on Farmland Values and Agricultural Production: A Market Access Approach**
Wen Li, Cornell University; *Ariel Ortiz-Bobea*, Cornell University; *Jennifer E. Ifft*, Cornell University
- M021 Who Are Hired? The Impact of the Minimum Wage Increase on Job Recruitment by Agri-Business Companies**
So-Jin Kim, Chungbuk National University; *Hyunjung Kim*, Chungbuk National University; *Miseok Kim*, Chungbuk National University; *Soonkeun Park*; *Do-il Yoo*, Chungbuk National University
- M022 In the Face of Market Consolidation – A Case Study of Large Group Veterinary Practices**
Charlotte R. Hansen, American Veterinary Medical Association

Ag Finance and Farm Management - Poster Session

- M023 Bred Heifer Price Determinants**
Christopher M. Boyer, University of Tennessee; *Andrew P. Griffith*, University of Tennessee; *Kevin Laurent*, University of Kentucky; *Jada Thompson*, University of Tennessee
- M024 Risk and Returns to Forage Mixtures in a Beef Grazing System**
Kyle Brazil, University of Tennessee; *Pat Keyser*, University of Tennessee; **Christopher M. Boyer**, University of Tennessee; *Andrew P. Griffith*, University of Tennessee
- M025 Commodity Price Shocks and Rural Mortality**
Amber R. Roberts, University of Minnesota, Twin Cities; *Joleen C. Hadrich*, University of Minnesota; *Marc F. Bellemare*, University of Minnesota
- M026 Adoption Intensity of Climate Smart Agriculture Technologies in Uganda: A Semiparametric Analysis**
Sarah Kagoya, Louisiana State University; *Dependra Bhatta*, Louisiana State University; **Krishna P. Paudel**, Louisiana State University; *Kai Liu*, South China Agricultural University
- M027 Land Values and Farm Debt Accumulation: A Dynamic Model**
Ana Claudia Sant'Anna, The Ohio State University; *Mario J. Miranda*, The Ohio State University; *Ani Katchova*, The Ohio State University

Posters

- M028 Rural Financial Development, Spatial Spillover and Poverty Reduction: Evidence from China**
Xiaoke Zhu, Beijing Institute of Technology; *Jinyang Cai*, Beijing Institute of Technology; *Ruifa Hu*, Beijing Institute of Technology
- M029 Test or Treat? Understanding Demand for Antibiotics in Dairying**
Yanan Jia, Michigan State University; *David A. Hennessy*, Michigan State University; *Hongli Feng*, Michigan State University
- M030 Dynamic Decisions in Agricultural Disease Control: The Case of Tomato Disease Management**
Sheng Li, University of Florida; *Zhengfei Guan*, University of Florida; *Feng Wu*, University of Florida
- M031 The Effect of Electricity Fluctuations on Firm Investment Decisions: Evidence from Nigeria**
Samantha Padilla, Michigan State University; *Saweda Liverpool-Tasie*, Michigan State University; *Robert J. Myers*, Michigan State University
- M032 Ethanol Production and Agricultural Freight Markets**
Heidi Schweizer, North Carolina State University
- M033 Impact of Selected Financial Measures on the Debt Repayment Ability of Illinois Grain Farms**
Samuel A. Johnson, Illinois State University; *Iuliia Tetteh*, Illinois State University; *Marina Ptukhina*, Whitman College
- M034 Farmers Willingness to Pay for Smallholder Water Lifting Technologies: Evidence from Ethiopia**
Meneyahel Z. Tesfaye, University of Rome Tor Vergata; *Jean Claude Bizimana*, Texas A&M University; *Teferi Daba*, Arba Minch University; *Bedru Balana*, International Water Management Institute; *Gebreaweria Gebregziabher*, International Water Management Institute

Behavioral & Institutional Economics - Poster Session

- M035 When You Can't Tube... Increase in Rapes after a Major YouTube Outage**
M. Amelia Gibbons, University of Wisconsin-Madison; *Martin Rossi*, Universidad de San Andres
- M036 Determinants of Consumer Attitudes toward Fuel Ethanol in the State of Nebraska**
Ye Su, University of Nebraska at Kearney; *Frank Tenkorang*, University of Nebraska at Kearney; *Fletcher Ziwoya*, University of Nebraska at Kearney
- M037 Explore Generational Differences of Food-Related Lifestyle in the U.S.**
Lijun Chen, University of Florida; *Lisa A. House*, University of Florida; *Yan Heng*, University of Florida
- M038 Equilibria and Welfare in Markets with Social Preferences**
Jill Ann Fitzsimmons, University of Massachusetts, Amherst; *Nathalie Lavoie*, University of Massachusetts, Amherst; *Daniel A. Lass*, University of Massachusetts, Amherst
- M039 Wine Tasting: Consumer Preferences for Wine, Choice, and Sensory Information**
Nadeeka D K Weerasekara, Oregon State University; *Nadia A. Streletskaya*, Oregon State University; *Jie Li*, Cornell University
- M040 Spatial Economic Analysis of Parental Immunization Hesitancy in Rural Montana**
Stephen Frimpong, University of Wyoming; *Chen Xu*, University of Wyoming; *Mariah D. Ehmke*, University of Wyoming

Demand and Price Analysis - Poster Session

- T001 Modeling Spatial Price Parity Using High-Ordered Models of Dependence**
Shu Meng, North Carolina State University; *Barry K. Goodwin*, North Carolina State University
- T002 Demand Interrelationships and Socio-economic Factors Associated with the Purchase of Various Dairy Products in the United States**
Long Gao, Texas A&M University; *Oral Capps Jr.*, Texas A&M University; *Senarath Dharmasena*, Texas A&M University
- T003 Household Demand Analysis of 100% Grass-fed Milk**
Ariun Ishdorj, Texas A&M University; *Juwon Jang*, Texas A&M University

Posters

- T004 Do the Poor Pay More for Food? Evidence from Tanzania**
Christine M. Sauer, Michigan State University; *Thomas A. Reardon*, Michigan State University; *David L. Tschirley*, Michigan State University; *Betty Waized*, Sokoine University of Agriculture; *Roselyne Alphonse*, Norwegian University of Life Sciences; *Daniel Ndyetabula*, Sokoine University of Agriculture
- T005 Predicting Caloric Consumption at Mid-Century: Implications for Sustainability**
Anton C. Yang, Purdue University; *Christophe Gouel*, Institut National de la Recherche Agronomique; *Thomas W. Hertel*, Purdue University
- T006 Food Security in Niger in 2050: What Role Does Climate Change, Agricultural Productivity, and Population Play?**
Kayenat Kabir, Purdue University; *Thomas W. Hertel*, Purdue University; *Uris Lantz C. Baldos*, Purdue University
- T007 Advertising on Market Structure: Evidence from the U.S. Retail Beer**
Ezgi Cengiz, University of Massachusetts, Amherst
- T008 Spillover Effects and Conditional Dependence between Soybean and Soybean Oil Markets**
Yao Yang, University of Georgia; *Berna Karali*, University of Georgia
- T009 Effects of Urbanization on Subsistence Consumption In China**
Vardges Hovhannisyann, University of Wyoming
- T010 Impacts of Import Penetration on Price Relationships: An Empirical Analysis of the U.S. Catfish Market**
Madan M. Dey, Texas State University; *Prasanna Surathkal*, Texas State University
- T011 Are People Willing to Pay for Improving the Food Environment? Evidence from a Spatial Hedonic Analysis of Residential Property Values**
Meng Yang, Wuhan University; *Feng Qiu*, University of Alberta
- T012 Market Integration in 'Failed' States: A Case of Cereal Grains in Somalia**
Justin V. Hastings, University of Sydney; *Sarah Phillips*, University of Sydney; *David Ubilava*, University of Sydney; *Andrey Vasnev*, University of Sydney
- T013 Estimating Price Elasticities in the U.S. Beef Cattle Industry Considering Life Cycle of Cattle and Price Volatility**
Sei Jeong, University of Georgia
- T014 Can Sliding Scale Pricing Tip the Balance Towards Healthy, Accessible, and Fresh Groceries for All? Evidence from Guelph, Ontario.**
Laura Stortz, University of Guelph
- T015 Informed Trading and the O/F Ratio**
Selina Han, University of Illinois at Urbana-Champaign; *Mindy L. Mallory*, University of Illinois at Urbana-Champaign; *Michel A. Robe*, University of Illinois at Urbana-Champaign
- T016 Forecasting CBOT Corn Futures Price with Dynamic Model Averaging: The Roles of Fundamentals, Financial Markets, and Economics Environment**
Tao Xiong, Huazhong Agricultural University
- T017 Are China's Agricultural Commodity Prices Affected by Global Energy Shocks? Copula-based Extreme Market Dependence Analysis**
Qingmeng Tong, Huazhong Agricultural University; *Feng Qiu*, University of Alberta; *Junbiao Zhang*, Huazhong Agricultural University

Environmental and Nonmarket Valuation - Poster Session

- M041 Harmful Algal Blooms Joint Impact on Property Values and Market Duration: Evidence from the Chesapeake Bay**
David Wolf, University of Wisconsin, Eau Claire; *Nicholas Irwin*, University of Nevada-Las Vegas
- M042 Value Estimates for Natural Springs in Florida: A Joint Estimation of Revealed and Stated Preference Data**
Qianyan Wu, University of Florida; *Xiang Bi*, University of Florida
- M043 Impact of Endogenous Consequentiality on Contingent Valuation: Comparison between Voluntary Donation and Referendum**
Xiang Bi, University of Florida; *John C. Whitehead*, Appalachian State University

Posters

- M045** **The Effect of Groundwater Salinity on Irrigated Land Values in Kansas**
Juhee Lee, Kansas State University; *Nathan P. Hendricks*, Kansas State University
- M046** **Flexible Buffer Systems: Enhancing Ecosystem Services and Expanding Agricultural Options in Riparian Areas**
Xiaogu Li, The Pennsylvania State University; *Katherine Y. Zipp*, The Pennsylvania State University; *James S. Shortle*, The Pennsylvania State University; *Heather E. Gall*, The Pennsylvania State University; *Fei Jiang*, The Pennsylvania State University
- M047** **Recycling Water Sacht Plastic Wastes in Nigeria: Is There a Difference between What People Say and Do?**
Ekene S. Aguegboh, Michigan State University; *Mywish K. Maredia*, Michigan State University; *Vincenzina Caputo*, Michigan State University
- M048** **Impact of Climate Change and Extreme Weather Events on Crop Pests and Diseases Using Spatial Econometric Approach**
Taeyoung Kim, Gyeongsang National University; *Minhui Son*, Gyeongsang National University; *Ho Young Rho*, Gyeongsang National University
- M049** **The Effects of Wind Turbines on Agricultural Land Values**
Gabriel Sampson, Kansas State University; *Edward Perry*, Kansas State University; *Mykel R. Taylor*, Kansas State University
- M050** **Quantifying Damages and Disutilities of Air Pollution in China: Spatial and Temporal Variations**
Shanxia Sun, Shanghai University; *Seong Do Yun*, Mississippi State University; *Ling Huang*, Shanghai University
- M051** **Compensating Differentials of Rents, Wages and Agricultural Returns: The Quality-of-Life among Indonesian Regencies and Cities**
Wei Chen, The Ohio State University; *Allen Klaiber*, The Ohio State University; *Daniela A. Miteva*, The Ohio State University

Experimental Economics - Poster Session

- T018** **Explaining Consumer Preference for Product Labels Using Visual Attention Data**
Xuan Wei, University of Florida; *Hayk Khachatryan*, University of Florida; *Alicia Rihn*, University of Florida
- T019** **Does Stakeholder Engagement Improve Groundwater Management? A Lab Experiment Analysis**
Felipe De Figueiredo Silva, University of California, Berkeley; *Richard K. Perrin*, University of Nebraska-Lincoln; *Lilyan E. Fulginiti*, University of Nebraska-Lincoln
- T020** **Scarcity, Consumption, and Satiation: Results from a Controlled Experiment**
Janani Rajbhandari Thapa, University of Georgia; *Julio Sevilla*, University of Georgia; *Rodolfo M. Nayga*, University of Arkansas
- T021** **Does the Modified Nutrition Facts Panel Improve Consumers' Understanding?**
Elizabeth J. Kim, University of Illinois at Urbana-Champaign; *Brenna Ellison*, University of Illinois at Urbana-Champaign
- T022** **Is Animal Welfare Enhancing a Hornless World? Consumer's Valuation for Milk from Gene-Edited Cows**
Valerie Kilders, Michigan State University; *Vincenzina Caputo*, Michigan State University
- T023** **Effect of Altruism and Selfishness on the Valuation of Coffee Credence Quality Attributes**
Katherine Ramirez - Fuller, Arizona State University; *Carola Grebitus*, Arizona State University

Food and Agricultural Marketing - Poster Session

- M052** **Analysis of Healthy and Convenient Food: The Example of Meal Kit Delivery Services**
Sungeun Yoon, University of Florida; *Zhifeng Gao*, University of Florida; *Lisa A. House*, University of Florida
- M053** **Product Innovation in Beverage Market and the Demand for "Better for You" Drinks**
Xuan Chen, The Pennsylvania State University; *Yizao Liu*, The Pennsylvania State University; *Pei Zhou*, The Pennsylvania State University
- M054** **A Topic Mining Approach to Understand What Matters to Online Grocery Consumers: The Case of Coconut Oil**
Yan Heng, University of Florida; *Junhong Chen*, University of Florida; *Zhifeng Gao*, University of Florida

Posters

- M055 Consumer Preferences for Environmental Attributes in Disposable Dinnerware**
Mackenzie Gill, University of Tennessee; Kimberly L. Jensen, University of Tennessee; Sreedhar Upendram, University of Tennessee; Burton C. English, University of Tennessee; Niki Labbe, University of Tennessee; Dayton M. Lambert, Oklahoma State University; Sam Jackson, Genera Energy
- M056 The Influence of Information on Consumers' Intention to Reduce Food Waste in Three European Countries**
Christina Maria Neubig, Technical University of Munich; Margot Van Cauter, KU Leuven; Simona Grasso, University of Reading; Sophie Hieke, EUFIC; Sandra Knoepfle, Technical University of Munich; Anna Macready, University of Reading; Natalie Masento, University of Reading; Camilla Massri, EUFIC; Esereosa Omoarukhe, University of Reading; Jutta Roosen, Technical University of Munich; Liesbet Vranken, Katholieke Universiteit Leuven
- M057 Effects of Self-Informed Knowledge of GM Foods and Preference of Organic Foods on the Willingness to Pay for Non-GM Foods: Focusing on the Case of Cooking Oil**
Heesun Lim, Korea University; Kyungsoo Nam, Korea University; Byeong-il Ahn, Korea University
- M058 Fraud on the Tip of the Tongue: Online Review Manipulations in the Restaurant Industry**
Guang Tian, University of Idaho; Liang Lu, University of Idaho; Jason Winfree, University of Idaho
- M059 Rural Development, Market Linkages and the Dairy Supply Chains in Colombia**
Carolina Vargas, Michigan State University; Thomas A. Reardon, Michigan State University
- M060 How do Farmers Choose Whom to Sell? Evidence from the Zambian Maize Market**
Aakanksha Melkani, Michigan State University; Nicole M. Mason, Michigan State University; Brian Chisanga, Indaba Agricultural Policy Research Institute
- M061 Economics of Mandatory Cannabis Testing Regulations: Impact on Marginal Costs in California**
Pablo Valdes-Donoso, University of California Agricultural Issues Center; **Daniel A. Sumner**, University of California, Davis; Robin Goldstein, University of California, Davis
- M062 Investigating the Drivers of Farm Diversification among U.S. Fruit and Vegetable Operations**
Nicholas Lancaster, Purdue University; Ariana Torres, Purdue University
- M063 What Criteria Supermarket Chains in India use to Select Vegetable Suppliers?**
Vishnu Shankarrao Kedar Sr., Institute for Social and Economic Change

Food and Agricultural Policy Analysis - Poster Session

- T024 Effects of Regulation of Farm Practices when Market Segregation is Significant: State Requirements of Gestation Stalls for Sows**
Hanbin Lee, University of California, Davis
- T025 Analyzing Voting Outcomes in Recent Animal Welfare and GM Food Labeling Ballot Initiatives**
Emma D. Rice, Michigan State University; Melissa G. S. McKendree, Michigan State University; Glynn T. Tonsor, Kansas State University
- T026 The Effects of the National Agricultural Input Voucher Scheme (NAIVS) on Sustainable Intensification of Maize Production in Tanzania**
Jongwoo Kim, Michigan State University; Nicole M. Mason, Michigan State University; David Mather, Michigan State University
- T027 Impact of Crop Insurance Premium Subsidy Rates on Unit and Coverage Level Choices**
Ashley E. Hungerford, USDA-Office of the Chief Economist; Joseph C. Cooper, USDA-Economic Research Service; Robert C. Johansson, USDA-Office of the Chief Economist; Thomas W. Worth, USDA-Risk Management Agency
- T028 Assessing the Co-Benefits of the Renewable Fuel Standard: Integrated Ecosystem-Economic Modeling Framework**
Sarah Acquah, University of Illinois at Urbana-Champaign; Kelsie Ferin, Iowa State University; Andy VanLooche, Iowa State University; Madhu Khanna, University of Illinois at Urbana-Champaign
- T029 Food Waste and the Consistent Estimation of Consumer Demand**
Yang Yu, The Pennsylvania State University; Edward C. Jaenicke, The Pennsylvania State University

Posters

- T030 Food Fraud and Import Refusals: Assessing China's Agri-Food Imports at the Firm Level**
Chaoping Xie, Nanjing Agricultural University; Xiaojuan Wang, Central University of Finance and Economics; Jason Grant, Virginia Tech; Yanyu Long, Central University of Finance and Economics; Yifang Liu, Central University of Finance and Economics
- T031 Does Food Insecurity Worsen due to Smoking?**
Mohit Anand, Miles College; Patricia A. Duffy, Auburn University
- T032 Winning Ugly: The Potential for Converting Ugly Food to a Horizontally Differentiated Product**
Danyi Qi, Louisiana State University; Jerrod Penn, Louisiana State University; Ran Li, Louisiana State University; Brian E. Roe, The Ohio State University
- T033 An Agent-Based Model of Insect Resistance Management and Mitigation for Bt Maize: A Social Science Perspective**
Yuji Saikai, University of Wisconsin-Madison; Paul D. Mitchell, University of Wisconsin-Madison
- T034 The Economic Value of Organic Labeling in the Fluid Milk Market**
Youngjune Kim, Kansas State University; Edward Perry, Kansas State University; Dustin L. Pendell, Kansas State University
- T035 Understanding the Factors that Drive Scaling of Agricultural Interventions: Evidence from Rural Ghana**
Prince Maxwell Etwire, CSIR-Savanna Agricultural Research Institute
- T036 Determining "Ag-Gag" Laws Effect on Business Investment in Kansas, Montana, and North Dakota through the Synthetic Control Approach**
Anastasia M. Gamble, University of Georgia; Levi Russell, Ottawa University
- T037 Estimating Slippage in the Conservation Reserve Program**
Meongsu Lee, University of Missouri; Patrick Westhoff, University of Missouri
- T038 Effects of Californian Battery-Cage Ban on Consumer Welfare and Market Equilibrium**
Sohae Oh, North Carolina State University; Xiaoyong Zheng, North Carolina State University; Tomislav Vukina, North Carolina State University
- T039 Assessing Local Vulnerability to Climate Change in Irrigated Mexican Agriculture**
Miriam Juarez-Torres, Banco de Mexico; Santiago Guerrero, Dirección Nacional de Medio Ambiente, Uruguay; Leonardo F. Sánchez-Aragón, Escuela Superior Politecnica del Litoral
- T040 Fill-in Purchase Decisions of SNAP/WIC Households**
Adam N. Rabinowitz, University of Georgia; Yizao Liu, The Pennsylvania State University; Grace Melo, Pontificia Universidad Católica de Chile; Shelly Ver Ploeg, USDA-Economic Research Service
- T041 Consumer Willingness-to-Pay for Foods with Labels Proposed by USDA's Agricultural Marketing Service to Meet the National Bioengineered Food Disclosure Standard**
Jonathan McFadden, USDA-Economic Research Service
- T042 How Should Government Spend its Budgetary Resources for Agricultural Development?**
Mywish K. Maredia, Michigan State University; Nicole M. Mason, Michigan State University; Robert S. Shupp, Michigan State University; Vincenzina Caputo, Michigan State University
- T043 Characterizing the Impact of Beginning Farmer Entry on Local Farm Systems**
William McClain, Purdue University; Brandon Weiland, Purdue University
- T044 Does Higher Planting Density Increase the Drought Sensitivity and Yield Risk of Genetically Modified Corn Seed?**
Serkan Aglasan, North Carolina State University; Roderick M. Rejesus, North Carolina State University; Zachary S. Brown, North Carolina State University
- T045 SPS Measures and the Hazard Rate of Chinese Agricultural Exports**
Xin Ning, Virginia Tech; Jason Grant, Virginia Tech
- T046 The Effects of Unemployment on Food Security Status**
Akash Issar, University of Georgia; Travis A. Smith, University of Georgia

Posters

- T047** **Income Growth, Urbanization and Food Demand in China: Prediction Based on a Meta-Regression Analysis Approach**
Shixian Zhai, China Agricultural University; Qiubo Zhu, China Agricultural University; Lei Li, China Agricultural University; Junfei Bai, China Agricultural University

Food Safety and Nutrition - Poster Session

- M064** **Can Market Power Encourage Food Processors to Improve Food Safety Management?**
Tian Xia, Kansas State University; Xianghong Li, Kansas State University
- M065** **Product Recalls and Firm Learning: Evidence from the Food Industry**
Sherzod B. Akhundjanov, Utah State University; Veronica F. Pozo, Utah State University; Briana Thomas, Utah State University
- M066** **Are Home or Community Gardeners Willing to Pay More for Organic and Local?**
Lijia Shi, University of Florida; **Zhifeng Gao**, University of Florida; Yuning Zhao, University of Florida; Junhong Chen, University of Florida
- M067** **Milk Choice: Does Choosing Chocolate Milk Negatively Impact the Nutritional Content of a School Lunch?**
Janet G. Peckham, U.S. Food and Drug Administration; **Jaclyn D. Kropp**, University of Florida; Thomas Mroz, University of Georgia; Vivian Haley-Zitlin, Clemson University; Ellen M. Granberg, Clemson University
- M068** **A Multi-Country Study of the Willingness-to-Consume Alternative (RNAi, CRISPR and Cisgenic) Genetically Modified Food**
Alfred B. Narh, University of Arkansas; Lawton L. Nalley, University of Arkansas; Heather Price, University of Arkansas; Aaron M. Shew, Arkansas State University; Rodolfo M. Nayga, University of Arkansas
- M069** **Information Influence on Consumers' Choice for Genetically Modified Foods: A Non-Hypothetical Choice Experiment in China**
Holly Wang, Purdue University; **Jing Yang**, Zhejiang University; Qiujie Zheng, University of Alaska Anchorage; Yu Jiang, Zhejiang University
- M070** **Access to Water Estates and Food Security Outcome: Evidence from Coastal Bangladesh**
Samiul Haque, North South University; Rushde Akbar, North South University
- M071** **Household Nutrient Elasticities of Food Consumption and Policy Implications for Bangladesh**
Md Zabid Iqbal, Bangladesh Institute of Development Studies
- M072** **Food Choices as an Occupation Hazard: Food Choice and Purchase Behavior among Long-Haul Truck Drivers**
Walter O. Moturi, University of Georgia; **Wojciech J. Florkowski**, University of Georgia

Household and Labor Economics - Poster Session

- T048** **Have We Made Progress in Measuring Bargaining Power?**
Bradford L. Barham, University of Wisconsin-Madison; **Matthew J. Klein**, University of Wisconsin-Madison; Yuexuan Wu, University of Wisconsin - Madison
- T049** **The Effects of Precipitation Shocks on Rural Labor Markets and Migration**
Mohammad Hadi Mostafavi-Dehzoeei, Bloomsburg University; **Ghadir Asadi**, Virginia Tech
- T050** **Road Investment and Farmers' Non-farm Employment: Evidence from Rural China**
Lifen Zhu, Chongqing Technology and Business University; Songqing Jin, Michigan State University; Jikun Huang, Peking University; Yongzhong Tian, College of Geographical Sciences, Southwest University
- T051** **Height and Earnings: A Mendelian Randomization Analysis from China**
Qihui Chen, China Agricultural University; Chen Zhu, China Agricultural University; Jun Wang, Renmin University of China; Guoshu Kong, Renmin University of China
- T052** **Market Participation and Temporary Migration among Peruvian Small Farmers**
Vania B. Salas Garcia, Universidad de Piura; Qin Fan, California State University, Fresno

Posters

- T053 Labor Market Impacts and Responses: The Economic Consequences of a Marine Environmental Disaster**
Trung Hoang, Vietnam Academy of Social Sciences; Duong Le, Binghamton University - SUNY; Ha Nguyen, The World Bank; Nguyen Vuong, University of Wisconsin-Madison
- T054 Gender Differences, Social Isolation and Rural Migrants' Cigarette Smoking**
Zhongyuan Liu, University of Georgia; Wojciech J. Florkowski, University of Georgia; Huiguang Chen, Nanjing Agricultural University
- T055 Effects of Health insurance on income distribution in China**
Yu Sun, China Center for Health Economic Research; Gordon G. Liu, PKU National School of Development; Wen You, Virginia Tech; Meijiao Wang, China Center for Health Economic Research
- T056 Creative Destruction, Job Reallocation, and Subjective Well-Being**
Mona Ahmadiani, Wake Forest University; Adam S. Hyde, Wake Forest University; Jeremy Jackson, North Dakota State University
- T057 Abstract: How Do Intra-Rural Migrants in Uganda Attain Welfare Gains? Evidence from a Panel Survey**
Kayenat Kabir, Purdue University
- T058 A Meta-Analysis of Off-farm Labor Supply Functions of Farm Households**
Rakhe P. Balachandran, Louisiana State University; Jerrod Penn, Louisiana State University; Maria Bampasidou, Louisiana State University
- T059 The Impact of Gender Imbalance on Women's Education and Migratory Decisions: Evidence from Mexico**
Itzel De Haro Lopez, University of Wisconsin-Madison
- T060 Nonfarm Work and Food Security among Farming Households in Nigeria**
Olumide Aborisade, Texas Tech University; Carlos E. Carpio, Texas Tech University
- T061 Labor Market Dynamics for PhD Economists and Agricultural Economists**
Andrew Hanks, The Ohio State University; Kevin Kniffin, Cornell University

Industrial Org./Supply Chain Management - Poster Session

- M073 Corporate Social Responsibility and Product Differentiation under Mixed Competition**
Modhurima D. Amin, Washington State University; Syed Badruddoza, Washington State University; Robert Rosenman, Washington State University
- M074 Modeling Hysteresis in Agri-Food Sectors: An Application to the Dairy Sector of a French Region**
Lionel Cosnard, University of Bordeaux
- M075 Pass-Through of the E85 Subsidy to Retail Prices: Insights from Hotelling's Model**
Jinjing Luo, Iowa State University; GianCarlo Moschini, Iowa State University
- M076 Hub Location in the U.S. Fresh Produce Supply Chain - A Computational Optimization Model**
Houtian Ge, Cornell University; Patrick N. Canning, USDA-Economic Research Service; Jie Li, Cornell University
- M077 Market Power and Spatial Price Discrimination in Agricultural Procurement Markets: Evidence from the Corn Market in Indiana**
Jinho Jung, Purdue University; Juan Pablo Sesmero, Purdue University; Ralph Siebert, Purdue University

International Development - Poster Session

- M078 Constructing Rigorous Relative Price Indices of Agricultural Land in the Developed and Developing World**
Richard F. Nehring, USDA-Economic Research Service; Wendong Zhang, Iowa State University; Nilabja Ghosh, Institute of Economic Growth; Matt Liebman, Iowa State Agronomy Department; Yu Sheng, Peking University
- M079 Effectiveness of Scaling up Bio-fortified Crops: Evidence from a Field Experiment in Rwanda**
Mywish K. Maredia, Michigan State University; Maria Porter, Michigan State University; Songqing Jin, Michigan State University; Jarrad G. Farris, Michigan State University

Posters

- M080** **The Impacts of a Severe Natural Disaster on the Agricultural Sector: A Case Study of the 2008 Wenchuan Earthquake**
Ming-Jou Tsai, University of Tennessee; Tun-Hsiang Yu, University of Tennessee; Christopher M. Boyer, University of Tennessee; Rachel JC Chen, University of Tennessee
- M081** **Seasonal Patterns of Energy Expenditure in Agricultural and Rural Livelihoods in Low-Income Countries**
Giacomo Zanello, University of Reading; Chittur S. Srinivasan, University of Reading; Fiorella Picchioni, University of Reading; Patrick Webb, Tufts University
- M082** **Agriculture Productivity in North Africa: Terms of Trade, Innovations or Factor Endowments?**
Ahmed Chennak, University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln
- M083** **Mobile Money Adoption and Information Gaps: Evaluating the Impact of Video Advertisement**
Oscar Barriga-Cabanillas, University of California, Davis
- M084** **Farm Households' Coping Mechanisms from Shocks: An Empirical Measurement of Resilience in Malawi**
Weldensie T. Embaye, Kansas State University; Yacob A. Zereyesus, Kansas State University; Lawrence Mapemba, Lilongwe University of Agriculture and Natural Resources; Jean Claude Bizimana, Texas A&M University
- M085** **Gender Differences in Land Ownership and Managerial Rights: Implications for Intrahousehold Farm Labor Allocation in Ethiopia and Malawi**
Munsu Kang, Kansas State University; Benjamin Schwab, Kansas State University; Jisang Yu, Kansas State University
- M086** **Extension Visits and Farmers' Visit to Extension Agents: What Matters More for the Adoption of Water Harvesting Techniques in Malawi?**
Festus O. Amadu, University of Illinois at Urbana-Champaign; Paul E. McNamara, University of Illinois at Urbana-Champaign
- M087** **Warehouse Receipt Financing for Smallholders in Developing Countries: Short on Logic, Long on Imagination**
Mario J. Miranda, The Ohio State University; Francis M. Mulangu, Millennium Challenge Corporation; Francis H. Kemeze, University of Ghana
- M088** **Impact of Remittances on Household Consumption in Nepal**
Khushbu Mishra, Stetson University; Olga Kondratjeva, Washington University in St. Louis

International Trade - Poster Session

- M089** **Heterogeneous Border Enforcement of EU Food Safety Regulations**
Kjersti Nes, University of California, Davis; K. Aleks Schaefer, Royal Veterinary College, University of London
- M090** **The Role of Institutional Quality on the Performance in the Export of Coconut Products**
Jessie Lin, University of Göttingen
- M091** **Can U.S. Import Regulations Reduce IUU Fishing and Improve Production Practices in Aquaculture?**
Yingkai Fang, University of Florida; Frank Asche, University of Florida
- M092** **The Impact of Banana Tariff Reduction from the Economic Cooperation with ASEAN on Fruits Demand in Korea: Considering the Substitutable Fruits Basket**
Hanpil Moon, Korea Rural Economic Institute; Jun Ho Seok, Korea Rural Economic Institute; Jung Won Youm, Korea Rural Economic Institute
- M093** **A General Equilibrium Model of Bilateral Trade with Strategic Public Investment in Commercial Infrastructure**
Meng-Fen Yen, CERTA, National Taiwan University; Mario J. Miranda, The Ohio State University
- M094** **Examining the Spillover Effects of Ethanol Prices on the Import Demand for Corn**
Dong Hee Suh, Korea University
- M095** **Widespread Economic and Environmental Implications of a Ban on Palm Oil**
Farzad Taheripour, Purdue University; Thomas W. Hertel, Purdue University; Navin Ramankutty, University of British Columbia
- M096** **Do Exports Drive Chinese Overseas Investment in Agriculture?**
Yue Hu, Iowa State University; Minghao Li, Iowa State University; Wendong Zhang, Iowa State University

Posters

- M097 Seasonal Price Transmission between U.S. and Brazil Soybean Prices Using the Seasonal Regime-Dependent VECM**
Byung Min Soon, University of Missouri; Jarrett Whistance, University of Missouri
- M098 Effects of Formula Feed Standard Changes and Tariffs on Soybeans for Chinese Hog Production**
Abigail J. Meffert, Food and Agricultural Policy Research Institute; Patrick Westhoff, University of Missouri; Wyatt Thompson, University of Missouri
- M099 Calculation of Gains from Sino-U.S. Agricultural Trade and Analysis on the Impact of Trade Friction**
Hui Ren, University of Washington; Hai Lin, China Agricultural University
- M100 Towards a More Efficient Tariff Rate Quota Regime: Evidence from Chinese Firm-Level Grain Imports**
Chaoping Xie, Nanjing Agricultural University; Jason Grant, Virginia Tech; Jing Zhu, Nanjing Agricultural University
- M101 Climate Change, Trade Liberalization, and Civil Strife in Developing Countries**
Sahar Yousef, The Ohio State University

Natural Resource Economics - Poster Session

- T062 Crop Insurance and Groundwater Extraction: Evidence from the Ogallala**
Matthew R. Sloggy, Colorado State University; Dale Manning, Colorado State University; Christopher Goemans, Colorado State University; Roger L. Claassen, USDA-Economic Research Service
- T063 Effects of Crop Insurance on Irrigation Water Use in the United States**
Prasenjit N. Ghosh, Auburn University; Ruiqing Miao, Auburn University; Emir Malikov, Auburn University
- T064 Estimating Water Withdrawal Response to Environmental Stresses**
Iman Haqiqi, Purdue University; Thomas W. Hertel, Purdue University
- T065 Technical Efficiency of Coffee Production in the Colombian Coffee Cultural Landscape: The Role of Payments for Environmental Services**
Orlando Rodriguez, Technical University of Munich
- T066 Entry, Competition and Price Dynamics in Retail Gasoline Markets**
Armando Rangel Colina, University of California, Davis
- T067 Water Management Practices: Use Patterns and Influencing Factors**
Yefan Nian, University of Florida; Qiuqiong Huang, University of Arkansas; Kent Kovacs, University of Arkansas; Christopher Henry, University of Arkansas; Jason Kurtz, Mississippi State University
- T068 Global Drivers of Land and Water Sustainability Stresses at Mid-Century**
Iman Haqiqi, Purdue University; Laura C. Bowling, Purdue University; Sadia Jame, Purdue University; Thomas W. Hertel, Purdue University; Uris Lantz C. Baldos, Purdue University; Jing Liu, Purdue University
- T069 What Dimension of Women Empowerment in Agriculture Matter for Adoption of Climate Smart Agricultural Practices in Southern Nigeria**
Maria Gbemisola Ogunnaike, Federal University of Agriculture; Adebayo M. Shittu, Federal University of Agriculture, Abeokuta; Abiodun E. Obayelu, Federal University of Agriculture, Abeokuta; Comfort I. Sodiya, Federal University of Agriculture Abeokuta, Ogun State Nigeria
- T070 Ownership Structure, Fairness and the Future of Wind Energy Development in Canada – A Survey-Experimental Study**
Monique C. Holowach, University of Alberta; John Parkins, University of Alberta; Sven M. Anders, University of Alberta; Juergen Meyerhoff, TU Berlin
- T071 Socioeconomic and Biophysical Drivers of Cropland Use Intensification in India: Analysis using Satellite Data and Administrative Surveys**
Gaurav Arora, Indraprastha Institute of Information Technology; Tushita Rathore, Indraprastha Institute of Information Technology; Gargi Gupta, Indraprastha Institute of Information Technology; Saket Anand, IIT Delhi
- T072 Distorting Permit Markets to Reduce Welfare Losses from Sub-Optimal Caps**
Richard Horan, Michigan State University; Carson Reeling, Purdue University; James S. Shortle, The Pennsylvania State University

Posters

- T073** **Ground Water Extraction Behavior When Agents are Heterogeneously Located in an Aquifer with Flow Dynamics: A Theoretical and Experimental Approach**
Steven Wilhelms, Mississippi State University; Kalya T. Coatney, Mississippi State University; Seong Do Yun, Mississippi State University; Anita M. Chaudhry, California State University, Chico; James N. Barnes III, Mississippi State University
- T074** **Capitalized Values of Land Subsidence - A Matching Estimator Approach**
James Yoo, California Baptist University
- T075** **The Effect of Land Use Restrictions Protecting Endangered Species on Agricultural Land Values**
Richard T. Melstrom, Loyola University Chicago
- T076** **Property Rights and Groundwater Management: A Dynamic Structural Model of the Dual Rights System in California**
Louis S. Sears, Cornell University; C.-Y. Cynthia Lin Lawell, Cornell University
- T077** **Modeling North Dakota Farmers' Historical Acreage Allocation Decisions for Five Major Crops: A Spatially-weighted Seemingly Unrelated Tobit Regression Approach**
Nazea H. Khan Chowdhury, North Dakota State University; David C. Roberts, North Dakota State University
- T078** **The Effect of Technology Reliability on Adoption and Use: Evidence from Off-Grid Electricity in Rwanda**
Salvador Lurbe, Colorado State University; Dale Manning, Colorado State University; Jesse Burkhardt, Colorado State University
- T079** **The Potential for Moral Hazard Behavior in Irrigation Decisions under Crop Insurance**
Paloch Suchato, University of Nebraska-Lincoln; Taro Mieno, University of Nebraska-Lincoln; Karina Schoengold, University of Nebraska-Lincoln; Timothy Foster, University of Manchester
- T080** **Economic Incentives for Achieving Conservation and Renewable Energy Goals with the Conservation Reserve Program**
Luoye Chen, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign; Elena Blanc, University of Illinois at Urbana-Champaign; Tara Hudiburg, University of Idaho; Evan DeLucia, University of Illinois at Urbana-Champaign
- T081** **Short Commitments, Self-Monitoring, and Local Agricultural Agency Administration: Improved BMP Cost-Share Enrollment Rates vs. Long Term Environmental Goals**
Lauriane Yehouenou, University of Florida; Kelly A. Grogan, University of Florida
- T082** **Predicting Crop Yields Using Soil Moisture and Heat: An Extension to Schlenker and Roberts (2009)**
Iman Haqiqi, Purdue University; Danielle S. Grogan, University of New Hampshire; Thomas W. Hertel, Purdue University; Wolfram Schlenker, Columbia University
- T083** **The Use and Usefulness of Irrigation Property Reform for Sustainable Agriculture**
Jing You, Renmin University of China, University of Cambridge; Yi Cui, Renmin University of China; Jiujiu Ma, Renmin University of China

