



ANTIBIOTICS SYMPOSIUM

Exploring Stewardship, Sustainability & Collaboration

ALEXANDRIA, VA | NOVEMBER 1-3

WELCOME

Thank you for joining the National Institute for Animal Agriculture's 12th Annual Antibiotics Symposium. The 2022 Symposium, Exploring Stewardship Sustainability and Collaboration, will connect leaders from animal, human, and environmental health organizations and provide an opportunity to collaborate on research, education, and communication endeavors.

The Symposium's program topics will include information on the latest antimicrobial stewardship and resistance research, connecting sustainability to One Health, policy and regulation, alternatives, and consumer insights.

MISSION

NIAA convenes animal agriculture experts and allies in collaborative settings to explore, discuss, learn, and develop knowledge that fosters interdisciplinary cooperation for the improvement and continuous progress of animal agriculture.

VISION

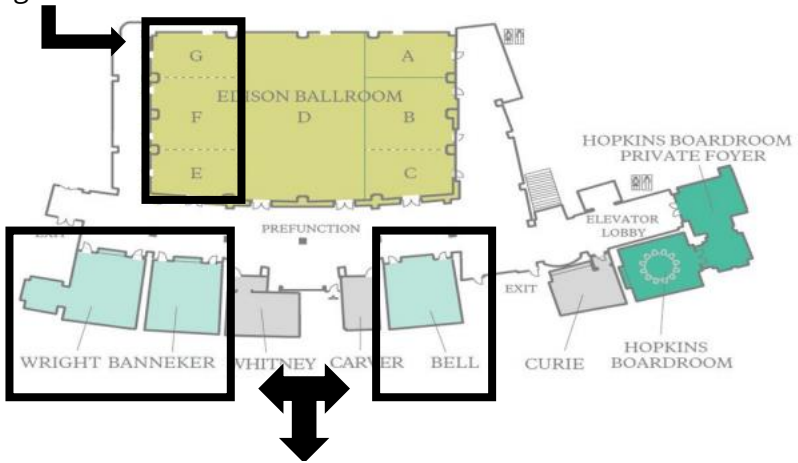
NIAA is the leading resource for the animal agriculture industry and provides value to all stakeholders involved in providing safe and healthy food for the world.

PLANNING COMMITTEE

- Dr. Megin Nichols, Centers for Disease Control and Prevention
- Dr. Justin Welsh, Merck Animal Health
- Dr. Paul Plummer, NIAMRRE
- Dr. Hayley Springer, Penn State University
- David Bruene, Iowa Cattle Rancher, Cattlemen's Beef Board
- Dr. Heather Fowler, National Pork Board
- Courtney Youngbar, ASTHO
- Abraham Kulungara, ASTHO

HOTEL MAP

*Receptions, meals,
and general sessions*



Breakout sessions

- | | | | |
|------------|------------|-------------|----------------|
| 1.Edison A | 5.Edison E | 9. Banneker | 13.Curie |
| 2.Edison B | 6.Edison F | 10. Whitney | 14.Hopkins |
| 3.Edison C | 7.Edison G | 11. Carver | 15.Foyer |
| 4.Edison D | 8.Wright | 12. Bell | 16.Prefunction |

AGENDA

Tuesday, November 1

5 PM – 6:30 PM **Conversations & Collaborations**
[Edison Ballroom – Hosted by the Beef Checkoff
EFG Foyer]

Wednesday, November 2

7:00 – 8:00 AM **Breakfast**
[Edison Ballroom EFG
Foyer]

8:00 – 8:15 AM **Welcome and Introductions**
[Edison Ballroom EFG] NIAA Chair & Antibiotics Council Co-Chair

- Dr. Eric Moore – Norbrook, Inc.
- Dr. Megin Nichols – The Centers for Disease Control & Prevention

8:15 – 8:45 AM **The State of Sustainability in Today's Food System**
[Edison Ballroom EFG] – **How does One Health fit in?**

- Dr. Heather Fowler – National Pork Board
- Jon Hixson – Yum! Brands

Dr. Fowler will open the 12th Annual Antibiotics Symposium with Jon Hixson, vice president of global government affairs and sustainability for Yum! Brands, and will outline the definition of One Health and what it means in a practical sense and review the reasons this conversation continues to be important.

