WAEA Annual Meeting
Colorado Springs, Colorado
June 22 – 24, 2014
## SUNDAY REGISTRATION
**June 22, 4:00 p.m. – 7:00 p.m.**
*Antlers Hilton Lobby*

## SUNDAY EVENING EXECUTIVE COUNCIL MEETING
**June 22, 5:00 p.m. – 7:00 p.m.**
*Heritage D*

## SUNDAY EVENING RECEPTION
**June 22, 7:00 p.m. – 9:00 p.m.**
*Summit III*

## MONDAY REGISTRATION
**June 23, 8:00 a.m. – 10:30 a.m.**
*Antlers Hilton Lobby*

## MONDAY EARLY MORNING
**June 23, 8:00 a.m. – 10:00 a.m.**
*Welcome*  
James W. Richardson, Texas A&M University

### WAEA Presidential Address – *Measuring Burden of Disease: The Role of Food and Agriculture*
**Thomas L. Marsh, Washington State University**

Dr. Thomas L. Marsh is a Professor in the School of Economic Sciences at Washington State University, and holds affiliated appointments in the Paul Allen School for Global Animal Health and Department of Statistics. Dr. Marsh also serves as Director of the IMPACT Center at Washington State University. He teaches Ph.D. courses in econometrics and an undergraduate course in management economics. Dr. Marsh’s major areas of research are marketing and international trade, quantitative methods, and natural resource economics. Specific topics of interest include estimating the impact of public food safety information on consumer demand, measuring welfare and trade impacts from plant and animal health, and addressing key issues in agricultural policy.

Dr. Marsh is an elected member of the Washington State Academy of Sciences, which is a science advisory group to the state, and currently serves on its Board of Directors. He has served the WAEA and AAEA in various committee and leadership roles. Dr. Marsh previously served on the Editorial Council of the Journal of Agricultural and Resource Economics and is past associate editor of the American Journal of Agricultural Economics.

### WAEA Keynote Address – *The Causes of Drought in the Southwestern United States*
**John Nielsen-Gammon, Texas A&M University**

Dr. John Nielsen-Gammon is a Regents Professor in the Department of Atmospheric Sciences at Texas A&M University and also serves as the Texas State Climatologist. His weather-related work involves jet streams, extreme rainfall events, and land and sea breezes. His air quality research includes field forecasting support, numerical simulation, and diagnostic analysis of ozone events in Houston and Dallas for the Texas Air Quality Studies in 2000 and 2005-6. Dr. Nielsen-Gammon has also worked on drought monitoring and forecasting, air pollution climatology, and improvements to the climate data record. He teaches courses in weather analysis, weather forecasting, climatology, and atmospheric dynamics.

Dr. Nielsen-Gammon received a Presidential Faculty Fellow award (now known as PECASE) from the National Science Foundation and the White House in 1996, a Distinguished Achievement Award in Teaching at Texas A&M University from the Association of Former Students in 1996, and was named a Fellow of the American Meteorological Society (AMS) in 2011. He is Past President of the International Commission for Dynamical Meteorology and is past chair of the AMS Board on Higher Education. He holds three degrees from the Massachusetts Institute of Technology.

## MONDAY MORNING BREAK
**June 23, 10:00 a.m. – 10:30 a.m.**
*(on your own)*
MONDAY LATE MORNING

June 23, 10:30 a.m. – 12:00 p.m.

Graduate Student Paper Competition (Session I)

**Modeling Welfare Outcomes of Water Markets with Transaction Costs: An Agent-based Modeling Approach**

Allison Bauman,* Colorado State University; Christopher Goemans, Colorado State University; James Pritchett, Colorado State University; Travis Warziniack, US Forest Service; Dawn Thilmany McFadden, Colorado State University

**The Economics of Water Project Capacities, Water Inventory Management, and Conservation Technology Adoption**

Yang Xie,* University of California, Berkeley; David Zilberman, University of California, Berkeley

**The Adoption of Ductless Heat Pumps in the Pacific Northwest**

Alexander Hlavinka,* Texas A&M University; James Mjelde, Texas A&M University; Senarath Dharmasena, Texas A&M University; Christine Jerko-Holland, Northwest Energy Efficiency Alliance

