

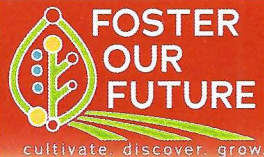
FOSTER OUR FUTURE

cultivate. discover. grow.

February 5, 2019
Ronald Reagan Building
Washington, DC



FFAR signature event



AGENDA

12:30-1:00 pm **Registration**

1:00-5:00 pm **Foster Our Future Exhibits Open**

1:15-1:30 pm **Opening Remarks**

Atrium

Sally Rockey, Executive Director, Foundation for Food and Agriculture Research
Hon. Sonny Perdue, Secretary of Agriculture, U.S. Department of Agriculture
Dale Moore, Executive Vice President, American Farm Bureau Federation

1:30-2:00 pm ***Regenerative Agriculture and the role it plays in our Food System***

Ballroom

- **Jerry Lynch**, Chief Sustainability Officer, General Mills, Inc. – Moderator
- **Bill Buckner**, Former President & Chief Executive Officer, Noble Research Institute (retired) – Panelist
- **Michael Vance**, Vice President of Agriculture – B-29 Investments and Managing Partner – Stark Ranch & Stark Farm to Market – Panelist

2:00-2:30 pm **Meet a New Innovator in Food and Agriculture Research**

Atrium

- **Jonas King**, Assistant Professor, Mississippi State University – *Harnessing Massively Parallel Sequencing Technology for Detecting Agriculturally Important Pests and Diseases*
- **Lisa Tiemann**, Assistant Professor, Michigan State University – *Building Soil Health Through Rotational Diversity and Soil Microorganisms*

2:00-2:30 pm **Speakers Booth - *Science to Sense-Making: Co-Creating Pathways to Bridge Knowledge Gaps***

Atrium

Erin Fitzgerald, Chief Executive Officer, U.S. Farmers & Ranchers Alliance
Chip Bowling, Chairman, U.S. Farmers & Ranchers Alliance

2:05-2:25 pm ***Adaptive Multi-Paddock (AMP) Grazing to increase Farm Resiliency and Improve Soil Biodiversity, Animal Wellbeing and Productivity***

Oculus

Peter Byck, Professor, School of Sustainability and Walter Cronkite School of Journalism and Mass Communications, Arizona State University – FFAR awardee

2:30-3:00 pm ***Driving Innovation with Public Private Partnership***

Ballroom

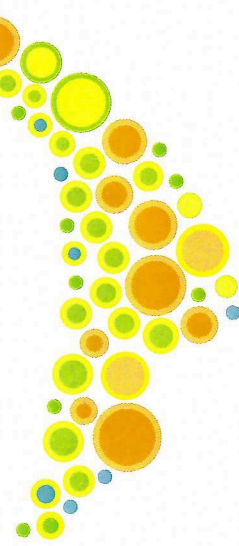
- **Scott Hutchins**, Undersecretary for Research, Education and Economics, U.S. Department of Agriculture – Introductory Remarks
- **Jeffrey L. Rosichan**, Director, Crops of the Future Collaborative, Foundation for Food and Agriculture Research – Moderator
- **Mohammed Oufattole**, Vice President, Research & Development, Benson Hill Biosystems, Inc. – Panelist
- **Fayaz Khazi**, Chief Executive Officer, Elo Life Systems – Panelist
- **Derek Bartlem**, Head of Research USA, KWS – Panelist