8:45 – 10:00 AM
[Edison Ballroom
EFG]

Connecting Sustainability and One Health

Join leaders in the discussion as we take a deeper look at the multifaceted angles of sustainability - environment, economics, and social - and how they affect One Health.

- Laurie Hueneke – Merck Animal Health
(moderator)
- Dr. Christi Calhoun – Zoetis
- Fabian Bernal – DeLaval
- Ryan Bennett – U.S. Roundtable for Sustainable Poultry and Eggs and the International Poultry Welfare Alliance

10:00 AM
[Edison Ballroom EFG
Foyer]

Morning Break

10:15 AM - Noon

Breakout Sessions One

(Information Sharing/Gathering)

Participants will learn more about efforts in information sharing and gathering in their preferred discipline to become better stewards of antimicrobials while combatting antimicrobial resistance.

[Bell]

- **Communication** – led by
 - Beka Wall, Cattlemen’s Beef Board
 - Jason Menke, National Pork Board

[Banneker]

- **Research** – led by National Institute of Antimicrobial Resistance Research and Education (NIAMRRE)
 - Paul Plummer
 - Kris Johansen
 - Erica Baker
 - Sarah Al-Mazroa Smith

[Wright]

- **Education** – led by American Farm Bureau Foundation for Agriculture

- Brian Beierle
- Yolanda Payne

Noon – 1:00 PM **Networking Lunch**

[Edison Ballroom EFG
Foyer]

1:00 PM – 3:30 PM **Regulatory Updates... How do we work, together,
in a One Health way?**

[Edison Ballroom EFG]

Governmental agencies will share the latest updates in their respective organizations and how the updates can allow opportunities for One Health collaboration.

- **Food and Drug Administration (FDA)**
Dr. Amber McCoig
- **Centers for Disease Control and Prevention (CDC)**
Dr. Jason Folster
- **USDA Animal and Plant Health Inspection Service**
Dr. Chelsey Shivley
- **USDA Agricultural Research Service**
Dr. Steve J. Moeller
- **Environmental Protection Agency (EPA)**
Smiti Nepal
- **National Institutes of Health (NIH)**
Dr. Kyung Moon

3:30 PM – 4:00 PM **Afternoon Break**

[Edison Ballroom EFG
Foyer]

4:00 PM – 5:00 PM **Consumer Insights**

[Edison Ballroom EFG]

Michael Uetz, Midan Marketing

Midan Marketing is a leader in consumer research with a special focus on attitudes toward animal protein. Michael is responsible for establishing and maintaining Midan's vision

and strategic direction and works with meat industry partners.

5:00 PM – 6:30 PM **Conversations & Cocktails**
[Edison Ballroom EFG – Hosted by Merck Animal Health Foyer]

Thursday, November 3

7:00 – 8:00 AM **Breakfast**
[Edison Ballroom EFG Foyer]

8:00 – 8:15 AM **Welcome and Introductions**
[Edison Ballroom EFG] NIAA Chair & Antibiotics Council Co-Chair

- Dr. Eric Moore – Norbrook, Inc.
- Dr. Megin Nichols – The Centers for Disease Control & Prevention

8:15 – 8:45 AM **Antibiotics. One tool in the toolbox ... what else are farmers, ranchers, and veterinarians using to care for animals?**
[Edison Ballroom EFG]

Dr. Tom Noffsinger

Dr. Noffsinger has more than 30 years of experience in beef cattle practice and is now an independent feedlot consultant specializing in facility design, stockmanship, and low-stress livestock handling. He is an owner/member of Production Animal Consultation, Pierson Precision Auscultation, and the Cattle Performance Enhancement Company. He was the recipient of the 2001 Consultant of the Year award from the Academy of Veterinary Consultants for his work at PAC.

8:45 – 10:00 AM
[Edison Ballroom EFG]

Power Talks

Antibiograms: Stepping into the Future of Veterinary Antibiotic Stewardship

– Dr. Edie Marshall – California Department of Agriculture

New veterinary medicine: OTC to RX

– Joe Huffine, ProTrition

What is happening globally?