**Understanding Subsidy Incidence in Imperfect Energy Markets Using Experimental Economics**

Choong Kim,* University of Wyoming; Christopher Bastian, University of Wyoming; Dale Menkhaus, University of Wyoming; Owen Phillips, University of Wyoming

Invited Symposium: Developing Great Teaching – Engaging Millennial Students

**What Defines Millennial Students and How are They Different?**

Lindsey Higgins, California Polytechnic State University (Moderator)

**Using Sonification to Engage Graduate Students in Recognizing Patterns in Econometrics Classes**

Chris McIntosh, University of Idaho

**Undergraduate Classroom Experiences Focused on Engaging Millennial Students**

Eric Belasco, Montana State University

**Using Group Projects, Teams and Peer Learning in the Millennial Environment**

Lindsey Higgins, California Polytechnic State University

Food Choice, Policy, and Health

**Is Obesity Contagious? A Case Study of International Graduate Students**

Bhagyashree Katare, University of Minnesota

**The Real Effect of SNAP Benefits for Food Insecurity**

David Davis,* South Dakota State University; Rui Huang, Bates White LLC

**The Effect of Grocery Shopping Frequency and Time on the Healthfulness of Food Purchases**

Jeta Rudi, University of Minnesota

**The Influence of Social Networks on College Students’ Food Choices**

Dan Wang, Arizona State University; Carola Grebitus, Arizona State University; Christiane Schroeter,* California Polytechnic State University (Moderator)

Livestock Industry Policy Impacts

**Factors Influencing Export Market Recovery after an Animal Disease Outbreak**

Kamina Johnson,* USDA-APHIS-VS; Amy Hagerman, USDA-APHIS-VS

**Assessing the Effects of Beef E. coli O157: H7 Recalls on U.S. Meat Demand: Evidence from Grocery-store Scanner Data**

Xia Shang,* Kansas State University; Glynn Tonsor, Kansas State University

**A Range of Possibilities: Probabilistic Outcomes of Beta Agonist Removal from U.S. Beef Production**

Myriah Johnson,* Texas A&M University; David Anderson, Texas A&M University; Jason Sawyer, Texas A&M University; Tryon Wickersham, Texas A&M University; James Richardson, Texas A&M University

**Hog Industry Structure and the Stringency of Environmental Regulation**

Azzeddine M. Azzam, University of Nebraska-Lincoln; Gibson Nene, University of Minnesota-Duluth; Karina Schoengold,* University of Nebraska (Moderator)

Production, Efficiency, and Technological Change

**A Data Envelopment Analysis Approach to Multi-product and Product-specific Economies of Scale**

Bryon Parman,* Mississippi State University; Allen Featherstone, Kansas State University; Vincent Amanor-Boadu, Kansas State University

**Analysis of Efficiency of U.S. Beef Cow-Calf Farms**

Vine Mutyasira,* Colorado State University; Dustin Pendell, Colorado State University

**Economic Valuation of Unmanned Aircraft Systems (UAS) in Precision Agriculture**

Ryan Larsen, North Dakota State University; Juan Murguia,* North Dakota State University; William Wilson, North Dakota State University

**Effect of Deregulation and Technological Change on the x-efficiency of US Credit Unions**

Gregory McKee, North Dakota State University ( Moderator)

Managing Natural Resources under Risk

**A Comparison of the Non Market Benefits of Reducing Forest Fire Risk from Removal of Dead Trees: Burn on Site versus Off-site Conversion to Biochar**

Maryam Tabatabaei,* Colorado State University; John Loomis, Colorado State University; Dan McCollum, US Forest Service

**Linking Listing and Delisting Decisions for Endangered Species: A Case Study of Gray Wolves in the Northern Rocky Mountains**

Charles Sims,* University of Tennessee; David Finnoff, University of Wyoming; Alan Hastings, University of California - Davis; Jacob Hochard, University of Wyoming