Production Economics - Poster Session

- M102** **Water Efficiency in High-Yield Irrigated Corn Fields in the Western U.S. Corn Belt**
Felipe De Figueiredo Silva, University of California, Berkeley; Lilyan E. Fulginiti, University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln
- M103** **Duality Theory in Empirical Work: Evaluating the Performance of an Alternative Method**
Juan F. Rosas, Universidad ORT Uruguay; Sergio H. Lence, Iowa State University
- M104** **Profit-Maximizing Nitrogen Rates for Corn Production and Tillage Systems Using Random Parameter Response Functions**
Alexis H. Villacis Aveiga, Virginia Tech; Jeffrey Alwang, Virginia Tech; Jorge Delgado, USDA Agricultural Research Service
- M105** **Local Cropland Transitions from Ethanol Market Expansions**
Nicholas J. Pates, University of Kentucky; Nathan P. Hendricks, Kansas State University; Tyler Lark, University of Wisconsin-Madison

Posters

- M106** **Determinants of Technical Efficiency among Small-Scale Coffee Farmers in Rwanda**
Jules Ngango, Chungnam National University; Jungmyung Lee, Kyungpook National University; Seung Gyu Kim, Kyungpook National University
- M107** **The Labor Market Impact of the Citrus Greening Disease in Florida: Evidence from Difference-In-Difference Estimation**
Tianyuan Luo, University of Florida; Zhengfei Guan, University of Florida; Feng Wu, University of Florida
- M108** **How Much is Free Irrigation Water Really Worth?**
Federico J. Trindade, University of Washington; Lilyan E. Fulginiti, University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln
- M109** **Bayesian Optimal Dynamic Sampling Procedure for On-Farm Field Trials**
John N. Ng'ombe, Oklahoma State University; Wade Brorsen, Oklahoma State University
- M110** **Economic Optimality of Income over Feed Cost: An Analysis of Wisconsin Dairy Farms**
Kota Minegishi, University of Minnesota; Simon Jette Nantel, University of Wisconsin-River Falls; Sunghun Lim, University of Minnesota
- M111** **Weather Impacts on Agricultural Production Efficiency: Evidence from Kansas Wheat Farmers**
Bowen Chen, Kansas State University; Elliott J. Dennis, University of Nebraska-Lincoln; Allen M. Featherstone, Kansas State University
- M112** **The Welfare Impact of Mechanization of Sugarcane Production in São Paulo – Brazil**
Pedro Soares, University of São Paulo; Richard K. Perrin, University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln
- M113** **Pesticides Efficiency of French Wheat Producers under a Stochastic Frontier Framework**
K Hervé Dakpo, French National Institute for Agricultural Research; Fabienne Femenia, French National Institute for Agricultural Research
- M114** **Cooperative Membership, Contracts, and Production Efficiency: A Selectivity-Corrected Analysis of Smallholder Farmers**
Aditya R. Khanal, Tennessee State University; Ashok K. Mishra, Arizona State University; Anjani Kumar, International Food Policy Research Institute
- M115** **Farm Efficiency Under Risk: How Does Risk Influence the Efficiency Frontier?**
Jason S. Bergtold, Kansas State University; Elizabeth A. Yeager, Kansas State University; Asha Nalunga, Kansas State University
- M116** **Effects of Smoking on Agricultural Productivity**
Samiul Haque, North South University; Naveen Abedin, International Food Policy Research Institute; Adnan M. S. Fakir, University of Western Australia; Rafe Hannan, Economic Research Group; Rafa Alam, United Hospital
- M117** **Long Term Impacts of Cover Crops on Corn Yield Risk and Implied Changes to Crop Insurance Premiums**
Lawson Connor, Louisiana State University
- M118** **Agricultural Supply: Do Markets Anticipate Weather Shocks?**
Matthieu M. Stigler, University of California, Davis

Productivity Analysis and Emerging Technologies - Poster Session

- T084** **Estimating Yield Gains from GM Maize in South Africa**
Aaron M. Shew, Arkansas State University; Lawton L. Nalley, University of Arkansas; Jesse B. Tack, Kansas State University; Petronella Chaminuka, South African Agricultural Research Council; Zira Mavunganidze, South African Agricultural Research Council
- T085** **The Impact of Foreign Direct Investment on Agricultural Enterprises Productivity in China: Threshold Effect of Absorptive Capacity**
Yan Han, China Agricultural University; Rodney B.W. Smith, University of Minnesota

Posters

- T086** **Agricultural Productivity Adjusted for Environmental Bads in Great Plains: Redux**
Badri Khanal, University of Nebraska-Lincoln; *Lilyan E. Fulginiti*, University of Nebraska-Lincoln; *Richard K. Perrin*, University of Nebraska-Lincoln
- T087** **To Bomb a Vineyard? Developing a Model for Predicting Water Stress in a Vineyard Utilizing Hyperspectral Imagery Collected from a UAV**
Sean P. Hurley, California Polytechnic State University, San Luis Obispo; *Marc Horney*, California Polytechnic State University San Luis Obispo; *Aaron Drake*, California Polytechnic State University San Luis Obispo
- T088** **The Effect of Training and Microcredit on Productive Efficiency: The Case of Haitian Peanut Farmers**
Anthony Baffoe-Bonnie, Alcorn State University; *Genti Kostandini*, University of Georgia
- T089** **Understanding Grazing Intensity Choices on the U.S. Great Plains**
Yuyuan Che, Michigan State University; *Hongli Feng*, Michigan State University; *David A. Hennessy*, Michigan State University; *Tong Wang*, South Dakota State University
- T090** **Farm Heterogeneity and Product Differentiation: Using Farm-level Microdata in Japan**
Yuko Akune, Nihon University; *Nobuhiro Hosoe*, National Graduate Institute for Policy Studies
- T091** **Venture Capital and the Transformation of Private R&D for Agriculture**
Gregory D. Graff, Colorado State University; *Felipe De Figueiredo Silva*, University of California, Berkeley; *David Zilberman*, University of California, Berkeley
- T092** **Women's Access to Improved Seed: Does it Matter for Small- Scale Maize Farms' Productivity in Nigeria**
Opeyemi E. Ayinde, The Ohio State University; *Tahirou Abdoulaye*, International Institute of Tropical Agriculture; *Mario J. Miranda*, The Ohio State University; *Abdoul G. Sam*, The Ohio State University; *Gbadebo Olaoye*, University of Ilorin
- T093** **Application of Biodegradable Mulches in Crop Production: A Life Cycle Assessment**
Kuan-Ju Chen, Washington State University; *Ting Chi*, Washington State University; *Thomas L. Marsh*, Washington State University

Research Methods/Econometrics/Stats - Poster Session

- M119** **The Power Law Distribution of Agricultural Land Size**
Sherzod B. Akhundjanov, Utah State University; *Lauren Chamberlain*, Utah State University
- M120** **Comparing Panel Data Quantile Regression Models with an Application to Price Elasticities of Demand for Sugar-Sweetened Beverages in the U.S.**
Pourya Valizadeh, University of North Carolina, Chapel Hill; *Peter M. Lance*, University of North Carolina at Chapel Hill; *Shu Wen Ng*, UNC-Chapel Hill; *David K. Guilkey*, University of North Carolina at Chapel Hill
- M121** **Optimal Conservation Tradeoffs: Combining Bi-Level Optimization with Genetic Algorithm Methods**
Bradley L. Barnhart, Environmental Protection Agency; *Moriah B. Bostian*, Lewis & Clark College; *Manoj K. Jha*, North Carolina A&T State University; *Lyubov A. Kurkalova*, North Carolina A&T State University
- M122** **Determining the Importance of an Attribute in a Demand System: Structural versus Machine Learning Approach**
Syed Badruddoza, Washington State University; *Modhurima D. Amin*, Washington State University
- M123** **Estimating Crop Yields Using Spatiotemporal Bayesian Kriging with Nonstationary Covariance Functions**
Xun Lu, North Carolina State University; *Barry K. Goodwin*, North Carolina State University; *Sujit K. Ghosh*, North Carolina State University
- M124** **Bayesian Optimization for Precision Agriculture**
Yuji Saikai, University of Wisconsin-Madison; *Paul D. Mitchell*, University of Wisconsin-Madison

Resource and Environmental Policy Analysis - Poster Session

- T094** **Impacts of External Information Sources about Choice of Pesticide Varieties on Pesticide Misuse: Evidence from Rice Farmer's Pests Control Practice in China**
Ruifa Hu, Beijing Institute of Technology; *Shengyang Sun*, Beijing Institute of Technology; *Chao Zhang*, Beijing Institute of Technology

Posters

- T095** **Hurricanes and Local Government Revenue Structure: An Empirical Analysis Using Machine-Learning Techniques**
Jianhong E. Mu, Texas A&M University
- T096** **Evaluating the Impact of the Grassland Ecological Compensation Policy on Grassland Quality in China**
Hou Lingling, China Center for Agricultural Policy, Peking University; **Qihui Chen**, China Agricultural University; *Qisheng Feng*, Lanzhou University
- T097** **Wind Energy and Agricultural Production – Evidence from Farm-Level Data**
Tengjiao Chen, University of Illinois at Urbana-Champaign
- T098** **Do Environmental Attitudes Track Business Cycles? Evidence from the Great Recession**
Susana Ferreira, University of Georgia; **Jackson Newbury**, University of Georgia
- T099** **Lessons from Local Governance and Collective Action Efforts to Manage Irrigation Withdrawals in Kansas**
Gabriela Perez-Quesada, Kansas State University; *Nathan P. Hendricks*, Kansas State University
- T100** **The Effect of Trade on the Environment: Evidence from Meta-analysis**
Sylvanus Kwaku Afesorgbor, University of Guelph; *Binyam A. Demena*, Erasmus University of Rotterdams
- T101** **Decomposing the Wedge: Mechanisms Driving the Gap between Projected and Realized Returns in Energy Efficiency Programs**
Peter Christensen, University of Illinois at Urbana-Champaign; *Paul Francisco*, University of Illinois at Urbana-Champaign; *Erica Myers*, University of Illinois at Urbana-Champaign; **Mateus Nogueira Meirelles De Souza**, University of Illinois at Urbana-Champaign
- T102** **Competing for Long-run Energy Sustainability: Let go of the Small State-Owned Enterprises or Grasp the Large Private Enterprises?**
Chin-Hsien Yu, Southwestern University of Finance and Economics; *Wen-Chieh Lee*, National Chengchi University; *Shinn-Shyr Wang*, National Chengchi University; *Ping Qin*, Renmin University of China
- T103** **Impact of Centralization v. Decentralization on Market Performance: A Theoretical Framework Accounting for Externalities and Imperfect Information**
Aaron J. Staples, Purdue University; **Natalie R Loduca**, Purdue University; *Jacob S. Schmiess*, Purdue University
- T104** **The Impact of Bison Reintroduction on the Local Economy**
Liqing LI, University of Illinois at Urbana-Champaign; *Amy W. Ando*, University of Illinois at Urbana-Champaign
- T105** **Economic and Policy Considerations for Large Scale Investments in Natural Climate Solutions to Achieve Climate Stabilization Goals**
Justin S. Baker, RTI International; *Brent Sohngen*, The Ohio State University; *Gregory Latta*, University of Idaho
- T106** **Is the Low Carbon Agriculture Credit Program Impacting Pasture Area and Quality in Brazil's Northeast Region?**
Adauto B. Rocha Jr., University of São Paulo; **Giovani W. Gianetti**, University of São Paulo; *Alexandre N. Almeida*, University of Sao Paulo; *Joaquin Bento Ferreira*, University of São Paulo
- T107** **Achieving Spatial Connectivity for Threshold Public Goods through Payments for Ecosystem Services – Evidence from a Framed Field Experiment with Oil Palm Farmers in Indonesia**
Katrin Rudolf, University of Goettingen
- T108** **Assessing the Private and Social Benefits of Forest Concessions in the Maya Biosphere Reserve**
Corinne F. Bocci, The Ohio State University; *Brent Sohngen*, The Ohio State University
- T109** **The Impact of the 2008 Shale Gas Moratorium on New York Farmland Values**
Jennifer E. Ifft, Cornell University; *Ao Yu*, Cornell University
- T110** **Determinants of Cropland Expansion in the United States: The Role of Government Policy**
Yijia Li, University of Illinois at Urbana-Champaign; *Madhu Khanna*, University of Illinois at Urbana-Champaign; *Ruiqing Miao*, Auburn University
- T111** **How Do Landfills Impact Surrounding Property Values: A Difference-in-Differences Model Analysis**
Bijeta Bijen Saha, University of Florida

Posters

Risk and Uncertainty - Poster Session

- M125** **Optimal Spatial Distribution of Forest Carbon Payments that Balances Returns and Risks of Future Economic Growth Scenarios**
Seong-Hoon Cho, University of Tennessee; *Bijay P. Sharma*, University of Tennessee
- M126** **Farm-level Irrigation Decisions and Informal Water Transfers under the Prior Appropriation Doctrine**
Kimberly S. Rollins, University of Nevada, Reno; *Gi-Eu Lee*, University of Nevada, Reno; *Loretta Singletary*, University of Nevada, Reno
- M127** **Non-linear Impact of Extreme Heat on Nitrogen Balances**
Tobias Dalhaus, ETH Zürich; *Tony Pfingsten*, University of Bonn
- M128** **Rate-Setting of Agricultural Insurance Using Partial Derivatives of Penalized Bivariate Tensor Product B-splines: The Case of Beijing in China**
Pin Lu, Michigan State University; *Kaidi Wu*, Michigan State University
- M129** **On the Optimal Policy for Infectious Animal Disease Management: A Principal-Multiple Agents Approach**
Abdel Fawaz Osseni, French National Institute for Agricultural Research; *Arnaud Rault*, INRA - UMR BioEpAR; *Gohin Alexandre*, INRA, SMART-LERECO
- M130** **Risk Preferences and Demand for Crop Insurance**
Stephanie D. Rosch, USDA-Economic Research Service; *Joseph C. Cooper*, USDA-Economic Research Service; *Charles Holt*, University of Virginia; *Thomas W. Sproul*, University of Rhode Island; *Sarah Tulman*, Farm Credit Administration
- M131** **Is There a Demand for Aquaculture Insurance? An Analysis of New England's Oyster Market**
Avery W. Cole, University of Maine; *Xuan Chen*, Emory University; *Nicholas Alvarez*, University of Maine
- M132** **Do Values Drive the Risk Gap?**
Kayode M. Ajewole, Kansas State University; *Elliott J. Dennis*, University of Nebraska-Lincoln; *Ted C. Schroeder*, Kansas State University; *Jason S. Bergtold*, Kansas State University

Rural/Community Development - Poster Session

- T112** **Effects of Marketing Contracts and Resource-Providing Contracts in the African Small Farm Sector: Insights from Oil Palm Production in Ghana**
Anette Ruml, University of Göttingen; *Matin Qaim*, University of Göttingen
- T113** **Baby Boomers' Paths into Retirement: Income/Wealth Dependency of their Migration Behaviors and Patterns**
Ayoung Kim, Mississippi State University; *Brigitte S. Waldorf*, Purdue University
- T114** **Long-term Effects of National Health Insurance on Improving Health Status and Reducing Financial Burden: Evidence from China**
Yuying Xing, University of Illinois at Urbana-Champaign
- T115** **Are Returns to Capital Lower in Rural Areas? An Initial Evaluation.**
David W. Hughes, University of Tennessee; *David Brian Willis*, Clemson University
- T116** **The Effects of Democratic Participation in Development Program on Happiness: Does Procedural Utility Matter?**
Chenxin Leng, China Agricultural University; *Qianheng Chen*, China Agricultural University; *Li Li*, Institute of Psychology, Chinese Academy of Sciences; *Michael Delgado*, Purdue University
- T117** **The Impact of Low-Skilled Immigration on Native Student School Choice Outcomes: Does School Choice Lead to Increased Segregation in Rural Minnesota Public Schools?**
Thomas P. Krumel Jr., University of Connecticut; *Shawn Rohlin*, Kent State
- T118** **Consumer Preference on Rice as the Most Favorite Staple Food in Rural Ghana**
Sakiko Shiratori, Japan International Research Center for Agricultural Sciences
- T119** **Does the Pension Program Affect Health Care Utilization of Elderly Farmers? Evidence from the Old Farmer Pension Program in Taiwan**
Feng-An Yang, National Taiwan University; *Hung-Hao Chang*, National Taiwan University

Posters

T120 **Can Cooperatives Increase Farmers' Income: A Study of Tea in China**
Xiaorong Zhang, Renmin University of China; Xiangzhi Kong, Renmin University of China

Teaching, Communication, and Extension - Poster Session

M133 **Evaluating the Effectiveness of Basic Good Agricultural Practices Training by University of Maryland Extension**
Xiaoya Dou, University of Maryland; Clare A. Narrod, University of Maryland; Mark V. Miller, University of Maryland; Tarik Chfadi, University of Maryland; Donna Pahl, Cornell University; Justine Beaulieu, University of Maryland

M134 **The Ag Econ Diaspora: Where Do Applied Economists Publish?**
Anna Derian, Tufts University; Sean B. Cash, Tufts University; Norbert L.W. Wilson, Tufts University

M135 **Measuring Statewide Impacts of Extension on Soil Conservation Practices**
Tong Wang, South Dakota State University

M136 **Effect of Crapemyrtle Bark Scale on Crapemyrtle Industry and Consumer Demand**
Pulkit Marwah, Texas A&M University; Yu Yvette Zhang, Texas A&M University; Mengmeng Gu, Texas AgriLife Extension Service

M137 **Training Needs for Small Producers to Minimize Agricultural Marketing Problems and Challenges: How Cooperative Extension Can Fill the Gap**
Lila B. Karki, Tuskegee University; Uma Karki, Tuskegee University; David Nii O. Tackie, Tuskegee University; Gwendolyn Harris, Tuskegee 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 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 (xyz).

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 (xyz)

NEW IN 2019

The 2019 AAEA Annual Meeting will be continuing the discussant method originally featured in 2018, developed by the Selected Presentations Committee. Due to positive feedback received from 2018 presenters, we have been able to expand this format from just six sessions to 29!

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 sessions. We greatly appreciate your continued patience and enthusiasm with this new format!

TEST SESSIONS

1033 The Economics of Nutritional Outcomes in Developing Countries; **1037** International Trade – Trade Impacts on Food Security; **1041** Energy Market and Regulations; **1055** Forecasting Prices and Trading Volume; 1056 Experimental Economics - Risk, Trust and Uncertainty; **1060** International Development - Agricultural Development; **1062** Climate Impact on Agricultural Production; **2005** Economics of Agri-Food Markets; **2006** Behavioral Economics and Farm Decision-Making; **2008** Experimental Economics – Design; **2010** U.S. Food Assistance Programs: A Focus on Food Retailers; **2012** U.S. Labor Policy, and Impact on Migration and Rural Labor Markets; **2017** Productivity Analysis and Emerging Technologies – New Data Methods for Crop and Livestock Production; **2018** Water Use and Conservation; **2041** Compensation, Incentives and Productivity; **2044** Climate, Water Scarcity, and Agricultural Adaptation; **2046** Productivity Analysis and Emerging Technologies – Productivity Factors for Crop Farming in Sub-Saharan Africa; **2047** Pollution Regulation, Violation and Disbelief; **2049** Rural Broadband and Local Foods; **2065** Agribusiness Supply Chain Management and Coordination; **2068** Organic and Non-GMO Food Markets and Marketing; **2072** International Development – Aspirations; **2094** Agricultural Production Management and Profitability; **2093** Ag Finance and Farm Management - Issues with Crop Insurance; **2097** Consumer Response to Farm Production Standards and Certification Schemes; **2099** An Assessment of Food Safety from the Farm to the Consumer; **2100** Institutions and U.S. Labor Supply; **2104** Cropping System Economics; and **2107** Gender and Rural Development.

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

1001 International Agri-Food Trade Shocks: Assessment, Measurement, and Impact

M103, Marquis Level

Invited Paper

The objective of this session is to contribute state-of-the-art empirical research to enhance understanding of current and historically significant agricultural trade shocks.

Moderator: Shawn Arita, USDA-Office of the Chief Economist

Discussant: Joseph W. Glauber, International Food Policy Research Institute

A Hybrid Model Approach to Estimating Impacts of China's Tariffs on U.S. Soybeans

Patrick Westhoff, University of Missouri; Tracy L. Davis, Texas A&M University; Byung Min Soon, University of Missouri

The Impact of 2018 Trade War Retaliation on U.S. Commodity Prices

Michael K. Adjemian, USDA-Economic Research Service; Shawn Arita, USDA-Office of the Chief Economist; Aaron D. Smith, University of California, Davis

Global Agri-Food Trade Shocks: A Historical Econometric Assessment

Jason Grant, Virginia Tech; Shawn Arita, USDA-Office of the Chief Economist; Charlotte Emlinger, CEPII

1002 Perspectives on Global Food Security

M101, Marquis Level

Organized Symposium

This session will feature four prominent panelists giving brief presentations on different features of the global food security landscape. Half the time will be dedicated to open discussion among the panelists and the audience about research directions as well as policy implications of recent research advances on global food security.

Organizer: Christopher B. Barrett, Cornell University

Moderator: Awudu Abdulai, University of Kiel

Panelists: Annemie Maertens, University of Sussex; William J. Martin, International Food Policy Research Institute; Ashok K. Mishra, Arizona State University; Matin Qaim, University of Göttingen

Trade Policy and Food Security

William J. Martin, International Food Policy Research Institute

Labor Markets, Social Protection Programs, and Diet Quality

Ashok K. Mishra, Arizona State University

Complex Household Structures and Food Security

Annemie Maertens, University of Sussex

1003 Agricultural Labor - Issues and Solutions

L401, Lobby Level

Organized Symposium

In this session, we discuss several issues of emerging importance to farmers and policymakers concerned with access to agricultural labor. From healthcare, to minimum-wage reform, and changes to the H-2A program, researchers discuss on-going research using a variety of theoretical, and empirical, approaches.

Panelists: Alexandra E. Hill, University of California, Davis; Jennifer E. Ifft, Cornell University; Ivan T. Kandilov, North Carolina State University; Timothy J. Richards, Arizona State University

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

1004 Ag Finance and Farm Management - Lightning Session

Suite 3824, 38th Floor

Selected Presentation - Lightning Session

Moderator: Carlos O. Trejo-Pech, University of Tennessee, Knoxville

Small Farmers, Large Fields – An Initiative to Improve Sustainability of Small Farms Through Synchronized Participatory Farming

Sampriti Baruah, International Rice Research Institute; Samarendu Mohanty, International Potato Center (CIP)

Adoption of Crop Insurance in Ghana: The Right Hurdle in the Presence of Non-normality and Over-dispersion

Kwame A. Addey, North Dakota State University; **John Baptist D. Jatoe**, University of Ghana, Legon; George T-M Kwadzo, University of Ghana, Legon; Yaw Osei-Asare, University Ghana, Legon; **John Baptist D. Jatoe**, University of Ghana, Legon

A Financial Analysis of Cage and Cage-free Eggs Production in the United States

Carlos O. Trejo-Pech, University of Tennessee, Knoxville; Jada Thompson, University of Tennessee

Substitute or Complement? Formal and Informal Methods of Saving: The Case of Unskilled Workers in the Cut Flower Industry in Ethiopia

Eun Jin Ryu, The University of Tokyo; Aya Suzuki, University of Tokyo

Evaluating the Feasibility of Consolidations in Agricultural Cooperatives

Olabisi Ekong, Kansas State University; Brian C. Briggeman, Kansas State University

Incorporating the Sampling Distribution of a Soil Signal for an Ex-ante Evaluation of Precision Agriculture

Pedro Queiroz, University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln; Felipe De Figueiredo Silva, University of California, Berkeley

Dispute Likelihood in Commodity Forward Contracts

Sankalp Sharma, Kent State University, Tuscarawas; Anil Giri, University of Central Missouri

1005 Risk and Resilience in Agribusiness

Suite 3839, 38th Floor

Selected Presentation

This session focuses on a range of issues related to risk and resilience of firms in the agri-food supply chain.

Moderator: Ze Shen, Texas A&M University

The Effect of Liquidity Shocks on the Resiliency of Agricultural Futures Markets

Marjolein Verhulst, Wageningen University; Joost M. E. Pennings, Maastricht University / Wageningen University; Andres A. Trujillo-Barrera, University of Idaho

The Effects of Genetically Modified Corn Adoption on Yield Risk and Drought Sensitivity in the Central Corn Belt: An Analysis of Crop Insurance Performance

Serkan Aglasan, North Carolina State University; Barry K. Goodwin, North Carolina State University

How Do Farmers Really Respond to Drought in the Short-run? An Empirical Examination in Washington State

Hao Li, Washington State University; Michael P. Brady, Washington State University

Bitcoin Return Volatility Forecasting: A Comparative Study of GARCH Model and Machine Learning Model

Ze Shen, Texas A&M University; Qing Wan, Computer Science & Engineering Department, Texas A&M University; David J. Leatham, Texas A&M University

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

1006 Experimental Economics - Lightning Session

Suite 3903, 39th Floor

Selected Presentation - Lightning Session

This Lightning session presents papers from a diversity of topics, including, extension program evaluations, virtual reality, common pool resources, the effects of temperature on team production and incentives, micronutrient adoption, politicians and their promises, technology adoption and the role of technological and environmental information on food choices.

Moderator: Irina S. Dolgoplova, Technical University of Munich

Does Virtual Reality Reduce Hypothetical Bias? Evidence from Choice Experiments Using Nutrition Labels

Di Fang, University of Arkansas; **Rodolfo M. Nayga**, University of Arkansas; **Grant H. West**, University of Arkansas; **Claudia Bazzani**, University of Verona

Is Micronutrient Training Effective in Creating Demand for Zinc Rice? A Randomized Control Trial Study and Panel Data Analysis for Bangladesh

Harold Glenn A. Valera, University of the Philippines, Los Banos; **M. Ashraf Habib**, International Rice Research Institute; **Takashi Yamano**, International Rice Research Institute

The Role of Environmental and Technological Information on Food Choices: Insights from the Combination of In-home sensory Evaluations and On-Line Auctions

Dolores Garrido, Washington State University; **Karina Gallardo**, Washington State University

Does Innovation Drive Delay? Evidence from a Technology Adoption Experiment

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

Information and Farmers' Willingness to Pay for Improved Soybean Varieties: Experimental Evidence from Ghana

Edward Martey, CSIR-Savanna Agricultural Research Institute

1007 Advances and Innovation in Assessing Consumer Demand for Food Products

Suite 3919, 39th Floor

Selected Presentation

This collection of papers offer important, new, insights into factors relevant to the design of studies that examine consumer demand for food products.

Moderator: Ting Meng, China Agricultural University

A Nonhypothetical, Hierarchical Information Valuation Approach: Which Food Labels do Consumers Value Most?

Kendra J. Rash, Purdue University; **Jayson L. Lusk**, Purdue University; **Laurent F. Muller**, French National Institute for Agricultural Research; **Bernard Ruffieux**, French National Institute for Agricultural Research

The Impact of Font-of-package Labeling with Information Spillovers

Chen Zhu, China Agricultural University; **Rigoberto A. Lopez**, University of Connecticut; **Xiaoou Liu**, Renmin University of China

Measuring Exaggeration Bias in a Contingent Valuation Study Conducted in a Retail Environment

Joshua P. Berning, Colorado State University; **Benjamin L. Campbell**, University of Georgia

Comparative Price in Choice Experiments: The Effects of Price Information on Willingness to Pay

Shan Sun, Huazhong Agricultural University; **Wuyang Hu**, The Ohio State University; **Ping Qing**, Huazhong Agricultural University

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

1008 Emerging Topics in Agricultural Policy

Suite 3934, 39th Floor

Selected Presentation

Change is on the horizon, and discussions in agriculture go well beyond cost functions and major commodities. How can nutrition and production information be better communicated to consumers? How will contemporary policies, like soda taxes and state-by-state regulation of marijuana, affect society? This session combines several diverse topics that are emerging in agricultural policy, all of which will surely affect producers and consumers. Come learn about the effectiveness of policies from food labeling, to soda taxes, to medical marijuana.

Moderator: Janani Rajbhandari Thapa, University of Georgia

Assessing Healthfulness of the Food Environment after the Mandatory Menu Labelling and Predicted Impact on Healthy Eating
Janani Rajbhandari Thapa, University of Georgia; **Nicole Katapodis**, University of Georgia; **Donglan Zhang**, University of Georgia

Heterogeneity in the Effect of Medical Marijuana Laws on Crime: Evidence from the U.S. Counties from 1994 to 2016

Scott Callahan, Appalachian State University; **David Bruner**, Appalachian State University; **Christopher S. Giguere**, I.M. Systems Group, Inc. / NOAA-NOS-ORR-ARD

Measuring the Impact of Transitional Certification and Labeling on Organic Conversion Rates and Organic Price Premiums

Ashley Spalding, University of California, Davis; **Richard J. Sexton**, University of California, Davis

Spatial Competition and Effectiveness of Soda Tax: Evidence from Berkeley and Philadelphia

Joseph V. Balagtas, Purdue University; **Xiaoyang He**, Purdue University

1009 Food Safety and Nutrition: A Lightning Session

M102, Marquis Level

Selected Presentation - Lightning Session

Food safety and nutrition are vital areas of research to improve food and agricultural systems and promote wellbeing. The papers in this session explore food safety and nutrition from policy to interventions in the U.S. and other developed countries. A trio of papers address food safety at the producer and consumer levels, while another trio of papers consider child nutrition in U.S. emphasizing school nutrition policies and programs. The other papers use national data of dietary intake to evaluate sodium in food away from home in Korea and to develop a price tool for nutrition economics research in the U.S.

Moderator: Travis A. Smith, University of Georgia

Do Private Lawsuits Crowd-In or Crowd-Out Public Food Safety Regulation?

Timothy Beatty, University of California, Davis; **Jay P. Shimshack**, University of Virginia; **Yijing Wang**, University of California, Davis

Which Criteria Do Consumers Use to Evaluate the Safety of Food?

Christine Hassauer, Technical University of Munich; **Jutta Roosen**, Technical University of Munich

The Effect of the Fresh Fruit and Vegetable Program (FFVP) on Fruit and Vegetable Consumption: An Agent Based Modeling Approach

Stephanie Schauder, Cornell University; **Michael R. Thomsen**, University of Arkansas; **Rodolfo M. Nayga**, University of Arkansas

Did the New School Meal Standards Improve the Overall Quality of Children's Diets

Travis A. Smith, University of Georgia; **Eliza M. Mojduszka**, USDA-Office of the Chief Economist

The Effect of Childhood Obesity on Hospital Length of Stay, Charges and Costs in the United States, 2006-2016

Lюдmyла Kompaniyets, Centers for Disease Control and Prevention; **Brook Belay**, Centers for Disease Control and Prevention

Effects of Food Away from Home Consumption on Sodium Intake

Jung Woo Byun, Korea University; **Kwanghun Yeon**, Korea University; **Doo Bong Han**, Korea University

Estimating Food Prices for NHANES and the USDA Food Plans

Andrea C. Carlson, USDA-Economic Research Service; **Kevin Kuczynski**, USDA-Food & Nutrition Service; **TusaRebecca Pannucci**, USDA-Food & Nutrition Service; **Kristin Koegel**, USDA-Food & Nutrition Service; **Elina T. Page**, USDA-Economic Research Service; **Carina Tornow**, Westat; **Thea Pamer Zimmerman**, Westat

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

1010 Industrial Organization/Supply Chain Management - U.S. Dairy Market

Suite 3939, 39th Floor

Selected Presentation

This session looks at the market structure, market power, and dynamics of the U.S. Dairy Industry.

Moderator: Jill Ann Fitzsimmons, University of Massachusetts, Amherst

Competition Issues in the Fluid Milk Industry in the Eastern United States

Yuliya Bolotova, Clemson University

The Price-Perceived Quality Relationship: Evidence from U.S. Cheese Markets

Charng-Jiun Yu, University of Wisconsin-Madison; **Xiaodong Du**, University of Wisconsin-Madison

Dairy Industry Transition and Exits, 1987 to 2012

Miyeon Son, Oklahoma State University; **Dayton M. Lambert**, Oklahoma State University; **Jessica A. Richard**, Oklahoma State University

Federal Milk Marketing Order and Dairy Consolidation: A Synthetic Control Method

Xiaoxue Du, University of Idaho; **Liang Lu**, University of Idaho; **Hernan A. Tejada**, University of Idaho; **Andres A. Trujillo-Barrera**, University of Idaho

1011 International Development - Technology Adoption

Suite 4003, 40th Floor

Selected Presentation

These papers examine both the drivers and the impacts of the adoption of agricultural technologies.

Moderator: David Murphy, University of Evansville

Effectiveness of Lead-Farmer Extension: The Role of Physical, Social and Personality Distance

Jarrad G. Farris, Michigan State University; **Mywish K. Maredia**, Michigan State University; **Nicole M. Mason**, Michigan State University; **David L. Ortega**, Michigan State University

Impacts of an agricultural Value Chain Development Project on Poverty, Income, and Assets: Evidence from Nepal

Tisorn Songsermsawas, International Fund for Agricultural Development; **Kashi Kafle**, International Fund for Agricultural Development

The Impact of High-Yield Technologies on the Cocoa Market in West Africa

Felipe De Figueiredo Silva, University of California, Berkeley; **David Zilberman**, University of California, Berkeley; **Scott Kaplan**, University of California, Berkeley; **Matthew Potts**, University of California, Berkeley

Show and Tell: Causal Impacts of Field Days on Farmer Learning for Organic Inputs in Kenya

David Murphy, University of Evansville; **Dries Roobroeck**, International Institute of Tropical Agriculture; **David R. Lee**, Cornell University

1012 International Trade - Agricultural Trade and China

Suite 4019, 40th Floor

Selected Presentation

This session focuses on the impact of trade and trade policies on China's agricultural imports and exports, environment, and economy.

Moderator: Chang Hong, USDA-Economic Research Service

Global Trade Effects of Tightening Environmental Standards in China

Sandro Steinbach, University of Connecticut; **Xiting Zhuang**, University of Connecticut

Trade Openness, Pollution, and Growth: Evidence from China, 1998-2008

Guojun He, Hong Kong University of Science and Technology; **Yuhang Pan**, Hong Kong University of Science and Technology; **Bing Zhang**, Nanjing University

Is There a Middle-Quality Trap in China's Agri-Products Export?

Xuemei Liu, East China University of Science and Technology; **William H. Meyers**, University of Missouri

Agricultural Trade and Consumer Demand in China

Chang Hong, USDA-Economic Research Service; **Robert Feenstra**, University of California, Davis

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

1013 Modeling Innovations in Land-Use Change

Suite 4024, 40th Floor

Selected Presentation

This session uses diverse methods to explore land-use change in the U.S. The papers present machine learning, dynamic programming, spatial econometric, and Ricardian approaches that capitalize on remote sensing and field data resources to characterize land transitions across space and time.

Moderator: Chinazor S. Azubike, North Carolina A&T State University

Determinants of Land-use Changes: A Machine-Learning Approach

Luoye Chen, University of Illinois at Urbana-Champaign; **Madhu Khanna**, University of Illinois at Urbana-Champaign

An Econometric Analysis of the Impact of Climate Change on Broad Land-use Change in the Conterminous United States

Chris Mihlar, Oregon State University; **David Lewis**, Oregon State University

Grassland Easement Acquisition: Conversion Hazard Rate and Spatial Spillover

Ruiqing Miao, Auburn University; **David A. Hennessy**, Michigan State University; **Hongli Feng**, Michigan State University; **Gaurav Arora**, Indraprastha Institute of Information Technology

Modeling Land Use and Land Cover in North Carolina; A Markov Chain Approach

Chinazor S. Azubike, North Carolina A&T State University; **Lyubov A. Kurkalova**, North Carolina A&T State University; **Timothy J. Mulrooney Jr.**, North Carolina Central University

1014 Spatial and Dynamic Methods to Advance Agricultural Production Economics Research

Suite 4039, 40th Floor

Selected Presentation

Papers in this session utilize spatial and dynamic methods to address topics in agricultural production, technology, and growth, including applications from a variety of international contexts.

Moderator: Farzad Taheripour, Purdue University

Spatial Dependence and Dynamic Productivity Growth in Wisconsin Dairy Farming

Teo Skevas, University of Missouri; **Victor E. Cabrera**, University of Wisconsin-Madison

Transient Use of Hybrid Maize: Irregularly Spaced Dynamic Panel Evidence from Kenya

Maolong Chen, Southwestern University of Finance and Economics; **Robert J. Myers**, Michigan State University; **Chaoran Hu**, Sichuan University

Does Neighborhood Matter? Spatial Proximity and Farmer Technical Efficiency in Ethiopia

Wondmagegn T. Tirkaso, Swedish University of Agricultural Sciences; **Atakelti G. Hailu**, University of Western Australia

Impact of Minimum Support Price Policy and National Food Security Mission on the Production of Pulses in India

Jannet John, Indian Institute of Management, Ahmedabad; **Anar Bhatt**, Indian Institute of Management, Ahmedabad; **Poornima Varma**, Indian Institute of Management, Ahmedabad

1015 Farm Management Practices for Pollution Reduction

M107, Marquis Level

Selected Presentation

Papers in this session review effectiveness of regulations that target farm practices to reduce pollution from farm run-off. Papers evaluate producers' options and preferences in choosing to adopt conservation practices, as well considering the effectiveness from the perspective of achieving nutrient reduction goals.

Moderator: Haoluan Wang, University of Maryland at College Park

What Drives Voluntary Adoption of Farming Practices that Can Abate Nutrient Pollution?

Zachary Luther, Michigan State University; **Scott M. Swinton**, Michigan State University; **Braeden Van Deynze**, Michigan State University

Land Tenure and Conservation Practice Use: Evidence from Landowners' Decisions in Iowa

Wendiam Sawadgo, Iowa State University; **Wendong Zhang**, Iowa State University; **Alejandro Plastina**, Iowa State University

EU Regulations to Fight Nutrient Surpluses: The Case of Nitrate Vulnerable Zones

Ivan Tzintzun, Paris 1 Panthéon-Sorbonne; **Santiago Guerrero**, Dirección Nacional de Medio Ambiente, Uruguay

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

1016 Risk and Uncertainty - Risk Perception

Suite 3924, 39th Floor

Selected Presentation

Papers in this session explore the linkage among information, risk communication, and risk perceptions.

Moderator: Andrew J. Estrin, U.S. Food and Drug Administration

Effects of Information on Risk Perception: Empirical Evidence from Housing Market in Taiwan

Tzu-Chang Forrest Cheng, National Central University; Tai-Chi Wang, National Center for High-Performance Computing; Jian-Da Zhu, National Taiwan University

Endogenous Risk Perception and Wildfire Risk Mitigating Behavior

Hari Katuwal, Tarleton State University

Do Concerns of Agricultural Producers About Risk Limit Participation in Agri-Environmental Schemes?

John Rolfe, Central Queensland University; *Megan L. Star, Central Queensland University*

1017 Understanding Adoption of Innovations and Behavior Change to Improve Agricultural Policy

M109, Marquis Level

Track Session - AUS, CWAE, ENV Sections

This session provides a broad scan across the vast literature on the adoption of new practices in agriculture, with a focus on its relevance to agricultural policy, including policy for agricultural production and policy for conservation of natural resources and the environment. Issues covered include the role of adoption and behavior change in agricultural policy, adoption of agricultural practices through a behavioral economics lens, adoption of innovations in developing countries, and the roles of economic and non-economic factors as drivers of or barriers to practice change. The session is based on a selection of papers from a special issue of AEPP that is currently in preparation.