– Dr. Rachel Cumberbatch – Animal Health Institute

Stewardship – Research to Practice

– Dr. Terry W. Lehenbauer – Veterinary Medicine Teaching and Research Center – UC Davis

Tracking usage

– Dr. Amar Bhat – Reagan-Udall Foundation

10:10 AM – 11: AM

Breakout Sessions Two

(Application)

Participants will build upon learning from the previous day's breakout session to learn more about the practical applications of their preferred discipline to become better stewards of antimicrobials while combatting antimicrobial resistance.

[Bell]

- **Communication** –led by
 - Beka Wall, Cattlemen's Beef Board
 - Jason Menke, National Pork Board

[Banneker]

Continued →

- **Research** – led by National Institute of Antimicrobial Resistance Research and Education (NIAMRRE)
 - Paul Plummer
 - Kris Johansen
 - Erica Baker
 - Sarah Al-Mazroa Smith

[Wright]

- **Education** – led by American Farm Bureau Foundation for Agriculture
 - Brian Beierle
 - Yolanda Payne

11:00 – 11:30 AM

[Edison Ballroom EFG]

Breakout Session Report Out: Application

11:30 – 12:30 PM

[Edison Ballroom EFG]

Public Health Keynote

12:30 – 12:45 PM

[Edison Ballroom EFG]

Wrap-Up and Closing Remarks

NIAA Chair & Antibiotics Council Co-Chair

- Dr. Eric Moore – Norbrook, Inc.
- Dr. Megin Nichols – The Centers for Disease Control & Prevention

1:00 PM

[Edison Ballroom EFG

Foyer]

Lunch Buffet

SPEAKER & MODERATOR BIOS

Listed Alphabetically



Sarah Al-Mazroa Smith

PhD

Education and Training Coordinator
**National Institute for Antimicrobial Resistance
Research and Education (NIAMRRE)**

Dr. Sarah Al-Mazroa Smith, Education and Training Coordinator at the National Institute for Antimicrobial Resistance Research and Education (NIAMRRE), has a background in agricultural extension education focusing on program development and evaluation. Sarah leads the NIAMRRE education work through collaborating on educational research projects and coordinating continuing education programs for professionals and producers. She holds a PhD and master's degree in Agricultural Education along with a bachelor's degree in Animal Science all from Iowa State University.

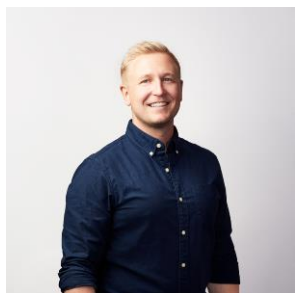


Erica Baker

Member Development Specialist
**National Institute for Antimicrobial Resistance
Research and Education (NIAMRRE)**

Erica Baker is the member development specialist for the National Institute for Antimicrobial Resistance Research and Education (NIAMRRE). From its start in 2018, Erica has played a key role in establishing NIAMRRE as a member-focused organization. Erica leads collaboration efforts by developing programming that mobilizes and engages members and stakeholders to build collaborations with each other and the Institute. With her focus on building relationships and experience in leveraging groups of volunteers, Erica is co-chair for the

NIAMRRE annual conference and manager of NIAMRRE's online community, Exchange. Erica received a BS in biology and MS in entomology, both from Iowa State University.



Brian Beierle

Education Contractor

American Farm Bureau Foundation for Agriculture

Brian serves as the STEM Director for the American Farm Bureau Foundation for Agriculture. He works with a dedicated team to bring science education and agricultural literacy to k-12 classrooms. Brian brings a strong background in STEM education, teacher development, and instructional technology to the Foundation. Brian worked 14 years in public education as a STEM instructor, instructional technologist, teacher coach and educational consultant. As a department leader, he and his team developed a k-8 STEM curriculum and launched three learning labs where students could apply STEM skills to solve real-world problems. His drive to bring more hands-on experiences for students did not stop there as he led efforts for his district to design and build makerspaces for all k-12 students. In his 14 years as an educator, Brian has coached and mentored countless teachers; always with a focus on improving classroom experiences through hands-on learning.



Ryan Bennett

Executive Director

***US Roundtable for Sustainable Poultry & Eggs,
International Poultry Welfare Alliance***

In an effort to address and advance animal welfare and sustainability related issues, Bennett serves as the executive director for both the US Roundtable for Sustainable Poultry & Eggs (US-RSPE) and the International Poultry Welfare Alliance (IPWA).