**Effect of Coupled Social-Ecological System Characteristics on Poverty Traps: Determining Optimal Aid Program**

Kyle Montanio,* University of Rhode Island; Thomas Sproul, University of Rhode Island; Emi Uchida, University of Rhode Island

**The Risk Perception Gap: Insight from Comparison of Wildfire Risk Evaluations for Log Hill Mesa, Colorado**

James Meldrum,* University of Colorado; Patricia Champ, US Forest Service; Travis Warziniack, US Forest Service; Hannah Brenkert-Smith, University of Colorado Boulder (Moderator)

* = Presenting author, if multiple authors.
### MONDAY LUNCH

**June 23, Noon – 1:30 p.m.**

*(on your own)*

### MONDAY EARLY AFTERNOON

**June 23, 1:30 p.m. – 3:00 p.m.**

<table>
<thead>
<tr>
<th>Graduate Student Paper Competition (Session II)</th>
<th>Heritage A</th>
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<tbody>
<tr>
<td>To Frack, or not to Frack: Option Value Analysis</td>
<td>Rebecca Davis,* University of Tennessee; Charles Sims, University of Tennessee</td>
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<tr>
<td>Dynamically Optimal versus Institutionally Attainable: The Implications of Use-Based Rights for Externalit</td>
<td>Misti Sharp,* Colorado State University; Dale Manning, Colorado State University; Dana Hoag, Colorado State University</td>
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<tr>
<td>Uninsured Health Shocks and Agricultural Productivity in Rural Households: Does Microcredit Have a Role to Play?</td>
<td>Rosemary Isoto,* The Ohio State University; David Kraybill, The Ohio State University</td>
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<tr>
<th>Invited Symposium: 2014 Farm Bill and the Future of Farm Policy</th>
<th>Heritage B</th>
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<tr>
<td>2014 Farm Bill: Issues and Opportunities for Farmers in the West</td>
<td>Jody Campiche, Oklahoma State University (Moderator)</td>
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<tr>
<td>Farm Bill Process: How it has Changed and What Does it Mean for the Future of Farm Policy?</td>
<td>Joe Outlaw, Texas A&amp;M University</td>
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<td>Competing Policy Arenas and the Impact on Agriculture</td>
<td>David Anderson, Texas A&amp;M University</td>
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<tr>
<th>Managing Water Resources</th>
<th>Carson</th>
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<tr>
<td>Common-pool Groundwater Use and Depletion under Changing Precipitation Patterns</td>
<td>Nicolas Quintana Ashwell,* Kansas State University; Jeffrey Peterson, Kansas State University</td>
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<tr>
<td>Experiments on Groundwater Policy at the Extensive and Intensive Margins</td>
<td>Jordan Suter,* Colorado State University; Samuel Collie, Colorado State University; Joshua Duke, University of Delaware; Kent Messer, University of Delaware; Holly Michael, University of Delaware</td>
</tr>
<tr>
<td>An Economic Inquisition of When Water Quality Trading Works</td>
<td>Marzieh Motallebi,* Colorado State University; Dana LK Hoag, Colorado State University</td>
</tr>
<tr>
<td>Groundwater Substitution Transfers: Modeling the Spatial and Temporal Distribution of Groundwater Pumping Cost Externalities</td>
<td>Eric Houk,* California State University, Chico; Steffen Mehl, California State University, Chico; Kyle Morgado, Department of Water Resources (Moderator)</td>
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<tr>
<th>Trade Policy Analysis</th>
<th>Fremont</th>
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<tr>
<td>Potential Impacts of an Exclusionary Trans-Pacific Partnership Agreement in Agriculture</td>
<td>Amanda Leister, Colorado State University; Jada Thompson,* Colorado State University</td>
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<tr>
<td>The Effect of Elimination of the Tariff on Maize in the East African Community</td>
<td>Stephane Makombe,* University of Arkansas; Jeff Luckstead, University of Arkansas</td>
</tr>
<tr>
<td>A Strategic Trade Analysis of World Apple Juice Market</td>
<td>Stephen Devadoss, University of Idaho; Jeff Luckstead, University of Arkansas; Mahalingam Dhamodharan,* University of Idaho</td>
</tr>
<tr>
<td>Technical Barriers to Trade: Effect on Revenue and Surplus</td>
<td>Lia Nogueira,* University of Nebraska; Hayley Chouinard, Washington State University; Thomas Marsh, Washington State University; Christine Wieck, University of Bonn (Moderator)</td>
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<tr>
<th>Land Management and Land Values</th>
<th>Hayden</th>
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<tr>
<td>An Empirical Analysis of Risks and Returns on Alternative Cropland Lease Arrangements Practices in South Dakota using a Flex Rent Modeling Approach</td>
<td>Moses Luri,* South Dakota State University; Larry Janssen, South Dakota State University</td>
</tr>
<tr>
<td>A Stochastic Analysis of California Farmland Values</td>
<td>Xiaowei Cai,* California Polytechnic State University; Jay Noel, California Polytechnic State University; Caixing Gu, California Polytechnic State University</td>
</tr>
<tr>
<td>Linear Versus Quadratic Response Plateau for Estimating the Optimal Levels of Nitrogen with Three Alternative Distributional Assumptions</td>
<td>Wade Borsen, Oklahoma State University; Frederic Ouedraogo,* Oklahoma State University</td>
</tr>
<tr>
<td>Factors Determining Long Term Trend of Cropland Values and Cash Rental Rates in South Dakota</td>
<td>Larry Janssen,* South Dakota State University; Kuo-Liang Chang, South Dakota State University; Kopila Bhattarai, South Dakota State University (Moderator)</td>
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<tr>
<th>Economic Impacts at the Community and Regional Level</th>
<th>Cameron</th>
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<tr>
<td>Effect of Road Miles on Tourism Employment Growth in Colorado</td>
<td>Benjamin Crabb, Utah State University; Man-Keun Kim,* Utah State University</td>
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<tr>
<td>Economic Impact of the Dairy Industry to Colorado</td>
<td>Graham Swanepoel,* Colorado State University; Joleen Hadrich, Colorado State University</td>
</tr>
<tr>
<td>Assess the Value of Agricultural and Environmental Extension Programs: A Case Study in Island County, WA</td>
<td>Mandal, Bidisha, Washington State University; Hao Li,* Washington State University; Lawrence, Timothy; Washington State University</td>
</tr>
<tr>
<td>Application of Interindustry and Value Chain Analysis to Estimate Economic Impacts of a Whole Milk Powder Plant in Churchill County, Nevada</td>
<td>Dusty Casey, University of Nevada; Thomas Harris,* University of Nevada (Moderator)</td>
</tr>
</tbody>
</table>
MONDAY AFTERNOON BREAK
(on your own)