3:00-3:30 pm Atrium	<p>Meet a New Innovator in Food and Agriculture Research</p> <ul style="list-style-type: none"> • Crystal Levesque, Assistant Professor, South Dakota State University – <i>Achieving Precision Feeding of the Sow and her Offspring for Sustainable Food Production</i> • Sotirios Archontoulis, Assistant Professor, Iowa State University – <i>Improving Prediction of Soil Water Dynamics and Crop Yields in the Corn Belt</i>
3:00-3:30 pm Atrium	<p>Speakers Booth - Kroger's Zero Hunger Zero Waste Innovation Fund</p> <p>Sunny Reelhorn Parr, Kroger Foundation Manager</p>
3:05-3:25 pm Oculus	<p>The Next CRISPR Frontier</p> <p>Rodolphe Barrangou, Associate Professor, Food Science, North Carolina State University – 2018 Winner of the National Academy of Sciences Prize in Food and Agriculture Sciences</p>
3:30-4:00 pm Ballroom	<p>Land-Grant Universities: Relevant Research Today, Solutions for Tomorrow</p> <ul style="list-style-type: none"> • Sally Rockey, Executive Director, FFAR – Moderator • Douglas L. Steele, Vice President, Food, Agriculture, and Natural Resources, Association of Public and Land-grant Universities – Panelist • Wendy Wintersteen, President, Iowa State University – Panelist • Paul J. Plummer, Associate Professor, Iowa State University – Panelist
4:00-4:30 pm Atrium	<p>Meet a New Innovator in Food and Agriculture Research</p> <ul style="list-style-type: none"> • Maya Vadiveloo, Assistant Professor, University of Rhode Island – <i>Design and Implementation of the Smart Cart Study</i> • Benjamin J. Reading, Assistant Professor, North Carolina State University – <i>Fish Physiology and Aquaculture</i>
4:00-4:30 pm Atrium	<p>Speakers Booth - Farm of the Future: Technology Changing Food Supply</p> <p>Vonnie Estes, Vice President of Technology, Produce Marketing Association</p>
4:05-4:25 pm Oculus	<p>Danone North America</p> <p>Chris Adamo, Vice President, Federal and Industry Affairs, Danone North America</p>
4:30-4:55 pm Ballroom	<p>Panel discussion</p> <ul style="list-style-type: none"> • Kathleen Merrigan, Executive Director, Swette Center for Sustainable Food Systems, Arizona State University – Moderator • Vimlendra Sharan, Director of the FAO Liaison Office for North America – Panelist
4:55 pm Atrium	<p>Closing Remarks</p> <p>Sally Rockey, Executive Director, FFAR</p>
5:00 pm	<p>Foster Our Future Exhibits Close</p>



Sally Rockey
Executive Director,
Foundation for Food and
Agriculture Research

WELCOME TO FOSTER OUR FUTURE!



On behalf of the Foundation for Food and Agriculture Research (FFAR) it is my honor and pleasure to welcome you to **Foster Our Future**. We're delighted to have you join in today's exploration of food and agriculture research.

Throughout the day, you will meet the next generation food and agriculture scientists, explore a virtual reality farm, watch award-winning films and discover game-changing research at interactive exhibits. You'll also have the opportunity to connect with thought leaders through panel discussions and presentations.

As you explore cutting-edge science today, we hope you will be inspired by the significant role research plays in addressing the challenges facing food and agriculture.

FFAR is a nonprofit organization, initially established through bipartisan congressional support in the 2014 Farm Bill. We envision a future where innovation and collaboration ensures everyone has access to nutritious, affordable food, grown on thriving farms. We look forward to collaborating with you to Foster Our Future.

Sincerely,

A handwritten signature in black ink, appearing to read "Sally Rockey".

Sally Rockey
Executive Director
Foundation for Food and Agriculture Research



SPEAKERS



Chris Adamo
Vice President, Federal and
Industry Affairs, Danone
North America

Chris Adamo is Vice President at Danone North America for federal and industry affairs. Previously, Chris spent over a decade at the highest levels of the federal government working on issues related to agriculture, environment and nutrition. Recently, Chris was the chief of staff for President Obama's White House Council on Environmental Quality from 2015 until the end of the Administration in 2017. After serving in the Obama Administration, Chris spent 2017 as a senior fellow at National Wildlife Federation advising on a host of issues such as sustainable agriculture, climate change, natural resources and water. Previously, Chris worked for 10 years in the U.S. Senate as an advisor to both Democrats and Republicans. Chris graduated with a degree in economics and business from Kalamazoo College and a law degree from Vermont Law School.



Sotirios Archontoulis
Assistant Professor, Iowa
State University
FFAR New Innovator in Food
and Agriculture Research

Sotirios Archontoulis is an Assistant Professor of Integrated Cropping Systems at Iowa State University, Department of Agronomy. He completed his Ph.D. and M.S. in crop science and crop modeling at Wageningen University, the Netherlands and his postdoc research in cropping systems modeling at Iowa State University. His research combines field-lab experimentation with simulation process-based models to improve production and environmental performance of various cropping systems such as Midwest corn and soybeans. His current focus identifies land use and management practices that increase crop yields while decreasing inputs like water and nitrogen.