Bennett formerly served as the senior director of industry and environmental affairs at the National Milk Producers Federation (NMPF) where he managed the National Dairy Farmer’s Assuring Responsible Management (FARM) Program. Before working on the FARM Program, Bennett led the NMPF’s government relations portfolio pertaining to environment, conservation and renewable energy. Bennett also worked at the National Grain and Feed Association where he managed issues related to conservation and transportation in the grain trading industry.



Fabian Bernal

M.S, PAS

Global Head of Sustainability
DeLaval Group

Fabian is a native of Bogota, D.C., Colombia, a farmer, professional dairy consultant and sustainability expert that attended the University of La Salle. He graduated from Western Kentucky University (WKU) with a major in Agri-Business and Ag-Economics. He also graduated with a Master’s degree in animal science (large animal nutrition) from WKU. Furthermore, he holds a certificate from the University of Cambridge, Judge Business School, in Circular Economy and Sustainability Strategies. His special interests are Dairy Sustainability, Animal welfare, Livestock Management, Dairy Nutrition, Physiology of Lactation, and Ag Business Management.

With more than 20 years of experience in the industry as a dairy consultant, Fabian also serves on the board of directors at the National Institute of Animal agriculture and is also the co-chair of the sustainability council. He also participates on multiple committees, including the Association of Equipment Manufacturers, AEM’s sustainability group, SIA regenerative agriculture group, and much more.

Sustainability is a vital part of DeLaval’s business strategy, and in this role, Fabian helps ensure that DeLaval is at the forefront and delivering upon our vision by supporting Group Management as well as working in close cooperation with all parts of the DeLaval organization.



Amar Bhat

PhD

Chief Operating Officer
Reagan-Udall Foundation

Amar Bhat, PhD, is the Chief Operating Officer of the Reagan-Udall Foundation for the FDA, a non-profit organization created by Congress to advance the mission of the U.S. Food and Drug Administration. In this role, he works closely with the CEO to provide strategic direction, leadership, and oversight for the Foundation's programs and initiatives intended to foster advances in regulatory science and help FDA modernize product development and accelerate innovation.

Dr. Bhat started his career as a Presidential Management Intern at the U.S. National Institutes of Health (NIH) in 1990, eventually rising to become Acting Director for the Division of International Relations within NIH's Fogarty International Center from 1999 to 2001. Afterwards, he was recruited to be the first Director of the Office of Asia and the Pacific within the Office of Global Affairs in the Office of the Secretary of the U.S. Department of Health and Human Services (HHS), managing for over six years a cadre of senior health professionals based in Washington, D.C., and in U.S. Embassies across Asia. While at NIH and HHS, Dr. Bhat negotiated dozens of bilateral agreements and developed an in-depth knowledge of the health systems around the world. He worked closely with FDA, CDC, and other U.S. Government agencies on a number of high-profile activities such as the Global Fund and PEPFAR, as well as the U.S. Government's response to various epidemics and natural disasters. Through these various roles, Dr. Bhat also developed a keen understanding of the role of regulatory science and the development of experimental therapies into commercial products.

Dr. Bhat has a doctoral degree in Public Policy from The George Washington University where his research focused on developing methods for measuring the economic impacts of biomedical research. Dr. Bhat also received a master's degree in Public Policy and a bachelor's degree in Chemistry from Duke University.



Christi Calhoun

PhD

Head, Food Chain Relations
Zoetis

Christi Calhoun is Head of Food Chain Relations for Zoetis. In this role, she interacts in all sectors of the food chain, from livestock producers, to packers, processors, grocery retailers, food service, and affiliated organizations. She serves as a resource to address animal health questions and guides dialogue on technical and social issues related to livestock health, production and sustainability. By drawing upon attributes of products, practices, and programs used in animal agriculture, combined with experiences in food research and development, she provides insights to develop strategy and inform policy and decision making for Zoetis business teams and external stakeholders.

Prior to joining Zoetis in 2011, Christi spent her career in research and development of cereal, ice cream and value-added meats. She earned a B.S in Food Science, and her M.S and Ph.D. in Meat Science, all from the University of Nebraska-Lincoln and currently resides in Northwest Iowa.