June 23, 3:00 p.m. – 3:30 p.m.

MONDAY LATE AFTERNOON

June 23, 3:30 p.m. – 5:00 p.m.

Graduate Student Paper Competition (Session III)

Heritage A

The Role of Market Structure and Federal Renewable Fuel Standards in the Growth of the Cellulosic Biofuel Sector
Tristan Skolrud,* Washington State University; Gregmar Galinato, Washington State University; Suzette Galinato, IMPACT Center; C. Richard Shumway, Washington State University; Jonathan Yoder, School of Economic Sciences

The Impact of Biofuels Policy and Drought on the US Grains and Livestock Markets
Sunil Dohoubadel,* University of Nebraska-Lincoln; Azeddine M. Azzam, University of Nebraska-Lincoln; Matthew Stockton, University of Nebraska

Big Firms, Big Influence? The Effect of Market Power on Voting Outcomes for Mandatory Agricultural Marketing Organizations
Zoe Plakias,* University of California, Davis; Rachael Goodhue, University of California, Davis

Welfare Analysis of the U.S. and EU Trade Liberalization in the Orange Juice Market
Mahalingam Dhamodharan,* University of Idaho; Jeff Luckstead, University of Arkansas; Stephen Devadoss, University of Idaho

Teaching for Student and Extension Audiences

Heritage B

Integrating Macroeconomics to Extension Agribusiness Economics Programs
Forrest Stegelin, University of Georgia