Rodolphe Barrangou
Todd R. Klaenhammer
Distinguished Professor,
North Carolina State
University
2018 NAS Prize In Food And
Agriculture Sciences Winner

Rodolphe Barrangou is the Todd R. Klaenhammer Distinguished Professor in Probiotics Research in the Department of Food, Bioprocessing and Nutrition Sciences at North Carolina State University, focusing on the evolution and functions of CRISPR-Cas systems, and their applications in bacteria used in food manufacturing. Barrangou earned a B.S. in Biological Sciences from Rene Descartes University in Paris, France, a M.S. in Biological Engineering from the University of Technology in Compiègne, France, a M.S. in Food Science from North Carolina State University, a Ph.D. in Genomics from North Carolina State University and a MBA from the University of Wisconsin-Madison. He spent nine years in R&D and M&A at Danisco and DuPont in the food industry. Barrangou was elected into the US National Academy of Sciences in 2018.



Derek Bartlem
Head of Research USA, KWS

Derek Bartlem is Head of Research USA for German plant-breeding company KWS, leading the KWS Gateway Research Center in St. Louis, MO. Derek joined KWS in 2014 after serving as a tenured Associate Professor at Hokkaido University in Sapporo, Japan. His previous experience includes Cold Spring Harbor Laboratory in New York and Murdoch University in Australia. These global experiences forged his passion and commitment to diversity and equality in scientific research and education. Derek has a doctorate and Master's Degree in agricultural chemistry from Hokkaido University in Japan and a bachelor's degree from Murdoch University in Australia.



Chip Bowling
Chairman, U.S. Farmers & Ranchers Alliance
Former NCGA Chairman

Chip Bowling, a corn grower in Newburg, MD, serves as Chairman of U.S. Farmers & Ranchers Alliance. He is also former chairman of the National Corn Growers Association. Bowling has also served at the state and local levels as a past president of the Maryland Grain Producers Association, as Farm Service Agency committee chairman, as a director for the Charles County Farm Bureau and on the Charles County Economic Development Board. Founded in 1957, the National Corn Growers Association represents more than 40,000 dues-paying corn growers and the interests of more than 300,000 farmers who contribute through corn checkoff programs in their states.



Bill Buckner
President & Chief Executive Officer, Noble Research Institute

Bill Buckner is President and Chief Executive Officer of the Noble Research Institute, LLC and President of The Samuel Roberts Noble Foundation. Buckner has had a distinguished career with Bayer starting in 1993 and culminating with his election as President/CEO of Bayer CropScience, LP in April 2006 and subsequent retirement in December 2011. Buckner serves on the boards of the Soil Health Institute (board chair), Wilbur-Ellis Company, the Farm Foundation, Trace Genomics, and on the Kirchner Food Fellowship Board of Advisors. He earned his B.S. degree in Agricultural Economics from the University of Missouri-Columbia in 1980.



Peter Byck
Professor, School of Sustainability and Walter Cronkite School of Journalism and Mass Communications, Arizona State University

Peter Byck is Director, Producer and Writer of "Carbon Nation" and Professor of Practice at Arizona State University, in the Schools of Sustainability & Journalism. Byck is now focusing on soil health - via short films: "Soil Carbon Cowboys" and in leading a large systems science project comparing regenerative grazing to conventional - measuring a whole suite of data from water retention to soil carbon to animal well-being and more. Byck has appeared on Real Time with Bill Maher and NPR's Science Friday. He has shown "Carbon Nation" at the House of Commons, Boeing, Nike, Google, Microsoft, Shell, Walmart.com and more. Awards: "Garbage", Best Documentary at SXSW; "Carbon Nation" Best Documentary, IVCA, London; "One Hundred Thousand Beating Hearts" Best Short Documentary at Cleveland International Film Festival and six more festivals.