Rachel Cumberbatch

DVM

Director of International and Regulatory Affairs
Animal Health Institute

Dr. Rachel Cumberbatch is the Director of International and Regulatory Affairs at the Animal Health Institute (AHI), a nonprofit trade association representing manufacturers of animal health products. In this capacity, Dr. Cumberbatch facilitates conversations between US regulators and industry on important topics, including antimicrobial resistance (AMR). Her work also includes representing industry in activities underway through international organizations, such as the Codex Alimentarius and Task Force on Antimicrobial Resistance. She was appointed as an advisor to the USDA

Agriculture Technical Advisory Committee for Trade in Animals and Animal Products in January 2021.

Dr. Cumberbatch’s experience includes clinical veterinary practice and serving as a science fellow at the US Environmental Protection Agency and the US Senate. Dr. Cumberbatch earned her Doctor of Veterinary Medicine (DVM) and Bachelor of Science in Animal Sciences from Purdue University.



Jason Folster

PhD

NARST Applied Research Unit Lead

The Centers for Disease Control and Prevention

Dr. Jason Folster is a molecular microbiologist, and his work involves the identification and characterization of molecular mechanisms of antimicrobial resistance. Jason holds a B.A. in biology and a Ph.D. in microbiology and immunology from the State University of New York at Buffalo. Jason has been at CDC since 2007 and currently serves as Advisor to the Office of the Branch Chief in the Enteric Diseases Laboratory Branch, and leads the Applied Research Unit in the National Antimicrobial Resistance Surveillance Team (NARST) for the National Antimicrobial Resistance Monitoring System (NARMS).



Heather Fowler

DVM, MPH, PhD, DACVPM

Director of Producer and Public Health

National Pork Board

Dr. Fowler completed her Veterinary Medical degree at the University of Pennsylvania School of Veterinary Medicine in 2010, a master’s in Public Health in Applied Biostatistics and Epidemiology at the Yale School of Public Health in 2011, and a PhD in Environmental and Occupational Hygiene from the University of Washington School of Public Health in 2017. She is board certified in veterinary preventive medicine and has expertise in the areas of zoonotic disease, public

health, worker safety and health, and One Health application. In the summer of 2017, Heather began work as the Director of Producer and Public Health at the National Pork Board where she oversees public health as well as occupational safety and health issues as they relate to swine production in the United States.



Jon Hixson

VP Global Government Affairs and Sustainability
Yum! Brands

Jon leads Yum! Brands’ efforts on sustainability strategy, implementation, and investor-driven disclosure, as well as US and international government relations activities. Prior to assuming this role, he was an executive with Cargill for 12 years. Jon served in various roles in government relations, sustainability and communications including living and working in Asia Pacific, and leading Corporate Affairs in Latin America and Cargill’s government relations team for North America.

Jon began his career on Capitol Hill in 1994. He spent nine years working for Congressional Members in both the U.S. Senate and House of Representatives. Jon has a Bachelor of Science Degree from Kansas State University and a Master’s in Business Administration from George Washington University in Washington, DC.



Laurie Hueneke

Executive Director, Animal Health Public Policy & Government Relations
Merck Animal Health

Laurie grew up and worked on a farm in the Bellevue, Iowa area, which propelled her to earn a B.S. in Animal Science and International Agriculture from Iowa State University, along with a Master’s in International Agriculture Trade and Development from Oklahoma State University.

Laurie has dedicated her professional career to ensuring that food and agriculture policy is based on science-based standards which focus on food safety, food affordability, animal health, and public health.

Laurie has worked extensively on multiple free-trade agreements (FTA) to advance U.S. food and agricultural policy to ensure improved market access for U.S. pork and pork products: Trans-Pacific Partnership FTA, US-Colombia FTA, US-Korea FTA, Transatlantic Trade & Investment Partnership US-Europe FTA. She received the Overall Achievement Award from Iowa State University, College of Agriculture and Life Science, along with the Superior Achievement Award for Early to Mid-Career Alumni.