The Changing Face of Agriculture: Characteristics and Perceptions of Arkansas Women in Agriculture, a 10 Year Study
Jacob Manlove,* University of Arkansas; Jennie Popp, University of Arkansas; Haxhire Myrteza, University of Arkansas

GPS-Guided vs. Self-Directed Search: On the Quest for Information Literacy
Lindsey Higgins, California Polytechnic State University; Christiane Schroeter,* California Polytechnic State University

To Double or Not to Double? Examining the Benefits of Double Majors
Jada Thompson,* Colorado State University; Gregory Perry, Colorado State University; Amanda Leister, Colorado State University (Moderator)

Agricultural Management under Drought and Changing Climate

Carson

The Effectiveness of the Livestock Forage Disaster Program to Mitigate the Impact of Drought
Eric Belasco,* Montana State University; Randal Rucker, Montana State University

The Effectiveness of Rainfall Index Insurance on Livestock Producers after the Drought
Kathleen Brooks, University of Nebraska; Monte L. Vandeveer,* University of Nebraska; Jerry Volesky, University of Nebraska; Cory Walters, University of Nebraska

Drought: A Case Study of Adaptation on a South Texas Cotton and Grain Farm
J. Marc Raulston,* Texas A&M University; George Knapek, Texas A&M University; James Richardson, Texas A&M University; Joe Outlaw, Texas A&M University

Management Implications of a Changing and Variable Climate for Production in Southeast Wyoming
Tucker Hamilton, University of Wyoming; John Ritten, University of Wyoming; Christopher Bastian,* University of Wyoming; John Tanaka, University of Wyoming; Justin Derner, United States Department of Agriculture (Moderator)

Management of Heterogeneous Landscapes

Fremont

Addressing Genetic Pollution from Pollen Drift on a Heterogeneous Landscape with Coasean Bargaining
Mattia Mancini,* University of Arkansas; Kent Kovacs, University of Arkansas

Estimating the Residential Development Value of Agricultural Land: A Propensity Score Approach for Limited Data
Benjamin Rashford,* University of Wyoming; Abby Mellinger Scott, University of Wyoming; Scott Lieske, University of the Sunshine Coast

Optimal Wildlife Management in the Greater Yellowstone Ecosystem
David Aadland, University of Wyoming; Charles Sims,* University of Tennessee; Jacob Hochard, University of Wyoming

Market Supply Analysis: Landowner Preferences for Ecosystem Service Provision
Esther Duke, Colorado State University; Kristiana Hansen,* University of Wyoming; Craig Bond, Colorado State University (Moderator)

Agricultural Policy and Farm/Market Impacts

Hayden

Crop Insurance Contract and Forward Contracting Impact on Revenue Risk
Cory Walters,* University of Nebraska; Richard Preston, Preston Farms

An Evaluation of Farm Bill Alternatives for Western Wheat Farms
George Knaep,* Texas A&M University; James Richardson, Texas A&M University; Joe Outlaw, Texas A&M University; J. Marc Raulston, Texas A&M University

What Decision Will Western Dairies Make Under the New Farm Bill Dairy Program
Brian Herbst,* Texas A&M University; David Anderson, Texas A&M University; Joe Outlaw, Texas A&M University; James Richardson, Texas A&M University

Hay Exports and the Dynamic Price Relationships in the Western U.S. Dairy and Feed Markets
Hernan Tejeda,* Utah State University; Dillon Feuz, Utah State University (Moderator)