Organizer: David J. Pannell, University of Western Australia

Discussant: David Zilberman, University of California, Berkeley

The Roles of Adoption and Behavior Change in Agricultural Policy

David J. Pannell, University of Western Australia; *Roger L. Claassen, USDA-Economic Research Service*

The Relationship Between Behavioral Economics and the Adoption of Agricultural Innovations

Nadia A. Streletskaya, Oregon State University; *Samuel D. Bell, Oregon State University; Simanti Banerjee, University of Nebraska-Lincoln; Maik Kecinski, University of Alberta; Tongzhe Li, University of Windsor; Leah H. Palm-Forster, University of Delaware; David J. Pannell, University of Western Australia*

Predicting Adoption of Innovations by Farmers: How is it Different in Smallholder Agriculture?

Rick S. Llewellyn, Commonwealth Scientific and Industrial Research Organisation, Australia; *Brendan Brown, International Maize and Wheat Improvement Center (CIMMYT), Nepal*

Profit Maximization as a Guide to Behavior Change

Alfons Weersink, University of Guelph; *Murray E. Fulton, University of Saskatchewan*

What Explains Different Findings About the Determinants of Agricultural Conservation Adoption? A Meta-Analysis

Ben Gramig, University of Illinois at Urbana-Champaign; *Linda S. Prokopy, Purdue University; Kristin Floress, U.S. Forest Service*

1018 The Front-Door Criterion in Theory and in Practice

Suite 3803, 38th Floor

Track Session - Econometrics Section

When it comes to identifying causal effects with observational data, most researchers are familiar with the usual suspects, viz. randomized controlled trials, selection on observables, instrumental variables, difference-in-differences, regression discontinuity designs, and synthetic control methods. With the publication of Pearl's Book of Why last year, however, a new method—the front-door criterion (FDC)—has been introduced to a broader audience. Though the FDC relies on strong assumptions about unobserved confounders, it can be successfully used to learn about causal effects, as shown by Glynn and Kashin (JASA 2018). In this session, Prof. Adam Glynn (Emory University) will introduce the FDC to members of the agricultural and applied economics profession, discussing both the theory and some applications of this new method as well as some extensions.

Organizers: Marc F. Bellemare, University of Minnesota; Adam Glynn, Emory University

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

1019 Washington Policy Outlook

M104, Marquis Level

Track Session - Extension 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

Perspectives from the House Agriculture Committee, Minority

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

Perspectives from the Senate Agriculture Committee

Matt Erickson, *Senate Agricultural Committee*

Perspectives from USDA

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

Perspectives from the House Agriculture Committee, Majority

Katie Zenk, *House Agriculture Committee*

1020 WTP: And then What!? - Lightning Session

M304, Marquis Level

Track Session - EXECON & FAMPS Sections

The literature using experimental methods (choice experiments, laboratory and field experiments) to estimate preferences for food attributes and labelling types is ever larger, but it appears to be facing a crisis of relevance. As experimental methods have become more common and widely adopted, so did the number of studies whose primal contribution is the mere estimation of WTP, with limited attention to other policy inputs and/or practical implications. This lightning session presents 8 studies where estimation of consumer preferences are employed as a means to directly address a specific policy problem. Presentations will follow a common format, emphasizing the framing of the research question and the policy inference to be drawn.

Organizers: Marco Costanigro, Colorado State University; Christiane Schroeter, California Polytechnic State University, San Luis Obispo

Using State Preference Techniques and Experimental Auction Methods: A Review of Advantages and Disadvantages for Each Method in Examining Consumer Preference for New Technology

Jill J. McCluskey, *Washington State University*; *Wallace E. Huffman*, *Iowa State University*

WTP, Cost, and Market Impacts of a Transition to Slow Growth Broilers

Jayson L. Lusk, *Purdue University*; *Nathanael M. Thompson*, *Purdue University*

WTP and Wellness Incentive Programs: What Does it Take?

Christiane Schroeter, *California Polytechnic State University, San Luis Obispo*

Types of Front of Pack Food Labels: Do Obese Consumers Care? Evidence from Northern Ireland

Riccardo Scarpa, *University of Waikato*; *Mara Thiene*, *University of Padova*; *Alberto Longo*, *Queen's University Belfast*; *George Hutchinson*, *Queen's University Belfast*

Predicting Consumer Policy Preferences using Economic Experiments

Vincenzina Caputo, *Michigan State University*; *Jayson L. Lusk*, *Purdue University*

Including Price in a Choice Experiment without the Intention to Estimate WTP

Brandon R. McFadden, *University of Delaware*

When WTP Shows that Consumers Don't Want "Environmentally Friendly" Food: Informing the Use of Recycled Irrigation Water

Kent D. Messer, *University of Delaware*; *Sean Ellis*, *University of Delaware*; *Maik Kecinski*, *University of Alberta*; *Tongzhe Li*, *University of Windsor*; *Olesya Savchenko*, *University of Delaware*

Introducing the Chianti Classico Gran Selezione: Winners, Losers and Changes in Quality Perceptions

Marco Costanigro, *Colorado State University*; *Gabriele Scozzafava*, *University of Florence*; *Leonardo Cassini*, *University of Florence*

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

1021 Addressing Policy Challenges Using Administrative Data: Applications in the WIC Program

M303, Marquis Level

Track Session - FAMPS & FSN Sections

Micro-Level administrative data are an increasingly common and valuable input for policy-relevant applied economics research. This session presents several applications that use administrative data from U.S. states on food benefit transactions in the Women, Infants, and Children (WIC) Program. The WIC Program is the third largest USDA food assistance program providing benefits to low-income and nutritionally at-risk pregnant, breastfeeding, and post-partum women; infants; and children up to age 5. The program is far-reaching, typically covering roughly half of all infants nationwide, and thus successful operation of the program may have a significant impact on public health. Containment of food costs, encouraging program participation, and meeting desired dietary outcomes are examples of WIC policy challenges that administrative data can help address. This session will also highlight successes and challenges, and discuss how policy research interfaces with the work of practitioners.

Organizers: Xuemei Li, University of California, Davis; Patrick W. McLaughlin, USDA-Economic Research Service

Discussant: Mark Denbaly, USDA-Economic Research Service

Cost Containment and Participant Access in the WIC Program: Evidence from the Greater Los Angeles Area

Richard J. Sexton, University of California, Davis; Michelle Saksena, USDA-Economic Research Service; Patrick W. McLaughlin, USDA-Economic Research Service; Tina L. Saitone, University of California, Davis; Meilin Ma, Purdue University; Richard J. Volpe III, California Polytechnic State University, San Luis Obispo; Qi Wu, University of California, Davis

Electronic Transfer and WIC Program Food Costs: Evidence from the Oklahoma EBT Transition

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

WIC Cash Value Voucher (CVV) Redemption Choices in Electronic Benefit Transfer (EBT) Era

Patrick W. McLaughlin, USDA-Economic Research Service; Qi Zhang, Old Dominion University; Kayoung Park, Old Dominion University; Junzhou Zhang, Old Dominion University; Chuanyi Tang, Old Dominion University; Brian W. Stacy, USDA-Economic Research Service

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

1022 Pre-Analysis Plans and Research Design in Development Economics

Suite 3819, 38th Floor

Track Session - Africa, Econometrics, & International Sections

It is becoming more and more common for researchers to prepare and file pre-analysis plans before implementing experiment-based research projects. This is especially true for researchers conducting impact evaluations in developing countries. Pre-analysis plans offer researchers the opportunity to declare their hypotheses and methodologies in advance, which can lead to greater transparency in data analysis and an improved record of studies, including those that lead to null results. In addition to improving research transparency and validity, preparing a pre-analysis plan can help researchers to design better experiments and to solicit feedback on research design and methodology from peers. If such feedback is received early enough in the planning process, researchers can act on it. If the same feedback is received when researchers are presenting results from completed experiments, on the other hand, little can be done to address methodological problems. Despite the high value of feedback on research design and methodology, researchers have very few venues to present research plans. This session seeks to create an innovative platform for researchers to present and exchange feedback on experimental research in the field of development economics. Each of the four proposed papers involves an impact evaluation planned to begin after August 2019. The session will consist of four brief presentations focused on research design and methodology, with presenters providing very brief discussant comments on each others' papers. Following the presentations, an additional discussant will facilitate a discussion with the presenters and audience about the role that peer exchange around pre-analysis plans can play in development economics.

Organizer: Ellen McCullough, University of Georgia

Moderator: Ellen McCullough, University of Georgia

Increasing Smallholder Farmers' Incentives to Maintain Quality: Experimental Evidence from Western Kenya

Jacob Ricker-Gilbert, *Purdue University*

Plot Size Misperceptions and Input Optimization: Experimental Evidence from Kenya

Andrew M. Simons, *Fordham University*; *David Murphy*, *University of Evansville*

Insuring Farmers Through Credit: Linking Smallholders to Financial Markets with Bundled Products

Conner C. Mullally, *University of Florida*; *Nicholas Magnan*, *University of Georgia*; *Sarah A. Janzen*, *Kansas State University*

Her Time: Measuring Women's Time Use in Ethiopia

Ellen McCullough, *University of Georgia*; *Tamara McGavock*, *Grinnell College*; *Girum Abebe Tefera*, *Ethiopian Development Research Institute*; *Nicholas Magnan*, *University of Georgia*; *Thomas Assefa*, *University of Georgia*

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

1023 The Effect of Government Policies, Investments in Education, and Producers' Decision to Diversify on the Economic Efficiency of the Agricultural Sector in Latin America

M108, Marquis Level

Track Session - LAS Section

Important changes have occurred in the agricultural sector of Latin America in the last decade. The aim of this session is to shed light on economic efficiency, technical efficiency, and productivity changes in the agricultural sector. The first paper evaluates economies of scope in the production technology of diverse agro-ecological zones in Bolivia. The remaining papers evaluate the impact of government policies, international factors, and investment in extension and education on the agricultural productivity in Brazil, Ecuador, and Bolivia. Papers in this session will also provide insight into growth opportunities in the region.

Organizer: Graciela C. Andrango, Western Illinois University

Moderator: Graciela C. Andrango, Western Illinois University

Economies of Scope in Bolivian Agriculture

Travis McArthur, *University of Florida*; **Bradford L. Barham**, *University of Wisconsin-Madison*; **Jean-Paul Chavas**, *University of Wisconsin-Madison*

Agricultural Productivity and Technical Efficiency in Brazil at the State Level: Assessing Determinants of Change

Ana Claudia Sant'Anna, *The Ohio State University*; **Humberto F.S. Spolador**, *University of São Paulo*; **Jason S. Bergtold**, *Kansas State University*

Productivity, Technical Efficiency and Well-Being: Lessons from the Policy of Expansion and Improvement of the Educational Services in Ecuador

Ivan M. Borja, *Universidad San Francisco de Quito*; **Sebastian Oleas**, *Universidad San Francisco de Quito*

Municipality Agricultural Productivity in Bolivia: A Stochastic Frontier Approach

Brisa Rejas, *Inter-American Development Bank*; **Felipe De Figueiredo Silva**, *University of California, Berkeley*; **Juan M. Murguía**, *Inter-American Development Bank*

1024 The Future of Institutional Organization and Support of Applied Economics

M105, Marquis Level

Track Session - NAAEA & Senior Sections

Policymakers require objective information to design evidence-based policies. There is worldwide concern over the lack of appreciation for objective scientific facts and analysis. In turn, this has led to portions of our citizenry losing trust in our government and research institutions and concern about threats to our democracy. What do these developments imply for Applied Economics analysis and the concomitant development of statistical evidence? While there are implications at the individual economist level, it is an especially critical time for institutions to consider their role in promoting fact-based information, and for the discipline, at large, to consider the issues. This session will explore how the major institutions whose missions align with the scope of the issues of focus by the AAEA—agriculture, food, rural development, and the environment—can address the challenge to meet their mission of public service.

Organizers: Mary Clare Ahearn, Economic Consultant; Neilson C. Conklin, Farm Foundation; Robbin Shoemaker, National Institute of Food and Agriculture

Moderator: Helena Bottemiller Evich, Politico

Universities of the Future and Implications for Applied Economists

Michael Martin, *Florida Gulf Coast University*

Future Needs of Government Statistical and Program Agencies for Applied Economic Analysis

Katherine S. Evans, *American Economic Association*

Policy Decisions in the Private Sector—Need For Analytical Support

Robert Young II, *Agricultural Prospects*

University Economists as Providers and Interpreters of Evidence-Based Scientific Advice to Government Agencies

Kevin J. Boyle, *Virginia Tech*

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

1025 Increasing Student Engagement and Attracting Talent in a Changing Academic Environment - Lightning Session *M301, Marquis Level*

Track Session - AEM & TLC Sections

Demand for well-trained college graduates with a degree from agricultural programs continues to increase. An estimated 57,900 high-skilled job openings in the food, agriculture, renewable natural resources, and environment fields are added annually in the United States (USDA, 2015). How can we successfully attract and retain talent, and engage our students in agriculture in a meaningful way under changing academic structures that often mean larger class sizes or moving instructions online? More specifically, how can we use technology to foster hands-on experiences, utilize peer learning to stimulate student interest, and use group projects to allow students to tackle real world problems? Teaching scholars will share their experiences to provide answers to these questions. Presenters will share specific teaching approaches embedded in a moderated discussion that allows audience members to actively engage with all session participants.

Organizers: Kristin Kiesel, University of California, Davis; Katherine M. Lacy, University of Nevada, Reno

Moderator: Kristin Kiesel, University of California, Davis

Interacting with Agricultural Policy: The Use of Twitter to Stimulate Student Interest and Engagement with Agriculture, Enhance Critical Thinking, and Promote Effective Communication

Julianne Treme, North Carolina State University

Teach Locally, Ag. Globally: Assessment of Three Classroom Practices to Engage Students in Global Agriculture

Na Zuo, University of Arizona; **Anna Josephson**, University of Arizona; **Dan Scheitrum**, University of Arizona

The Farm Credit Fellows Program: Collaborations with Industry to Enhance Learning

Erik Hanson, North Dakota State University; **Ryan Larsen**, Utah State University

Peer-Based Learning: The Use of Group Projects, Clickers, and Instructional Videos to Increase Student Engagement in Large Classes

Kristin Kiesel, University of California, Davis

Skill Builders: Using Small Group In-Class Assignments for Enhanced Learning and More Meaningful Lectures in Large Classes

Andrew P. Barkley, Kansas State University

Minimizing Chaos: Teaching with Experiments in Large Classes

Katherine M. Lacy, University of Nevada, Reno

Increased Student Involvement in Online Classes: The Use of Diverse Student Evaluation Tools

Luis M. Peña-Lévano, University of Florida

Putting EdTech to the Test: Experiences with the AI-assisted Discussion Board Tool Packback

Zoë Plakias, The Ohio State University; **Anna Parkman**, The Ohio State University

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

1026 Novel Experimental Approaches Exploring Factors Influencing Consumer Choices of Healthier Food Options M102, Marquis Level

Invited Paper

This session is designed to focus on latest developments in the experimental approaches investigating consumer choices of healthier food options. The overall focus of the session is how novel experimental approaches can help in exploring the determinants of healthier food consumption. This session will be devoted to the discussion of the following three main topics: (1) a meal-based experimental approach, where consumer demand is elicited through a novel experimental setting; (2) consumer acceptance of burgers with substituted meat under different information scenarios; and (3) the influence of dynamic feedback on fast food choices.

Moderator: Jutta Roosen, Technical University of Munich

Discussant: Nadia A. Streletskaya, Oregon State University

Assessing Consumer Demand for Plant Versus Meat-Based Foods: A Meal-based Food Choice Experiment Approach

Vincenzina Caputo, Michigan State University; Jayson L. Lusk, Purdue University

Factors Influencing Consumers Acceptance of A New Meat-Mushroom Burger

Giovanni Sogari, University of Parma; Jie Li, Cornell University; Michele Lefebvre, Cornell Dining; Shihua Huang, Cornell University; Cristina Mora, University of Parma; Miguel I. Gomez, Cornell University

See What You Eat: Fast-food Choices of Young Adults in an Experiment with Dynamic Feedback

Irina S. Dolgoplova, Technical University of Munich; Jutta Roosen, Technical University of Munich

1027 Agricultural and Food Supply Chain Dynamics under Changing Market and Policy Environments: Leveraging New Data and Geographic Approaches to Explore Employment Dynamics M103, Marquis Level

Organized Symposium

The food and agriculture supply chain has undergone remarkable evolution over the past three decades. This session highlights how researchers are utilizing relatively new or enriched economic data that enhance publicly available sets, all of which take unique approaches to study the evolution of geographic dynamics of upstream and downstream agricultural and food supply chains. One panelist will present work on the locational determinants of food manufacturing across the U.S., exploring how farm-based direct sales and other indicators of local food systems may spillover into the birth rate of food manufacturing establishments. Another panelist will explore whether a relatively recent food market policy intervention, Cottage Food laws, may influence the birth rate, survival and/or employment growth of food manufacturers in those states where they have been enacted. Subsequent discussion will highlight future directions for the work with food manufacturing, retail and food-away-from home data including opportunities for work in agribusiness, rural development and geographic elements of industrial organization.

Organizer: Dawn D. Thilmany McFadden, Colorado State University

Moderator: Dawn D. Thilmany McFadden, Colorado State University

Discussant: Dawn D. Thilmany McFadden, Colorado State University

The Geography of Foodies: Exploring the Influence of Place-based Factors on the Relocalization and Employment Dynamics of Food Manufacturing Establishments

Sarah A. Low, University of Missouri; Dawn D. Thilmany McFadden, Colorado State University; Marcelo J. Castillo, USDA Resource and Rural Economics Division; Martha Bass, University of Missouri

Do Cottage Food Laws Reduce Barriers to Entry for Food Manufacturers?

Jeffrey K. O'Hara, USDA-Agricultural Marketing Service; Dawn D. Thilmany McFadden, Colorado State University; Marcelo J. Castillo, USDA Resource and Rural Economics Division

Economic Dynamism: Comparing Urban and Rural Regions of the United States Author(s), Including Institutional Affiliation and Contact Information:

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

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

1028 The Role of Economic Theory in Empirical Analysis

M101, Marquis Level

Organized Symposium

This session explores the role of economic theory in empirical analysis. Each presenter will begin with some general comments on the role of theory in empirical analysis, and then present a research paper to illustrate how the theory informs the empirical analysis. The presentation would not focus on the theoretical model per se nor the empirical results, but rather on how the one informs the other, i.e., the link between the two.

Organizers: Corbett Grainger, University of Wisconsin-Madison; JunJie Wu, Oregon State University

Moderator: JunJie Wu, Oregon State University

Combining Theoretical and Empirical Analysis to Evaluate Voluntary Environmental Programs with Spillover Effects

Kathleen Segerson, *University of Connecticut*

The Role of Theory for the Modern Empirical Researcher

David A. Keiser, *Iowa State University*

Quantifying Heat Waves and Their Effect on Economic Activity

Steve Miller, *University of Minnesota*

1029 Ag Finance and Farm Management - Issues in Farmland Valuation and Cash Rents

Suite 3824, 38th Floor

Selected Presentation

This session will cover issues concerning farmland valuation and cash rental rates.

Preferential Agricultural Property Tax's Impact on Land Values

Robert Dinterman, *The Ohio State University*

Revisiting the Incidence of Government Programs on Illinois Cash Rental Market

Juo-Han Tsay, *University of Illinois at Urbana-Champaign*; **Nick Paulson**, *University of Illinois at Urbana-Champaign*

Factors Affecting Heterogeneous Agricultural Land: The Case of Kentucky

GwanSeon Kim, *University of Kentucky*; **Tyler B. Mark**, *University of Kentucky*

1030 Consumer Preferences and Willingness-to-Pay for Product Attributes

Suite 3839, 38th Floor

Selected Presentation

Attributes affect the prices that consumers are willing to pay for products. Understanding how product attributes affect demand for and prices of foods has implications for food regulations in the United States and other countries. This session examines the effects of product attributes on price premiums and price sensitivity.

Moderator: Jonathan G. Malacarne, University of California, Davis

U.S. Demand for Plant-Based Dairy Alternative Beverages: A Hedonic Metric Approach

Ye Su, *University of Nebraska-Kearney*; **Tingyi Yang**, *Texas A&M University*; **Senarath Dharmasena**, *Texas A&M University*

Look Inside a Seed: An Analysis of the Demand of Traits in the U.S. Corn Seed Market

Huichun Sun, *Zhongnan University of Economics and Law*; **Terrance M. Hurley**, *University of Minnesota*

Measuring Consumer Preference for Clean Label in Processed Foods

Kara R. Grant, *Washington State University*; **Karina Gallardo**, *Washington State University*; **Jill J. McCluskey**, *Washington State University*

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

1031 Food Security in Developing Areas

Suite 3919, 39th Floor

Selected Presentation

The number of hungry people is approaching one billion, and essentially all of those people live in developing areas. A high proportion of income is devoted to food consumption in these countries. The promising news is that well-targeted interventions have the ability to make a large impact. This session combines seven studies from various countries to examine the effectiveness of several interventions, which will provide attendees with a robust understanding of how to increase food security in developing areas.

Moderator: Shruti Mishra, Argonne National Laboratory

Does Food Insecurity Cause Civil War in Sub-Saharan Africa?

Ashok K. Mishra, Arizona State University; **Sébastien Mary**, University of Kansas

Impact of Agricultural Input Subsidies on Food Security: The National Agricultural Input Voucher Scheme in Tanzania

Srabashi Ray, Oregon State University

Food Security Options for Ethiopia: A Fuzzy Logic Approach

Precious M. Tshabalala, Universiti Putra Malaysia; Shaufique F. Siddique, Michigan State University

Entrepreneurship and Household Food Security in Malawi

Henry Kankwamba, University of Bonn; Lukas Kornher, University of Kiel

Association Between Iron Deficiency Anemia and Wages in India: A Secondary Data Analysis

Sanchit Makkar, St. John Research Institute; Sumedha Minocha, St. Johns Research Institute; Kishor G. Bhat, St. Johns Research Institute; Anjaly Teresa John, St. Johns Research Institute; Sumathi Swaminathan, St. Johns Research Institute; Tinku Thomas, St. Johns Medical College; Venkatesh Mannar, University of Toronto; Anura V. Kurpad, St. Johns Medical College

Market Participation of Nepalese Staple Crop Producers and the Value Of Shadow Prices

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

1032 Farm to School Program and Food Security

Suite 3924, 39th Floor

Selected Presentation

Increasing fruit and vegetable consumption is challenging for the average individual. The challenge is amplified for children and citizens in remote locations. Policies, like subsidies, and programs, like Farm-to-School, should either increase quantity demanded or shift demand for fruits and vegetables by lowering prices or changing preferences. However, the effectiveness of these types of policies and program is an empirical question. This session seeks to inform attendees about the effectiveness of policies and programs designed to influence demand by increasing food security and access to nutritious foods.

Moderator: Benjamin Y. Avuwadah, University of Florida

Assessing the Effect of Food Retail Subsidies on the Price of Food in Remote Aboriginal Communities: A Case Study of Canada's Nutrition North Subsidy Program

Jamie M. Naylor, University of Guelph; B. James Deaton Jr., University of Guelph

The Impacts of Introducing a Farm to School Program on National School Lunch Program Participation and Selection of Salads

Benjamin Y. Avuwadah, University of Florida; Jaclyn D. Kropp, University of Florida

Farm-to-School Programs and Local Agricultural Revenues

Garrett W. Austin, Georgia State University

Optimal Local Foods Procurement in the National School Lunch Program: An Analysis of Potential Impacts of Farm to School Policies on Procurement Practices.

Abby Long, Colorado State University; Becca B. R. Jablonski, Colorado State University; Marco Costanigro, Colorado State University; W. Marshall Frasier, Colorado State University

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

1033 The Economics of Nutritional Outcomes in Developing Countries

L401, Lobby Level

Selected Presentation - Discussant Test Session

In developing countries access to higher quality nutrition can be influenced by market access, prices, policies, environmental conditions, even household context. In this session, the papers address the role of food subsidies, soil quality, remoteness, and refrigerators in shaping nutritional outcomes or health endpoints. Collectively, these papers point to ways that current or future policies and programs can improve the wellbeing of individuals in developing countries.

Moderator: Mariah D. Ehmke, University of Wyoming

Do Food Subsidies Improve Nutrition?

Aditya Shrinivas, *University of Illinois at Urbana-Champaign*

Soils and South Asian Stunting: Low Soil Zinc Availability Drives Child Stunting in Nepal

Kichan Kim, *The Ohio State University*; **Leah EM Bevis**, *The Ohio State University*

Do remote Rural People Pay Higher Prices for more Nutritious Foods? Evidence from 130,975 Price Observations at Rural Markets in Malawi, 2007-2017

Stevier Kaiyatsa, *Lilongwe University of Agriculture and Natural Resources*; **William A. Masters**, *Tufts University*; **Yan Bai**, *Tufts University*; **Kate Schneider**, *Tufts University*; **Anna Herforth**, *Independent Consultant*

Childhood Development and Nutrition: What is the Role of Refrigerators?

Sebastian W. Martinez, *Inter-American Development Bank*; **Juan M. Murguía**, *Inter-American Development Bank*; **Sara S. Winters**, *Inter-American Development Bank*; **Brisa Rejas**, *Inter-American Development Bank*

1034 Intra-Household Labor Allocation and Bargaining

Suite 3934, 39th Floor

Selected Presentation

This session examines how farm households make labor and resource allocation decisions and various aspects of intra-household bargaining.

Moderator: Matthew J. Klein, University of Wisconsin-Madison

Crop Loss Shocks and Intra-household Labour Allocation of Husbands and Wives; Evidence from Uganda

Peter Agamile, *The University of Manchester*

Point Estimates of Bargaining Power Using Outside Options

Matthew J. Klein, *University of Wisconsin-Madison*; **Bradford L. Barham**, *University of Wisconsin-Madison*

The Intra-Couple Wealth Gap in Ecuador

Boaz Anglade, *University of Florida*; **Pilar Useche**, *University of Florida*

Behind Every Farmer: Women's Off-farm Income and Risk Management for U.S. Farms

Margaret C. Jodlowski, *Cornell University*

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

1035 Industrial Organization/Supply Chain Management - Lightning Session

Suite 3939, 39th Floor

Selected Presentation - Lightening Session

This session discusses the latest theoretical and empirical findings in industrial organization/supply chain management.

Moderator: Ian M. Sheldon, The Ohio State University

Dynamic Model of Mergers and Pricing in the Beer Industry

Timothy J. Richards, Arizona State University; **Bradley J. Rickard**, Cornell University

Designing Vertical Linkages to Reduce Food Loss

Alwin Dsouza, Arizona State University; **Scott Webster**, Arizona State University; **Ashok K. Mishra**, Arizona State University

Price Premium for Geographically Labelled Food: The Case of the Wisconsin Fresh Potatoes

I-Chun Chen, University of Wisconsin-Madison; **Paul D. Mitchell**, University of Wisconsin-Madison; **Xiaodong Du**, University of Wisconsin-Madison

Farmers, Traders, and Processors: Estimating the Welfare Loss from Double Marginalization for the Indonesian Rubber Sector

Thomas Kopp, University of Göttingen; **Richard J. Sexton**, University of California, Davis

Brexit: Will it be a Game of 'Chlorinated Chicken'?

Ian M. Sheldon, The Ohio State University

Competing with Fad Products: Erroneous Health Beliefs and Market Outcomes

Christoph Bauner, University of Massachusetts, Amherst; **Nathalie Lavoie**, University of Massachusetts, Amherst

The Effect of Public Online Disclosure of Restaurant Inspection Hygiene Scores in the LIVES program: A Difference-in-Difference and Geographic Regression Discontinuity Approach

Shuiqin Yu, Colorado State University; **Marco Costanigro**, Colorado State University

Economic Analysis of Oklahoma's Potential as a Bioenergy Producer Based on the Optimization of a Blended Lignocellulosic Biomass Feedstock Supply Chain

Heydi J. Calderon Ambelis, Oklahoma State University; **Rodney B. Holcomb**, Oklahoma State University

1036 International Development - Climate Change

Suite 4003, 40th Floor

Selected Presentation

These papers study the effects of climate change on agriculture, nutrition, firm activity, and conflict.

Moderator: Aslihan D. Spaulding, Illinois State University

Temperature & Children's Nutrition: Evidence from West Africa

Sylvia Blom, Cornell University; **Ariel Ortiz-Bobea**, Cornell University; **John Hoddinott**, Cornell University

Climate and Tropical Cyclone Effects on Economic Activity: Evidence at the Firm Level from Mexico

Miriam Juarez-Torres, Bank of Mexico; **Jonathan E. Puigvert**, Bank of Mexico

Does irrigation Mitigate the Effect of Rainfall Shocks on Conflict? Evidence from Indonesia

Nicolas Gatti, University of Illinois at Urbana-Champaign; **Kathy Baylis**, University of Illinois at Urbana-Champaign; **Benjamin Crost**, University of Illinois at Urbana-Champaign

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

1037 International Trade - Trade Impacts on Food Security

Suite 4019, 40th Floor

Selected Presentation - Discussant Test Session

This session discusses the impact of trade on food security in developing countries.

Moderator: Bowen Chen, Kansas State University

Political Instability, Food Supply Disruptions and Food Security in a Highly Import-dependent Economy

Simeon Kaitibie, Lincoln University; **Patrick Irungu**, University of Nairobi

The Asymmetric Effects of Foreign Supply Shocks on Domestic Price Stability: An Application to Maize Markets in Developing Countries

Bowen Chen, Kansas State University; **Nelson B. Villoria**, Kansas State University

Trade Dynamics and Duration of Chinese Food Imports

Bixuan Yang, University of Florida; **Frank Asche**, University of Florida; **James L. Anderson**, University of Florida

Southeast Asia's Growing Meat Demand, Livestock Production and Feed Demand: Assessing Impact on Domestic and Global Trade Markets

Karen E. Thome, USDA-Economic Research Service; **James M. Hansen**, USDA-Economic Research Service; **Tani Lee**, USDA-Economic Research Service

1038 Conservation and Payments for Ecosystem Services

Suite 4024, 40th Floor

Selected Presentation

This session includes a mix of papers on conservation policy and payments for ecosystem services schemes. While some analyses focus on policy design, others focus on outcomes such as food security.

Moderator: Serge G. Adjognon, The World Bank Group

Worshipping the Tiger: The Importance of Existence Values for Conservation Policies

Shadi S. Atallah, University of New Hampshire; **Adrian Lopes**, Bates College

Optimal Conservation in A Public Agency Framework

Ian H. Luby, University of Minnesota

Can Payments for Ecosystem Services (PES) Deliver Food Security Outcomes?

Serge G. Adjognon, The World Bank Group; **Daan Van Soest**, Tilburg University

Spatial Targeting of Payments for Ecosystem Services Under Growth Uncertainties

Seong-Hoon Cho, University of Tennessee; **James Mingie**, University of Tennessee

1039 Agricultural Productivity and Growth

Suite 4039, 40th Floor

Selected Presentation

Papers in this session examine the growth in agricultural productivity and various factors impacting the growth.

Moderator: David C. Hall, University of Calgary

Is Global Agriculture Growing More Resilient to Climatic Shocks?

Ariel Ortiz-Bobea, Cornell University; **Robert G. Chambers**, University of Maryland; **David Lobell**, Stanford University

Has Agricultural Yield Growth Decelerated?

John Baffes, World Bank; **Xiaoli L. Etienne**, West Virginia University

Induced Innovation in South American Agriculture: Acemoglu's Directed Technical Change

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

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

1040 Environmental Policy Analysis - Lightning Session

Suite 3903, 39th Floor

Selected Presentation - Lightning Session

This lightning session includes papers that evaluate policies and programs targeting household waste and recycling, carbon dioxide reduction, water conservation, air pollution, biofuels, and hidden surprises in housing markets.

Moderator: Hou Lingling, Peking University

Underground Lemons: The Effect of Time of Sale Regulations on the Housing Market

April Athnos, Michigan State University

Waste Reduction from a Mandatory Recycling and Unit-Based Pricing: Quasi-experimental Evidence from Taiwan

Yu-Kai Huang, Texas A&M University; Reid Stevens, Texas A&M University; William D. Shaw, Texas A&M University

Climate Change Policy: Dynamics, Strategy, and the Kyoto Protocol

Saleh Zakerinia, Cornell University; C.-Y. Cynthia Lin Lawell, Cornell University

Bioplastics and Biofuel Policy in the EU – Impacts and Interactions

Xinqi Zhu, Technical University of Munich; Johannes Sauer, Technical University Munich; Thomas J. Venus, Technical University Munich; Maria Vrachioli, Technical University of Munich; Dušan Drabik, Wageningen University

Biofuels Policy and Innovation Impacts: Evidence from Biofuels and Agricultural Patent Indicators

Kelly Nelson, North Carolina State University; Zachary S. Brown, North Carolina State University; Lee Parton, Boise State University

The Energy-Water Nexus in Developing Country Agriculture: Equity-Efficiency Tradeoffs of Electricity Tariff Reform

Juan Pablo Sesmero, Purdue University; Jonathan Bauchet, Purdue University

The Impact of High Renewable Energy Mandates on Water Use in Electricity Generation

Michael E. Reed, West Virginia University; Levan Elbakidze, West Virginia University

Solar Initiatives in the Sunshine State: Analysis of 2016 Florida Amendment Votes

Ritika Khurana, West Virginia University; Levan Elbakidze, West Virginia University

1041 Energy Market and Regulations

Suite 3819, 38th Floor

Selected Presentation - Discussant Test Session

Papers in this section focus on energy market and the impact of various regulations on the market.

Moderator: Iman Haqiqi, Purdue University

Costs of Energy Efficiency Mandates Can Reverse the Sign of Rebound

Don Fullerton, University of Illinois at Urbana-Champaign; **Chi L. Ta**, University of Illinois at Urbana-Champaign

Effect of Transmission Integration on Prices of Congestion Revenue Rights: Evidence from the Texas Electricity Market

Gaurav Doshi, University of Wisconsin-Madison; Sheldon Du, University of Wisconsin-Madison

What Drives the Effects of Renewable Portfolio Standards on Emissions and Renewable Deployment?: Theory and Empirical Analysis

Fullerton Don, University of Illinois at Urbana-Champaign; **Chi L. Ta**, University of Illinois at Urbana-Champaign

Repeal of the Clean Power Plan: Who Gains and Who Loses?

Xiaoguang Chen, Southwestern University of Finance and Economics; Weiwei Wang, University of Illinois at Urbana-Champaign; Anthony Oliver, South Coast Air Quality Management District; **Madhu Khanna**, University of Illinois at Urbana-Champaign

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

1042 Social Norms and Social Networks in Agricultural Markets and Technology Adoption

M302, Marquis Level

Track Session - Africa & International Sections

Papers in this session explore the role of social networks and social norms in agricultural market development and technology adoption. Using a combination of theoretical analysis, lab-in-the field methods, and randomized controlled trials, these papers test for the presence of social interaction effects and assess the importance of such forces. The first paper focuses on the role of cooperative-enhancing norms in Haitian water markets; the second paper considers inequality-averse social norms in land markets in Malawi; the third paper considers gender-dependent social networks and their role in demand for a new agricultural technology in India; and the fourth paper studies links between social networks and altruism, and how these links affect sharing between farmers in Ghana.

Organizer: Hope Michelson, University of Illinois at Urbana-Champaign

Moderator: Bradford L. Barham, University of Wisconsin-Madison

Collective Action in Games as in Life: Experimental Evidence from Canal Cleaning in Haiti

Abbie Turiansky, *Mathematica*

Social Norms in the Land Rental Market: Evidence from Malawi

Kwabena Krah, *University of Illinois at Urbana-Champaign*; Hope Michelson, *University of Illinois at Urbana-Champaign*; Annemie Maertens, *University of Sussex*; Wezi Mhango, *Lilongwe University of Agriculture and Natural Resources, Malawi*; Vesall Nourani, *Cornell University*

Information Networks, Intra-household Bargaining, and the Demand for an Agricultural Technology in India

Kajal Gulati, *IMPAQ International, LLC*; Nicholas Magnan, *University of Georgia*; David J. Spielman, *International Food Policy Research Institute*; Travis J. Lybbert, *University of California, Davis*

Altruism, Insurance, and Costly Solidarity Commitments

Christopher B. Barrett, *Cornell University*; Vesall Nourani, *Cornell University*; Tom Walker, *The World Bank*

1043 Farm Regulation and the Agricultural Economy

M104, Marquis Level

Track Session - AUS Section

California agribusinesses face increasingly burdensome regulations. This session describes several regulatory studies underway in California. The first presents a broad overview of the regulatory environment in the San Joaquin Valley, the most productive agricultural region in the U.S., and compares the regulatory cost changes between 2012 and 2018. Another presentation analyzes the implications of the Sustainable Groundwater Management Act, California's first effort to regulate groundwater. SGMA is administered by local Groundwater Sustainability Agencies, which will bear the cost of regulation. Finally, a structural change in dairy policy that allows California to abandon its milk marketing order and join the Federal MMO is examined. This presentation explores whether California dairy producers' prospects improve or further deteriorate under the new Federal milk price system, and whether a dairy market free of pricing regulations would be a better option.

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

The Changing Landscape of California Agriculture: Implications of Increasing Regulatory Costs

Michael P. McCullough, *California Polytechnic State University, San Luis Obispo*; Lynn L. Hamilton, *California Polytechnic State University, San Luis Obispo*

California's SGMA Legislation: New Regulations, New Costs

Duncan MacEwan, *ERA Economics LLC*; Kabir Tumber, *University of California, Davis*; Richard E. Howitt, *University of California, Davis*; Jay Noel, *ERA Economics*

Shifting Price Regulations Affected California Dairy Outcomes and Prospects? From C-MMO to F-MMO and What About NO-MMO?

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

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

1044 Broadband and Rural America

M108, Marquis Level

Track Session - AFT & CRENET Sections

While evidence is growing about the economic and social importance of broadband in rural locations, many questions still remain. Very high speed networks are becoming common, and mobile Internet use has overtaken the traditional wireline connection. This session explores a variety of issues associated with rural broadband, including if faster speeds encourage business startups; whether housing prices in rural areas show a broadband premium; the socio-economic impacts associated with rural library hotspot loan programs; and whether a rural/urban digital skill gap exists. The rural library and digital skills papers have explicit links to extension work, where county educators are important components in setting up and running programs. The findings related to other aspects of economic development (housing prices, business growth) will be useful for extension and research personnel seeking a better understanding of the implications of being left behind in an increasingly connected world.