Vonnie Estes
Vice President of Technology,
Produce Marketing
Association

Vonnie Estes is the new Vice President of Technology at Produce Marketing Association. Her role is to bring technology to the produce industry across the supply chain, working with both technology companies and the industry to identify and solve pressing needs. She has held leadership positions at prominent companies including DuPont, Monsanto, and Syngenta along with start-ups and venture funds to identify revolutionary science and bring products to market. She has built a number of agricultural and bio-industrial start-ups with successful exits. In 2017, Estes was the recipient of Rosalind Franklin award for leadership in Biotechnology. She has a vision to commercialize new technologies creating revolutionary products that are good for people and the planet. Estes has a B.S. in Horticulture from New Mexico State and a Masters in Plant Pathology from U.C. Davis.



Erin Fitzgerald
Chief Executive Officer, U.S.
Farmers & Ranchers Alliance

Erin Fitzgerald serves as Chief Executive Officer of the U.S. Farmers & Ranchers Alliance (USFRA), a farmer and rancher led organization committed to encouraging stakeholder and consumer dialogue about how food is grown and raised. Fitzgerald's thought leadership in the sustainability space convenes food and agriculture stakeholders in an inclusive dialogue on the sustainable food systems of the 21st century. Prior to USFRA, Fitzgerald served as Senior Vice President, Global Sustainability for the Innovation Center for U.S. Dairy, where she conducted an environmental impact assessment that led to an industry-wide voluntary carbon reduction goal of 25 percent by 2020.



Fayaz Khazi
Chief Executive Officer,
Elo Life Systems

Fayaz Khazi is the Chief Executive Officer of Elo Life Systems. Prior to joining Elo, Khazi was the Chief Executive Officer of KeyGene USA. Khazi holds a doctorate in molecular genetics from Auburn University where he studied DNA repair and recombination. He became the founding Director of Translational Medicine at Intrexon Corporation, where he held several executive leadership positions supporting the food, human health, and agricultural biotechnology sectors. Khazi also worked with executive management at Intrexon to help launch a successful IPO in 2013 (NYSE: XON) before moving on to become Chief Executive Officer of KeyGene USA. At Elo, he will continue to pursue innovative approaches and creative partnerships to develop high impact solutions at the nexus of food, agriculture and human wellness.



Jonas King
Assistant Professor,
Mississippi State University
FFAR New Innovator in Food
and Agriculture Research

Jonas King grew up in North Mississippi and Southern Arizona. He received his Baccalaureate degree in Biology and Chemistry and master's degree from Ole Miss and pursued his Ph.D. in molecular biology at Vanderbilt University where he studied host-parasite interactions in mosquitoes. King completed postdoctoral research at the Johns Hopkins Bloomberg School of Public Health where he studied human malaria, and at the USDA-ARS Foreign Disease-Weed Science Research Center in Fort Detrick, Maryland, where he studied a bacterial select agent. King's current research focuses broadly on host-pathogen interactions and arthropod disease vectors.



Crystal Levesque
Assistant Professor, South
Dakota State University
FFAR New Innovator in Food
and Agriculture Research

Crystal Levesque was born and raised on a broiler and mixed grain farm in central Saskatchewan, Canada. She completed her Ph.D. at the University of Alberta in amino acid metabolism during pregnancy followed by post-doctoral training at Prairie Swine Center and University of Guelph prior to accepting the position of Assistant Professor of Monogastric Nutrition at South Dakota State University. Her main research interests are protein and amino acid metabolism during pregnancy and maternal nutritional influence on offspring growth and development. Levesque is an active member of the American Society of Animal Science and the American Society of Nutrition.



Jerry Lynch
Chief Sustainability Officer,
General Mills, Inc.

Jerry Lynch leads General Mills sustainability efforts globally. Lynch began his career at General Mills in 1995 and has served in various general management, marketing, and sustainability roles across the company globally. In addition to his day job, Lynch volunteers his time on the Food Recovery Network and the Board of Trustees of the Keystone Policy Center. Lynch earned his Bachelor's degree from Wheaton College in 1984 and a MBA. from the Kellogg School of Management at Northwestern University in 1995.