June 23, Dinner

MONDAY EVENING
(on your own)
**TUESDAY BREAKFAST AND BUSINESS MEETING**

**Heritage C**

**June 24, 7:00 a.m. – 8:30 a.m.**

**TUESDAY EARLY MORNING**

**June 24, 8:30 a.m. – 10:00 a.m.**

<table>
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<tr>
<th>Session</th>
<th>Location</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>Invited Symposium: Business Continuity in the Livestock Industry - How to Keep the Product Flowing During a Disease Event</td>
<td>Heritage A</td>
<td>Amy Hagerman, USDA-APHIS-VS (Moderator)</td>
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<tr>
<td>Keeping Product Moving in Catastrophic Events: Issues, Research Gaps and Opportunities for Applied Economists</td>
<td></td>
<td>Dustin Pendell, * Colorado State University; Ted Schroeder, Kansas State University; Mike Sanderson, Kansas State University</td>
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<tr>
<td>Continuity of Business for Beef Operations and Feedlots in the Event of an FMD Outbreak</td>
<td></td>
<td>Amy Hagerman, * USDA-APHIS-VS; Amy Delgado, USDA-APHIS-VS</td>
</tr>
<tr>
<td>Safe Milk Movements and Continuity of Business: Producer Risk and Testing Requirements in Surveillance Zones During an FMD Outbreak in Texas</td>
<td></td>
<td>Kristen Johnson,* University of Minnesota Center for Animal Health and Food Safety; Sasidhar Malladi, University of Minnesota Center for Animal Health and Food Safety</td>
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<tr>
<td>The Secure Food Supply and Continuity of Business - What are the Opportunities for Economic Consequence Assessment?</td>
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<tr>
<td>Impacts of Agricultural Subsidies</td>
<td>Heritage B</td>
<td>Abby Poe, Mississippi State University; Kalyn Coatney,* Mississippi State University; Keith Coble, Mississippi State University; Matthew Freeman, Mississippi State University</td>
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<tr>
<td>Farm Subsidy Incidence in the Presence of Bertrand Competitors of Complementary Factors of Production: An Experimental Approach</td>
<td></td>
<td>Anthony Baffoe-Bonnie, University of Wyoming; Christopher Bastian,* University of Wyoming; Dale Menkhaus, University of Wyoming; Owen Phillips, University of Wyoming</td>
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<tr>
<td>Stacking Subsidies in Factor Markets: Evidence from Market Experiments</td>
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<td>Christiane Schroeter,* California Polytechnic State University; Nathalie Mathieu-Bolh, University of Vermont (Moderator)</td>
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<tr>
<td>Taxes, Subsidies and Obesity: A Dynamic Approach</td>
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<tr>
<td>Ethanol Market Issues</td>
<td>Carson</td>
<td>Kassu Wamisho,* North Dakota State University; David Ripplinger, North Dakota State University</td>
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<tr>
<td>Energy Beet based Ethanol Investment Analysis Using Real Option Approach</td>
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<td>HongSeok Seo,* Texas A&amp;M University; Sang Hyeon Lee, Texas A&amp;M University; Taehoo Kim, Utah State University</td>
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<td>Impacts of Biofuel Mandates on Competitiveness of US Soybeans in the EU Market</td>
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<td>Bashir Qasmi,* South Dakota State University; Scott Faust, South Dakota State University; Kelly McDaniel, South Dakota State University (Moderator)</td>
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<tr>
<td>The Impacts of Ethanol Production on Corn Basis and Corn Basis Volatility in Eastern South Dakota</td>
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<td>Using Experiments to Analyze Marketing and Policy Choices</td>
<td>Fremont</td>
<td>Ben Zamzow, University of Pittsburgh</td>
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<tr>
<td>Optimal Packaging and Pricing</td>
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<td>Diana Danforth, University of Arkansas; Anne-Cecile Delwaide,* University of Arkansas; Bruce Dixon, University of Arkansas; Lawton Nalley, University of Arkansas; Rodolfo Nagya, Jr., University of Arkansas; Ellen Van Loo, Ghent University; Wim Verbeke, Ghent University</td>
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<td>European Acceptance of Cisgenic Rice: Are All GMO’s the Same?</td>
<td></td>
<td>Gnel Gabrielyan,* Washington State University; Jill McCluskey, Washington State University; Thomas Marsh, Washington State University</td>
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<tr>
<td>Consumer Preferences for Beer Attributes</td>