Organizer: Brian E. Whitacre, Oklahoma State University

Home is Where the Internet Is? High Speed Internet's Impact on Rural Housing Values in Oklahoma
*Kelsey L. Conley, Oklahoma State University; **Brian E. Whitacre**, Oklahoma State University*

Rural Library Hotspot Lending in Tennessee
Sreedhar Upendram, University of Tennessee

Broadband and Entrepreneurship: Do Faster Speeds Mean More Start-Ups?
*Tessa Conroy, University of Wisconsin-Madison; **Steven C. Deller**, University of Wisconsin-Madison; Brian E. Whitacre, Oklahoma State University*

The Digital Readiness Index: Documenting a Rural – Urban Gap in Digital Skills
Roberto Gallardo, Purdue University

1045 How Should Econometrics Be Taught?

M105, Marquis Level

Track Session - Econometrics Section

There has been a great deal of discussion how econometrics should be taught following Angrist and Pischke's (2017) NBER working paper on this topic. The goal of this session is to present a discussion between econometrician Dave Giles (University of Victoria) and Marc Bellemare (University of Minnesota), both of whom are known for writing accessibly about econometrics. More importantly, they are known respectively for being against and for the "cookbook" approach to teaching econometrics. Given that the comparative advantage of many agricultural and applied economics departments within their home institution is in the application of econometrics, what is the right balance between the two approaches for students in those departments? This session will address those issues in opening remarks by both presenters (40 minutes), and it will feature an extensive Q&A session with the audience (50 minutes).

Organizer: Marc F. Bellemare, University of Minnesota

Against the Cookbook Approach to Econometrics
Dave Giles, University of Victoria

In Favor of the Cookbook Approach to Econometrics
Marc F. Bellemare, University of Minnesota

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

1046 Recent Advances in Regional and Global GIS Modeling to Determine Land-use and Greenhouse Gas Emissions

M301, Marquis Level

Track Session - ENV Section

Use of Geographic Information System (GIS) data by agricultural economists has significantly increased over the past decade. Policy analysis for land-use, ecosystem services, and water is linked to location and distance. We bring together researchers who use GIS at the global, regional, and local level to conduct environmental policy analysis. Kurkalova et al. use the GIS-based Cropland Data Layer (CDL) to determine land-use transitions probabilities in North Carolina. Carriquiry et al. illustrate the use of global GIS data to improve agricultural trade models to determine land-use change effects and greenhouse gas emissions. Baylis et al. use bi-weekly geocoded SMS-survey results to develop a spatial diffusion model of Fall Army Worms, an invasive pest from South America spreading into Africa. Liu et al. present an integrated spatial model of agricultural land management and the Lake Erie watershed to predict phosphorus run-off.

Organizer: Jerome Dumortier, Indiana University, Purdue University Indianapolis

Moderator: Jerome Dumortier, Indiana University, Purdue University Indianapolis

The Intensity of North Carolina Cropland Use

Justice Darko, North Carolina A&T State University; Lyubov A. Kurkalova, North Carolina A&T State University

Importance of Sub-National Spatial Economic Modeling in Brazil in Evaluating Sugarcane and Corn Ethanol Policies

Miguel A. Carriquiry, Universidad de la República, Ciencias Economicas; Amani E. Elobeid, Iowa State University; Jerome Dumortier, Indiana University, Purdue University Indianapolis

Effect of a Hungry Invasive: The Impact of the Introduction of Fall Army Worms in Sub-Saharan Africa

Kathy Baylis, University of Illinois at Urbana-Champaign; Tom Evans, University of Arizona; Protensia Hadunka, University of Illinois at Urbana-Champaign; Esther Ngumbi, University of Illinois at Urbana-Champaign

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; Noel Aloysius, University of Missouri; Jay Martin, The Ohio State University

1047 Changing Needs for Farm Management Education in the Future

M107, Marquis Level

Track Session - EXT Section

The needs of farmers in the future will evolve as structural change occurs in the agricultural sector. Moreover, demands will be placed on farmers as the public demands more environmentally-friendly production. Three topics will be presented: 1. Increasing the value of data from farm business management associations. This presentation will discuss reductions in public Level data, increasing production data capture, the emergence of big data, and needs for farm management associations to change. 2. Meeting changing public demands for sustainability. This presentation will discuss desires for sustainability, desires for increases in water quality, and needs for education to farmers in the face sustainability demands by the public. 3. Meeting changing landowner desires for managing their farmland. This presentation will discuss views of landowners on conservation, availability of farm management information, and skills farmers will need in dealing with detached landowners.

Organizer: Gary D. Schnitkey, University of Illinois at Urbana-Champaign

Moderator: Gary D. Schnitkey, University of Illinois at Urbana-Champaign

Increasing the Value of Data from farm Business Management Associations

Joleen C. Hadrich, University of Minnesota; Gary D. Schnitkey, University of Illinois at Urbana-Champaign

Meeting Changing Public Demands for Sustainability

Raymond E. Massey, University of Missouri; **Alejandro Plastina**, Iowa State University

Meeting Changing Landowner Desires for Managing their Farmland

Mykel R. Taylor, Kansas State University; Michael R. Langemeier, Purdue University

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

1048 SNAP Recipient Behavior and Benefit Cycles, Price Variation, and Foods Purchased

M303, Marquis Level

Track Session - FAMPS & FSN Sections

SNAP is the largest food assistance program in the U.S. and provides benefits for over 20 million households. While empirical evidence shows that SNAP reduces food insecurity, food insecurity measures may be inaccurate, regional price variation may affect program efficacy, and the diets of those on SNAP do not meet national standards. In this session we expect to shed light on these issues. In the first paper, researchers will discuss how the SNAP benefit cycle may bias responses to food security questionnaires. In the second papers, researchers will show how price variation across the U.S. affects purchasing power of SNAP dollars. Researchers in the third presentation will measure the time required for SNAP recipients to adopt diets that meet national standards. In the last presentation, researchers will show how changes in SNAP benefits affects the types of foods purchased.

Organizer: Andrew Hanks, The Ohio State University

Moderator: Andrew Hanks, The Ohio State University

Framing, Food Insecurity, and the SNAP Cycle

Christian A. Gregory, USDA-Economic Research Service; **Jessica E. Todd**, USDA-Economic Research Service

The Real Value of SNAP Benefits and its Impact on Food Expenditures and Food Security of SNAP Participants

Xinzheng H. Cheng, USDA-Economic Research Service; **Young Jo**, USDA-Economic Research Service; **Jiyoon Kim**, Indiana-Purdue University Fort Wayne

A SNAP Benefit Adequacy Profile Investigation

George C. Davis, Virginia Tech; **Wen You**, Virginia Tech; **Young Jo**, USDA-Economic Research Service

The Effect of SNAP Benefit Changes on Foods Purchased

Yiting Lan, The Ohio State University; **Andrew Hanks**, The Ohio State University; **Scott Colby**, SUNY Morrisville

1049 The First Year Transition - Insight from New Faculty

M303, Marquis Level

Track Session - GSS Section

For many graduate students, preparing for the job market and securing a position can be challenging. But what happens after you land the job? This track session assembles early-career faculty with experiences in teaching, research, extension and service to provide tips and share insight on how to make the transition from graduate student to assistant professor. This session will be beneficial to attendees have been recently hired at their first job or those seeking insight on how to be a stronger job market candidate.

Organizers: Logan L. Britton, Oklahoma State University; William E. Maples, Oklahoma State University

Moderator: William E. Maples, Oklahoma State University

Insight on Research

Leah H. Palm-Forster, University of Delaware

Insight on Extension

Brittney K. Goodrich, Auburn University

Insight on Teaching

Jacob Manlove, Tarleton State University

Insight in General

Andrew W. Stevens, Mississippi State University

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

1050 Agriculture, Food and Public Health: Seeing Connections

Suite 3803, 38th Floor

Track Session - International & Senior Sections

AAEA Members are working on research, extension or policy that involve protection or improvement of human health. This session brings together topics that are investigated by both agricultural and health economists. Various methods and data sources are used to assess burden of diseases in both domestic and international settings. This session will demonstrate how CDC data is used by academic researchers, how CDC datasets are created, and how other data sources can be used to assess issues that affect public health and agriculture.

Organizer: Gabrielle Miller, Centers for Disease Control and Prevention

Moderator: Gabrielle Miller, Centers for Disease Control and Prevention

The Burden of Zoonotic Diseases: Panel Data Evidence from Rural Kenya

Thomas L. Marsh, *Washington State University*

How Scanner Data Can Aid Understanding of Foodborne Disease Patterns in the U.S

Sandra Hoffmann, *USDA-Economic Research Service*; **Lydia Ashton**, *University of Wisconsin-Madison*; **Jessica E. Todd**, *USDA-Economic Research Service*

Characteristics of Vending Machines available to Students in U.S. Schools

Caitlin Merlo, *Centers for Disease Control and Prevention*; **Georgianne Tiu**, *The Centers for Disease Control and Prevention*; **Zewditu Demissie**, *Centers for Disease Control and Prevention*; **Nancy Brener**, *Centers for Disease Control and Prevention*; **Sarah Lee**, *Centers for Disease Control and Prevention*; **Sohyun Park**, *Centers for Disease Control and Prevention*; **Adina Cooper**, *Centers for Disease Control and Prevention*

Do Increases in Minimum Wage Affect Enteric Disease Incidence?

Qihua Qiu, *Centers for Disease Control and Prevention*; **Beau Bruce**, *Centers for Disease Control and Prevention*; **Sam Crowe**, *Centers for Disease Control and Prevention*; **Aimee Geissler**, *Centers for Disease Control and Prevention*

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

1051 Getting Food Taxes Right

M102, Marquis Level

Invited Paper

The unhealthy and excessive consumption of food in general and meat in particular have generated concerns surrounding their environmental effects. The aim is to establish a theoretical and empirical foundation for shifting the literature toward an efficient food-consumption trajectory. Only then can we develop economic and environmental efficient policies.

Moderator: Timothy A. Park, USDA-Economic Research Service

Discussant: Glynn T. Tonsor, Kansas State University

Toward Optimal Meat Consumption

*Jonathan W. Lawing, Purdue University; Bhagyashree Katare, Purdue University; Timothy A. Park, USDA-Economic Research Service; Na Hao, Beijing Technology and Business University; Holly Wang, Purdue University; **Michael E. Wetzstein**, Purdue University*

Are Obese Consumers Less Responsive to Price (Dis)incentives?

Chen Zhen, University of Georgia; *Biing-Hwan Lin, USDA-Economic Research Service; Lisa Mancino, USDA-Economic Research Service; Shelly Ver Ploeg, USDA-Economic Research Service; Yu Chen, University of Georgia*

Food Tax and Food Insecurity: What is the Connection?

*Jason Zhao, Cornell University; **Yuqing Zheng**, University of Kentucky; Harry M. Kaiser, Cornell University; Norbert L.W. Wilson, Tufts University; Steven C. Buck, University of Kentucky; Shaheer XBurney, University of Wisconsin, River Falls*

1052 Economic Methods in Public Health at the Centers for Disease Control and Prevention (CDC)

L402, Lobby Level

Organized Symposium

We will discuss how applied economics methodologies can, and have, been used to generate essential information for public health decision makers. These topics include public health emergency, infectious diseases, vaccines, and injury prevention. This symposia will feature speakers with experience in public health, and they will describe how they have used applied economics methodologies to produce essential information for leadership. These methods are ultimately published and contribute to the field in public health economics. Discussants and attendants will discuss the specific challenges and types of questions relevant in public health.

Organizer: Gabrielle Miller, Centers for Disease Control and Prevention

Panelists: *Cristina Carias, Centers for Disease Control and Prevention; Andres Leidner, Centers for Disease Control and Prevention; Gabrielle Miller, Centers for Disease Control and Prevention; Jamison Pike, Centers for Disease Control and Prevention*

1053 Reforming Cost-Benefit Analysis for Regulation: What are the Consequences?

M101, Marquis Level

Organized Symposium

This session reviews the history of C/B methods and applications, discusses alternative changes that might occur under the proposed reform, and assesses the consequences of these alternatives. This session will include a moderated discussion between the audience and the speakers.

Organizers: Otto C. Doering III, Purdue University; Leah H. Palm-Forster, University of Delaware

Moderator: Otto C. Doering III, Purdue University

A Short History of C/B Analysis and its Application

Wallace E. Tyner, Purdue University

What Are Some Suggested Changes in C/B and Their Consequences?

Cathy Kling, Cornell University

Do Current C/B Protocols Need Changing?

Ben Gramig, University of Illinois at Urbana-Champaign

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

1054 Agribusiness Economics and Management - Lightning Session

Suite 3819, 38th Floor

Selected Presentation - Lightning Session

This session includes papers that focus on wide range of topics related to agribusiness economics and management.

Moderator: Yefan Nian, University of Florida

Assessment of Crop Yield Response to Climate Change: Evidence from The Greater Midwest

Rezwanul Parvez, Community College of Denver; **Nazea H. Khan Chowdhury**, North Dakota State University

E-commerce Adoption and Rural Sustainable Livelihood Development: The Case of Smallholders in the Chinese Agro-Food Producing Sector

Yi Cai, Huazhong Agricultural University; **Chunping Xia**, Huazhong Agriculture University; **Cuicui Wang**, Huazhong Agriculture University

Success Realized from Creating a Culture of Collaboration: The Case of Midwestern Farm Family Businesses

Renee D. Wiatt, Purdue Initiative for Family Firms; **Maria I. Marshall**, Purdue University

The Impact of Roll Strategies and Commodity Futures Characteristics on Long-Only Strategies

Marjolein Verhulst, Wageningen University; **Joost M. E. Pennings**, Maastricht University / Wageningen University; **Andres A. Trujillo-Barrera**, University of Idaho; **Peter Prins**, CORMEC

The Impact of Health-Related Information on Consumers' WTP for the Food Product: Does the Format Matter?

Yefan Nian, University of Florida; **Zhifeng Gao**, University of Florida; **Junhong Chen**, University of Florida

Use of a Stochastic Production Frontier Approach to examine Gastrointestinal Nematode Management in Beef Cow-Calf Herds in Canada

David C. Hall, University of Calgary; **Philip Rasmussen**, University of Calgary

Veterinary Expenditures: What Influences Pet Owners to Spend Money at the Veterinarian's Office

Lisa A. House, University of Florida; **Matthew J. Salois**, American Veterinary Medical Association

1055 Forecasting Commodity Prices and Trading Volume

Suite 3839, 38th Floor

Selected Presentation - Discussant Test Session

Fluctuations in commodity prices continue to affect global economic activity. This session discusses forecasting in the grain and energy sectors, focusing on prices and trading volume.

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

The Signal and the Noise of Short-term Climate Forecasts: Evidence from Grain Futures Markets

Aaron D. Smith, University of California, Davis; **David Ubilava**, University of Sydney

An Alternative Method to Forecast the Season-average Producer Price for U.S. Corn

Xiaoli L. Etienne, West Virginia University; **Sara Farhangdoost**, West Virginia University; **Linwood A. Hoffman**, USDA-Economic Research Service

Wheat Futures Trading Volume Forecasting and the Value of Extended Trading Hours

Joseph Janzen, Kansas State University; **Nicolas Legrand**, French National Institute for Agricultural Research

Testing Directional Predictability Between Energy Prices: A Cross-Quantilogram Analysis

Alexandre Scarciuffolo, West Virginia University; **Xiaoli L. Etienne**, West Virginia University

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

1056 Experimental Economics - Risk, Trust and Uncertainty

Suite 3903, 39th Floor

Selected Presentation - Discussant Test Session

The first two papers present advances in measuring the effects of emotions on risk and choice under uncertainty. The last two papers evaluate the effects of social distance and trust, and quality signaling effects on trust and willingness to pay for potato planting material.

Moderator: Bachir Kassas, University of Florida

Happy to Take Some Risk: Investigating the Dependence of Risk Preferences on Mood Using Biometric Data

Bachir Kassas, University of Florida; Marco A. Palma, Texas A&M University; Maria Porter, Michigan State University

Choice Uncertainty and the Endowment Effect

Christina Korting, Cornell University; Steven G. Otto, ISO New England

Interactive Social Distance and Trust: Different Measuring Approaches Among Semi-nomadic Pastoralists in Northern Kenya

Martin C. Parlasca, University of Göttingen; Daniel Hermann, Georg-August-University Göttingen; Oliver Musshoff, Georg-August-University Göttingen

The Effect of Quality Signaling and Trust on Willingness to Pay for Potato Planting Material: A Research Study in Kenya

Brian Bartle, Michigan State University; Mywish K. Maredia, Michigan State University

1057 Land Use, Property Rights, and Agricultural Productivity

Suite 3919, 39th Floor

Selected Presentation

Papers in this session will explore drivers of agricultural productivity as they relate to land rights, land records, and the functioning of land rental markets. Do enhanced property rights improve agricultural investment and labor decisions? How does land use vary with socioeconomic drivers? This session will provide insight to those questions.

Man-Keun Kim, Utah State University

Understanding the Impact of Land Property Reform: Selection Bias, Sorting Gains, and Heterogeneous Returns

Xiaoping Zhong, Renmin University of China; Jing You, Renmin University of China, University of Cambridge

Using Marginal Lands for Bioenergy Crop Production in the Rainfed Regions of Continental U.S: Economic Potential and Environmental Benefits

Sarah Acquah, University of Illinois at Urbana-Champaign; Jiang Chongya, University of Illinois at Urbana-Champaign; Guan Kaiyu, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign

Improving the Way Land Use Change is Handled in Economic Models

Xin Zhao, Joint Global Change Research Institute, PNNL; Dominique Van Der Mensbrugghe, Purdue University; Roman M. Keeney, Purdue University; Wallace E. Tyner, Purdue University

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

1058 Wellbeing of Children and Young Adults - Lightning Session

Suite 3934, 39th Floor

Selected Presentation - Lightning Session

The papers in this lightning session tackle issues related to the health, development and wellbeing of children and young adults. Topics range from childhood development, obesity, intergenerational mobility and early labor force outcomes of youth.

Moderator: Dennis Wesselbaum, University of Otago

Kindergarten Entry Age and Household Food Insecurity: Evidence from the Early Childhood Longitudinal Study

Xiaohan Sun, University of Connecticut; **Tatiana Andreyeva**, University of Connecticut

Technical Efficiency of Food Intake Frequency on Childhood Stunting in Western Kenya

Alex Kappes, Washington State University; **Thomas L. Marsh**, Washington State University

The Effects of Heat on Cognitive Performance: Evidence from a High-Stake Exam in Brazil

Ana Paula Melo, University of Wisconsin-Madison; **Mizuhiro Suzuki**, University of Wisconsin-Madison

Does Parental Out-migration Benefit Left-behind Children's Schooling Outcomes? - Evidence from Rural China

Xiaoman Luo, University of California, Davis

Are Mobile Phone and Migration Complementary? Evidence from their Impacts on Children's Nutritional Intakes in Rural China

Xiaobing Wang, Peking University; **Shi Min**, Peking University

1059 International Development - Credit and Insurance

Suite 3939, 39th Floor

Selected Presentation

Papers in this session touch on the role of risk in household choice, how to design credit and insurance schemes, and how these schemes might improve welfare.

Moderator: Soumya Balasubramanya, International Water Management Institute

Household Decisionmaking Under Risk: Evidence from Samburu County, Kenya

Andrew Hobbs, University of California, Davis

Heterogeneous Demand and Supply for an Insurance-Linked Credit Product in Kenya: A Stated Choice Experiment Approach

Apurba Shee, University of Greenwich; **Calum G. Turvey**, Cornell University; **Ana Marr**, University of Greenwich

Optimizing Agricultural Insurance: Evidence from India

Patrick S. Ward, Duke Kunshan University; **Vartika Singh**, International Food Policy Research Institute; **Shweta Gupta**, International Food Policy Research Institute; **Ranjan Ghosh**, IIM-Ahmedabad

1060 International Development - Agricultural Development

Suite 4003, 40th Floor

Selected Presentation - Discussant Test Session

These papers cover topics related to agricultural productivity, including issues of land tenure.

Moderator: Soumya Balasubramanya, International Water Management Institute

Effect of Absent Landlords on the Land Rental Market in India

Annemie Maertens, University of Sussex; **Melanie Khamis**, Wesleyan University

Can Customary Systems of Land Tenure Facilitate Agricultural Productivity Growth? An Investigation in the West African Sahel

Yoko Kusunose, University of Kentucky; **Veronique Theriault**, Michigan State University; **Didier Y. Alia**, University of Kentucky

Spillover Effects of Agricultural Productivity: Evidence from Genetically Modified Cotton Expansion in India

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

Agricultural Growth and its Spillover Effects on Agricultural and Rural Transformation: An Analysis of Zambian Household Survey Data

Jason E. Snyder, Michigan State University; **Thomas S. Jayne**, Michigan State University; **Nicole M. Mason**, Michigan State University; **Paul C. Samboko**, Indaba Agricultural Policy Research Institute

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

1061 Bioeconomic Modeling of Pest and Invasive Species

Suite 4019, 40th Floor

Selected Presentation

Papers in this session develop spatial and dynamic bioeconomic models to evaluate the management of pests and invasive species. The studies extend current modeling techniques to incorporate uncertainty and learning in a range of applications from pollinators to wild pigs.

Moderator: Seong Do Yun, Mississippi State University

Management of Smart Invasive Species: Optimal Control of Wild Pigs with Time-limited Memory of Learning Behavior

Seong Do Yun, Mississippi State University; *Kalyn T. Coatney*, Mississippi State University; *Bronson Strickland*, Mississippi State University; *Garrett Street*, Mississippi State University

A Farm-Level Bioeconomic Model of Invasive Species Management: The Case of Spotted Wing Drosophila in Maine

D. Adeline Yeh, Cornell University; *Miguel I. Gomez*, Cornell University; *Xiaoli Fan*, University of Alberta; *Francis Drummond*, University of Maine

Farm and Landscape-level Trade-offs Between Pest Control and Pollination Service Provision: The Case of Neonicotinoid Insecticides

Linghui Wu, University of New Hampshire; *Shadi S. Atallah*, University of New Hampshire

Adaptive Resistance Management with Uncertain Fitness Costs

Zachary S. Brown, North Carolina State University; *Hyeongyul Roh*, Duke University

1062 Climate Impact on Agricultural Production

Suite 4024, 40th Floor

Selected Presentation - Discussant Test Session

Papers in this session discuss the impacts of climate change on agricultural production and producer behavior.

Moderator: Steven M. Ramsey, New Mexico State University

Beyond Yield Response: Weather Shocks and Crop Abandonment

Xiaomeng Cui, Institute for Economic and Social Research, Jinan University

The Impact of Warming Temperatures on U.S. Sorghum Production and the Potential for Adaptation

Noah J. Miller, Kansas State University; *Jesse B. Tack*, Kansas State University; *Jason S. Bergtold*, Kansas State University

Impacts of Climate Change on Attributes and Retail Prices of Premium Wines

Qianyao Pan, University of California, Davis; *Daniel A. Sumner*, University of California, Davis; *James T. Lapsley*, University of California, Davis

Snowpack Yield Implications: A Case Study of Alfalfa Yields in the Rio Grande Valley of New Mexico

Steven M. Ramsey, New Mexico State University

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

1063 Productivity Analysis and Emerging Technologies - AgTech Lightning Session

Suite 4039, 40th Floor

Selected Presentation - Lightning Session

A groundswell in private R&D in agricultural production and marketing is resulting in a range of increasingly advanced “AgTech” innovations, in both high income and developing countries. This lightning session provides a sampling of economic analyses of agtech and marketing technology breakthrough, from blockchain and machine learning, to sensor imagery and irrigation technology, from microbiomes to salt tolerant rice and “green super rice.”

Moderator: Prithviraj Lakkakula, North Dakota State University

Assessing the Benefits of Green Super Rice in Sub-Saharan Africa: Evidence from Mozambique

Ashok K. Mishra, Arizona State University; **Valerien O. Pede**, International Rice Research Institute

Does Crop Insurance Inhibit Climate Change Irrigation-technology Adaption?

Sarah C. Sellars, Purdue University; Nathanael M. Thompson, Purdue University; Michael E. Wetzstein, Purdue University; Laura C. Bowling, Purdue University; Keith A. Cherkauer, Purdue University; Jane R. Frankenberger, Purdue University; Linda S. Prokopy, Purdue University; Michelle R. Hemler, Purdue University; Charlotte I. Lee, Purdue University; Benjamin D. Reinhart, Purdue University

Assessing Salt-tolerant Rice Variety Adoption in the Mekong River Delta

SongYi Paik, Virginia Tech; Bradford F. Mills, Virginia Tech; Dung Thi Phuong Le, International Center for Tropical Agriculture; Lien Thi Nhu, International Center for Tropical Agriculture

Micro-climate Engineering for Climate Change Adaptation in Agriculture: the Case of California Pistachios

Itai Trilnick, University of California, Berkeley

Efficiency as a Criterion for Optimizing Routes: A Two-stage DEA-Routing Approach

Paulo Nocera Alves Jr., University of São Paulo ; Daniela B. Bartholomeu, University of São Paulo; José C. Cruz Jr., Federal University of São Carlos; José V. Caixeta-Filho, University of São Paulo

Impact of Blockchain Technology on International Grain Trading

Prithviraj Lakkakula, North Dakota State University; David W. Bullock, North Dakota State University; William W. Wilson, North Dakota State University

1064 Transportation Fuels

M108, Marquis Level

Selected Presentation

This session contains four papers examining policies regarding U.S. transportation fuels, namely Renewable Fuel Standard, Corporate Average Fuel Economy, and California’s Ocean-going Vessel Fuel Rule.

Moderator: Julia Berazneva, Middlebury College

Doomed by Design: Structural Implications of the Renewable Fuel Standard for E85 Demand

Jia Zhong, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign

Correlated Pollutants, Avoidance, and Local Environmental Policy: Analyzing California’s Ocean-Going Vessel Fuel Rule

Julia Berazneva, Middlebury College; Richard L. Klotz, Cornell University

DUCs and Natural Gas Supply in the U.S.

Douglas Mugabe, West Virginia University; Levan Elbakidze, West Virginia University

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

1065 Innovations in Risk Management for Small-holder Farmers: Experimental Evidence from East and Southern Africa M302, Marquis Level

Track Session - Africa & International Sections

Satellite-based estimates of weather have become common in agricultural economics. However, the choice of how rainfall and temperature are measured and enter into the production function is typically ad hoc and almost never justified on agronomic principles. We propose a hybrid format for this session. The session will begin with a presentation of results from a study which has quantified the significance and magnitude of the effect of measurement error in weather metrics on estimates of agricultural production and resilience, using the LSMS-ISA data from eight countries in Africa. Following this, several case studies will be presented in lightning style. These case studies will employ the best practices and methods from the original study, with the goal of highlighting the differences in results from the use of various weather metrics.

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

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

Can Complementary Risk Management Technologies Crowd in Investment? Experimental Evidence on the Impact of Drought Tolerant Maize and Index Insurance on Small-holder Maize Farmers in Mozambique and Tanzania

Paswel P. Marenya, *International Maize and Wheat Improvement Center*; **Travis J. Lybbert**, *University of California, Davis*; **Michael R. Carter**, *University of California, Davis*; **Jonathan G. Malacarne**, *University of California, Davis*; **Laura A. Paul**, *University of Delaware*; **Stephen R. Boucher**, *University of California, Davis*

The Farmer and the Fates: Focus of Control and Investment in a Stochastic Production

Jonathan G. Malacarne, *University of California, Davis*

Out of the Pan and into the Fire: Drought-tolerant Maize Performance from Controlled Environments to Farms in East Africa

Laura A. Paul, *University of Delaware*

Reducing Basis Risk and Building Trust: The Demand for High Quality Index Insurance Contracts in Mozambique

Jon Einar Flatnes, *The Ohio State University*; **Jonathan G. Malacarne**, *University of California, Davis*; **Stephen R. Boucher**, *University of California, Davis*

1066 Crop Insurance - Current and Future Innovations M105, Marquis Level

Track Session - ARA Section

A panel of leading experts from government, private industry, and academia will discuss what is currently being innovated for U.S. Crop Insurance and what future innovations they believe the industry would benefit from.

Organizer: Julia I. Borman, Air Worldwide

Crop Insurance Update

Thomas W. Worth, *USDA-Risk Management Agency*

Updates from the USDA

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

Using Models for Innovation in the Crop Insurance Industry

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

The Evolving Farm Policy Context with Crop Insurance

Keith H. Coble, *Mississippi State University*

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

1067 Recent Changes in State, Federal, and International Alcohol Policy

M303, Marquis Level

Track Session - BEER Section

Alcohol distribution is widely regulated and changes in alcohol policy can impact the entire supply chain. This session explores alcohol policy at the international, federal and state levels. As discretionary income increases in China, craft beer has become more popular resulting in increased imports of U.S. craft beers. This presentation examines the impact of recent Chinese tariffs on exports of American craft beer. In 2017, Congress passed the Craft Beverage Modernization and Tax Reform Act (CBMTRA), the first reduction in alcohol taxes since the repeal of prohibition. This talk dives into the various implications of the CBMTRA and what it means for beer, spirits and wine industries. Starting 2019, Colorado will allow grocery stores to sell full strength beer for the first time. This presentation discusses this highly complex legislation and its impact on brewers, distributors, and retailers.

Organizer: Joshua P. Berning, Colorado State University

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

The Impact of the U.S. China Trade War on U.S. Craft Beer Exports

Cary Cavnar, North Dakota State University; **Thomas I. Wahl**, North Dakota State University; **James L. Seale Jr.**, University of Florida

Implications of the Craft Beverage Modernization and Tax Reform Act of 2017

Michael P. McCullough, California Polytechnic State University, San Luis Obispo; **Julian M. Alston**, University of California, Davis

The Colorado Beer Industry in a Changing Regulatory Landscape

Nathan P. Palardy, Colorado State University; **Marco Costanigro**, Colorado State University; **Joshua P. Berning**, Colorado State University

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

1068 Agricultural Market, Price, Information, and Consumers - Lightning Section

M107, Marquis Level

Track Session - China Section

This session focuses on the issues related agricultural market, price, information, and consumers. Presentations cover different key commodities, such as fruits, dairy products, vegetables and grains. Discussion covers broader aspects of product price, labeling, safety, insurance, etc.

Organizers: Songqing Jin, Michigan State University; Baohui Song, California State University, Chico

Rice Farmers' Demands for Productive Services in the Context of Agriculture Green Transformation: Evidence from Chinese Farmers

Qi Li, Qufu Normal University; **Kai Li**, Qufu Normal 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; **Jichun Zhao**, Beijing Academy of Agriculture and Forestry Sciences; **Hongbiao Wang**, Beijing Academy of Agriculture and Forestry Sciences

Effect of Local and National Advertising Across Brands: Case of Yogurt Demand in China

Bo Chen, Huazhong Agricultural University; **Wuyang Hu**, The Ohio State University; **Qingjie Zhou**, Beijing Technology and Business University

Does "Green Food" Certification have both Economic and Environmental Benefits? Recent Evidence from Kiwifruit Growers in China

Ruifeng Liu, Henan Agricultural University; **Zhifeng Gao**, University of Florida; **Rodolfo M. Nayga**, University of Arkansas; **Lijia Shi**, University of Florida; **Hengyun Ma**, Henan Agricultural University

The Empirical Study on Price Discovery of Corn Starch Futures Market in China

Yunxian Yan, Jilin Agricultural University; **Guiyu Zhao**

Does Price Insurance Effectively Smooth Vegetable Market? – New Evidence with Synthetic Control Method in Shanghai

Huishang Li Sr., Agricultural Information Institute, Chinese Academy of Agricultural Sciences; **Guo Xinzhu**, Agricultural Information Institute of the CAAS; **Chenpei Hu**, Chinese Academy of Agricultural Sciences

The Willingness to Pay for Country of Origin Labels – A Cases Study in Chinese Food Market

Xing Zhao, Jiangxi University of Finance and Economics; **Guzhen Zhou**, Jiangxi University of Finance and Economics

Short Supply Chain Participation Market Performance for Vegetable Farmers in China

Xiaoheng Zhang, Huazhong Agricultural University; **Ping Qing**, Huazhong Agricultural University; **Xiaohua Yu**, University of Göttingen

1069 The Generalizability of Student Experiments for Use in Agro-Environmental Policy-Making

M304, Marquis Level

Track Session - CWAE & EXECON Sections

Economic experiments often involve student participants. However, given concerns about external validity, Federal agencies often require that scientific evidence used to inform policy-making be generated using samples of the population targeted by that policy. This panel will bring together experimentalists with expertise in lab and field settings to discuss the prospects and perils of generalizing student experiments for agro-environmental policy-making, including: 1. What is known about how well students model farmer decision-making in lab experiments 2. How generalizability of student experiments is handled outside of the AgEcon discipline 3. Key research questions for generalizing student experiments to inform AgEcon policy-making and modeling 4. Barriers to conducting research that compares performance between student and farmer/rural populations This panel discussion is likely to draw attendance from economists and policy-makers interested in evidence-based policy-making and experimental methods.

Organizer: Daniel M. Hellerstein, USDA-Economic Research Service

Moderator: Collin Weigel, Johns Hopkins University

Panelists: Kent D. Messer, University of Delaware; Stephanie D. Rosch, USDA-Economic Research Service; Jordan F. Suter, Colorado State University

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

1070 Prediction, Expert Opinion, and Data in Specialty Crops

M301, Marquis Level

Track Session - Econometrics and SCE Sections

Many instances exist in government and elsewhere where predictions of quantities supplied and resultant prices of commodities are issued to contribute to the information base on which producers make decisions and commit resources to generate future production of a commodity. It is often the case that econometric methodologies are applied to observed data to extrapolate quantities and prices into the future and provide the desired predictions. In forming predictions, it is also often the case that expert judgement exists regarding likely outcomes of the decisions of producers, and the resultant levels of production and prices that will occur as a result. This session will consider econometric and data issues that are relevant in predicting quantities in specialty crops.

Organizers: Jill J. McCluskey, Washington State University; Ron C. Mittelhammer, Washington State University

Discussant: Thomas L. Marsh, Washington State University

A Methodology and Application of Expert Opinion and Econometric Mixtures for Generating USDA-ERS Predictions of Specialty Crop Quantities and Prices

Ron C. Mittelhammer, Washington State University; Brett Devine, Washington State University; Jill J. McCluskey, Washington State University; Travis Minor, USDA-Economic Research Service

Planting a Problem: Predicting End of Season Virus Loads in Potatoes

Christopher S. McIntosh, University of Idaho; Jeremy Rosenman, University of Idaho

Data Science and Management for Large Scale Empirical Applications in Agricultural and Applied Economics Research

Joshua D. Woodard, Cornell University

1071 Recent Developments in Sustainable Environmental Management

Suite 3824, 38th Floor

Track Session - ENV Section

This session addresses sustainable continuous time natural dynamic resource management in the face of climate change and political-economic uncertainty and upheaval.

Organizer: Jeffrey T. LaFrance, Monash University

Discussants: Mindy L. Mallory, University of Illinois at Urbana-Champaign; Michael Ward, Monash University

A Water Portfolio Model with Time-Varying Risk in the Presence of Climate Change

Anke Leroux, Department of Economics, Monash University; Vance Martin, University of Melbourne; Kathryn St. John, University of Melbourne

High Fines for Misdemeanors: Robust Public Natural Resource Management Mechanisms

Jeffrey T. LaFrance, Monash University; Jay P. Shimshack, University of Virginia; Myles J. Watts, Montana State University

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

1072 Experiments on Food Choice in Specialized Populations: Food Pantry Users and Children

Suite 3924, 39th Floor

Track Session - EXECON & IBES Sections

In this session we will present the results of field experiments on food choice in specialized populations – food pantry users and children – with interventions designed to promote food security and healthier choices. Our first presenter will show whether food pantry clientele reveal different WTP in food pantries compared to standard grocery stores. Our second presenter will discuss how children understand and respond to the presentation of discounted food prices. Our third presenter will present research showing the impact that a rating system has on food choices among food pantry clientele. Lastly, our fourth presenter will present results from a study searching for a point in time in which nudges in school cafeterias lose their efficacy and need to be refreshed. This research is timely considering the prevalence of food insecurity and nutrient poor diets among food pantry users and children.

Organizer: Andrew Hanks, The Ohio State University

Moderator: Andrew Hanks, The Ohio State University

Do People Value Pantry Food Differently?

Anne Byrne, Cornell University; **David R. Just**, Cornell University

How Do Children Respond to Differences in Food Price Presentation? An Experimental Investigation

Sean B. Cash, Tufts University; **Deirdre M. Schiff**, Tufts University; **Megan E. Lehnerd**, Framingham State University; **Anna R. McAlister**, Endicott College; **Kaela Plank**, Tufts University; **Christina Economos**, Tufts University

Effect of Unobtrusive and Low-cost Nudge on Food Choice Behavior of Food Pantries Clients

Bhagyashree Katare, Purdue University; **Brittini Echols**, Purdue University; **Rodolfo M. Nayga**, University of Arkansas; **Paul Preckel**, Purdue University

When Do Nudges Need to be Refreshed? A Pilot Study in School Cafeterias

Andrew Hanks, The Ohio State University; **Haleigh Gaines**, University Hospitals, Cleveland, OH; **Julie Kennel**, The Ohio State University

1074 Machine Learning in Applied Economics

Suite 3803, 38th Floor

Track Session - Econometrics & International Sections

This session provides an overview of various machine learning techniques and applications.

Organizer: Kathy Baylis, University of Illinois at Urbana-Champaign

Moderator: Kathy Baylis, University of Illinois at Urbana-Champaign

Identifying Poor Households in Data Scarce Environments: A Statistical Learning Approach

Varun Kshirsagar, Independent Economist

Propensity Scores and Causal Inference Using Machine Learning Methods

Linden McBride, Cornell University

Identifying Effects of Farm Subsidies on Structural Change Using Neural Networks

Thomas Heckeley, University of Bonn

Information, Credit and Inputs: The Impacts and Mechanisms of a Program to Raise Smallholder Productivity

Emilia Tjernström, University of Wisconsin-Madison

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

1075 U.S. Benefits from Foreign Assistance to Developing Country Agriculture and Food Security

M103, Marquis Level

Track Session - International & Senior Sections

A new study commissioned by the Board for International Food and Agricultural Development (BIFAD) provides analysis of U.S. benefits and capabilities leveraged by USAID investments in developing country agriculture and food security. The study examines why aid investments in agriculture affect not only developing countries but United States producers and consumers. It uses available data to quantify impacts of aid on productivity and capacity building. It examines direct and indirect benefits of increased output and incomes in USAID partner countries and their effects on U.S. exports. Increased productivity improves incomes, which helps reduce poverty and hunger and improves household purchasing power. As incomes rise, household diets improve in both quantity and quality, which leads to increased trade and other potential benefits to the United States. The study can help the public understand the value of investing in aid to agriculture.