Kathleen Merrigan
Executive Director, Swette
Center for Sustainable Food
Systems, Arizona State
University

Kathleen Merrigan is the inaugural Executive Director of the Swette Center for Sustainable Food Systems at Arizona State University and the Kelly and Brian Swette Professor of Sustainable Food Systems. She came to ASU after four years as Executive Director of Sustainability at George Washington University. From 2009-2013, Merrigan served as U.S. Deputy Secretary and Chief Operating Officer of the U.S. Department of Agriculture. Previously, she was a professor at the Friedman School of Nutrition Science and Policy at Tufts University. Her prior career includes a variety of agriculture policy positions, including Administrator of the USDA Agricultural Marketing Service and senior staff on the U.S. Senate Committee on Agriculture, Nutrition and Forestry.



Mohammed Oufattole
Vice President of Research & Development, Benson Hill Biosystems

Mohammed Oufattole is currently serving as the Vice President of Research & Development at Benson Hill Biosystems. Prior to joining Benson Hill, Mohammed spent a decade of his career at Monsanto (now Bayer Crop Sciences) where he served in numerous progressing roles in the biotechnology division, including multiple scientific leadership positions across various Discovery, Enabling and Trait Product Development programs. He also served as the head of Monsanto's Biotechnology Research Center in India. Mohammed completed his postdoctoral training at Washington State University, where he also obtained a MBA. He earned his Ph.D. in Molecular Biology and MS in Biological Sciences from Université Catholique de Louvain in Belgium, and his B.S. from the University of Moulay Ismail in Morocco.



Sunny Reelhorn Parr
Kroger Foundation Manager, Kroger Foundation

Sunny Reelhorn Parr leads the Kroger Foundation and philanthropic strategy and grantmaking for the Kroger family of companies. She is responsible for launching the Zero Hunger | Zero Waste Innovation Fund – a \$10 million philanthropic commitment to fund solutions and technologies focused on ending food waste through prevention, recovery and recycling. Previously, Sunny owned a dance studio where children of all ages studied various styles of dance for both recreation and competition. Mentoring youth through the artform of dance was a true passion throughout her 10-year career. Sunny is a mother to a five-year-old boy and a wife to a high school teacher. Time with her boys is often spent traveling and laughing.



Paul J. Plummer
Associate Professor, Iowa State University

Paul Plummer is an Associate Professor in Veterinary Diagnostic and Production Animal Medicine at Iowa State University, and serves as the current Director of the Midwest AMR Consortium and Executive Director for the newly formed National Institute of Antimicrobial Resistance Research and Education (NIAMRRE). He obtained his D.V.M. from the University of Tennessee in 2000 and went on to complete a Large Animal Medicine and Surgery Internship at Texas A&M followed by a Large Animal Medicine Residency at the University of Tennessee. He then completed his Ph.D. in Veterinary Microbiology at Iowa State University in 2009 while working as a ruminant clinician. He also holds an appointment on the American Veterinary Medical Association's Committee on Antimicrobials.



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Dr. Sally Rockey
FFAR Exec. Director



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Sally Rockey
Executive Director,
Foundation for Food and
Agriculture Research

Sally Rockey became the inaugural Executive Director of the Foundation for Food and Agriculture Research (FFAR) in September 2015. Prior to this role, Rockey was a leader in Federal research, overseeing the operations of the extramural programs in both agriculture and biomedicine. She spent 19 years with the U.S. Department of Agriculture before taking on the extramural research program at the National Institutes of Health. As Deputy Director for Extramural Research, Rockey led groundbreaking initiatives and activities that have and will have a lasting positive impact on the research community. Rockey received her Ph.D. in Entomology from The Ohio State University and was recently named a fellow of the Entomological Society of America.



Jeffrey L. Rosichan
Director, Crops of the Future
Collaborative, Foundation
for Food and Agriculture
Research

Jeff Rosichan joined FFAR in January 2018 as the Director of the Crops of the Future Collaborative. Rosichan brings 30 years of agriculture industry experience as a senior R&D executive with significant management, scouting and early stage milestone development expertise. In his role at Dow AgroSciences as External Technology Leader for Oilseed Crops, Cereals, and Output Traits, he was focused on technology exploration, assessment and developing strategic alliances for these crops. He previously served as Global Head of Technology Scouting for Novartis Agribusiness and as Research Leader for all oilseeds projects at Renessen LLC. Rosichan earned his doctorate in Genetics and Cell Biology at Washington State University and did postgraduate work at U.C. Davis.