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<td>Betsy Mock, University of Wyoming; Kristiana Hansen, University of Wyoming; Roger Coupal,* University of Wyoming (Moderator)</td>
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<tr>
<td>Economics of the Native Seed Industry: A Laboratory Experiment</td>
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<td>Valuing Water in Different Uses</td>
<td>Hayden</td>
<td>Haoying Wang, The Pennsylvania State University</td>
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<td>Irrigation Efficiency and Water Use in U.S. Agriculture: A Cross-Sectional Approach</td>
<td></td>
<td>Marco Costanigro, Colorado State University; Christopher Goemans, Colorado State University; Janine Stone,* Colorado State University</td>
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<td>Deconstructing Demand: Exploring Heterogeneity in Consumer Responses to Water Policies</td>
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<td>John Loomis, Colorado State University (Moderator)</td>
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<tr>
<td>Farm-Level Marketing and Profitability Analysis</td>
<td>Cameron</td>
<td>Timothy Park, US Department of Agriculture</td>
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<tr>
<td>Direct Sales and the Structure of Farm Sales: An Unconditional Quantile Regression Approach</td>
<td></td>
<td>Pei Xu,* California State University, Fresno; Todd Lone, California State University, Fresno; Patrick Berends, California State University, Fresno</td>
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<tr>
<td>Price Risk Management: A California Dairy Perspective</td>
<td></td>
<td>Kynda Curtis,* Utah State University; Mary Shepherd, Utah State University; Ruby Ward, Utah State University (Moderator)</td>
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<td>Contributing Factors to the Success of Small-Scale Farms in the Mountain West</td>
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<td>June 24, 10:00 a.m. – 10:30 a.m.</td>
<td>TUESDAY MORNING BREAK (on your own)</td>
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| June 24, 10:30 a.m. – Noon | **Invited Symposium: A Role for Applied Economics in Veterinary Medicine** | Heritage A | Michael Dicks, American Veterinary Medical Association (Moderator)  
Amy Hagerman, USDA-APHIS-VS  
Heritage A |
|                        | **Pest and Disease Management**                                       | Heritage B | Tyler Cozzens, Colorado State University  
Anton Bekkerman, Montana State University  
Peter Tozer, Washington State University  
Shane Ruff, Kansas State University; Dannele Peck,* University of Wyoming; Christopher Bastian, University of Wyoming; Walter Cook, Texas A&M University (Moderator) |
|                        | **Livestock Profitability and Markets**                                | Carson    | Kalyn Coatney,* Mississippi State University; Joshua Maples, Mississippi State University; John Riley, Mississippi State University; Daniel Rivera, Mississippi State University  
Reed Larsen, Colorado State University |
|                        | **Management and Marketing of Specialty Crops**                        | Fremont   | Sokha Sok,* University of Arkansas; Jennie Popp, University of Arkansas; German Rodriguez, University of Arkansas; Elena Garcia, University of Arkansas; David Dickey, University of Arkansas  
Stephen Ott, U.S. Department of Agriculture  
Clement Ward,* Oklahoma State University; Mallory Vestal, West Texas A&M University; Yoonsuk Lee, University of Arkansas at Pine Bluff (Moderator) |
|                        | **Climate Change, Greenhouse Gas Emissions, and Agriculture**           | Hayden    | Cortney Cowley, Oklahoma State University  
Sarah Rehkamp,* University of Nebraska; Azzeddine Azzam, University of Nebraska; Christopher Gustafson, University of Nebraska  
Michael Popp,* University of Arkansas; Lawton Nalley, University of Arkansas; Zara Clayton, University of Arkansas  
Rachna Tewari,* University of Tennessee at Martin; Joseph Mehlihorn, University of Tennessee at Martin; Scott Parrott, University of Tennessee at Martin; Jessica Hill, Louisiana State University (Moderator) |
|                        | **Estimating Policy Impacts**                                          | Cameron   | Jong W. Choi,* University of Minnesota; Chengyan Yue, University of Minnesota  
Sung Ju Cho,* Texas A&M University; Sang Hyeon Lee, Texas A&M University  
Edward Osei, TIAER, Tarleton State University; Syed Jafri,* Tarleton State University; Jordan Reese, Tarleton State University (Moderator) |
| June 24, Noon – 1:30 p.m. | **TUESDAY AWARDS LUNCHEON**                                          | Heritage C |                                                                                                  |