Organizer: William H. Meyers, University of Missouri

Moderator: Brady J. Deaton Sr., University of Missouri

Discussant: Brady J. Deaton Sr., University of Missouri

Panelists: Keith O. Fuglie, USDA-Economic Research Service; George W. Norton, Virginia Tech; Melinda Smale, Michigan State University

Summary Report: U.S. Benefits and Capabilities Leveraged by USAID Investments in Developing Country Agriculture and Food Security

Stephanie A. Mercier, *Farm Journal Foundation*; **Joseph W. Glauber**, *International Food Policy Research Institute*

2630 The Economics of Genetically Modified Foods

M104, Marquis Level

Track Session - FAMPS & FSN Sections

The marketing of genetically modified (GM) foods continues to be a predominant agricultural policy issue in the U.S. This session includes papers that i) exploit state-level variation GM labeling legislation to study the effects of mandatory labeling on consumer attitudes toward GM products; ii) study the effect of consumer knowledge on GM purchasing behavior; iii) consider the political economy of the GM debate; and iv) examine the probity of industry messaging around GM products, in economic perspective. We anticipate a lively debate on this highly topical issue.

Organizer: Trenton G. Smith, University of Otago

Discussant: Parke E. Wilde, Tufts University

Consumer Support for Genetic Engineering: The Impact of Mandatory Labels, Regulatory Threats, and Laissez Faire Approaches in the U.S.

Jane M. Kolodinsky, *University of Vermont*; **Orest Pazuniak**, *University of Vermont*

Do GMO Labelling and Consumers' Knowledge in GMO Market Improve Market Efficiency?

Yu Yvette Zhang, *Texas A&M University*; **Xiaotong Yuan**, *Texas A&M University*; **Pulkit Marwah**, *Texas A&M University*; **Marco A. Palma**, *Texas A&M University*

The Political Economy of GMO at the Market and in Academia

David Zilberman, *University of California, Berkeley*

The Simple Economics of Fraud: The Case of Genetically Modified Food

Trenton G. Smith, *University of Otago*; **Jane M. Kolodinsky**, *University of Vermont*

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

2001 New Directions in Research on Agrifood Standards and Rural Poverty

M304, Marquis Level

Invited Paper

Standards related to food safety, quality, and sustainability have recently gained in importance in national and international agrifood markets, with profound implications for supply chain organization and social welfare. From a development perspective, effects on smallholder farmers in developing countries are of particular interest, because smallholders are especially vulnerable to poverty. Many case studies have analyzed effects of standards in specific situations, but much of this research is not representative and has limited external validity. The goal of this session is to synthesize the evidence and show how broader and deeper insights can be gained with new survey designs and better data.

Organizer: Matin Qaim, University of Göttingen

Moderator: Christopher B. Barrett, Cornell University

Discussant: Thomas A. Reardon, Michigan State University

Do Smallholder Farmers Benefit from Sustainability Standards? A Systematic Review and Meta-Analysis

Eva-Marie Meemken, Cornell University

Do Sustainability Standards Benefit Smallholder Farmers Also When Accounting for Cooperative Effects? Evidence from Cote d'Ivoire

Jorge Sellare, University of Göttingen; **Eva-Marie Meemken**, Cornell University; **Christophe Kouame**, World Agroforestry Center; **Matin Qaim**, University of Göttingen

Regulations, Value Chains, and Implementation of Food Standards in Developing Countries: Panel Data Evidence from India

Johan F.M. Swinnen, University of Leuven; **Saule Burkitbayeva**, University of Leuven; **Emma Janssen**, University of Leuven

2002 Increasing Role of Economics in Agricultural Regulatory Decisions

L403, Lobby Level

Organized Symposium

The session will provide an overview and perspectives on the changing role of economics in agricultural regulatory decisions today. The panel will also discuss where to look for information about forthcoming regulations and supporting documents that researchers/analysts may find useful.

Organizers: Mary E. Bohman, Bureau of Economic Analysis; Parveen P. Setia, USDA-Animal and Plant Health Inspection Service

Moderator: Shannon Hamm, USDA-Animal and Plant Health Inspection Service

Panelists: Jason Grant, Virginia Tech; Warren P. Preston, U.S. Department of Agriculture; April Regonlinski, USDA-Food Safety and Inspection Service; Parveen P. Setia, USDA-Animal and Plant Health Inspection Service

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

2003 Pollution, Health, and Environmental Policies: The Case of China

L406, Lobby Level

Organized Symposium

Unprecedented economic growth in China has caused serious environmental degradation and brought challenges for sustainable development. It is imperative to fully understand the adverse effects of environmental pollution on health and come up with feasible and effective energy/resource policies to lower the pollution levels. China's experience in tackling environmental problems provides valuable lessons for other developing economies. The session aims to create a stage for general economists to exchange opinions on environmental issues and for environmental researchers to share their research outcomes.

Organizer: Maoyong Fan, Ball State University

Moderator: Maoyong Fan, Ball State University

Panelists: Maoyong Fan, Ball State University; Junji Xiao, University of Technology, Sydney; Lunyu Xie, Renmin University

The Impacts of Air Pollution on Health: Evidence from Winter Heating Policy

Maoyong Fan, Ball State University

Battling Against Local and Global Air Pollutions by Household Energy Transition

Lunyu Xie, Renmin University; **Wanyi Wu Wu**, Renmin University; **Ziru Feng Feng**, Renmin University; **Chu Wei**, Renmin University; **Xinye Zheng**, Renmin University

The Unintended Environmental Consequences of Location-Based Policy: A Quasi-Natural Experiment from Guangdong Province in China

Junji Xiao, University of Technology, Sydney; **Jianxin Wu**, Jinan University

2004 Ag Finance and Farm Management - Issues in Agricultural Lending

M302, Marquis Level

Selected Presentation

This session covers topics with agricultural lending.

Moderator: Jian Chen, The Ohio State University

Agricultural Loan Delinquency Prediction Using Machine Learning Methods

Jian Chen, The Ohio State University; **Ani Katchova**, The Ohio State University

Evaluating the Relative Extent of Double Minority Bias in FSA's Farm Lending Decisions

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

Impact of the Basel III Bank Regulation on Agricultural Lending

Kevin N. Kim, The Ohio State University

Agricultural Credit Market Segmentation and Creditor Profiles: A Conceptual Model

Chad M. Fiechter, Cornell University; **Jennifer E. Ifft**, Cornell University

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

2005 Economics of Agri-Food Markets

M108, Marquis Level

Selected Presentation - Discussant Test Session

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

Moderator: Mahdi Asgari, University of Kentucky

Long-Term Dynamics of Organic Dairy Premium in the United States.

Syed Badruddoza, Washington State University; **Andrea C. Carlson**, USDA-Economic Research Service; **Jill J. McCluskey**, Washington State University

Market Power in EU Dairy Processing: Evidence from a Stochastic Frontier Approach

Maximilian Koppenberg, Technical University of Munich; **Stefan Hirsch**, Technical University of Munich

Mitigating Barriers of U.S. Organic Dairy Farming: Impact of Educational Programs on Beginning Organic Dairy and Feed Producers in Six Mid-Western States

Siny Joseph, Kansas State University

The Complexity of Consumers' Loyalty to Product Attributes in Soft Drinks Market

Mahdi Asgari, University of Kentucky; **Samane Zare**, University of Kentucky; **Yuqing Zheng**, University of Kentucky; **Timothy A. Woods**, University of Kentucky

2006 Behavioral Economics and Farm Decision-Making

L405, Lobby Level

Selected Presentation - Discussant Test Session

Papers in session examine behavioral factors, including social interactions and risk perceptions, that affect production decisions.

Moderator: Gaurav Arora, Indraprastha Institute of Information Technology

Understanding the Importance of Social Interactions Between Small Farmers: Evidence from Farmer Planting Behavior in Rural China

Zhu Cheng, China Agricultural University; **Qianheng Chen**, China Agricultural University; **Michael Delgado**, Purdue University

WTP Biases & Depressed Demand for Higher Coverage Crop Insurance Contracts

Xiaodong Du, University of Wisconsin-Madison; **Hongli Feng**, Michigan State University; **David A. Hennessy**, Michigan State University

Do Grassroots Interventions Relax Behavioral Constraints to the Adoption of Nutrition Sensitive Food Production Systems?

Muzna F. Alvi, International Food Policy Research Institute; **Patrick S. Ward**, Duke Kunshan University; **Simrin Makhija**, International Food Policy Research Institute; **David J. Spielman**, International Food Policy Research Institute

Past and Future Weather: Farmers' Perceptions and Their Roles in Land Use Decisions

Gaurav Arora, Indraprastha Institute of Information Technology; **Hongli Feng**, Michigan State University; **David A. Hennessy**, Michigan State University

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

2007 Commodity Price Transmission

L404, Lobby Level

Selected Presentation

This session discusses input-output price transmission, price transmission along the marketing chain, as well as price transmission between agricultural and energy commodities.

Moderator: Dan Scheitrum, University of Arizona

Piecemeal State-level Farm Regulation and the U.S. Commerce Clause

*Colin Andre Carter, University of California, Davis; K. Aleks Schaefer, Royal Veterinary College, University of London; **Dan Scheitrum**, University of Arizona*

Input-output Price Transmission in the United States Broiler Chicken Market

Dylan D. Bouchard, North Carolina State University

Price Transmission and Supply Shocks: The Role of Upstream and Downstream Market Power

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

Demystifying Horizon-based Heterogeneity in the Relationship between Agricultural Commodities and Crude Oil

*Bahram Adrangī, University of Portland; Arjun Chatrath, University of Portland; **Clark Lundberg**, San Diego State University; Tristan D. Skolrud, University of Saskatchewan*

2008 Experimental Economics - Design

Suite 4024, 40th Floor

Selected Presentation - Discussant Test Session

This session includes papers related to the design of economic experiments to understand individual behavior. The topics of the session include preferences for gene-edited canola oil, dynamic treatment assignment, attribute non-attendance, and preferences across elicitation mechanisms.

Moderator: Xuqi Chen, University of Florida

Strategic Behavior in Stated Preferences and the Demand for Gene-Edited Canola Oil

Henry An, University of Alberta; *Wiktor L. Adamowicz, University of Alberta; Patrick Lloyd-Smith, University of Saskatchewan*

Maximizing Experimental Power Through Dynamic Treatment Assignment

Stephen N. Morgan, University of Florida; *Bachir Kassas, University of Florida*

Incorporating Visual Attention Measures to Control for Attribute Non-Attendance: Preferences for Eco-Friendly Residential Landscapes

Xumin Zhang, University of Florida; *Hayk Khachatryan, University of Florida*

Experimental Auctions Versus Real Choice Experiment: An Empirical Application Using Homegrown and Induced Value Experiments

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

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

2009 Studies of Food Retailing

Suite 3803, 38th Floor

Selected Presentation

This session features studies examining aspects of consumer retail behavior in online and in grocery store environments. A variety of U.S. and international market settings are considered.

Moderator: Guzhen Zhou, Jiangxi University of Finance and Economics

Consumer and Retailer Preferences for Local Dairy Products: Evidence from Stacked Choice Experiment Surveys in Urban Mali
Ryan Vroegindewey, Michigan State University; Robert B. Richardson, Michigan State University; David L. Ortega, Michigan State University; Veronique Theriault, Michigan State University

Impact of a "Point-of-Purchase Nudge" on Fruit and Vegetable Consumption: Evidence from Supermarket Experiment

Sanghyo Kim, Korea Rural Economic Institute; Yeon A Hong, Korea Rural Economic Institute

Drivers of Online Grocery Shopping

Chinonso E. Etumnu, Purdue University; Kenneth A. Foster, Purdue University; Nicole Olynk Widmar, Purdue University; Jayson L. Lusk, Purdue University; David L. Ortega, Michigan State University

2010 U.S. Food Assistance Programs: A Focus on Food Retailers

Suite 3803, 38th Floor

Selected Presentation - Discussant Test Session

The majority of SNAP benefits are redeemed at superstores or supermarkets. This session explores how SNAP and WIC payments affect food retailers and the food industry more broadly. Papers in this session will consider impacts of food assistance programs and consumption on retail prices, the number of food stores, retailer employment, employee compensation, and entry and exit of supermarkets.

Moderator: Jordan W. Jones, Georgia State University

Food Retailer Response to the Supplemental Nutrition Assistance Program

Jordan W. Jones, Georgia State University

Impact of WIC Changes on Retailer Participation and Sales

Charlotte Ambrozek, University of California, Davis; Timothy Beatty, University of California, Davis; Marianne Bitler, University of California, Davis

Do Food Assistance Programs Affect Retailers?

Marianne Bitler, University of California, Davis; Timothy Beatty, University of California, Davis; **Cynthia Van Der Werf**, University of California, Davis

Effects of SNAP Policy Changes on Caloric Acquisition and Economic Welfare in the United States

Aaron M. Ates, Oklahoma State University; Rodney B. Holcomb, Oklahoma State University

2012 U.S. Labor Policy, and Impact on Migration and Rural Labor Markets

Suite 3824, 38th Floor

Selected Presentation - Discussant Test Session

Papers in this session examine the impact of U.S. immigration policy and labor regulations on rural labor market outcomes.

Moderator: Maria I. Marshall, Purdue University

The Effect of Agglomeration and Immigration on Dairy Farm Wage Premiums in Texas

Uthra K. Raghunathan, U.S. Department of Agriculture; Dong Li, University of Texas at Dallas

The Short-Run Impacts of Immigration on Native Workers: A Sectoral Approach

Pierre Mérel, University of California, Davis; **Zach Rutledge**, University of California, Davis

The Impact of Full Scope-of-Practice Regulation on the Rural Labor Supply of Nurse Practitioners: Implications for Farm Health in the United States

Tianyuan Luo, University of Florida; Vahé Heboyan, Augusta University

The Determinants of U.S. Agricultural Wages

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

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

2013 International Development - Nutrition Lightning Session

Suite 3839, 38th Floor

Selected Presentation - Lightning Session

This session addresses many facets about food consumption: biofortified foods, processed foods, preferences for local production, determinants of food security, measurement of nutrition. It's all here!

Moderator: Jose E. Funes, University of Maryland at College Park

Advancing the Use of Household Surveys for Nutrition: Nutrient Adequacy at the Household Level and the Cost Of Nutritious Diets in Malawi

Kate Schneider, Tufts University; **William A. Masters**, Tufts University

Spilt Milk: Measuring the Indirect Effects of Livestock Ownership in Rural Zambia

Lila Cardell, University of Illinois at Urbana-Champaign

The Impact of Iron Biofortified Beans on Yields and Farmers' Incomes: The Case of Rwanda

Jose E. Funes, University of Maryland at College Park; **Todd Benson**, International Food Policy Research Institute; **Laixiang Sun**, University of Maryland; **Fernando Sedano**, University of Maryland; **Ekin Birol**, International Food Policy Research Institute

Does Nigeria come First? An Analysis of Consumers' Ethnocentric Behavior in Food Consumption

Valerie Kilders, Michigan State University; **Vincenzina Caputo**, Michigan State University; **Saweda Liverpool-Tasie**, Michigan State University

Affordability of Nutrient Adequacy and Dietary Energy in Ethiopia, 2001-2017

Fantu Bachew, International Food Policy Research Institute; **William A. Masters**, Tufts University; **Yan Bai**, Tufts University

Introducing Safety Labels in Complex Food Supply Chains: Evidence from a Choice Experiment in Nigeria

Awa Sanou, Michigan State University; **Saweda Liverpool-Tasie**, Michigan State University; **Vincenzina Caputo**, Michigan State University

Active Markets and Household Food Security: Evidence from Zambia

Patrese Anderson, University of Illinois at Urbana-Champaign; **Kathy Baylis**, University of Illinois at Urbana-Champaign

2014 International Development - Education

Suite 3903, 39th Floor

Selected Presentation

This session gives evidence for various strategies affecting educational quality and school enrollment.

Moderator: Kajal Gulati, IMPAQ International, LLC

Education Reform in Zimbabwe: A Pseudo-panel Approach

Zeya Zhang, Virginia Tech; **Jeffrey Alwang**, Virginia Tech

Impact of Internet Access on Student Learning in Peruvian Schools

Kevin Kho, Food and Drug Administration; **Leah Lakdawala**, Michigan State University; **Eduardo Nakasone**, Michigan State University

Solution or Isolation: Is Boarding School a Good Solution for Left-behind Children in Rural China?

Mengqi Liu, University of New Mexico; **Kira M. Villa**, University of New Mexico

The Impact of Food for Education Program on Literacy Improvement in Mali

Kajal Gulati, IMPAQ International, LLC; **Elnaz Safarha**, IMPAQ International, LLC

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

2015 Topics in Natural Resources and Development: Lightning Session

Suite 3919, 39th Floor

Selected Presentation - Lightning Session

This lightning session includes a diverse set of papers on natural resources issues in the development context. Topics range from forests in Malawi to water pricing in Brazil.

Moderator: Justin S. Baker, RTI International

Gibrat's Law for CO2 Emissions

*Behzod B. Ahundjanov, Texas Tech University; **Sherzod B. Akhundjanov**, Utah State University*

Nutrition Protection with Natural Insurance: The Role of Forests in Malawi

***Kelvin H. Mulungu**, Colorado State University; Dale Manning, Colorado State University*

The Effect of Resource Wealth on Regional Economic Development in China

***Na Zuo**, University of Arizona; Hua Zhong, Beihang University*

Worker Location Decisions by Skill Level: The Welfare Impacts of Weather Shocks and Industry Composition on the Demand for High and Low Skill Labor

***Deshamithra H.W. Jayasekera**, The Pennsylvania State University; Douglas H. Wrenn, The Pennsylvania State University; Karen Fisher-Vanden, The Pennsylvania State University*

Distributional Consequences of Small-Scale Fisheries Reform in Developing Countries

***Ted E. Gilliland**, Mount Holyoke College; James N. Sanchirico, University of California, Davis; L. Edward Taylor, University of California, Davis*

Moderator.

Is Water Pricing an Efficient Instrument to Ration Brazilian Agricultural Water Consumption?

*Daniela B. Bartholomeu, University of São Paulo; **Paulo Nocera Alves Jr.**, University of São Paulo; José V. Caixeta-Filho, University of São Paulo; José C. Cruz Jr., Federal University of São Carlos*

Conflict Between Riparian Countries

***Sahar Yousef**, The Ohio State University*

Climate Change Impacts, International Trade, and Food Security

***Justin S. Baker**, RTI International; Petr Havlík, International Institute for Applied Systems Analysis; Tamas Krisztin, International Institute for Applied Systems Analysis; Tomoko Hasegawa, NIES*

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

2016 Production Economics - New Insights from Livestock Economics Research: Lightning Session

Suite 3924, 39th Floor

Selected Presentation - Lightning Session

Papers in this session highlight new insights related to the production, health, marketing, and management of livestock in the U.S.

Moderator: Matthew J. MacLachlan, USDA-Economic Research Service

Milked for All Their Worth: Analyzing the Costs of Animal Mortality on Wisconsin Dairies

Jared P. Hutchins, University of Wisconsin-Madison

The Effects of Contracting on Biosecurity Effort by U.S. Swine Producers

James L. Mitchell, Kansas State University; **Glynn T. Tonsor**, Kansas State University; **Lee Schulz**, Iowa State University

Estimating the Effect of Beef Quality Assurance (BQA) on Video Cattle Prices in the U.S. West

Daniel F. Mooney, Colorado State University; **Miles M. Rollison**, Colorado State University; **Jason K. Ahola**, Colorado State University

Are Cattle Feeding Operations Moving North? An Empirical Analysis of the USDA "Cattle on Feed" Reports

Prasanna Surathkal, Texas State University; **Madan M. Dey**, Texas State University

Tracking the Changing Valuation of Beef Bull Attributes

Minfeng Tang, Purdue University; **Nathanael M. Thompson**, Purdue University; **Christopher M. Boyer**, University of Tennessee; **Nicole Olynk Widmar**, Purdue University; **Jayson L. Lusk**, Purdue University; **Terry S. Stewart**, Purdue University; **Donna L. Lofgren**, Purdue University; **Nick Minton**, Purdue University

Comparing Willingness to Supply and Willingness to Pay for Cattle Traceability: A Novel Assessment of Both Supply and Demand Factors Driving Provision of Production Practice Information in Modern Food Systems

Glynn T. Tonsor, Kansas State University; **James L. Mitchell**, Kansas State University; **Lee Schulz**, Iowa State University

The Impacts of Federal Anti-Microbial Guidance on the Livestock Industry

Matthew J. MacLachlan, USDA-Economic Research Service; **Christina Letsou**, Boston College; **Stacy E. Sneeringer**, USDA-Economic Research Service

2017 Productivity Analysis and Emerging Technologies - New Data Methods for Crop and Livestock Production

Suite 3934, 39th Floor

Selected Presentation - Discussant Test Session

Advances in data and methods are enabling novel approaches to analyzing technical efficiency and productivity in major crop and livestock production systems around the world.

Moderator: Simone Pieralli, French National Institute for Agricultural Research

How to Double Yields in 50 Years: Lessons from Across the Great Plains

Federico J. Trindade, University of Washington; **Lilyan E. Fulginiti**, University of Nebraska-Lincoln; **Richard K. Perrin**, University of Nebraska-Lincoln

The Millennium Droughts and Australian Agricultural Productivity Performance: A Nonparametric Analysis

Robert G. Chambers, University of Maryland; **Yu Sheng**, Peking University; **Simone Pieralli**, French National Institute for Agricultural Research

Technical Efficiency of Family Dairy Farms: The Experience of a Climate Resilience Program in Brazil

Alexandre Gori Maia, University of Campinas; **Camila Veneo Campos Fonseca**, University of Campinas; **Rodrigo Lanna F. Silveira**, University of Campinas; **Jennifer Burney**, University of California, San Diego; **Daniele Cesano**, Onda Verde Consultancy

Decomposing U.S. Agricultural Productivity into Weather Shocks, Technical Change, Scale Effects, Input Price Effects, and Cost Efficiency

Alejandro Plastina, Iowa State University; **Ariel Ortiz-Bobea**, Cornell University; **Sergio H. Lence**, Iowa State University

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

2018 Water Use and Conservation

Suite 3939, 39th Floor

Selected Presentation - Discussant Test Session

The four papers in this session examine market, policy, and institution factors that affect water use and conservation in the United States.

Moderator: R. Aaron Hrozencik, USDA-Economic Research Service

The Effects of Groundwater Policies and Economic Factors on the Timing of Well Drilling Decisions

Qianyu Zhang, *University of Nebraska-Lincoln*; **Karina Schoengold**, *University of Nebraska-Lincoln*; **Taro Mieno**, *University of Nebraska-Lincoln*

Evaluating Alternative Institutions for Improving Water Allocation and Use Efficiency: Case Studies from the Western United States

Gi-Eu Lee, *University of Nevada, Reno*; **Kimberly S. Rollins**, *University of Nevada, Reno*; **Loretta Singletary**, *University of Nevada, Reno*

Spatial Spillovers from Conservation Policies in Common Property Resources

Mani Rouhi Rad, *Colorado State University*; **Dale Manning**, *Colorado State University*; **Jordan F. Suter**, *Colorado State University*; **Christopher Goemans**, *Colorado State University*

Resource Conservation and Input Markets: Assessing the Spillovers of Groundwater Conservation

Jordan F. Suter, *Colorado State University*; **R. Aaron Hrozencik**, *USDA-Economic Research Service*

2019 Risk and Uncertainty - Climate Change and Development

Suite 4003, 40th Floor

Selected Presentation

Papers in this session explore risk management strategies when faced with climate change in developing countries. Risk preferences and development strategies are also examined.

Moderator: Aditya R. Khanal, Tennessee State University

Climate Shocks and Risk Diversification: A Profit Approach to Pastoralists Decision-Making in Southern Ethiopia.

Anne G. Timu, *University of Nebraska-Lincoln*

Production Risk Management in Agriculture and Farm Performance in Rural Pakistan: Role of Adaptation to Climate Change

Muhammad Faisal Shahzad, *University of Kiel*; **Awudu Abdulai**, *University of Kiel*

Risk Preferences and Development Interventions: Evidence from Lesotho

Noemi Pace, *Food and Agriculture Organization of the United Nations*; **Silvio Daidone**, *Food and Agriculture Organization of the United Nations*

Risk Preference and Adoption of Risk Management Strategies: Evidence from High-Value Crop Production in Emerging Economy

Aditya R. Khanal, *Tennessee State University*; **Ashok K. Mishra**, *Arizona State University*; **Anjani Kumar**, *International Food Policy Research Institute*

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

2020 The Role of Weather Variability and Climate Change on Risk Management and Insurance

M107, Marquis Level

Track Session - ARA, Econometrics, ENV Sections

Interannual weather variation is a large source of risk that nearly all agricultural commodity producers must manage, and this risk exposure is likely to become larger under climate change. These papers will focus on the role of weather variability and longer run weather changes (ie, climate change) and it's implications for various risk management tools, including the Federal Crop Insurance Program, which is the dominant federal safety net policy for the U.S. agricultural system. The included panelists have utilized innovative econometric techniques for modeling various relationships among weather, production risk, and crop insurance. The session will focus on the state of research in this area, while attempting to identify areas for future research.

Organizer: Jesse B. Tack, Kansas State University

Moderator: Eric Belasco, Montana State University

Using Historical Weather Data to Price Crop Insurance Revenue Products

Jesse B. Tack, Kansas State University; **Barry J. Barnett**, University of Kentucky; **Keith H. Coble**, Mississippi State University; **Jisang Yu**, Kansas State University

A Near Real Time Forecasting System of U.S. Crop Yields

Ariel Ortiz-Bobea, Cornell University; **Zhiyun Li**, Cornell University

Estimating Non-additive Within-season Temperature Effects on Maize Yields Using Bayesian Approaches: Implications on the Cost of the Federal Crop Insurance Program

Jisang Yu, Kansas State University; **Gyuhyeong Goh**, Kansas State University

Impacts of Climate Change on the Profitability of and Choices to Enroll in the Pasture, Rangeland and Forage Rainfall Index Insurance Program

Daniel A. Sumner, University of California, Davis; **Qianyao Pan**, University of California, Davis; **Jisang Yu**, Kansas State University

2021 Recent Economics and Econometric Developments in Food Consumption, Nutrient Demand, and Binding Nonnegativity Constraints

M101, Marquis Level

Track Session - AUS Section

This session will address structural models of hedonic price functions, the induced demand for nutrition, new models of demand, and a novel model and estimation method for binding non-negativity constraints in food consumption.

Organizer: Jeffrey T. LaFrance, Monash University

Discussants: Timothy Beatty, University of California, Davis; Nicholas E. Piggott, North Carolina State University

Estimation of Hedonic Prices and the Demand for Nutrients

Jeffrey T. LaFrance, Monash University; **Hayley H. Chouinard**, Colorado State University; **Philip R. Wandschneider**, Washington State University; **Michael Ward**, Monash University

Econometrics of Binding Non-Negativity Constraints in Food Demand

Thomas L. Marsh, Washington State University; **Hayley H. Chouinard**, Colorado State University; **Xi Gu**, Washington State University; **Jeffrey T. LaFrance**, Monash University; **Michael Ward**, Monash University

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

2022 Not Even One Drink? Exploring the Relationship of Alcohol and Health

Suite 4039, 40th Floor

Track Session - BEER Section

Most health guidelines support moderate levels of drinking. However, a recent study in the Lancet suggests that no amount of alcohol consumption is safe for overall health. The presentations in this session further examine the relationship between health and alcohol consumption. The first presentation uses Mendelian randomization on genetic variation to investigate the causal influence of alcohol consumption on various health outcomes. The sample includes about 3,000 respondents from mainland China. The second presentation combines U.S. household alcohol purchases with information on individual health information. The presenters explore whether light beer is actually a healthier choice given it is consumed more but lacks many of the nutritional aspects of regular beer. The final presentation uses recent consumer surveys to evaluate the relationship between beer consumption and attitudes about the healthiness of their diet, fast food, calories, exercise, and eating well.

Organizer: Joshua P. Berning, Colorado State University

Moderator: Joshua P. Berning, Colorado State University

Alcohol Consumption and Health Outcomes: Evidence from Mendelian Randomization

Chen Zhu, China Agricultural University; **Timothy Beatty**, University of California, Davis; **Jun Wang**, Renmin University of China

Is Light Beer the Healthier Choice? Evidence from Scanner Data

Richard J. Volpe III, California Polytechnic State University; **Michael P. McCullough**, California Polytechnic State University, San Luis Obispo

Assessing Beer Consumption and Health Attitudes

Thomas I. Wahl, North Dakota State University; **James L. Seale Jr.**, University of Florida

2023 Agricultural Production, Supply, and Environment Concerns in China - Lightning Section

M102, Marquis Level

Track Session - China Section

This session examines a broader spectrum related to agricultural production, supply chain, both traditional and online marketing channels, price volatility, and environmental concerns as well as subsidy policy changes about China's agricultural industry.

Organizer: Jian Zhang, Central University of Finance and Economics

The Multi-factors Allocation Along with Agricultural Large-scale Operation

Wenjue Zhu, South China Agricultural University; **Biliang Luo**, South China Agricultural University; **Krishna P. Paudel**, Louisiana State University

The Impact of Social Capital on Local Public Goods Provision: Evidence from China

Li Li Li, Zhejiang University; **Zhonggen Zhang**, Zhejiang University

Environmental Policy, Fertilizer Usage and Water Pollution: The Impact of "Action Plan for Prevention and Control of Water Pollution" in China

Yansang Yao, Zhejiang University; **Jingqi Dang**, Zhejiang University

Effect of Direct Subsidy on Technical Efficiency of Grain Production: A Case Study with County-level Panel Data of Hubei Province, China

Xinyi Li, China Agricultural University; **Guoqiang Cheng**, Tongji University

Climate Change and Agricultural Productivity: Evidence from China

Shuai Chen, Zhejiang University; **Binlei Gong**, Zhejiang University

Benefit Analysis of Target Price Subsidy Policy Research Based on Market Price Formation and Price Volatility

Li Tang; **Xiaoji Hu**, Renmin University of China; **Xiqin Wang**, Renmin University of China

Valuation of Social Responsibility by Emerging Country Consumers

Yu Jiang, Zhejiang University; **Hong Holly Wang**, Zhejiang University & Purdue University; **Shaosheng Jin**, Zhejiang University

Does Farmer's Ecommerce Adoption Exacerbate Rural Income Inequality?

Xiaokang Li, Zhejiang University; **Songqing Jin**, Michigan State University; **Hongdong Guo**, Zhejiang University; **Dongshi Chen**, Zhejiang University

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

2024 Strategies to Promote Diversity and Inclusion in Our Profession

M105, Marquis Level

Track Session COSBAE & CWAE Sections

This session will address diversity and inclusion in the agricultural and applied economics profession as well as the broader economics profession. We will present results of a 2019 survey assessing the status of women and minorities in the profession as well as department and university-level initiatives to recruit and retain women and minorities. Following the presentation of results, we will have a panel discussion. Panel members represent perspectives of professional organizations, college- and university-level administrations, and scholarly research on the topic.

Organizer: Kelly A. Grogan, University of Florida

Panelists: Kasey Buckles, Notre Dame University; Sarah Jacobson, Williams College; Anna Josephson, University of Arizona; Dave D. Weatherspoon, Michigan State University

2025 Understanding Agricultural Producer's Challenges with Agritourism and Direct Sales Enterprises

M104, Marquis Level

Track Session - EXT Section

Agritourism has become an important diversification option for agricultural producers that struggle with falling commodity prices. The proposed track session will look at producers' challenges and identify how they can assess key opportunities and leverage barriers to business success both on the farm and as a part of collective initiatives to build regional viability. The session will also compare agritourism and direct sales opportunities in the Western and Eastern parts of the nation. While not a traditional economic extension topic, the ongoing struggle with major agricultural commodities has many producers searching for alternative options, which is evident in increased information requests received by land grant university extension services.

Organizer: Claudia Schmidt, The Pennsylvania State University

Agritourism in the West: What Influences Agritourism Operation Location and Management Decisions?

Dawn D. Thilmany McFadden, Colorado State University; **Martha J. Sullins**, Colorado State University

Harnessing the Power of Community in Agritourism Clusters – Perspectives from Both Sides of the Fence

Doolarie Singh-Knights, West Virginia University

Agritourism and Direct Sales on Small and Medium Farms: Critical Success Factors through a Multi-State Lens

Lindsay Quella, University of Vermont; **David S. Conner**, University of Vermont; **Lisa Chase**, University of Vermont; **WeiWei Wang**, University of Vermont; **Doolarie Singh-Knights**, West Virginia University; **Penny Leff**, University of California-Davis; **Mary Stewart**, Oregon State University; **Cynthia Messer**, University of Minnesota

Success Factors and Barriers for Pennsylvania's Agricultural Producers to Increase Farm Profitability with Agritourism and Direct Sales

Claudia Schmidt, The Pennsylvania State University; **Stephan J. Goetz**, The Pennsylvania State University; **Sarah Cornelisse**, The Pennsylvania State University

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

2026 What Lies Ahead of the U.S. Dairy Sector? Crop Insurance, Retaliatory Tariffs, and the Dairy Pride Act

M301, Marquis Level

Track Session - AEM & FAMPS Sections

This track session analyzes the effects of recent and future policy changes on the U.S. dairy industry. The first paper studies the effect of changes introduced in the Bipartisan Budget Act of 2018 on dairy crop insurance and Farm Bill program adoption rates, policy costs and the dairy sector's consolidation. The second contribution studies domestic spillovers of protectionist U.S. trade policies, investigating the effects for U.S. dairy farmers and processors of Mexico and China's retaliatory tariffs on U.S. dairy exports. The other two contributions focus on the Dairy Pride Act, a bill calling for a stricter use of the term "milk" for dairy products only. A first paper uses a discrete choice experiments to test whether new labels will reduce substitution between dairy milk and plant-based milk substitutes, whereas the last paper studies how consumers allocate dairy and non-dairy milk expenditures by deriving and implementing a test for weak separability using scanner data and an EASI demand model.

Organizer: Alessandro Bonanno, Colorado State University

Moderator: Joleen C. Hadrach, University of Minnesota

Evaluating the 2018 Reforms of the U.S. Dairy Safety Net

Marin Bozic, University of Minnesota; **John C. Newton**, American Farm Bureau Federation; **Kyle Jore**, University of Minnesota

Estimated Economic Impacts of Retaliatory Tariffs by China and Mexico on U.S. Dairy Products

Luis A. Ribera, Texas A&M University; **Flynn J. Adcock**, Texas A&M University; **Jianhong E. Mu**, Texas A&M University

Can You Really Milk an Almond? Predicting Effects of Mandatory Labeling Changes in U.S. Dairy Markets

Christopher A. Wolf, Michigan State University; **Trey Malone**, Michigan State University

Separated at Milk? Testing for Separability along Multiple Dimensions in a Dairy & Non-Dairy Milk Demand System

Armen Ghazaryan, Colorado State University; **Alessandro Bonanno**, Colorado State University; **Clare Cho**, USDA-Economic Research Service

2027 New Advances in the U.S. Supplemental Poverty Measure

L402, Lobby Level

Track Session - FSN & Senior Sections

Following decades of research on poverty measurement, the Census Bureau, in cooperation with the Bureau of Labor Statistics, released the first Supplemental Poverty Measure (SPM) estimates in a 2011 report. Since then, no major changes have been made to the measure, but research on potential improvements is ongoing. The Office of Management and Budget has established an interagency technical working group, which has set 2021 as a target for implementing methodological improvements. This panel would explore proposals for improvements to the SPM, including: 1) incorporating in-kind benefits into the threshold, 2) valuing nutrition assistance programs; and 3) alternative geographic adjustments to thresholds. The SPM is vital to more completely understanding poverty in the U.S. and, particularly, to understanding need for and anti-poverty effects of USDA nutrition assistance programs overall, in rural and urban communities, and for subgroups of the population.

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

Moderator: Travis A. Smith, University of Georgia

Discussant: Parke E. Wilde, Tufts University

Accounting for In-kind Benefits in Thresholds to Consistency with Resources

Thesia I. Garner, Bureau of Labor Statistics; **Juan Munoz**, Bureau of Labor Statistics

Improving Estimation of Nutritional Assistance Programs in the Supplemental Poverty Measure

Liana Fox, U.S. Census Bureau; **Kathryn Shantz**, U.S. Census Bureau; **Laryssa Mykyta**, U.S. Census Bureau

Incorporating Amenities into Geographic Adjustments for Shelter Costs in the Supplemental Poverty Measure

Trudi J. Renwick, U.S. Census Bureau

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

2028 Career Opportunities for Graduates in Agricultural and Applied Economics

M103, Marquis Level

Track Session - GSS Section

While a large percentage find employment in academia, there are several opportunities available for graduate students elsewhere. This session gathers professionals across governmental agencies and academia to provide attendees with information about occupations in their respective fields as well as career advice. This session will be beneficial to those who are preparing to enter the job market or interested in exploring careers in the agricultural and applied economics sector.

Organizers: Logan L. Britton, Oklahoma State University; William E. Maples, Oklahoma State University

Moderator: Logan L. Britton, Oklahoma State University

Career Opportunities at the Economic Research Service

Jeffrey M. Gillespie, *USDA-Economic Research Service*

Career Opportunities at the Federal Reserve Bank

Cortney A. Cowley, *Federal Reserve Bank of Kansas City*

Career Opportunities at the Centers for Disease Control and Prevention

Tbd Tbd, *Centers for Disease Control and Prevention*

Career Opportunities in Academia

John A. Fox, *University of Illinois at Urbana-Champaign*

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

2029 **Advancements in Experimental and Behavioral Methods Used in Agricultural Economics - Lightning Session**
Suite 4019, 40th Floor

Track Session - EXECON & IBES Sections

This session is designed to highlight developments of experimental and behavioral economic methods. This topic is of great importance given the increasing use of experiments. The first four papers cover recent findings from eye-tracking, highlighting the role of visual attention, and attribute cut-off values on choice behavior. The use of sophisticated models combining choice experiments and eye tracking will also be discussed. Next, methodological issues of choice experiments are addressed by studying the effects of various ex-ante mitigation hypothetical bias techniques on welfare estimates. Following is an innovative experiment that uses glucose monitors exploring the dynamic effects of fast food on blood glucose and dietary behavior. Process-based models help explain choices and provide valuable insights in policy-making. Finally, two papers present producer experiments. The first examines cattle producer management, and the second applies institutional economic theory to soybean producer decision-making.