Vimlendra Sharan
Director of the FAO Liaison
Office for North America

Vimlendra Sharan, an Indian citizen, joined FAO as Director of the FAO Liaison Office for North America on December 1, 2016. Sharan brings with him more than two decades of national and international government leadership experience focusing on rural development, agriculture and food security issues. Sharan has worked with the Indian Government extensively in rural and tribal areas of Maharashtra and has also been actively involved in agriculture & food policy formulation working with the Ministry of Agriculture & Farmers Welfare in New Delhi. He comes to Washington from his previous post as Permanent Representative of India to the Rome based UN Agencies where he was Vice President of the WFP Executive Board, Chairman of IFAD Evaluation Committee and Asia Group representative on FAO Programme Committee and a member of the FAO Council. Sharan holds a degree in Economics from University of Delhi, India and a MBA in Public Policy from University of Birmingham, UK.



Doug Steele

Vice President, Food, Agriculture, and Natural Resources, Association of Public and Land-grant Universities

Doug Steele became the Association of Public and Land-grant Universities (APLU) Vice President for Food, Agriculture, and Natural Resources on January 2, 2019. In April 2018, Steele became director for International Extension Outreach and Education with the Norman E. Borlaug Institute for International Agriculture at Texas A&M University. Previously, he served as director of the Texas A&M AgriLife Extension Service in College Station. Steele earned his bachelor of science degree in animal science and agribusiness from Panhandle State University in Goodwell, Oklahoma, his master of agriculture in agronomy and horticulture from West Texas A&M University in Canyon and his doctorate in educational human resource development from Texas A&M.



Lisa Tiemann

Assistant Professor, Michigan State University
FFAR New Innovator in Food and Agriculture Research

Lisa Tiemann is currently Assistant Professor of Soil Biology in the Plant Soil and Microbial Sciences Department at Michigan State University. With a Ph.D. in Ecology and Evolutionary Biology from the University of Kansas, she takes an agroecological approach to research, which is critical for developing innovative approaches to agriculture that simultaneously increase system productivity, resilience and sustainability. The ultimate goal of her research is to determine how we can manage soil microbes and agroecosystems to sustain the critical services soils provide in support of food production for a rapidly growing human population.



Michael Vance

Vice President of Agriculture - B-29 Investments and Managing Partner - Stark Ranch & Stark Farm to Market

Michael Vance grew up on a small cattle and farming operation in Mississippi. He serves as the Vice President of Agriculture for B-29 Investments and manages a portfolio of investment ranches across three states and as the managing partner for Stark Ranch, LLC. At Stark, Vance is responsible for building a registered red angus herd that is raised and performs in a forage-exclusive environment. His most recent project at Stark Ranch is vertically integrating into the beef business. He earned his B.S. in Animal Science from Mississippi State University and his MBA. from Oklahoma State University.



Maya Vadiveloo
 Assistant Professor,
 University of Rhode Island
 FFAR New Innovator in Food
 and Agriculture Research

Maya Vadiveloo is an Assistant Professor in the Department of Nutrition and Food Sciences at the University of Rhode Island. Her research focuses on dietary assessment methods and identifying and understanding factors that improve population-level dietary quality, obesity and obesity-related outcomes. Vadiveloo completed her postdoctoral work at the Harvard T.H. Chan School of Public Health in the Department of Nutrition, earned her Ph.D. in Nutrition from New York University, her M.S. in Nutrition from Boston University, and her B.A. in Human Biology from Brown University.



Wendy Wintersteen
 President, Iowa State
 University

Wendy Wintersteen became the 16th president of Iowa State University on November 20, 2017. She is the first woman to hold the university's highest office. Wintersteen completed her doctorate in entomology at Iowa State and rose through the ranks to become a professor of entomology (with a brief stint at the U.S. Dept. of Agriculture in Washington, D.C.), and then assumed a number of administrative roles in extension and the College of Agriculture and Life Sciences (CALs). Wintersteen served for eleven years as the endowed dean of the College of Agriculture and Life Sciences and director of the Iowa Agriculture and Home Economics Experiment Station.

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