Organizers: Vincenzina Caputo, Michigan State University; Carola Grebitus, Arizona State University

Moderator: Hayk Khachatryan, University of Florida

Studying Visual Attention during Food Choice Behavior

Ellen J. Van Loo, Wageningen University; Carola Grebitus, Arizona State University; Wim A.J. Verbeke, University of Ghent

Using Attention to Nutrition Information During Passive Viewing to Predict Subsequent Choice

Brandon R. McFadden, University of Delaware; Alicia Rihn, University of Florida; Xuan Wei, University of Florida; Zachary Neuhofer, University of Florida; Hayk Khachatryan, University of Florida

The Effect of Attribute Cut-off Values on Decision Making: An Eye-tracking Experiment

Carola Grebitus, Arizona State University; Ellen J. Van Loo, Wageningen University

Going Beyond Choice Outcomes to Infer Preferences: How Eye-tracking Can Improve Our Understanding of the Choice Process

Samir Huseynov, Texas A&M University; Marco A. Palma, Texas A&M University; Ghufuran Ahmad, National University of Sciences and Technology

The Use of Ex-ante Hypothetical Bias Techniques in Developing Countries: An Application on Consumer Preference for Aflatoxin-safe Products in Nigeria

Vincenzina Caputo, Michigan State University; Saweda Liverpool-Tasie, Michigan State University

Behavioral Response to Controlled Dietary Intake with Continuous Glucose Monitoring

Trenton G. Smith, University of Otago; Nathan Berg, University of Otago; Bernard Venn, University of Otago

Experimental Evidence on the Make-Buy Pesticide Application Decision

Trey Malone, Michigan State University; Braeden Van Deynze, Michigan State University

Implementation of a Producer Survey: Examining Cattle Producer Management of Horn Flies

Karen L. DeLong, University of Tennessee; R.T. Trout Fryxell, University of Tennessee; Susan Schexnayder, University of Tennessee; Andrew P. Griffith, University of Tennessee; David Taylor, USDA-Agricultural Research Service; Pia Olafson, USDA-Agricultural Research Service; Lettie McKay, University of Tennessee

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

2030 Strategies to Adapt to and Mitigate the Effects of Climate Change in Latin America

L401, Lobby Level

Track Session - International & LAS Sections

Understanding the effects of climate change and farmers strategies to adapt to these changes is important. Papers in this session seek to analyze how new technologies, practices, and crop mixes can help farmers mitigate and adapt to the effects of climate change. The first two papers evaluate the optimal crop-mix in the presence of carbon sequestration incentives, and the optimal portfolio of production activities that maximize net farm revenue in Colombia. The third paper analyzes the association among livelihood capitals and environmental vulnerability with farmers' investments in social and ecological adaptation strategies to increases in temperature in the Bolivian High Plateau. The fourth paper identifies factors affecting Ecuadorian potato farmers' decisions to adopt production practices that help both mitigate the effects of climate change and reduce GHG emissions associated with the use of nitrogen fertilizers.

Organizer: Graciela C. Andrango, Western Illinois University

Moderator: Alexis H. Villacis Aveiga, Virginia Tech

Carbon Sequestration Incentives in Policy Government: Application in Optimization Modeling

Luis M. Peña-Lévano, University of Florida; **Paul Preckel**, Purdue University; **James M. Lowenberg-DeBoer**, Harper Adams University; **Carlos A. Fontanilla-Díaz**, Purdue University; **Emiliano López Barrera**, Purdue University; **Kenneth A. Foster**, Purdue University; **John H. Sanders**, Purdue University; **Kevin Jerez**, South Dakota State University

Optimal Crop Choices for the Altillanura, the Last Agricultural Frontier from Colombia

Carlos A. Fontanilla-Díaz, Purdue University; **Paul Preckel**, Purdue University; **James M. Lowenberg-DeBoer**, Harper Adams University; **John H. Sanders**, Purdue University; **Luis M. Peña-Lévano**, University of Florida

Landscapes, Livelihoods and Resilience in the Context of Climate Change in Andean Landscapes

Corinne Valdivia, University of Missouri; **Karina Yager**, Stony Brook University, New York; **Elizabeth Jiménez**, Universidad Mayor San Andres; **Shirley Rojas Salazar**, University of Missouri

Determinants of Potato Farmers' Adoption of Agricultural Practices to Mitigate Climate Change Effects in the Andean Region of Ecuador

Graciela C. Andrango, Western Illinois University; **Jeffrey Alwang**, Virginia Tech; **Víctor Barrera Mosquera**, INAIA-Ecuador; **Luis Escudero**, National Institute of Agricultural and Livestock Research of Ecuador; **Juan Manuel Domínguez**, ESPAE Graduate School of Management

2511 Food Access and Nutritional Quality of Low-Income Americans and SNAP Participation

Suite 3819, 38th Floor

Selected Presentation

Low-income Americans have difficulty accessing and purchasing nutrient-dense foods. Presenters in this session explore how distance from grocers, the SNAP benefit cycle, housing assistance, transaction costs, and SNAP participation affect food purchases and nutritional quality. The papers push the boundaries of the literature on food access for low-income Americans with new data, adapted methods, and innovative research questions.

Moderator: Emiliano López Barrera, Purdue University

Do Food Deserts Affect Food Insecurity when Defined More Broadly?

Jared D. Grant, University of Georgia; **Jeffrey H. Dorfman**, University of Georgia

Transaction Costs and the SNAP Benefit Cycle

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

Differences in Nutrition Quality of Grocery Purchases Between SNAP Participants and Non-participants: Evidence from Food APS

Yu Chen, The University of Georgia; **Biing-Hwan Lin**, USDA-Economic Research Service; **Chen Zhen**, University of Georgia

SNAP as Housing Assistance: Using a Fuzzy Regression Kink Design to Examine the SNAP Excess Shelter Deduction and Housing-related Financial Stress

Mehreen Ismail, Tufts University; **Parke E. Wilde**, Tufts University

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

2031 **USDA Forecast Quality: Current State and Paths for Improvement**

Suite 3819, 38th Floor

Invited Paper

This session is designed to examine the quality of USDA forecasts and offer suggestions for their improvement. It provides a better understanding of how various USDA forecasts are currently calculated and the problems with the accuracy and efficiency in these forecasts, and explores innovative methods for addressing these problems.

Organizer: Berna Karali, University of Georgia

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

Discussant: Joseph W. Glauber, International Food Policy Research Institute

Relative Accuracy of USDA Crop Acreage and Production Forecasts

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

Evaluating USDA Forecasts of Farm Sector Accounts

Olga Isengildina Massa, Virginia Tech; Berna Karali, University of Georgia; Todd H. Kuethe, University of Illinois at Urbana-Champaign; Ani Katchova, The Ohio State University

Improving USDA Commodity Price Forecasts

Michael K. Adjemian, USDA-Economic Research Service; Valentina Bruno, American University; Michel A. Robe, University of Illinois at Urbana-Champaign

2032 **Food Waste and Loss: Global Perspectives and Local Challenges**

M106, Marquis Level

Organized Symposium

The purpose of this proposed symposium is to discuss the linkages between food waste, food security, and environmental health. It includes both global perspectives and local analyses of potential solutions. This session aims to shed light on food waste-related issues faced both in industrialized countries where consumer food waste is dominant and developing regions where post-harvest losses are more important. The proposed symposium will start by addressing global patterns of food waste and the potential for mitigation of these losses to improve environmental outcomes to then shift to specific insights for reducing food waste across different stages of the supply chain.

Organizers: Thomas W. Hertel, Purdue University; Emiliano López Barrera, Purdue University; Brian E. Roe, The Ohio State University

Moderator: Jayson L. Lusk, Purdue University

Discussant: Prabhu L. Pingali, Cornell University

Panelists: Kathryn A. Boys, North Carolina State University; Thomas W. Hertel, Purdue University; Emiliano López Barrera, Purdue University; Danyi Qi, Louisiana State University; Brian E. Roe, The Ohio State University

“Linking Food Availability and Waste in the Global Economy

Emiliano López Barrera, Purdue University; Thomas W. Hertel, Purdue University

“Putting Dollars to Waste: Estimating the Value of On-Farm Food Loss

Kathryn A. Boys, North Carolina State University; Rebecca Dunning, North Carolina State University

“Household Food Waste and Home Livestock Production: Implications of Market Liberalization for Food Waste”

Danyi Qi, Louisiana State University; Wangyang Lai, The Ohio State University; Brian E. Roe, The Ohio State University

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

2033 Pull Mechanisms and Prize Contests in the Field: Impacts of AgResults and Other Innovation Incentives

Suite 3939, 39th Floor

Organized Symposium

Pay-for-result competitions are often introduced by funders in agriculture and other sectors, offering “pull mechanisms” to reward results that are difficult to fund through traditional grants or contracts. New incentives create demand for innovation beyond existing markets, pulling efforts towards the funder’s criteria for prize payments. This AAEA symposium will debate the strengths and limitations of pay-for-results approaches, focusing on impacts to date of the multi-donor \$147 million AgResults program and other recent studies.

Organizer: Tulika Narayan, Abt Associates Inc.

Panelists: William A. Masters, Tufts University; Brian D. Wright, University of California, Berkeley

Pull Mechanisms and Prize Contests in the Field: Impacts of AgResults and Other Innovation Incentives

Tulika Narayan, Abt Associates Inc.

2034 Info-Metrics for Modeling and Inference

M103, Marquis Level

Organized Symposium

Info-metrics is a framework for rational inference based on insufficient information. It provides a logical framework for converting input information – including complex, noisy and uncertain information – into useful knowledge. It is the science of modeling, reasoning, and drawing inferences under conditions of noisy and insufficient information. It is at the intersection of information theory, statistical inference, and decision-making under uncertainty. It is a framework for modeling and processing the available information with minimal reliance on assumptions that cannot be validated. It provides a simple and efficient way for modeling all types of economic systems and problems. It plays an important role in helping make informed decisions and improved policies. It is, therefore, a valuable tool for all researchers and modelers, for studying and analyzing policies, and for establishing improved forecasts and predictions. The objective of this symposium is to demonstrate the info-metrics framework and tools for solving a host of common problems faced by agricultural and applied economists. In addition to the basic state of the art framework and tools, a special emphasis will be put on modeling and prediction.

Organizers: Amos Golan, American University; Ximing Wu, Texas A&M University

Moderator: Ron C. Mittelhammer, Washington State University

Discussant: Ron C. Mittelhammer, Washington State University

Panelists: Amos Golan, American University; Paul Preckel, Purdue University; Ximing Wu, Texas A&M University

2035 Agricultural Cooperatives and ICT Technology Application in Agriculture

M108, Marquis Level

Selected Presentation

This session has a dual focus involving examination of issues related to agricultural cooperatives and the role of information and communication technology application in agriculture.

Moderator: Zhengfei Guan, University of Florida

Social Embeddedness and Rural Cooperation: The Moderating Effects of National Culture on the Governance of Farmer Cooperatives

Qiao Liang, Zhejiang University; Han Dong, Zhejiang University; Adrian Bailey, Exeter University; Weibin Hu, Zhejiang University; Fu Jia, York University

Cooperative Member Commitment, Trust and Social Pressure

Jinghui Hao, Huazhong Agricultural University; *Jos Bijman, Wageningen University; Wim Heijman, Wageningen University; Caifeng Tan, Huazhong Agricultural University*

An Analysis of the Fair Profit Distribution in the Smart Farm Rental Business using a Shapley-value Approach

Miseok Kim, Chungbuk National University; So-Jin Kim, Chungbuk National University; Do-il Yoo, Chungbuk National University

The Impact of Mobile Money on Smallholder Producer Resilience: Evidence from Kenya

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

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

2036 Behavioral Economics of Consumer Food Choice

M109, Marquis Level

Selected Presentation

Papers in this session explore advances in methods for studying cognitive processes underlying consumers' food choices. A number of these papers also examine how consumers seek and process information in making these decisions.

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

A Framing Effect of Sugar Content Labeling on Sugar Intake: Evidence from Online Choice Experiment

Sanghyo Kim, Korea Rural Economic Institute; Seong-Yoon Heo, Korea Rural Economic Institute

Neural Antecedents in Reflection: The Application of food Choice Analysis with fNIRS Methodology

Antje Risius, University of Göttingen; Clara Mehlhose, University Göttingen; Konstanze Ullmann, University Göttingen

Information Avoidance Behavior: Does Ignorance Keep Us Uninformed?

Syed Imran Ali Meerza, University of Nebraska-Lincoln; Amalia Yiannaka, University of Nebraska-Lincoln; Kathleen R. Brooks, University of Nebraska-Lincoln; Christopher R. Gustafson, University of Nebraska-Lincoln

2037 Space and Risk in Nonmarket Valuation

M303, Marquis Level

Selected Presentation

This session features research that investigates heterogeneous space and risk-induced human behaviors. These papers focus on addressing existing challenges in nonmarket valuation with novel methodological advances.

Moderator: Michael S. Jones, North Carolina State University

Valuation of Wetland Restoration Program in Arkansas: Evidence from the Housing Market

Matthew S. Richardson, University of Arkansas, Pine Bluff; Pengfei Liu, University of Arkansas, Pine Bluff; Michael Eggleton, University of Arkansas, Pine Bluff

The Spatial Distribution of WTP and Status Quo Effects: An Application to the Chesapeake Bay Watershed

Dennis Guignet, Appalachian State University; Chris Moore, United States Environmental Protection Agency; **Haoluan Wang**, University of Maryland, College Park

Landscape-level Pest Control Externalities when Consumer Preferences are Non-neutral

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

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

2038 Insights into Consumer Demand for Food Products: A Series of Innovative Studies

M304, Marquis Level

Selected Presentation

This Lightning Session brings together collection of studies which examine aspects of consumer behavior and demand for specialty foods and food attributes. A variety of food product examples, drawn from both developed and developing country settings, are considered. Papers in this session, first consider farm (and fishery) products, then processed foods. The final papers in this session examine challenges of marketing unlabeled and generic food products given the dominant trend of food product differentiation through labeling and certification schemes.

Moderator: Ting Meng, China Agricultural University

Farmers as Suppliers of Fish: Household Seafood and Aquaculture Expenditure

Ting Meng, China Agricultural University; Chunxiao Wang, Shanghai Ocean University; Wojciech J. Florkowski, University of Georgia; Zhenyong Yang, Shanghai Ocean University

Farm Animal Welfare Perceptions and Parent-child Linkage in Dairy Consumption: Evidence from a Field Survey

Kota Minegishi, University of Minnesota; Albert K. Boatey, University of Alberta

Personality Traits and Preferences for Specialty Coffee: Results from a Coffee Shop Field Experiment

Danielle Ufer, Michigan State University; Wen Lin, Michigan State University; David L. Ortega, Michigan State University

The Influence of Wine Awards and Sustainability Labels on Consumers' WTP: An Experimental Study at the Example of German "Riesling"

Jeanette Leila Klink-Lehmann, University of Bonn; Ching-Hua Yeh, University of Bonn; Monika Hartmann, University of Bonn

The Stigma Impact of Non-GMO Label on Conventional Unlabeled Alcohol Products

Jie Li, Cornell University; Zekun Ma, Cornell University; Miguel I. Gomez, Cornell University; D. Adeline Yeh, Cornell University; Frank Ge, Cornell University

Winning Back Lapsed Consumer for the Generic Food Product

Lijun Chen, University of Florida; Yan Heng, University of Florida; Lisa A. House, University of Florida

A Hedonic Price Analysis of Processed Food Attributes in Tanzania

Jason E. Snyder, Michigan State University; David L. Tschirley, Michigan State University; **Thomas A. Reardon**, Michigan State University; Brent R. Ross, Michigan State University

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

2039 Risk, Risk, and Risk

Suite 3803, 38th Floor

Selected Presentation

Risk comes in many shapes and sizes and how producers mitigate risk depends on many factors. Some factors, like trade liberalization can both decrease risk (e.g., marketing risk) and increase risk (e.g., yield risk from disease). Decisions about risk mitigation, like crop insurance, are heterogeneous among producers and not necessarily optimal. This session will provide attendees with a wealth of knowledge by covering sources of risk, ways to mitigate risk, and how risk may be affected by innovation.

Moderator: Jisang Yu, Kansas State University

Swine Producer Willingness to Pay for Tier 1 Disease Risk Mitigation Under Ambiguity

Jiwon Lee, Iowa State University; Lee Schulz, Iowa State University; Glynn T. Tonsor, Kansas State University

Adverse Selection in Specialty Crop Insurance Markets: Evidence from the CAT Participation

Hyunok Lee, University of California, Davis; Daniel A. Sumner, University of California, Davis; **Jisang Yu**, Kansas State University

Distributional Impacts of the Federal Crop Insurance: Crop and Regional Differences

Charalampos Mavroutsikos, University of Nebraska-Lincoln; Cory G. Walters, University of Nebraska-Lincoln; Konstantinos Giannakas, University of Nebraska-Lincoln

Inadvertent Returns Through Crop Insurance Contract Selection

Sankalp Sharma, Kent State University, Tuscarawas; Cory G. Walters, University of Nebraska-Lincoln

Federal Crop Insurance Participation and On-Farm Nitrogen Balance

Jennifer E. Ifft, Cornell University; **Margaret C. Jodlowski**, Cornell University

The Impacts of Trade Liberalization and Price Risks on Crop Supply Response Under Price Supports

Cherry Kim, Seoul National University; Kwansoo Kim, Seoul National University

Yield Risk, Price Risk, and Demand for Crop Insurance

Stephanie D. Rosch, USDA-Economic Research Service; Andrew Crane-Droesch, USDA-Economic Research Service

2040 Agricultural Policy and Trade in Grains

Suite 4024, 40th Floor

Selected Presentation

Federal policies like price supports and renewable fuel standards can have significant implications for trade in world grain markets. This session covers the implications of a range of policies, from EU import taxes and Chinese price supports to U.S. biofuel subsidies. Attendees will come away with an understanding of how different factors affect global trade patterns in grains.

Moderator: Adam N. Rabinowitz, University of Georgia

Impact of Domestic and Trade Policies on Adoption of a Biofuel Crop in Dryland Wheat-Based Farming Systems in U.S. Pacific Northwest

Seojin Cho, Oregon State University; John M. Antle, Oregon State University

Trade in CRISPR Wheat: A Partial Equilibrium Analysis

Prince Fosu, North Dakota State University; **Thomas I. Wahl**, North Dakota State University

The Effect of Variable EU Import Levies on Corn Price Volatility

Jurij Berger, University of Göttingen; **Bernhard Dalheimer**, University of Göttingen; Bernhard Bruemmer, University of Göttingen

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

2041 Compensation, Incentives and Productivity

Suite 3824, 38th Floor

Selected Presentation - Discussant Test Session

The studies in this session examine the consequences of various labor market compensation structures, non market mechanisms and large external shocks on labor supply and productivity.

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

Labor Market Effects of In-Kind Food Subsidies

Aditya Shrinivas, University of Illinois at Urbana-Champaign

Do Credit Unions have Distinct Objectives? Evidence from Executive Compensation Structures

Jordan Van Rijn, University of Wisconsin-Madison; Shuwei Zeng, University of Wisconsin-Madison; Brent M. Hueth, University of Wisconsin-Madison

Natural Disasters and The Spatial Distribution of Labor and Productivity: Evidence from Indonesia

Shang Xu, The Ohio State University; *Allen Klaiber, The Ohio State University; Daniela A. Miteva, The Ohio State University*

The Dynamics of Reservation Wages: Evidence from a Large Job Board in Argentina

Brian H. Feld, University of Illinois at Urbana-Champaign

2042 International Development - Migration

Suite 3839, 38th Floor

Selected Presentation

This group of papers examines both the causes and impacts of migration within and between countries.

Moderator: Eduardo Cenci, University of Wisconsin-Madison

Climate Change, Migration, and Irrigation

Theo Benonnier, ENS Cachan; Katrin Millock, Paris School of Economics; Vis P. Taraz, Smith College

Short-term Returns to Agricultural Household Migration Decisions: Evidence from a Tracking Panel Data Study in Malawi

Nina Jovanovic, Purdue University; *Albert Alwang, Virginia Tech; Jacob Ricker-Gilbert, Purdue University*

Emigration and Rising Wages in Myanmar: Evidence from Mon State

Mateusz J. Filipski, University of Georgia; *Hak Lim Lee, International Food Policy Research Institute; Aung Hein, Princeton University; Ulrike Nischan, International Food Policy Research Institute*

Internal Migration and the Spread of Long-term Impacts of Historical Immigration in Brazil

Eduardo Cenci, University of Wisconsin-Madison; *Daniel A. F. Lopes, Institute for Applied Economic Research; Leonardo M. Monasterio, Institute for Applied Economic Research*

2043 International Development - New Methods

Suite 3903, 39th Floor

Selected Presentation

This session includes papers taking new approaches – from machine learning to alternative estimators to experiments in the field.

Moderator: Sandra M. Contreras, Kansas State University

U.S. Humanitarian Food Aid and Civil Conflict in Sub-Saharan Africa: Evidence from Nonlinear Fractional Panel Data Models

Sébastien Mary, University of Kansas; *Ashok K. Mishra, Arizona State University*

Cooperation and the Provision of Local Public Goods in Remote Rural Communities

Patrick S. Ward, Duke Kunshan University; *Muzna F. Alvi, International Food Policy Research Institute; Simrin Makhija, International Food Policy Research Institute; David J. Spielman, International Food Policy Research Institute*

Predict Food Security with Machine Learning: Application in Eastern Africa

Yujun Zhou, University of Illinois at Urbana-Champaign; *Kathy Baylis, University of Illinois at Urbana-Champaign*

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

2044 Climate, Water Scarcity, and Agricultural Adaptation

Suite 3919, 39th Floor

Selected Presentation - Discussant Test Session

This session explores the multiple margins along which agricultural producers adapt to climate change. The papers evaluate theoretically and empirically how changes in the mean and variability of temperature and precipitation affect the use of land, water, and fertilizer over the short and long-run.

Moderator: Yefan Nian, University of Florida

Effects of Water Scarcity, Climate Variability, and Risk Management Policy on Cropland Allocation, Water Use, and Irrigation Technology Adoption on the U.S. West Coast

Jian Shi, Oregon State University; **JunJie Wu**, Oregon State University

Estimating the Adaptive Benefits of Water Market Reform for Californian Irrigated Agriculture

Jesus Arellano Gonzalez, University of California, Davis; **Frances Moore**, University of California, Davis; **Amir AghaKouchak**, University of California, Irvine; **Yue Qin**, University of California, Irvine; **Steven Davis**, University of California, Irvine; **Jennifer Burney**, University of California, San Diego; **Morgan Levy**, University of California, San Diego

Adapting to Water Scarcity: Evidence from Irrigated Agriculture

Nick Hagerty, University of California, Berkeley

Agricultural Adaptation to Climate Change in the United States: Implications for Fertilizer Use and Water Quality

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

2045 Advances in Production Modeling Using Improved Soil Data

Suite 3924, 39th Floor

Selected Presentation

Papers in this session highlight new approaches to agricultural production modeling that incorporate improved information on soil variables (such as moisture, quality, and type). Applications to fieldwork management, climate change impacts, and sub-field yield variation are discussed.

Moderator: Seong Do Yun, Mississippi State University

Economic Management and Climatic Challenges Posed by Days Suitable for Field Work in the U.S. Corn Belt

Ben Gramig, University of Illinois at Urbana-Champaign; **Seong Do Yun**, Mississippi State University

Bumper Crop or Dearth: An Economic Methodology to Identify the Disruptive Effects of Climatic Variables on French Agriculture

Simone Pieralli, French National Institute for Agricultural Research

Soil Conditioned Climate Effects Matter when Modeling Crop Yields

Elliott J. Dennis, University of Nebraska-Lincoln; **Trevor Hefley**, Kansas State University; **Jesse B. Tack**, Kansas State University; **Nathan P. Hendricks**, Kansas State University

How Much Within-Field Yield Variability Can be Explained by Public Soil Data?

Xiaofei Li, Mississippi State University

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

2046 Productivity Analysis and Emerging Technologies - Productivity Factors for Crop Farming in Sub-Saharan Africa Suite 3934, 39th Floor

Selected Presentation - Discussant Test Session

This session explores a range of factors, beyond traditionally construed input technologies, that are related to productivity in crop farming systems in sub-Saharan Africa. Issues include information, dietary quality, gender, and intensification.

Moderator: Jose E. Funes, University of Maryland at College Park

Know What you Sow: The Cost of Seed Type Misidentification in Tanzania

Federico J. Trindade, University of Washington; Ayala Y. Wineman, Michigan State University; C. Leigh Anderson, University of Washington; Timothy Njagi, Tegemeo Institute for Agricultural Policy and Development

A Case for Space: The Efficiency Spillover Effect of Iron Biofortified Beans in Rwanda

Jose E. Funes, University of Maryland at College Park; Laixiang Sun, University of Maryland; Todd Benson, International Food Policy Research Institute; Fernando Sedano, University of Maryland

Are Productivity Differentials between Men and Women Real? Evidence from Groundnut Farmers in Malawi

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

The Impacts of Sustainable Intensification of Maize Production on Crop Income and Productivity: Evidence from Rural Tanzania

Jongwoo Kim, Michigan State University; Nicole M. Mason, Michigan State University

2047 Pollution Regulation, Violation and Disbelief

Suite 4019, 40th Floor

Selected Presentation - Discussant Test Session

The papers in this session present theoretical and empirical analyses of pollution regulation and policy design, contrasted with a study of the influences of political persuasion and local environmental conditions on environmental concern and skepticism.

Moderator: Aaron Cook, The Pennsylvania State University

Air Pollution Violations in China

Wei Guo, University of California, Berkeley

Hard NOx: Identifying Spillovers and Operational Inefficiencies Within the EPA NOx Budget Trading Program

Kevin Nakolan, University of California, Davis

Achieving Least-Cost Emissions Targets for Multiple Pollutants: Sequential vs. Simultaneous Policies

Aaron Cook, The Pennsylvania State University; James S. Shortle, The Pennsylvania State University

Heterogeneous Relationship of Environmental Concerns and Political Orientations in the United States

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

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

2048 Risk and Uncertainty - Lightning Session

Suite 4039, 40th Floor

Selected Presentation - Lightning Session

Papers in this lightning session focus on how risk and uncertainty affect people's behaviors in a variety of contexts ranging from food waste to natural hazards.

Moderator: Meilin Ma, Purdue University

Farm Investment under Insecure Land Lease Contracts: Evidence from Large Commercial Farms in China

Meilin Ma, Purdue University

Input Use under Cost-of-Production Crop Insurance: Theory and Evidence

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

Roles of Date Labels and Loss Aversion in Food Waste: An Experimental Approach

Norbert L.W. Wilson, Tufts University; **Ruiqing Miao**, Auburn University; **Carter Weis**, Cornell University

Do Natural Hazards in the Gulf Coast Still Matter for State-level Natural Gas Prices? Evidence after the Shale Gas Boom

Kuan-Ming Huang, West Virginia University; **Xiaoli L. Etienne**, West Virginia University

Spring Frost in Apple Orchards: Quality Effects can Outweigh Quantity Effects

Tobias Dalhaus, ETH Zürich; **Michael M. Blanke**, University of Bonn; **Esther Bravin**, Agroscope; **Dominique Dietiker**, Agridea, Switzerland; **Robert Finger**, ETH Zürich

Production, Market, and Labor Risk: Which Matters More?

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

The Effect of Regulatory Uncertainty on Ambient Pollution Levels: Evidence from the Clean Water Act

Tihitina Andarge, University of Maryland, College Park

2049 Rural Broadband and Local Foods

Suite 4003, 40th Floor

Selected Presentation - Discussant Test Session

This session explores rural broadband, local foods and approaches that impact regional economies.

Moderator: Anna Josephson, University of Arizona

Economic and Policy Analysis of Potential Deployment of Rural Broadband in Indiana

Alison Grant, Purdue University; **Wallace E. Tyner**, Purdue University; **Lawrence P. DeBoer**, Purdue University

Exploring the Underlying Economics of Local Food Producers: Opportunities for Rural Economic Development

Allison Bauman, Colorado State University; **Becca B. R. Jablonski**, Colorado State University; **Dawn D. Thilmany McFadden**, Colorado State University

The "New Location Theory" Applied to Production Agriculture: A Multivariate Approach

Paul D. Gottlieb, Rutgers University; **Elizabeth A. Dobis**, The Pennsylvania State University; **Anil Hira**, Simon Fraser University; **Neil Reid**, University of Toledo; **Stephan J. Goetz**, The Pennsylvania State University

The Impact of Groundwater on Economic Outcomes in the Ogallala Region

Jordan F. Suter, Colorado State University; **Mani Rouhi Rad**, Colorado State University; **Dale Manning**, Colorado State University; **Lacey K. Moore**, Colorado State University; **Christopher Goemans**, Colorado State University

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

2050 Innovative Methods in Teaching Agribusiness and Cooperative Education

M102, Marquis Level

Track Session - AEM Section

New technology and mediums for education are leading to innovative methods in teaching Agribusiness and Cooperative Education. This track session covers some of the latest methods being utilized by Agribusiness and Cooperative Educators. Presentations cover use of online and distance education tools, agribusiness simulation tools, data analytics and decision-making tools, and industry engaged learning projects. Presenters will discuss their positive and negative experiences of using innovative methods in education and the lessons they learned. The purpose is to keep participants aware of the latest methods and strategies being used to implement innovative teaching methods to meet learning objectives in Agribusiness and Cooperative Education that best prepares future leaders in agribusinesses.

Organizer: Matthew Elliott, South Dakota State University

Using Capsim for Agribusiness Undergraduate, Graduate, and Extension Education

Michael A. Gunderson, Purdue University

Using Data Analytics and Decision Making Tools for Agribusiness and Extension Education

Matthew Elliott, South Dakota State University

Using Distance Learning Tools to Deliver Cooperative and Extension Education

Frayne Olson, North Dakota State University

Using Industry Engaged Learning Projects in Cooperative and Agribusiness Education

Todd M. Schmit, Cornell University

2051 Land Values and Land Rent under Higher Interest Rates and Growing Trade Uncertainty

L401, Lobby Level

Track Session - AFM & EXT Sections

Farmland represents 83% of U.S. farm assets and is often the single largest item in a producer's investment portfolio. Currently, farmland values and cash rent across the U.S. Corn Belt and Great Plains are under significant downward pressures. In particular, Fed Reserve is and will continue to rise interest rates and U.S. agriculture witnessed trade disputes of unprecedented scale with key trading partners, especially China. This session introduces developments in agricultural trade and interest rates, discusses the U.S. producers' perceived impacts, and analyzes the impacts of rising interest rates and growing agricultural trade uncertainty on farmland values and cash rent in the midwest, as well as pastureland values and irrigated cropland values in the Great Plains.

Organizer: Wendong Zhang, Iowa State University

Producers' Perspective on Trade Impacts and Future Land Value Expectations from Ag Economy Barometer

Michael R. Langemeier, Purdue University; **James R. Mintert**, Purdue University

The Impact of Interest Rate Hikes and Agricultural Trade Uncertainty on Midwestern Farmland Values

Wendong Zhang, Iowa State University; *Albulena Basha*, Iowa State University; *Chad E. Hart*, Iowa State University

The Impact of Interest Rate Hikes and Agricultural Trade Uncertainty on Cash Rent

Gary D. Schnitkey, University of Illinois at Urbana-Champaign

Developments in Agricultural Trade and Interest Rates, and Potential Implications for Farmland Values

Cortney A. Cowley, Federal Reserve Bank of Kansas City; **Nate Kauffman**, Federal Reserve Bank of Kansas City

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

2052 Agricultural International Trade: Roles, Influences and Challenges for both China and the World - Lightning Session L406, Lobby Level

Track Session - China Section

The U.S. and China are the two largest economies in the world and they are also significant trade partners to each other. This session seeks to explore the roles, influences, and challenges of international agricultural trade for both the U.S. and China as well as the implications to the world market.

Organizer: Baohui Song, California State University, Chico

Was WTO Entry of China a Mistake? The Role of Increasing Agricultural Import to Chinese and Worldwide Agriculture

Naixi Liu, School of International Economics, China Foreign Affairs University; **Pingping Wang**, China Agricultural University/Iowa State University

WTO Agricultural Domestic Support: Dispute Over Calculation Methodology and Compliance Determination of Aggregate Measurement of Support

Guoqiang Cheng, Tongji University; **Xiaohong Wu**, Tongji University

The Heterogeneous Impact of Exchange Rate Volatility on Agricultural Export: Evidence from Chinese Food Firm-level Data

Yue Jin, Zhejiang University; **Shaosheng Jin**, Zhejiang University

Dynamic and Spillover Effects of Import Refusals on Sino-U.S. Agricultural Trade: Evidence from Monthly Data

Yu Wang, Zhejiang University; **Jiehong Zhou**, Zhejiang University; **Rui Mao**, Zhejiang University

U.S.-China Sorghum Trade Analysis Within the Trade War: Growth, Trends, and Forecast

Wei Zhang, University of Kentucky; **Mary Marchant**, Virginia Tech; **James M. Hansen**, USDA-Economic Research Service

Impact of U.S.-China Trade Dispute on American Consumers' Attitudes towards Agricultural Products

Lijun Guan, Zhejiang University; **Yu Yvette Zhang**, Texas A&M University; **Shaosheng Jin**, Zhejiang University

The Impacts of China's Soybean Policies on World Soybean Price and Price Variability

Wenting Wang, Zhejiang University; **Dermot J. Hayes**, Iowa State University

When Will a Peak Demand for Grain Appear in China: Impact of Demographic Changes

Xiao Han, China Agricultural University; **Guoqiang Cheng**, Tongji University

2053 Exploring Collaborations Between Federal Reserve Banks and AAEA Members on Community Development Topics L403, Lobby Level

Track Session - CRENET & Senior Sections

Each of the twelve regional Federal Reserve Banks works on community development issues, and community development projects undertaken by AAEA members could benefit from greater collaboration with these institutions. The goal of the track session is to foster enhanced understanding of on-going research on community development topics within the Federal Reserve Bank of Atlanta, and to explore opportunities for collaboration between AAEA membership and regional Federal Reserve Banks. The session will feature presentations by three staff members of the Federal Reserve Bank of Atlanta about ongoing community development research on workforce development, healthcare, and affordable housing. The session will also feature a presentation on outreach efforts spearheaded by the Federal Reserve System on increasing capital flows to the food system.

Organizer: Jeffrey K. O'Hara, USDA-Agricultural Marketing Service

Moderator: Jeffrey K. O'Hara, USDA-Agricultural Marketing Service

Research Under the Umbrella of Workforce Development at the Atlanta Fed

Alex Ruder, Federal Reserve Bank of Atlanta

Research Under the Umbrella of Healthcare and Community Development Collaborations and Anchor Institution Collaborations at the Atlanta Fed

Sameera Fazili, Federal Reserve Bank of Atlanta

Research Under the Umbrella of Affordable Housing at the Atlanta Fed

Ann Carpenter, Federal Reserve Bank of Atlanta

The Federal Reserve Banks and Food Systems: Harvesting Opportunity

Becca B. R. Jablonski, Colorado State University

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

2054 Big Data and the Econometrics of Health

L404, Lobby Level

Track Session - Econometrics Section & ISESSAH

This is a track session between the AAEA Econometrics Section and ISESSAH. The session will focus on applications of econometric tools applied to big data problems in health. Danny Hughes, Professor and Director, Health Economics and Analytics Lab (HEAL), Georgia Institute of Technology is the primary speaker on the general topic of analytics on big data for health, followed by Gabrielle Miller from CDC and Youngran Choi from Washington State University. Miller applies mediation analysis to MarketScan data to investigate traumatic brain injury and suicide. Choi uses machine learning to the assessment of vaccine programs using a panel data set in Kenya. Moderator and discussant is Thomas Marsh from Washington State University.

Organizer: Thomas L. Marsh, Washington State University

Discussant: Thomas L. Marsh, Washington State University

Big Data Analytics for Health

Danny R. Hughes, Georgia Institute of Technology

Mediation Analysis on Traumatic Brain Injury and Suicide

Gabrielle Miller, Centers for Disease Control and Prevention

Machine Learning Techniques for Vaccine Program Assessment in Kenya

Youngran Choi, Washington State University

2055 Issues Impacting Livestock, Poultry and Dairy Outlook

M104, Marquis Level

Track Session - COSBAE & EXT Sections

The U.S. livestock, dairy, and poultry industries continue to undergo a number of changes. For example, the U.S. hog industry has experienced structural changes and shifting marketing trends. The cattle and hog industries have seen a growth in industry concentration and economies of scale, leading to changes in cattle and hog production cycles. Meanwhile, Southeast Asia's food demand is expected to grow substantially in the coming decades, creating opportunities for major growth in dairy imports. Finally, meat and dairy analogs from cellular agriculture are forming an emerging industry. All of these changes may influence the production costs, supply, prices, and demand for dairy, livestock, and poultry commodities. This session will aim to highlight some of these ongoing industry changes and facilitate discussion on their policy and economic implications.

Organizer: Jeffrey M. Gillespie, USDA-Economic Research Service

Moderator: Josh Maples, Mississippi State University

Status of Competition for Southeast Asia Dairy Imports: Effects of Import Prices and Growth

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

Changing Features of Cattle and Hog Cycles

William F. Hahn, USDA-Economic Research Service

U.S. Pork Production and Marketing Trends and Patterns

Lee Schulz, Iowa State University

Economics of Cellular Agriculture Analogs in the Meat and Dairy Industry

Monica Saavoss, USDA-Economic Research Service

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

2056 Global Contemporary Issues Regarding Consumer Preferences for Food and Nutrition Quality - Lightning Session
L402, Lobby Level

Track Session - FAMPS & FSN Sections

The increasing and more heterogeneous demand for food quality worldwide poses new challenges to food industries and regulators. Food industries are striving for product differentiation to increase their market share. In the meantime, regulators need to keep a close eye on the market development, and propose new rules/regulations (e.g., organic standards, country of origin labeling, Nutrition Facts labeling), if necessary, to increase overall social welfare. The essential information that both food industries and regulators need before taking any actions is regarding consumer preferences for food and nutrition quality. This lighting session consists of eight papers focusing on various issues regarding consumer preferences for food quality attributes and nutrition factors in the United States, United Kingdom, Italy, and China. These topics would be of great interests to AAFA participants and promote valuable discussion regarding the future development of food marketing and policies.

Organizer: Zhifeng Gao, University of Florida

Italian Consumer Preferences for Health Claims on Extra-Virgin Olive Oil

Vincenzina Caputo, Michigan State University; Giovanna Sacchi, Ca'Foscari University of Venice

Consumer Information Seeking and Healthy Food Choices: Interrelationship Between Front-of-Package and Back-of-Package Labels

Xuqi Chen, University of Florida; Zhifeng Gao, University of Florida; Lisa A. House, University of Florida

British Consumer Preferences for Growth Hormone Free Beef

Karen L. DeLong, University of Tennessee; Carola Grebitus, Arizona State University; Troy G. Schmitz, Arizona State University

Evaluating the New Nutrition and Supplement Facts Label: Evidence from a Non-hypothetical Choice Experiment

Di Fang, University of Arkansas; Rodolfo M. Nayga, University of Arkansas; Heather Price, University of Arkansas; Grant H. West, University of Arkansas; Claudia Bazzani, University of Verona

How do Consumers Respond to Labels for CRISPR?

Yang Hu, University of Florida; Lisa A. House, University of Florida; Zhifeng Gao, University of Florida

Chinese Consumer Preference and Meat Choice

Chenguang Li, University College Dublin; Zhifeng Gao, University of Florida; Junfei Bai, China Agricultural University; Xinyi Hong, University College Dublin

Preferences for Beef with Improved Nutrient Profile

Brandon R. McFadden, University of Delaware; Sarah Flowers, University of Florida; Chad Carr, University of Florida; Raluca Mateescu, University of Florida

An Estimation of the Factors Influencing Consumers' Knowledge of Food Labels

Michael Vassalos, Clemson University; Marzieh Motallebi, Clemson University

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

2057 Teaching Tips from AAEA Award Winners

M105, Marquis Level

Track Session - GSS & 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. They will share their approaches, techniques, teaching styles, and philosophy in the classroom. The goal is to share ideas about successful teaching to facilitate learning. Contributions from the audience in the form of shared experiences, questions, and observations, will be a key part of this session.

Organizers: Rodney D. Jones, Oklahoma State University; William E. Maples, Oklahoma State University

Moderator: Rodney D. Jones, Oklahoma State University; William E. Maples, Oklahoma State University
Less Than Ten Year's Experience

Sierra S. Howry, *University of Wisconsin, River Falls*

Undergraduate Teaching: Ten or More Year's Experience

James A. Sterns, *Oregon State University*

Graduate Teaching: Ten or More Year's Experience

Gerald E. Shively, *Purdue University*

Teaching Tips From A Graduate Student Teacher Perspective

Thomas P. Krumel Jr., *University of Connecticut*

2058 Farm Transformation in Sub-Saharan Africa: Input Use and Intrahousehold Consequences

M101, Marquis Level

Track Session - Africa, CWAE, & International Sections

Growth in farm productivity is a prerequisite for rural transformation in Sub-Saharan Africa. On the aged, degraded soils of the continent, greater use of mineral fertilizers, combined with other soil and water amendments, is necessary to raise yields of most crops. In recent decades, numerous countries have established a new generation of input subsidies with the goal of promoting adoption. Household structures vary within and across nations, and these structures have implications for input use and the distribution of benefits from subsidies. Direct outcomes of bargaining among members of farm households include the allocation of productivity-enhancing inputs such as fertilizer. Yet, intrahousehold models are largely absent from the literature on either fertilizer adoption or the impacts of fertilizer subsidies in Sub-Saharan Africa. This session explores models, tests hypotheses empirically, and discusses input policies in Ethiopia, Malawi, Mali and Burkina Faso.

Organizer: Melinda Smale, Michigan State University

Moderator: Melinda Smale, Michigan State University

Discussant: Jacob Ricker-Gilbert, Purdue University

Agricultural Intensification and Intrahousehold Decisions in Burkina Faso

Hamza Haider, *Michigan State University*

Access to Fertile Soils and Gender-Based Yield Gaps in Malawi

William J. Burke, *Agricultural and Food Policy Consulting*

Gender-Differentiated Diet Quality from Promotion of Climate-Smart Practices in Ethiopia

Hailemariam Teklewold, *Environment for Development Initiative; Tagel Gebrehiwot, ECRC; Mintewab Bezabih, Environment for Development Initiative*

Diet Transformation and Fertilizer Subsidy Policy in Mali

Veronique Theriault, *Michigan State University; Melinda Smale, Michigan State University; Amidou Assima, Michigan State University, Bamako office; Alpha O. Kergna, Institut D'Economie Rurale*

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

2059 The Evolution of the U.S. Beekeeping Industry – The Shift from Producing Honey to Providing Pollination Services amid Elevated Colony Loss

M107, Marquis Level

Track Session - ENV & SCE Sections

Driven by the rapid acreage expansion of pollinator-dependent almonds, beekeepers have experienced three large industry movements over the last two decades. First, pollination service income has risen from 11 to 41 percent of all beekeeper income; second, the winter colony loss rate approximately has doubled over its historic rate of 15 percent; and, third, honey yields per colony have fallen by 29 percent. This session examines various aspects of these inter-related changes on beekeeper and farm management decisions. Goodrich examines both the potential effects of climate change and apicultural insurance on honey yields. Ferrier similarly examines the causes of long-term movements in honey yields since the 1950s. Ehmke presents estimates of almond farmer's willingness to pay for the pollination services of beekeepers.

Organizers: Peyton M. Ferrier, USDA-Economic Research Service; Brittney K. Goodrich, Auburn University

'Bee' Productive: A Study of Honey Production in the United States

Brittney K. Goodrich, Auburn University; Ruiqing Miao, Auburn University

Explaining Variation in Annual Honey Yields over Time

Peyton M. Ferrier, USDA-Economic Research Service

Almond Grower Demand for Beekeeping Services in the Western United States

Mariah D. Ehmke, University of Wyoming; Christopher T. Bastian, University of Wyoming; Vardges Hovhannisyan, University of Wyoming; Chian Ritten, University of Wyoming

An Analysis of Pesticide Use in Almonds during Bloom

Brittney K. Goodrich, Auburn University; Jennie Durant, University of California, Berkeley

2060 Leadership Development for the Future of Ag and Applied Economics

L405, Lobby Level

Track Session - NAAEA & Senior Sections

This session emphasizes the need for leadership development within the profession to enhance the skills, competencies, and confidence to lead academic institutions, government units, NGOs, and professional organizations, such as AAEA. Declining state and federal financial support have increased the competition for scarce resources among states and across campus academic units. Organizational leaders must understand university and college budget systems, strategic planning processes, and different styles of administrative leadership upstream in order to influence resource allocations downstream. Understanding local, state, and regional politics is also essential to successful strategic positioning of organizations for influence and impact. Leadership development should be an important component of AAEA's mentoring and coaching initiative to support members' career decisions. The discussion will contribute to planning an Annual Meeting Workshop or a Symposium in 2020.

Organizers: Walter J. Armbruster; A. Gene Nelson, Texas A&M University; Steven C. Turner, Mississippi State University

Moderator: Steven C. Turner, Mississippi State University

Panelists: Titus O. Awokuse, Michigan State University; Michael Boehlje, Purdue University; Joy L. Harwood, USDA-Farm Service Agency; Eluned Jones, South Dakota State University; Michael D. Woods, Oklahoma State University

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

2061 The Implications of a Farm Financial Downturn on Supply and Demand for Credit

M107, Marquis Level

Invited Paper/Track Session - ARA & AFM Sections

The economic conditions facing farm operations over the past four years are in stark contrast to the boom experienced from 2007 to 2013. This has resulted in an increase in the demand for funds to cover cash flow requirements. Consolidation and regulatory changes have transformed the agricultural banking sector, impacting the supply of capital to farm operations. This session will address the current and future issues of liquidity, farm performance, and the resulting demand and supply for agricultural credit.

Discussant: Scott W. Frame, Federal Reserve Bank of Atlanta

Farm Financial Health and the Demand for Credit

Allen M. Featherstone, Kansas State University; **Mykel R. Taylor**, Kansas State University; **Nick Paulson**, University of Illinois at Urbana-Champaign; **Madhav Regmi**, Kansas State University

Regional Analysis of Agricultural Bank Liquidity and Implications for Credit Availability

Cortney A. Cowley, Federal Reserve Bank of Kansas City; **Nate Kauffman**, Federal Reserve Bank of Kansas City

Structural Changes in the Supply Bank Supply of Credit to Agriculture: A Differential Approach

Charles B. Moss, University of Florida; **Dong Hee Suh**, Korea University

2062 Strengthening Growth in Global Food/Feed Demand with Challenging Policies: Implications for U.S. Crop Exports

L405, Lobby Level

Organized Symposium

Growth in global food/feed demand is projected for the coming decade which provides opportunities for exporting countries. However, evolving trade policies may temper growth prospects for some nations. In this symposium, we examine the potential attributes or impediments that are expected to affect demand for U.S. crops in the global marketplace.

Organizers: Jennifer K. Bond, USDA-Economic Research Service; Linwood A. Hoffman, USDA-Economic Research Service

Moderator: Seth D. Meyer, USDA-Economic Research Service

Discussant: Patrick Westhoff, University of Missouri

Global Growth in Food/Feed Demand and Changing Domestic/Trade Policies: Background

James M. Hansen, USDA-Economic Research Service

Export Growth Potential for U.S. Feed Grains: Opportunities/Challenges

Thomas C. Capehart, USDA-Economic Research Service

Export Growth Potential for U.S. Soybeans/Meal: Opportunities/Challenges

Jennifer K. Bond, USDA-Economic Research Service; **Mark S. Ash**, USDA-Economic Research Service

2063 Measuring the Global Burden of Animal Diseases

L403, Lobby Level

Organized Symposium

Economist monetize health impacts. Metrics for quantifying the global burden of disease range from direct impact on mortality and morbidity of humans and animals, to indirect effects on the economy at large. This symposium will address how economic and econometric tools can guide and inform those quantifying the burden of animal disease (including money metric measures), and how these can guide policy decisions.

Organizer: Thomas L. Marsh, Washington State University

Moderator: Kamina K. Johnson, USDA-Animal and Plant Health Inspection Service

Panelists: Amy D. Hagerman, Oklahoma State University; Ann Hillberg-Seitzinger, USDA-Animal and Plant Health Inspection Service; Thomas L. Marsh, Washington State University; Dustin L. Pendell, Kansas State University

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

2064 Careers in Economics at the Centers for Disease Control and Prevention (CDC): The Path from Agricultural and Environmental Economics Training and Practice to a Career in Health Economics

Suite 3934, 39th Floor

Organized Symposium

This symposium is an opportunity for AAEA members to gain an understanding of career opportunities at CDC, the world's largest health protection agency. Our panel includes four agricultural and/or environmental trained economists whose academic and professional paths have led to careers as health economists at CDC. Each panel member will discuss their unique experiences leading to their current positions and a synopsis of their current research. Each panel member participated in the Steven M. Teutsch Post-Doctoral Prevention Effectiveness (PE) Fellowship at CDC. Our panel will also be joined by the Dr. Adam Skelton, director of the PE Fellowship.

Organizer: Gabrielle Miller, Centers for Disease Control and Prevention

Panelists: Mark L. Messonnier, Centers for Disease Control and Prevention; Gabrielle Miller, Centers for Disease Control and Prevention; Jamison Pike, Centers for Disease Control and Prevention; Adam Skelton, Centers for Disease Control and Prevention; Sergey V. Sotnikov, Centers for Disease Control and Prevention

2065 Agribusiness Supply Chain Management and Coordination

M108, Marquis Level

Selected Presentation - Discussant Test Session

This session focuses on issues related to supply chain coordination and management strategies.

Moderator: Shruti Mishra, Argonne National Laboratory

Modeling and Optimizing the Beef Supply Chain in New York and New England

Houtian Ge, Cornell University; **Miguel I. Gomez**, Cornell University; **Christian Peters**, Tufts University

Mobile Money, Signaling, and Market Participation: Evidence from Tanzania and Cote d'Ivoire

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

The Impact of Eponymy on Firm Profit: Evidence from the German Food Processing Industry

Murad Khalilov, University of Bonn; **Stefan Hirsch**, Technical University of Munich

Economics of Precision Agriculture to Increase Cellulosic Bioenergy and Address Hypoxia

Shruti Mishra, Argonne National Laboratory

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

2066 Behavioral & Institutional Economics of Agriculture & Land Use in an International Context

M302, Marquis Level

Selected Presentation

Papers in this session examine individual behavioral factors and political economy determinants in agricultural and land use policies and systems. By including research from different countries and regions, attendees will be able to compare findings across different cultural and socioeconomic contexts.

Moderator: Chin-Hsien Yu, Southwestern University of Finance and Economics

Return Migration, Farm Household Differentiation and Farm Size in Rural China: Evidence from a Cross-sectional Survey
Ruifa Hu, Beijing Institute of Technology; Qianqian Chen, School of Management and Economics, Beijing Institute of Technology; Yiduo Sun, Beijing Institute of Technology; Chao Zhang, Beijing Institute of Technology

Investigating Consumer Food Waste Decisions: A Cross-country Comparison between Thailand and the United Kingdom
Daniele Asioi, University of Reading; *Ponjan Pinpart, University of Reading; Kelvin Balcombe, University of Reading*

Characterizing Behaviour in Production Decisions: The Case of Smallholder Indian Farmers

Kiriti Kanjilal, Indraprastha Institute of Information Technology; *Gaurav Arora, Indraprastha Institute of Information Technology*

Property Rights, Institutional Change, and Economic Development: Evidence from the First Nations Land Management Act

Liam D. Kelly, University of Guelph; *B. James Deaton Jr., University of Guelph*

Holdup Incentives in Redistributive Land Reform with Political Investment

Aleksandr Michuda, University of California, Davis

Market Response to Typhoons: The Role of Information and Expectation

Chin-Hsien Yu, Southwestern University of Finance and Economics; *Jian-Da Zhu, National Taiwan University; Bruce A. McCarl, Texas A&M University*

Farmers' Willingness to Adopt Chemical-Free Inputs and Engage in Collaborative Arrangements: A Discrete Choice Experiment in Mexico

Sergio Colin Castillo, Centro de Estudios Socio Economicos; *Adan L. Martínez-Cruz, Centro de Estudios Socio Economicos; Naim Manríquez García, Centro de Estudios Socio Economicos; Joel T. Vázquez-Pérez, Centro de Estudios Socio Economicos*

Determinants of Households' Adoption of Organic Pesticides: Evidence from Missouri

Lan T. Tran, University of Missouri; *Laura M. McCann, University of Missouri; Dong Won Shin, Korea Environment Institute*

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

2067 Environmental and Nonmarket Valuation - Lightning Session

M303, Marquis 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 methodological advances, air pollution, forest, climate change, and farmlands.

Moderator: Yilan Xu, The Ohio State University

Simulation Noise versus Approximation Error in Mixed Logit Estimation: Maximum Simulated Likelihood or Gauss Hermite Quadrature

Jiahui Ying, University of Georgia; J. Scott Shonkwiler, University of Georgia

The Effect of Air Pollution on Stock Market Trading Volume: Evidence from China

Yilan Xu, The Ohio State University; Wuyang Hu, The Ohio State University

Air Pollution and Cardiovascular Health: Evidence from Agricultural Fires in India

Hemant K. Pullabhotla, University of Illinois at Urbana-Champaign; Mateus Souza, University of Illinois at Urbana-Champaign

Broken Forests: Deforestation and Forest Fragmentation Increase Malaria Incidence among Young Children in Rural Liberia

Yu Shing Cheng, The Ohio State University; Daniela A. Miteva, The Ohio State University

The Butterfly Effect: Do Farms Do Harm?

Braeden Van Deynze, Michigan State University; Scott M. Swinton, Michigan State University; Leslie Ries, Georgetown University

Estimating the Impact of Fires on Recreation in the Angeles National Forest Using Combined Revealed and Stated Preference Methods

Sophia Tanner, University of Arizona; Frank Lupi, Michigan State University; Cloe Garnache, Michigan State University

Determinants of Avian Species Biodiversity in the United States: The Role of Land-Use Change and Pesticide Use

Yijia Li, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign; Ruiqing Miao, University of Illinois at Urbana-Champaign

Air Pollution Impacts of Shale Gas Development in Pennsylvania

Ruohao Zhang, Binghamton University; Huan Li, Binghamton University; Neha Khanna, Binghamton University; Dan Sullivan, Resources For the Future; Alan Krupnick, Resources for the Future; Elaine Hill, University of Rochester

2068 Organic and Non-GMO Food Markets and Marketing

M304, Marquis Level

Selected Presentation - Discussant Test Session

Factors affecting organic and non-GMO foods marketing and markets, including consumer environmental awareness and trust in auditing organizations, information signaling through labels, and price pass-through, are examined in this collection of papers.

Moderator: Antje Risius, University of Göttingen

Is Environment Consciousness Associated with Organic Consumption – A Revealed Preference Approach

Sungeun Yoon, University of Florida; Lisa A. House, University of Florida; Zhifeng Gao, University of Florida; Kelly A. Grogan, University of Florida; Conner C. Mullally, University of Florida

Public Evaluation of Organic Food Standards: Knowledge and Preference for Selective Control Features

Antje Risius, University of Göttingen; Achim Spiller, University Göttingen

Signaling Impacts of GMO Labeling on Fruit and Vegetable Demand

D. Adeline Yeh, Cornell University; Miguel I. Gomez, Cornell University; Harry M. Kaiser, Cornell University

Differential Price Pass-Through in Organic and Conventional Food Markets

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

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

2069 U.S. Food Assistance Programs and Effects on Spending, Food Security, and Health

Suite 3803, 38th Floor

Selected Presentation

This session focuses on issues of food choice and spending patterns within federal food-assistance programs. Papers in this session evaluate changing consumption patterns during the benefit month, the impacts of health information on diet quality, and the impact of SNAP on food security. This session will provide attendees with broad perspective of how nutrition-assistance programs affect consumers.

Moderator: Yizao Liu, The Pennsylvania State University

Time Use and Eating Patterns of SNAP Participants over the Benefit Month

Ji Yong Lee, University of Arkansas; **Rodolfo M. Nayga**, University of Arkansas; **Young Jo**, USDA-Economic Research Service; **Brandon J. Restrepo**, USDA-Economic Research Service

Distributional Impact of Health Information on Diet Quality

Yizao Liu, The Pennsylvania State University; **Rebecca Cleary**, Colorado State University; **Andrea C. Carlson**, USDA-Economic Research Service

Do Food Purchases by Supplemental Nutrition Assistance Program Recipients Vary with Food Groups Over the Benefit Month?

Chandra K. Dhakal, University of Georgia

2070 Eating Better? Investigations of Nutrition in Developed Countries

Suite 3819, 38th Floor

Selected Presentation

In developed countries, consumers struggle to eat nutrient-dense foods. Researchers and policy makers work to monitor and evaluate purchase and consumption patterns to determine areas to intervene. The papers in this session provide examples of innovations in measuring and encouraging better nutrition in developed countries. With secondary data, two papers explore a nutrition index of the U.S. food industry while another evaluates heterogeneity of food purchases by body mass index. Another pair of papers use experimental methods to evaluate nudges of an online grocery store and consumer understanding of purchases of whole grain products.

Moderator: Grace Melo, Pontificia Universidad Catolica de Chile

The Evolution of Diet Quality in the U.S.: Commercial Actions and Consumer Reactions

Christian Rojas, University of Massachusetts, Amherst; **Ezgi Cengiz**, University of Massachusetts, Amherst; **Emily Wang**, University of Massachusetts, Amherst

Application of “Nudge” to Encourage Fresh Food Consumption: Evidence from Online Experiment

Yeon A Hong, Korea Rural Economic Institute; **Sang Hyo Kim**, Korea Rural Economic Institute

Labels for Cereals, Crackers, and Breads Cause Consumer Confusion about Whole Grain Content and Healthfulness of Products

Parke E. Wilde, Tufts University; **Jennifer Pomeranz**, New York University; **Lauren Lizewski**, Tufts University; **Fang Fang Zhang**, Tufts University

The Impact of a Comprehensive Food Policy on Purchases of Non-targeted Foods: Evidence from Chile

Chen Zhen, University of Georgia; **Grace Melo**, Pontificia Universidad Catolica de Chile

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

2071 Technology and Productivity Tradeoffs in Developing Nations

Suite 3824, 38th Floor

Selected Presentation

The papers in this session examine tradeoffs that rural households face in developing nations in the face of productivity shocks.

Moderator: Yu Na Lee, University of Guelph

The Impact of Internet Use on Entrepreneurship of Migrant Workers in China

Zhongkun Zhu, Huazhong Agricultural University; **Chenxin Leng**, China Agricultural University; **Michael Delgado**, Purdue University

Of Trackers and Tractors. Using a Smartphone App to Explore the Link Between Agricultural Mechanization and Intra-Household Allocation of Time in Zambia.

Thomas Daum, University of Hohenheim; **Filippo Capezzone**, University of Hohenheim; **Regina Birner**, University of Hohenheim

Does Food Price Volatility Drive Migration? Evidence from Rural Ethiopia

Yu Na Lee, University of Guelph

2072 International Development - Aspirations

Suite 3839, 38th Floor

Selected Presentation - Discussant Test Session

These papers examine the role of aspirations in household decisions, including both how interventions affect aspirations, and how aspirations impact decisions and welfare.

Moderator: Jeffrey R. Bloem, University of Minnesota

Do Agriculture Interventions Increase Aspirations? An Examination from the Lens of Caste and Gender

Muzna F. Alvi, International Food Policy Research Institute; **Patrick S. Ward**, Duke Kunshan University; **David J. Spielman**, International Food Policy Research Institute; **Simrin Makhija**, International Food Policy Research Institute

Dream Homes: Aspirations and Real Estate Investments in Rural Myanmar

Jeffrey R. Bloem, University of Minnesota

Farmers to Entrepreneurs

Salvatore Di Falco, University of Geneva; **Giacomo De Giorgi**, University of Geneva

Feeling Rich vs. Being Rich: Subjective vs. Objective Well-being in Ghana

Felix Naschold, University of Wyoming; **Tabare Capitan**, University of Wyoming

2073 International Trade - Multiple Research Methods

Suite 3903, 39th Floor

Selected Presentation

This session highlights the improvement or development of empirical research methods or theoretical frameworks in international trade.

Moderator: Harounan Kazianga, Oklahoma State University

The Impact of Exchange Rate Volatility on International Food Trade

Sandro Steinbach, University of Connecticut

Trade Margins and Export Duration with Convex Technologies

Wendkouni J.Baptiste Zongo, Laval University; **Bruno Larue**, Universite Laval; **Carl Gaigné**, French National Institute for Agricultural Research

Partial Identification of Import Demand Elasticities with Quantity Data

Shon Ferguson, Research Institute of Industrial Economics; **Aaron D. Smith**, University of California, Davis

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

2074 Agriculture and Water Quality

Suite 3919, 39th Floor

Selected Presentation

This session includes papers on agricultural activity and water quality. Topics range from decisions to overuse fertilizer to the consequences of degraded water quality.

Moderator: Mehdi Nemati, University of California, Riverside

Statistical Relationships Between Water Quality and Agricultural Intensity in Maine, USA

Laura L. Dodson, USDA-Economic Research Service; Kevin J. Boyle, Virginia Tech; Cayelan Carey, Virginia Tech

Understanding Overuse of Phosphorous Fertilizer in Soybeans

Seungyub Lee, University of Missouri; Laura M. McCann, University of Missouri

Cost-Effective Water Quality Management in Tile-Drained Fields

Di Sheng, Colorado State University; Jordan F. Suter, Colorado State University; Xiaolu Wei, Colorado State University; Ryan T. Bailey, Colorado State University

2075 Agricultural Pest and Disease Management

Suite 3924, 39th Floor

Selected Presentation

Papers in this session discuss the economics of pest and disease management in agricultural production.

Moderator: Parveen P. Setia, USDA-Animal and Plant Health Inspection Service

Evaluating Pest Management Strategies: A Robust Method and its Application to Strawberry Disease Management

Ariel Soto-Caro, University of Florida; Feng Wu, University of Florida; Zhengfei Guan, University of Florida

Preserving Biodiversity for Greater Productivity: Evidence from a Randomized Control Trial of Oil Palm Producers in Colombia

Lina Salazar, Inter-American Development Bank; Jossie Fahsbender, Inter-American Development Bank; Josue Avila, Inter-American Development Bank

Market and Production Heterogeneity Drives Differential Economic Benefits of Virus Screening Across California Grape Industry

Marieke Fenton, University of California, Davis; Travis J. Lybbert, University of California, Davis; Ji Yeon Cheon, University of California, Davis; Emma Gjerdseth, University of California, Davis; Qian Wang, University of California, Davis

The Rootworm Revisited – Analyzing Corn Farmers' Expenditures on Rootworm Abating Inputs in 2005 and 2016

Seth J. Wechsler, USDA-Economic Research Service

2076 Research Methods/Econometrics/Stats - Econometrics of Modeling Policy Impacts

Suite 4039, 40th Floor

Selected Presentation

The papers in this session examine various aspects of modeling policy impacts. Papers included look at the construction of counterfactuals, ethanol policy, monetary policy, and the impact of SNAP on diet quality.

Moderator: Christian A. Gregory, USDA-Economic Research Service

Estimation and Inference of Treatment Effects using a New Panel Data Approach with Application to the Impact of U.S. SYG Law on State Level Murder Rate

Huayan Geng, Binghamton University; Qiankun Zhou, Louisiana State University

Bounding the Effects of SNAP on Diet Quality: A Bayesian Approach to Endogeneity and Measurement Error

Christian A. Gregory, USDA-Economic Research Service; Martijn VanHasselt, University of North Carolina-Greensboro

Measuring Resilience: A Triple-difference Approach

Sonia Zaharia, Tufts University; William A. Masters, Tufts University; Shibani Ghosh, Tufts University; Gerald E. Shively, Purdue University; Katherine M. Heneveld, Tufts University; Lichen Liang, Tufts University; Sabi Gurung, Tufts University; Robin Shrestha, Tufts University; Andrew Thorne-Lyman, Johns Hopkins University; Patrick Webb, Tufts University

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

2077 Environmental Justice

L405, Lobby Level

Selected Presentation

By using micro-level data, the four papers in this section investigate air/water pollution, environment restoration programs, pesticide uses, and urban forestry from the perspective of environmental justice.

Moderator: Rezwanaul Parvez, Community College of Denver

Reassessing Environmental Injustice through Pollution Substitution and Leakage

Sangyoul Lee, University of Florida; **Xiang Bi**, University of Florida

Environmental Justice and Self-Regulation of Pesticide Applications: Evidence from California

Tor N. Tolhurst, University of California, Davis; **Rachael E. Goodhue**, University of California, Davis; **Karen Klonsky**, University of California, Davis; **Christopher DeMars**, University of California, Davis; **Minghua Zhang**, University of California, Davis

The Effect of Urban Forestry on Housing Price and Gentrification

Liqing Li, University of Illinois at Urbana-Champaign

2078 Rural Development, Energy, Climate Change and Social Capital

Suite 4003, 40th Floor

Selected Presentation

This session explores income inequality, energy, local foods, climate resilience and social impact on rural economies.

Moderator: Wojciech J. Florkowski, University of Georgia

Rural Life Quality Enhancement: Reducing Fossil Fuel Dependence Through Dwelling Renovation

Ozgur Kaya, American University of Sharjah; **Anna M. Klepacka**, Warsaw University of Life Sciences; **Wojciech J. Florkowski**, University of Georgia

The Route of Development in Intra-Regional Income Equality via High-Speed Rail: Evidence from China

Wenjing Yu, Zhejiang University; **Yansang Yao**, Zhejiang University

Modeling Location Decisions of Food and Agricultural Industry Establishments with Microdata

Anders T. Van Sandt, Texas A&M University; **Craig W. Carpenter**, Texas A&M University; **Scott Loveridge**, Michigan State University; **Rebekka M. Dudensing**, Texas A&M AgriLife Extension Service; **Linda Niehm**, Iowa State University; **Steven McKinney**, Iowa State University

Improving the Quality of Life of Smallholder Farmers by a Climate Resilience Program in Brazil

Alexandre Gori Maia, University of Campinas; **Daniel Morales Martinez**, University of Campinas; **Jennifer Burney**, University of California, San Diego; **Daniele Cesano**, Adapta Group

Does Rural Population Hollowing Bring a Loss in Happiness

Qianheng Chen, China Agricultural University; **Qianheng Chen**, China Agricultural University; **Michael Delgado**, Purdue University; **Hang Fang**, China Agricultural University

The Impact of Social Capital on Craft Beverage Tourism

Claudia Gil Arroyo, North Carolina State University; **Whitney Knollenberg**, North Carolina State University; **Carla Barbieri**, North Carolina State University; **Kathryn A. Boys**, North Carolina State University

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

2079 Teaching, Communication, and Extension

Suite 4019, 40th Floor

Selected Presentation

This session hosts papers that present extension interventions on communication networks and communication technologies. Topics include the adoption of soil fertility practices, irrigation services and nutrition technologies.

Moderator: Soumya Balasubramanya, International Water Management Institute

Do Agricultural Interventions Influence Network Formation? Insights from a Randomized Experiment in Kenya

Lisa Jäckering, *University of Göttingen*; **Theda Gödecke**, *University of Göttingen*; **Meike Wollni**, *University of Göttingen*

ICT Effectiveness in Transmitting Information about Optimal Time of Fertilizer Application to Nepalese Farmers

Nicoletta Giulivi, *McGill University*; **Aurelie P. Harou**, *McGill University*

The Effects of Decentralized and Video-based Extension on the Adoption of Integrated Soil Fertility Practices – Experimental Evidence from Ethiopia

Denise Hörner, *University of Göttingen*; **Adrien Bouguen**, *University of California, Berkeley*; **Markus Frölich**, *University of Mannheim*; **Meike Wollni**, *University of Göttingen*

The Effect of Irrigation Service Delivery and Training In Agronomy on Crop Choice in Tajikistan

Marie-Charlotte Buisson, *International Water Management Institute*; **Soumya Balasubramanya**, *International Water Management Institute*

2080 Strategic Agribusiness Sales – Training and Practice

M104, Marquis Level

Track Session - AEM Section

Collegiate sales programs hope to cultivate and produce students who are highly sought after and valued by corporations. A gap analysis compares managers' evaluations of displayed sales skills of new sales hires with the desired sales skills of new sales hires. Large commercial producer survey focuses on the role of a salesperson in building a relationship between farmer customer and input supplier. Topics such as trust, frequency of communication, and desired salesperson traits are covered. A survey of midwest farmers explores the farmers' perceptions of salespeople with a special focus on female salespeople. Professional salespeople share their experiences and expectations from new salespeople with the audience. Implications for managers and sales education will be discussed to include possible enhancements in the sales education curricula to better develop sales professionals more prepared to meet industry expectation.

Organizer: Aslihan D. Spaulding, Illinois State University

Farmers' Perceptions of Sales People

Aslihan D. Spaulding, *Illinois State University*; **W. Scott Downey**, *Purdue University*

Review of Large Producer Survey Related to Sales

Michael A. Gunderson, *Purdue University*

Are Sales Programs Effectively Preparing Sales Students for Successful Sales Careers?

Charles Howlett, *Northern Illinois University*; **Mya Groza**, *Northern Illinois State University*; **Michele Kaczka**, *Northern Illinois State University*

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

2081 Best Practices in Providing Technical Assistance to Food System Practitioners

M101, Marquis Level

Track Session - COSBAE & CRENET Sections

Traditional academic training that emphasizes research instead of extension results in junior faculty struggling to adequately fulfill the land-grant mission that integrates teaching, research, and extension/outreach. Thus, the needs of stakeholders and industry may not be fulfilled. The panelists in this session will discuss resources available to economists working on community development projects and/or providing technical assistance to food system practitioners, particularly those serving disadvantaged communities. The panel will be composed of academic, extension, and government disciplines. The panelists will focus on extension methods on innovations in marketing, distribution, and post-handling of agricultural products. Sessions attendees will obtain a greater awareness of how to gather stakeholder input to design, develop, and implement projects. The panelists will also discuss recent efforts in restructuring the National Value Added Agriculture conference to a summit that services the direct marketing sector more comprehensively.

Organizer: Jeffrey K. O'Hara, USDA-Agricultural Marketing Service

Moderator: Jeffrey K. O'Hara, USDA-Agricultural Marketing Service

Panelists: *Chyi-Lyi Liang, North Carolina A&T State University; Ronald L. Rainey, University of Arkansas; Dawn D. Thilmany McFadden, Colorado State University*

2082 Bayesian Econometrics in Agricultural Economics

L406, Lobby Level

Track Session - Econometrics Section

Although the concepts behind Bayesian statistics were developed as early as the 18th century, Bayesian techniques did not see wide use until the advent of the computer age. Computational methods developed in the 20th century allow for efficient inference; since that time the number of empirical applications utilizing Bayesian techniques has flourished. Bayesian inference is philosophically distinct from frequentist inference and has several arguable advantages including intuitive interpretation, relatively transparent estimation methods, and full quantification of uncertainty. This session includes applications of Bayesian econometrics in different areas of agricultural and applied economics. Two papers present new and novel Bayesian approaches. These papers will be discussed by Bayesian applied econometricians. AAEA members will also provide a retrospective on the growth of Bayesian techniques in the field of agricultural economics and future research directions.

Organizer: Austin F. Ramsey, Virginia Tech

Discussants: Jeffrey H. Dorfman, University of Georgia; Garth Holloway, University of Reading; Xiaoyong Zheng, North Carolina State University

Bayesian Estimation of von Liebig Production Functions

Austin F. Ramsey, Virginia Tech; Klaus Moeltner, Virginia Tech; Clinton L. Neill, Virginia Tech

Bayesian Spatiotemporal Quantile Models to Estimate County Specific Yield Distributions

Eunchun Park, Mississippi State University; Sunjin Ahn, Oklahoma State University

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

2083 Soil Health and Farmer Decisions

Suite 3939, 39th Floor

Track Session - ENV Section & AERE

The focus on soil health and its implications continues to grow across the agriculture and food sector. From farmers to supply chain companies to governments, there has been a significant emphasis and increasing attention on the role soil health plays in driving farmers' economic viability and environmental benefits. Farmers undertake a broad portfolio of management practices to improve their land health. A major challenge facing farmers is the lack of clear visibility of how their various decisions truly impact their overall economic viability. There is even less visibility of how ag practices over a longer time frame impact environmental sustainability. Soil health is a critical lever for a host of environmental benefits such as carbon sequestration and clean water. The Soil Health partnership has collaborated with over 140 farmers and a 100+ private, public and nonprofit organizations to establish a unique panel data set that assesses the impact of various agronomic practices on the land. We propose a discussion panel to bring together diverse perspectives (farmer, government, non-profit, trade association and private company) on a topic that continues to grow in urgency and importance in the U.S.

Organizers: Maria S. Bowman, Soil Health Partnership; Shefali V. Mehta, Soil Health Partnership-National Corn Growers Association

Moderator: Shefali V. Mehta, Soil Health Partnership-National Corn Growers Association

Farmer Perspective on Soil Health

Carrie Vollmer-Sanders, *North America Nature Conservancy*

Private Company Perspective on Soil Health

Andy Knepp, *Bayer*

Financial Incentives for Soil Health Practice Adoption

Maggie Monast, *Environmental Defense Fund*

Quantifying Risk in Farmer Decision-Making

Maria S. Bowman, *The Soil Health Partnership*

2084 Graduate Student Extension Competition Winners

M102, Marquis Level

Track Session - EXT & 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: William E. Maples, Oklahoma State University; Mykel R. Taylor, Kansas State University

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

2085 The Economics of Food Safety along Supply Chains

M105, Marquis Level

Track Session - FAMPS & FSN Sections

This session brings together different perspectives and latest research on the management of food safety along agri-food supply chains in a post FSMA world. The recent re-negotiation of NAFTA and the growing trade dispute between the U.S. and China have highlighted the roles long and often complex agri-food supply chains play for both U.S. consumers and firms. At the same time, recent innovations in digital technology revolutionize information sharing and related traceability systems aimed at mitigating food safety threats in food marketing. Bringing together papers on the study of border food safety inspection systems, FSMA policy and supply chain traceability, this session is focused on sharing latest research findings of interest to policy makers and academic peers.

Organizers: Sven M. Anders, University of Alberta; Kathryn A. Boys, North Carolina State University

Food Safety Requirements for Produce Growers: Retailer Demands and the Food Safety Modernization Act

Travis Minor, USDA-Economic Research Service; Gerard Hawkes, Cornell University; Edward McLaughlin, Cornell University; Kristen Park, Cornell University; Linda S. Calvin, USDA-Economic Research Service

Analyzing Patterns and Trends in Chinese and U.S. Food and Drug Administration Food Import Rejections

Fred Gale, USDA-Economic Research Service

Demand for U.S. Beef in China and Preferences for Block-chain Traceability

David L. Ortega, Michigan State University; Wen Lin, Michigan State University; Vincenzina Caputo, Michigan State University

A Review of Food and Drug Administration Imports Refusals - U.S. Seafood Trade in the Face of Food Safety Threats

Sven M. Anders, University of Alberta; Kathryn A. Boys, North Carolina State University

2086 The Role of Institutions in Environmental Management

M301, Marquis Level

Track Session - IBES Section

An environment's quality is largely determined by the environment's institutions. In this session, we explore four different institutional methods that might be utilized to promote positive environmental outcomes. In the first presentation, we evaluate the role of competition in commercial fisheries. The second presentation considers restoration and conservation in the National Parks as well as Areas of Concern. The third presentation considers the role informal institutions in invasive species management. The final presentation describes the potential for environmental trading markets.

Organizer: Trey Malone, Michigan State University

Moderator: Trey Malone, Michigan State University

Competition and Adaptation in Small Scale Commercial Fishery

Richard T. Melstrom, Loyola University Chicago

Comparing Preferences for Restoration and Conservation in the Great Lakes between Areas of Concern and National Parks using the Best-Worst Method

Tracy A. Boyer, University of Wisconsin, Milwaukee

Informal Institutions and Invasive Species Management

Abby Biedenbach, Oklahoma State University; **Wade Brorsen**, Oklahoma State University; Jon T. Biermacher, Noble Research Institute, LLC

Environmental Trading Markets

Richard Horan, Michigan State University

2087 Assessing Satellite-based Measures of Weather and the Impact on Estimates of Agricultural Productivity and Resilience

M103, Marquis Level

Track Session - Africa & International Sections

Satellite-based estimates of weather have become common in agricultural economics. However, the choice of how rainfall and temperature are measured and enter into the production function is typically ad hoc and almost never justified on agronomic principles. We propose a hybrid format for this session. The session will begin with a presentation of results from a study which has quantified the significance and magnitude of the effect of measurement error in weather metrics on estimates of agricultural production and resilience, using the LSMS-ISA data from eight countries in Africa. Following this, several case studies will be presented in lightning style. These case studies will employ the best practices and methods from the original study, with the goal of highlighting the differences in results from the use of various weather metrics.

Organizer: Anna Josephson, University of Arizona

Panelists: Anna Josephson, University of Arizona; Talip Kilic, The World Bank; Jeffrey D. Michler, University of Arizona; Siobhan Murray, The World Bank

2088 Cocoa and Palm Oil Value Chains and the Role of Producers Associations in the Production Systems of Latin America

L404, Lobby Level

Track Session - LAS & Senior Sections

This session presents four papers discussing the multiple dimensions of food value chains in Latin American countries, focused on cocoa and palm oil production in Ecuador, Colombia and Peru. This session addresses issues such as: (1) the welfare implications of producing conventional versus specialty varieties of cocoa (2) the impact of technology adoption, and (3) the role of gender and empowerment in export-oriented market chains. Furthermore, the session examines the role of producer associations in providing access to different value chains, especially those where benefits to producers are most pronounced. In addition, the session analyzes policy interventions in food value chains to enhance poverty reduction and mitigate environmental externalities associated with production processes in middle income countries. Moreover, the session will generate discussion around the increasing demand for chocolate due to the developing tastes of global consumers for dark chocolate.

Organizers: Jeffrey Alwang, Virginia Tech; Alexis H. Villacis Aveiga, Virginia Tech

Moderator: Graciela C. Andrango, Western Illinois University

Cocoa Value Chains in Ecuador: How Does Choice of Variety Influence Post-harvest Processing in High-quality Cocoa Value Chains?

Alexis H. Villacis Aveiga, Virginia Tech; Jeffrey Alwang, Virginia Tech

What Causes Some Farmers to be More Productive? A Two-step Approach that Examines Production Practices and their Adoption Amongst Smallholder Cacao Farmers in Colombia

Kalob Williams, Cornell University; Miguel I. Gomez, Cornell University

Intensification of Cocoa in the Peruvian Amazon: Gender Relations and Options for Deeper Engagement by Women

Trent D. Blare, International Maize and Wheat Improvement Center; Jason Donovan, International Maize and Wheat Improvement Center

Development and Inclusive Businesses in Rural Colombia: The Choice of ASOPAY, a Long-term Stream Income or Cash Out the Assets?

Emiliano López Barrera, Purdue University; James M. Lowenberg-DeBoer, Harper Adams University; Luis M. Peña-Lévano, University of Florida

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2089 Case Study: Government Policies and Locally Sourced Food

L403, Lobby Level

Invited Paper

This session discusses the intervention of government policies on the dairy industry as well as the intricacies of developing a locally sourced food market.

Discussants: Chia Yi Chin, University of Arizona; Katherine M. Lacy, University of Nevada, Reno

Government Cheese

Katherine M. Lacy, University of Nevada, Reno

Demand and Supply Feasibility of Local Food Center: The Case of Yavapai County, Arizona

Chia Yi Chin, University of Arizona

2091 Economics of Managing Water in Australia

L401, Lobby Level

Organized Symposium

Organizer: John Rolfe, Central Queensland University

Moderator: Daniel Gregg, Centre for Global Food and Resources, University of Adelaide

Using Choice Experiments to Assess Environmental and Amenity Values of the Great Barrier Reef

John Rolfe, Central Queensland University; **Jeremy De Valck**, Central Queensland University

A Review of Catchment Scale Modelling and Economic Implications in Australia

Malcolm K. Wegener, University of Queensland

Matching Customers' Preferences for Tariff Reform with Managers' Appetite for Change: The Case of Volumetric-only Tariffs in Australia

Saeideh Khosroshahi, Latrobe University; **Lin Crase**, Centre for Water Policy and Management, La Trobe University; **Bethany L. Cooper**, Centre for Water Policy and Management, La Trobe University; **Michael Burton**, University of Western Australia

Cost Effectiveness of Improving Water Quality from Improving Agricultural Management: A Framework to Reconcile Different Approaches

John Rolfe, Central Queensland University; **Megan L. Star**, Central Queensland University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2092 Topics in One Health, Zoonotic Diseases, & Biosecurity

L402, Lobby Level

Organized Symposium

The goal of this session is to update attendees on new research in One Health, Zoonotic Diseases, and Biosecurity happening at the regional, national, and international levels, and to discuss the economic impacts and challenges.

Organizer: Thomas L. Marsh, Washington State University

Moderators: Kamina K. Johnson, USDA-Animal and Plant Health Inspection Service; Dustin L. Pendell, Kansas State University

Discussant: Dustin L. Pendell, Kansas State University

Foot-and-mouth Disease Transmission between Wildlife and Livestock Populations of Smallholder Farmers: What are the Emerging Policy Implications?

Ndiadivha P. Tempia, Tshwane University of Technology

Effects of Drought and Media-reported Violence on Cattle Fever Tick Incursions

Jada Thompson, University of Tennessee; Hallie Hasel; Denise Bonilla; Amy Delgado; Sarah Berman

Measuring Impact of Animal Diseases on Livestock Productivity across Countries

Thomas L. Marsh, Washington State University; Mohammad Maksudur Rahman; Thomas L. Marsh

Incorporating Biological Feedback of Rhipicepalus Microplus & R. Annulatus Eradication Efforts into Simulating Eradication Costs to Agencies and Ranchers

Justin R. Benavidez, Texas A&M University; David P. Anderson; Pete D. Teel

Incorporating Containment Zones into Emergency Response Options for Highly Infectious Livestock Diseases

Ann Hillberg Seitzinger, Commonwealth Scientific and Industrial Research Organization; Kamina Johnson; Graeme Garner; Tim Capon, Sorada Tapsuwan; Corissa Miller; Ahmed Hafi; Donkor Addai

Empirical Evidence on the Substitution between Antibiotics and Vaccination: Livestock in East Africa

Ashley F. Railey, Washington State University; Thomas L. Marsh; Washington State University

Epidemiologic and Economic Consequences of African Swine Fever in the United States

Kamina Johnson, USDA-Animal and Plant Health Inspection Service; Amy Hagerman; Timothy Boyer; Ann Hillberg Seitzinger; Melissa Schoenbaum

Dynamic of Small Scale Poultry Farmers' Behavior in Response to Diseases

Alexis Delabougli, The Pennsylvania State University; Nguyen Thi Le Thanh; Huynh Thi Ai Xuyen; Phung Ngoc Tuyet; Benjamin Nguyen-Van-Yen; Ha Minh Lam; Maciej Boni

Vaccines for Coccidiosis: Pricing, Efficacy and the Productivity of Intensive Broiler Systems

W. Gilbert, University of Liverpool; C. Bellet; D.P. Blake; J. Rushton.

A Benefit Cost Ratio Approach to Evaluating Adoption of a Johne's Disease Vaccination for Dairy Cattle in Canada

David C. Hall, University of Calgary; Philip Rasmussen

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2093 Ag Finance and Farm Management - Issues with Crop Insurance

M107, Marquis Level

Selected Presentation - Discussant Test Session

This session covers topics related to crop insurance outcomes for farmers, agricultural lenders, and crop insurance providers.

Moderator: Xiaoli Fan, University of Alberta

Somebody's Watching Me! Impacts of the Spot Check List Program in U.S. Crop Insurance

Sungkwol Park, North Carolina State University; **Roderick M. Rejesus**, North Carolina State University; **Xiaoyong Zheng**, North Carolina State University; **Barry K. Goodwin**, North Carolina State University

Contract Elements, Growing Conditions, and Anomalous Claims Behavior in U.S. Crop Insurance

Sungkwol Park, North Carolina State University; **Barry K. Goodwin**, North Carolina State University; **Xiaoyong Zheng**, North Carolina State University; **Roderick M. Rejesus**, North Carolina State University

Crop Insurance's Impact on Agricultural Lenders

Alexander J. Schultz, Cornell University; **Jennifer E. Ifft**, Cornell University; **Todd H. Kuethe**, University of Illinois at Urbana-Champaign

The Impact of Crop Insurance on Farm Financial Outcomes

Nathan D. DeLay, Purdue University; **Brady E. Brewer**, Purdue University; **Allen M. Featherstone**, Kansas State University; **David Boussios**, USDA-Economic Research Service

2094 Agricultural Production Management and Profitability

M108, Marquis Level

Selected Presentation - Discussant Test Session

This session focuses on the way in which the agricultural production management strategies affect farm profitability. The relationship between size, efficiency, level of mechanization and automation, supply-chain coordination, intensification and long-term profitability is discussed.

Moderator: Kynda R. Curtis, Utah State University

Are Traditional Farms History: A Current Perspective Focusing on Hog Farms

Richard F. Nehring, USDA-Economic Research Service; **Jeffrey M. Gillespie**, USDA-Economic Research Service; **Flavius Badu**, USDA-Economic Research Service; **Charlie Hallahan**, Retired USDA-Economic Research Service; **Flavius Badu**, USDA-Economic Research Service

Stocking Rate and Dairy Production in New Zealand: An Analysis of the UQR Model with Fixed Effects

Wanglin Ma, Lincoln University; **Alan Renwick**, Lincoln University; **Bruce Greig**, Lincoln University

Adoption of Mechanization Solutions for Harvesting Fresh Market Blueberries

Karina Gallardo, Washington State University; **Liang Lu**, University of Idaho; **David Zilberman**, University of California, Berkeley

Contracting in the Presence of Insurance: The Case of Bioenergy Crop Production

Mohit Anand, Miles College; **Ruiqing Miao**, Auburn University; **Madhu Khanna**, University of Illinois at Urbana-Champaign

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2095 Firm Behavior and Consumer Demand

M105, Marquis Level

Selected Presentation

This session discusses a variety of issues related to firm behavior and consumer demand in the food industry. Topics include consumer responses to policy incentives, willingness to pay for product attributes, food waste, and firm pricing strategies.

Moderator: Vahé Heboyan, Augusta University

Retail Price Discrimination and Food Waste

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

Heterogeneity in Price Sensitivity: The Role of Prices and Wealth

Ahmed Rachid El-Khattabi, University of North Carolina at Chapel Hill; Laurence Lin, University of North Carolina at Chapel Hill; Julien Isnard, University of North Carolina at Chapel Hill; Shadi Eskaf, University of North Carolina at Chapel Hill; Larry Band, University of Virginia; Brian McManus, University of North Carolina at Chapel Hill; Andrew J. Yates, University of North Carolina at Chapel Hill

Animal Welfare Attributes in Dairy Production in Europe: Lessons Learned from a German Discrete Choice Experiment

Yascha Lena Koik, Kiel University of Applied Sciences; Holger D. Thiele, University of Applied Sciences Kiel; Ullrich Enneking, University of Applied Sciences Osnabrueck

Soda Taxes, Retail Pricing and Consumer Behavior

Hairu Lang, University of California, Davis; Kristin Kiesel, University of California, Davis; Patrick W. McLaughlin, USDA-Economic Research Service; Richard J. Sexton, University of California, Davis

Tobacco-Control Policies and U.S. Demand for Cigarettes: An Application of a Quantile Regression Model with State Fixed Effects

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

Medicaid and Food: An EASI Demand Approach

Rigoberto A. Lopez, University of Connecticut; **Sijia Chen**, University of Connecticut

Estimating the Effects of Electronic Cigarettes Excise Taxes on the Demand of Tobacco Products

Xueting Deng, University of Kentucky; Yuqing Zheng, University of Kentucky

2096 Non-Market Impacts of Natural Disasters, Pollution, and Wildfire

M303, Marquis Level

Selected Presentation

This session features nonmarket impacts of natural disaster, pollution, and wildfire in valuing the environment and other goods and services. The papers cover environments ranging from homeownership rate, housing price, sport game marketplace, and forest.

Moderator: Neha Khanna, Binghamton University

Community Resilience to Natural Disasters: The Effects of Environmental Changes on Homeownership Rate and Community Quality

Xiaoyu Li, The Ohio State University; Allen Klaiber, The Ohio State University; Sathya Gopalakrishnan, The Ohio State University

Recreational Damages from Air Pollution: Evidence from Secondary Marketplace Ticket Microdata for National Football League Games

Scott Kaplan, University of California, Berkeley; Hal Gordon, University of California, Berkeley

Heterogeneous Preferences Over Recreation Sites in Wildfire Prone Areas

Sophia Tanner, University of Arizona; Frank Lupi, Michigan State University; Cloe Garnache, Michigan State University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2097 Consumer Response to Farm Production Standards and Certification Schemes

M304, Marquis Level

Selected Presentation - Discussant Test Session

This session offers a collection of studies which use innovative approaches to examine consumer response to on-farm production standards and certification schemes.

Moderator: Kristin Kiesel, University of California, Davis

German Consumers' Preference and Planned Behavior for Animal Welfare Labelled Cured Ham: An Integrated Latent Choice Model

*Ching-Hua Yeh, University of Bonn; **Monika Hartmann**, University of Bonn*

Which Do U.S. Consumers Value More, Animal Welfare or Worker Welfare Labels? Evidence from Two Choice Experiments on Milk and Egg Selection

***Danielle M. Kaminski**, Michigan State University; Vincenzina Caputo, Michigan State University*

How Much do Consumers Value Farmers? An Investigation Across Food Products and Certification Schemes

***David L. Ortega**, Michigan State University; Danielle Ufer, Michigan State University; Wen Lin, Michigan State University; Christopher A. Wolf, Michigan State University*

Multi-product Firms, Multi-Category Purchase, and Firm-level Standards on Food Product Attributes Linked to Farm Practices

***Hanbin Lee**, University of California, Davis; Daniel A. Sumner, University of California, Davis*

2098 Dairy Policies and Trade Implications

Suite 3803, 38th Floor

Selected Presentation

The dairy industry, both in the U.S. and abroad, is facing challenges due to changes in policy and regulation. This session will cover the impacts of ongoing and emerging issues in the dairy industry, and their implications for international trade. Papers explore impacts of labeling requirements for dairy and dairy-related industries, the interdependencies between the U.S. and Canadian dairy markets, and the effects of waste management regulation on the size and scale of dairy farms.

Moderator: Ivan Tzintzun, Paris 1 Panthéon-Sorbonne

Milking "Milk" for Profits? Winners and Losers from The DAIRY PRIDE Act

***Armen Ghazaryan**, Colorado State University; Alessandro Bonanno, Colorado State University; Clare Cho, USDA-Economic Research Service*

North American Dairy Policy Puzzles: Do the Pieces Fit?

***Tristan M. Hanon**, University of California, Davis; Daniel A. Sumner, University of California, Davis*

Implication of Greenhouse Gas Reduction Mandates for Size Distributions of Dairy Farms

*Pablo Valdes-Donoso, University of California Agricultural Issues Center; **Daniel A. Sumner**, University of California, Davis*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2099 An Assessment of Food Safety from the Farm to the Consumer

Suite 3819, 38th Floor

Selected Presentation - Discussant Test Session

Problems with food safety can occur anywhere along the supply chain to the final consumer; thus, identifying factors that contribute to the disruption of food safety may save money, but more importantly lives. One paper in this session consider compliance costs of food safety regulation on the farm. Two papers consider firm level recalls and inspections in the U.S. A final paper theorizes consumer-level mitigating responses to food safety issues. These papers provide important analysis of critical areas of the food system to support a healthier food supply.

Moderator: Gregory M. Astill, USDA-Economic Research Service

The Impact of Third-party and Federal Produce Safety Standards on U.S. Cost of Production

Travis Minor, USDA-Economic Research Service; **Gregory M. Astill**, USDA-Economic Research Service; Suzanne D. Thornsbury, USDA-Economic Research Service; Xiao Dong, The Ohio State University

Ground Beef Recalls and Subsequent Food Safety Performance

Michael E. Ollinger, USDA-Economic Research Service; Elina T. Page, USDA-Economic Research Service; Matt Houser, University of Georgia

The Impacts of Food Safety Certification on Producers' Safety Outcomes

Lijiao Hu, University of Kentucky; Yuqing Zheng, University of Kentucky

Socioeconomic Influences on Food Safety Risks in Retail Food Environment.

Modhurima D. Amin, Washington State University; Jill J. McCluskey, Washington State University; Ron C. Mittelhammer, Washington State University; Haley F. Oliver, Purdue University; Sophie T. Wu, Purdue University

2100 Institutions and U.S. Labor Supply

Suite 3824, 38th Floor

Selected Presentation - Discussant Test Session

The papers in this session examine determinants of labor supply in U.S. markets and effects of related institutions.

Moderator: Rui Chen, Auburn University

Effects of Having an Opposite-sex Twin on Labor Market Outcomes in United States

Qiuqiong Huang, University of Arkansas; Qian Yiwei, University of Arkansas; Rodolfo M. Nayga, University of Arkansas

The Impact of ACA Medicaid Expansions on Agricultural Workers' Health Insurance Coverage, Medical Care Utilization, and Labor Supply

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

The Affordable Care Act: Does the ACA Dependent Coverage Mandate Mean Less Out-of-pocket Health Care Expenditure and Health Care Utilization?

Rui Chen, Auburn University; Di Fang, University of Arkansas; Valentina Hartarska, Auburn University

The Effect of Food Security Status on Labor Supply Decisions

Josie A. Krogh, University of Georgia; Travis A. Smith, University of Georgia

2101 International Development - Intergenerational

Suite 3839, 38th Floor

Selected Presentation

These papers explore the intergenerational transmission of behaviors and welfare.

Moderator: Jeffrey R. Bloem, University of Minnesota

All I Really Need to Know I Learned in Kindergarten? Evidence from the Philippines

Jeffrey R. Bloem, University of Minnesota

Like Parents, Like Children? Inter-Generational Poverty Transmission in China

Fan Yang, Sichuan University; **Krishna P. Paudel**, Louisiana State University; Zhuo Wang, Sichuan University

Empirical Investigation of Intertemporal Poverty Dynamics in Ghana

Yacob A. Zereyesus, Kansas State University; Francis Tsiboe, Kansas State University; Samuel Annim, University of Cape Coast

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2102 International Trade - Policy Impacts on Agricultural Trade

Suite 3903, 39th Floor

Selected Presentation

Papers in this session examine the impacts of trade policies such as retaliatory use of tariffs on agricultural trade.

Moderator: K. Aleks Schaefer, Royal Veterinary College, University of London

Retaliatory Use of Public Standards in Trade

*Kjersti Nes, University of California, Davis; **K. Aleks Schaefer**, Royal Veterinary College, University of London*

The United States Trade Policies in the Twenty First Century and Impacts for Domestic Agriculture

***Maksym Chepeliev**, Center for Global Trade Analysis, Purdue University; Wallace E. Tyner, Purdue University; Dominique Van Der Mensbrugghe, Purdue University*

Trade War: Global Land Use Implications of Chinese Tariffs on U.S. Agricultural Products

*Farzad Taheripour, Purdue University; **Peter Richards**, United States Department of Agriculture; Wallace E. Tyner, Purdue University*

Assessing the Impacts of Equivalency Agreements in International Organic Trade

***Siqi Zhang**, North Carolina State University*

U.S. Trade Policies and Their Impact on Domestic Vegetables, Fruits and Nuts Sector: A Detailed Tariff Line Analysis

*Maksym Chepeliev, Center for Global Trade Analysis, Purdue University; Alla Golub, Purdue University; Thomas W. Hertel, Purdue University; **Wajiha Saeed**, Purdue University*

Effects of Chinese and Mexican Retaliatory Tariffs on Select U.S. Agricultural Commodities on the U.S. Economy and Global Markets

*Amani E. Eloheid, Iowa State University; **Miguel A. Carriquiry**, Universidad de la República, Ciencias Economicas; David A. Swenson, Iowa State University; Dermot J. Hayes, Iowa State University*

U.S. Beef Exports Comeback in South Korea: A Competitor Analysis

***Lekhnath Chalise**, USDA-Economic Research Service; Russell Knight, USDA-Economic Research Service*

2103 Climate and Forests

Suite 3919, 39th Floor

Selected Presentation

Afforestation has the potential to provide a significant carbon sink to mitigate climate change. The papers in this session explore the relationship between forests and climate at a regional to global scale. Applications quantify the effects of climate and policy on forest area, and the potential for feedbacks as changes in forest area alter carbon sequestration, timber production, and carbon markets.

Moderator: Adam J. Daigneault, University of Maine

How Does Albedo Affect Climate-Efficient Forest Area and Global Carbon Prices?

***Emily F. McGlynn**, University of California, Davis; Bernardo Adolfo Bastien Olvera, University of California, Davis; Alice Favero, Georgia Institute of Technology*

Marginal Cost of Carbon Sequestration through Forest Restoration of Agricultural Land in the Southeast United States

***Oladipo S. Obembe**, Kansas State University; Nathan P. Hendricks, Kansas State University*

Global Forest Management, Carbon Sequestration, and Bioenergy Supply under Alternative Socioeconomic and Climate Pathways

***Adam J. Daigneault**, University of Maine; Alice Favero, Georgia Institute of Technology*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2104 Cropping System Economics

Suite 3924, 39th Floor

Selected Presentation - Discussant Test Session

Papers in this session discuss the economics of cropping systems including crop rotations, cover crops, and double cropping.

Moderator: Jarkko K. Niemi, Natural Resources Institute Finland

Cover Crops Usage in South Dakota: Perceived Profitability and Future Adoption Decisions

Tong Wang, *South Dakota State University*; **Deepthi Elizabeth Kolady**, *South Dakota State University*; **Jessica Ulrich-Schad**, *South Dakota State University*

Evaluating a Systems Approach to Suppressive Crop Rotations in Strawberry Production

Aleksandr Michuda, *University of California, Davis*; **Rachael E. Goodhue**, *University of California, Davis*; **Krishna V. Subbarao**, *University of California, Davis*; **Daniel Chellemi**, *Root Guard*

Double Cropping as an Adaptation to Climate Change in the United States

Matthew Gammans, *University of California, Davis*; **Pierre Mérel**, *University of California, Davis*

Crop Rotations and Risk Management in Mississippi Delta Agriculture

Andrew W. Stevens, *Mississippi State University*; **William B. Bradley**, *Mississippi State University*; **William Knotts**, *Mississippi State University*

2105 Research Methods/Econometrics/Stats - What's in the Data? Advances in Econometrics for Data Irregularities and New Data Sources

Suite 3934, 39th Floor

Selected Presentation - Lightning Section

The data that agricultural and applied economists use continues to evolve. This lightning session focuses on the econometrics methods that use new formats and sources of data, and that account for various data irregularities.

Moderator: Andrew Hanks, The Ohio State University

Misclassification Errors in Remote Sensing Data and Land Use Modeling

Yongjie Ji, *Iowa State University*

Estimating Dynamic Discrete Choice Panel Models Using Irregularly Spaced Data

Maolong Chen, *Southwestern University of Finance and Economics*; **Robert J. Myers**, *Michigan State University*; **Chaoran Hu**, *Sichuan University*

Testing Attrition Bias in Field Experiments

Sarojini Hirshleifer, *University of California, Riverside*; **Karen Ortiz Becerra**, *University of California, Davis*; **Dalia Ghanem**, *University of California, Davis*

Does Change in Respondents' Attention Matter in Estimating Willingness to Pay from Choice Experiments?

Kayla Hildebrand, *Oklahoma State University*; **Chanjin Chung**, *Oklahoma State University*; **Tracy A. Boyer**, *University of Wisconsin, Milwaukee*

On the Effect of the Unit of Choice in Consumer Food Valuation Studies

Wen Lin, *Michigan State University*; **David L. Ortega**, *Michigan State University*; **Vincenzina Caputo**, *Michigan State University*

Introducing Sentiment Analysis to Agricultural Economics: Case Study from Restaurant Reviews

Guang Tian, *University of Idaho*; **Xiaoxue Du**, *University of Idaho*; **Liang Lu**, *University of Idaho*; **Christopher S. McIntosh**, *University of Idaho*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2106 Clean Water Policy and Impacts

Suite 3939, 39th Floor

Selected Presentation

This session focuses on various forms of regulatory policies that target water quality, implementation problems, and benefits.

Moderator: William J. Burke, Agricultural and Food Policy Consulting

Financial Assistance and Violations of Environmental Regulations: Evidence from Clean Water Act (CWA) and Clean Water State Revolving Fund (CWSRF)

Sharaban T. Anica, West Virginia University; **Levan Elbakidze**, West Virginia University

Dueling Drought-mitigation Efforts: The Role of Water Use Efficiency and Conservation Policies on Effluent Generation and Quality

Kurt A. Schwabe, University of California, Riverside; **Mehdi Nemati**, University of California, Riverside; **Refat Amin**, University of California, Riverside

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

The Impact of Clean Water on Infant Mortality: Evidence from China

Maoyong Fan, Ball State University; **Guojun He**, Hong Kong University of Science and Technology

2107 Gender and Rural Development

Suite 4003, 40th Floor

Selected Presentation - Discussant Test Session

This session explores the role of women in agriculture and impact of broadband in rural development.

Moderator: Claudia Schmidt, The Pennsylvania State University

Female-Operated Farms and U.S. Agricultural Vitality

Claudia Schmidt, The Pennsylvania State University; **Zheng Tian**, The Pennsylvania State University; **Stephan J. Goetz**, The Pennsylvania State University

Does Elite Capture Matter? New Evidence from Development Oriented Seed Production Programme of Women Self-Help Group in India

Subash Surendran Padmaja, ICAR-National Institute of Agricultural Economics and Policy Research; **Prakashan Chellattan Veettil**, International Rice Research Institute; **Aditya K.S.**, Indian Agricultural Research Institute

Women's Empowerment and Technical Efficiency: What Role for Technology Adoption in Nigeria?

Adebayo S. Bamire, Obafemi Awolowo University; **Tahirou Abdoulaye**, International Institute of Tropical Agriculture; **Tahirou Abdoulaye**, International Institute of Tropical Agriculture; **Olajumoke Adeyeye**, Obafemi Awolowo University; **Hannah Reed**, Bill and Melinda Gates Foundation; **Alia Didier**, University of Washington; **Adebayo A. Akinola**, Obafemi Awolowo University; **Ayodeji S. Ogunleye**, Obafemi Awolowo University

Estimating the Impact of Wired Broadband Deployment on Rural Areas in Puerto Rico by Using Difference-In-Differences (DID) Method

Hyun Ji Lee, Texas Tech University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2108 Applications of Machine Learning to Predict Agricultural Land Values

Suite 4024, 40th Floor

Track Session - AFM & Econometrics Sections

Accurately predicting agricultural land values is challenging due to the small number of transactions and the large number of potential factors that affect values. Yet predictions of land values are critical for investment decisions, appraisals used by lenders, and policymakers targeting easements. This session includes two papers that advance the knowledge of predicting land values using machine learning algorithms. Co-sponsored by AFM and Econometrics sections, the session also includes discussion from a data scientist working in industry and a leading academic in agricultural finance.

Organizer: Wendong Zhang, Iowa State University

Moderator: Todd H. Kuethe, University of Illinois at Urbana-Champaign

Discussants: Allen M. Featherstone, Kansas State University; Adrian Torchiana, Granular, Inc.

Machine Learning Improves Prediction of Agricultural Land Values in Kansas

Nathan P. Hendricks, Kansas State University; **Emrah Er**, Kansas State University; **Mykel R. Taylor**, Kansas State University

The Difference Between Actual and Appraised Prices For New York Farmland: Machine Learning versus Standard Regression Analysis

Jennifer E. Ifft, Cornell University; **Akshat Vora**, Cornell University

2109 Risk Management Programs and the Farm Bill

M103, Marquis Level

Track Session - ARA Section

The 2018 Farm Act covers 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 played 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 2018 Farm Act relative to the 2014 Farm Act and their implementation.

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

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

Panelists: Harun Bulut, National Crop Insurance Services; Robert C. Johansson, USDA-Office of the Chief Economist; Dwight K. Lanclous, USDA-Farm Production and Conservation Business Center; Vincent H. Smith, Montana State University; Thomas W. Worth, USDA-Risk Management Agency

2110 Communicating Research to Support Public Trust in Science and Evidence-based Policy

L404, Lobby Level

Track Session - ENV Section & AERE

A core mission of agricultural and applied economics is to facilitate science-based policy making to address complex societal problems. However, successfully integrating science into policy requires a robust foundation of public trust in the scientific process and clear lines of communication among scientists, policymakers, and stakeholders. Too often, scientific information presented to the public and decision-makers is infused with hidden policy preferences and stealth advocacy, which erodes that trust. This session considers how the AAEA community can better communicate our research in a world of “fake news” and increased partisanship. The session will be in the format of a moderated panel discussion that features scholars with experience communicating science to broad audiences.

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

Moderator: Kelly M. Cobourn, Virginia Tech

Panelists: Kevin J. Boyle, Virginia Tech; Sandra Hoffmann, USDA-Economic Research Service; Mary Marchant, Virginia Tech; David J. Pannell, University of Western Australia; Parke E. Wilde, Tufts University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2111 China's Farmland Reform and the Development of Agriculture, Rural Areas, and Farmers - Lightning Section M102, Marquis Level

Track Session - China Section

Farmland circulation and the development of agriculture, rural areas, and farmers are critical to the future of China's agricultural industry. This session focuses on examining the current issues related to the reform of farmland circulation in China and the strategies of the development of agriculture, rural areas, and farmers.

Organizer: Yuqing Zheng, University of Kentucky

Will Land Transfer Always Increase Technical Efficiency in China?

Yu Liu, Nanjing Agricultural University; **Shangao Wang**, Nanjing Agricultural University; **Yingheng Zhou**, Nanjing Agricultural University

Does Land Titling Promote Land Transfers? Evidence from China

Yumeng Wang, Renmin University of China; **Xiangzhi Kong**, Renmin University of China; **Lixia He**, Oklahoma State University; **Dayton M. Lambert**, Oklahoma State University

Entering and Exiting: The Trends and Causes of Part-time Farming in Rural China

Yunli Bai, Institute of Geographic Sciences and Natural Resources Research; **Weidong Wang**; **Linxiu Zhang**, Institute of Geographic Sciences and Natural Resources Research; **Spencer Hagist**, Chinese Academy of Sciences

Who's Farming in China? From the Perspective of International Comparison

Linxiu Zhang, Institute of Geographic Sciences and Natural Resources Research; **Yunli Bai**, Institute of Geographic Sciences and Natural Resources Research; **Chengfang Liu**, Peking University; **Weidong Wang**

Social Capital, Capital Accessibility and Farmer Health

Menghua Li, China Academy for Rural Development of Zhejiang University; **Longbao Wei**, China Academy for Rural Development of Zhejiang University

Impact of Farmland Transfer on Household Labor Productivity: An Empirical Study in China

Lijing Zhang, Zhejiang University; **Wenrong Qian**, Zhejiang University

Group Lending without Joint Liability: Behavioral Insights from a Framed Field Experiment in Rural China

Jian Chen, The Ohio State University; **Jon Einar Flatnes**, The Ohio State University; **Richard Gallenstein**, Catholic University of America; **Mario J. Miranda**, The Ohio State University; **Yingmei Tang**, Nanjing Agricultural University

Effects of Social Network on Rural Household Debt Default

Siyu He, Sichuan Agricultural University; **Krishna P. Paudel**, Louisiana State University

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2112 Outlook for U.S. Biofuels Policy - Impacts to the U.S. Crop Sector

L405, Lobby Level

Track Session - EXT Section

The U.S. Renewable Fuel Standard was enacted in the Energy Policy Act of 2005, which amended the Clean Air Act. The Energy Independence and Security Act of 2007 further amended the CAA by expanding the RFS program with mandates for different fuel types and limits on greenhouse gas emissions. Although the standard is not set to expire in its current form until 2022, it is likely that significant changes will be made before then. Three factors to be considered include: 1) reduced gasoline consumption; 2) failure of cellulosic fuels to reach their mandated levels; and 3) issuance of small refinery waivers to refiners claiming hardship due to the mandate. The goal of our session is to examine the issues surrounding this policy trade off. We specifically examine the U.S. crop sector, including bio-fuel products and their co-products.

Organizers: Thomas C. Capehart, USDA-Economic Research Service; Linwood A. Hoffman, USDA-Economic Research Service

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

Discussant: Anthony Radich, USDA-Office of the Chief Economist

Policy Issues and Outlook on Potential Changes to the Remaining RFS Standards

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

Impacts/Outlook for U.S. Feed Grain Sector

Todd Hubbs, *University of Illinois at Urbana-Champaign*

Impacts/Outlook for U.S. Oilseed Sector

Mark S. Ash, *USDA-Economic Research Service*

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2113 Impact of Innovative Food Systems and Farm2School on Food Access and Food Choices - Lightning Section *M101, Marquis Level*

Track Session - FAMPS & FSN Sections

This lightning session focuses on food systems initiatives' role in improving food access, and highlights whether Farm to School (F2S) programming / local procurement influence food choices. Study one analyzes small-scale indigenous food programs and reductions in obesity and diabetes. Study two examines how dollar stores can fill food access gaps. Study three investigates characteristics of communities offering farm fresh food boxes, consumer demand and farmer profitability. Study four examines how motivation, ability and opportunity to participate in community gardening impacts food access/security. Study five analyzes students' autonomous choices and preferences for F2S (Farm-to-School)-based "healthier" options. Study six examines whether serving local F2S produce increases student consumption/acceptance of fruits and vegetables (FV). Study seven investigates student preferences for locally sourced foods and how parent-child interactions influence food choices. Study eight analyzes F2S programming spillovers on FV food-at-home purchases.

Organizers: Alessandro Bonanno, Colorado State University; Carola Grebitus, Arizona State University; Jane M. Kolodinsky, University of Vermont

Moderator: Zoë Plakias, The Ohio State University

Native Food Systems in Arizona: Improving Economic and Social Wellbeing through Indigenous Food Programs

Lauren Chenarides, Arizona State University; Renee Shaw Hughner, Arizona State University; Ashok K. Mishra, Arizona State University

The Prevalence of Dollar Stores in Areas with Low Food Access

Bongkyun Kim, University of Arkansas; Michael R. Thomsen, University of Arkansas; Lauren Chenarides, Arizona State University; Rodolfo M. Nayga, University of Arkansas

Spatial Characteristics of a Local Food Solution: Impacts on Community Development

Jane M. Kolodinsky, University of Vermont; Marilyn Sitaker, Evergreen State College; WeiWei Wang, University of Vermont

Using the Motivation-Ability-Opportunity Model to explain Community Gardening Participation and Related Food Security

Carola Grebitus, Arizona State University

The Impact of Student Choice in Farm to School elementary, Middle and High Schools

Jane M. Kolodinsky, University of Vermont; WeiWei Wang, University of Vermont

Do Farm to School Products Increase Fresh Fruit and Vegetable Consumption in Elementary Schools?

Siwen Zhou, Colorado State University; Marco Costanigro, Colorado State University; Becca B. R. Jablonski, Colorado State University; Abby Long, Colorado State University; Melissa Prescott, University of Illinois at Urbana-Champaign

Adolescent Children's Preferences for Locally Sourced Foods in School Lunches Under Parent-child Interaction

Thadchaigeni Panchalingam, The Ohio State University; Brian E. Roe, The Ohio State University; Allen Klaiber, The Ohio State University; Gregory E. Howard, East Carolina University

Exposure to Farm to School Programming and Households' Fruit and Vegetables Purchases

Sachintha S. Mendis, Colorado State University; Alessandro Bonanno, Colorado State University; Clare Cho, USDA-Economic Research Service

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2114 Job Market Papers in International and Development Economics

M302, Marquis Level

Track Session - International Section

Four job market candidates present their job market paper. The topics covered include structural transformation, global value chains, weather index insurance, and the effects of sunset times.

Organizer: Annemie Maertens, University of Sussex

Moderator: Annemie Maertens, University of Sussex

The Role Of Land Institutions in Structural Transformation: Evidence from Rural China

Zhongyuan Liu, University of Georgia

Demand for Weather-Index Insurance among Smallholder Farmers under Prospect Theory

Soye Shin, University of Georgia

Global Agricultural Value Chains and Structural Transformation

Sunghun Lim, University of Minnesota

Poor Sleep: Sunset Times and Human Capital Production

Maulik Jagnani, Cornell University

2115 Market Prices and Malnutrition in Developing Countries

M104, Marquis Level

Track Session - Africa, FSN, & International Sections

Agriculture and food markets could play a causal role in health and human development, as nutritious diets become more or less convenient and affordable. This session presents innovations in price analysis across countries and individuals to reveal large differences in the cost of meeting nutrient needs. First, Robel Alemu will address links between economic development and the cost of daily energy versus healthier diets using ICP data from 170 countries. Then Ellen McCullough will present new work on how actual consumer demand for foods and nutrients varies with income and prices using panel survey data from Tanzania, Yan Bai will address the impact of differences in nutrient needs on the affordability of healthy diets over time in Malawi, and Derek Headey will open discussion with comments linking these innovations to other work on agriculture and nutrition at International Food Policy Research Institute.

Organizer: William A. Masters, Tufts University

Moderator: William A. Masters, Tufts University

Discussant: Derek Headey, International Food Policy Research Institute

Economic Development and the Cost of Nutritious Diets in 170 Countries

Robel G. Alemu, Tufts University; Steven A. Block, Tufts University; William A. Masters, Tufts University; Derek Headey, International Food Policy Research Institute

New Estimates of Consumer Demand for Foods and Nutrients across Households in Tanzania

Ellen McCullough, University of Georgia; Soye Shin, University of Georgia; Chen Zhen, University of Georgia

Heterogeneity in Nutrient Needs and the Cost of Nutritious Diets over time in Malawi

Yan Bai, Tufts University; William A. Masters, Tufts University; Anna Herforth, Independent Consultant; Stevier Kaiyatsa, Lilongwe University of Agriculture and Natural Resources

Concurrent Sessions TUESDAY, 4:45 PM - 6:15 PM

2116 How U.S. Trade Policies Have Shaped Latin America's Food and Ag Industry: Risks and Opportunities

Suite 4039, 40th Floor

Track Session - LAS Section

The aim of this session is to shed light on how U.S. trade policies have shaped the agricultural and food industry sector in Latin America and the Caribbean (LAC), and the implications of current trade policies on trade flows. The first two papers evaluate the potential impact of the changes in tariffs on LAC trade partners, the lessons learned, and the challenges faced. The third presentation will analyze how foreign direct investments in South America has positioned the region to address emerging export opportunities. The fourth presentation will evaluate how changes in the U.S.-China trade relationship may affect the LAC region, and the potential opportunities and challenges for the agricultural and food industry of the region.

Organizers: Felipe Peguero, CATIE University, Costa Rica; Samuel D. Zapata, Food Distribution Research Society

Moderator: P. Lynn Kennedy, Louisiana State University

From NAFTA to USMCA, Implications for Latin America and the Caribbean

Luis A. Ribera, Texas A&M University; **Flynn J. Adcock**, Texas A&M University

Central America and Caribbean Region: Lessons Learned from DR-CAFTA and Challenges Ahead

Luis A. Sandoval M, Zamorano University; **Felipe Peguero**, CATIE University, Costa Rica

South America: Foreign Direct Investments and Trade

Luis M. Peña-Lévano, University of Florida

Changes in US-China Trade Agreements: Risks and Opportunities for Latin America and the Caribbean Countries

Felipe Peguero, CATIE University, Costa Rica; **Samuel D. Zapata**, Food Distribution Research Society; **Andrew Muhammad**, University of Tennessee; **Elizabeth Canales Medina**, Mississippi State University

2117 Understanding the Economic Issues Underlying the Rural-urban Divide

M301, Marquis Level

Track Session - Senior Section

In the wake of the 2016 election, political observers have paid a significant amount of attention to rural Americans who, as a group, had a deep impact on the results. Commentators have been interested not only on rural Americans' role in the election but have also sought to determine why rural America voted the way it did. These two questions are best examined in light of some of the fundamental dynamics in the diverse rural economy. The motivation for this session comes from concerns about the relative lack of opportunities in rural areas and how that might weaken our democracy in the long run. The session will take a fresh look at persistent economic challenges and identify opportunities which are likely to give residents more of a voice in their businesses and communities.

Organizer: Mary Clare Ahearn, Economic Consultant

Moderator: Mary Clare Ahearn, Economic Consultant

Economic Diversity among Nonmetro County Types

Timothy Parker, USDA-Economic Research Service Resource and Rural Economics; **Mary Clare Ahearn**, Economic Consultant

Implications of Rural Employment Opportunities for Community Vitality

Stuart Andreason, Federal Reserve Bank of Atlanta

Running from the Mountains and Headed to the City: How Do Rural Places Survive?

Alison Davis, University of Kentucky

Causes and Consequences of the Higher Opioid Prescribing Rates in Rural America

Gery Guy, Centers for Disease Control and Prevention

Attitudes, Economics, and Rural-urban Interactions

Heather Stephens, West Virginia University

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Participant and Author Index

- Abdulai, Awudu**, University of Kiel: **1002**
Aborisade, Olumide, Texas Tech University: **T060**
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