Joe Huffine

Chief Executor Officer
ProTriton

Joe Huffine was raised on a farm in Jonesboro, TN and attended UT-Knoxville to receive degrees in animal science and ag business. Joe has nearly 34 years' experience working in the Co-op system of Tennessee, managing two Co-ops in East and West TN.

Since working with Tennessee Farmers Cooperative, Joe has been the director of training, corporate marketing coordinator and member services manager. In 2013 he was named Division manager for the Feed, Farm, Home and Fleet division. In 2021, Huffine became the CEO of ProTriton Feeds, a joint venture company between Land O' Lakes Purina and Tennessee Farmers Co-op. ProTriton operates four fully automated vertical feed mills plus has a manufacturing agreement with two other mills for additional capacity. ProTriton also sells animal health to its independent and cooperative dealers sourced through Alliance Animal Care.



Kris Johansen

MBA, PhD

Associate Director of External Relations

**National Institute for Antimicrobial Resistance
Research (NIAMRRE)**

Dr. Kris Johansen, associate director of external relations at the National Institute for Antimicrobial Resistance Research and Education (NIAMRRE), is a microbiologist with expertise in bacterial pathogenesis and molecular biology. Kris leads NIAMRRE's external-facing efforts and serves as an AMR subject matter expert. She plays a key role in developing strong and sustained relationships with academic, professional, and industry stakeholders by leveraging her background in technology transfer, research commercialization, and startup company development. She holds a PhD in microbiology from the University of Missouri-Columbia and a master's in business administration from Iowa State University.



Terry W. Lehenbauer

DVM, MPVM, PhD, DACVPM-EPI

Professor and Director

**UC Davis Veterinary Medicine Teaching and
Research Center**

Dr. Terry Lehenbauer is Professor and Director of the UC Davis Veterinary Medicine Teaching and Research Center (VMTRC) in Tulare, California which is the dairy production medicine educational and research center for the UC Davis School of Veterinary Medicine. His area of clinical expertise is dairy cattle herd health and disease prevention with an emphasis on infectious disease epidemiology, animal welfare, and antimicrobial stewardship. Dr. Lehenbauer is a member of the Food Armor Foundation Board of Directors. Dr. Lehenbauer earned his veterinary degree from Oklahoma State University and his MPVM degree and PhD in Epidemiology from UC Davis. He is board-certified by the American College of Veterinary Preventive Medicine and the Epidemiology Specialty.

National Institute for Animal Agriculture



Edie Marshall

DVM, MPVM, DACVPM

Antimicrobial Use and Stewardship Branch Chief
California Department of Food and Agriculture

Dr. Edith (“Edie”) Marshall DVM, MPVM, DACVPM has worked and traveled around the world. Edie knew from a very young age that she wanted to be a veterinarian and volunteered with the AMIGOS de las Americas dog rabies vaccination project in Ecuador. It was there that she was struck by the realization that helping animals helps people. The recognition of this human/animal interface in the developing world impacted her very deeply and fueled her passionate pursuit of international veterinary medicine and One Health.

She went on to work with the Food & Agriculture Organization (FAO) of the United Nations in Indonesia, Thailand, and China, focusing on prevention and control of Highly Pathogenic Avian Influenza. Edie did a little more work for FAO on emergency preparedness in Laos and in Rome on rinderpest and influenza. She followed these experiences by spending 2 years working in Azerbaijan on an antibioterror project and with the Washington State U Paul G. Allen School for Global Animal Health. She currently serves as the Antimicrobial Use and Stewardship Branch Chief for the California Department of Food and Agriculture.



Amber McCoig

DVM, MPH

Senior Veterinary Medical Officer, Science Policy
FDA Center for Veterinary Medicine

Amber McCoig, DVM, MPH, is a Senior Veterinary Medical Officer, Science Policy, in the Office of the Director at US FDA Center for Veterinary Medicine (CVM). Dr. McCoig has been with the FDA for fifteen years beginning in the Center for Food Safety and Applied Nutrition (CFSAN). For the last decade, she has worked on veterinary public health policy issues for CVM with a focus on human food safety, drug residues, antimicrobial stewardship, and unapproved drugs. Dr.

McCoig has served in various capacities for CVM including the Deputy Director for CVM's Division of Compliance.

Before coming to the federal government, Dr. McCoig worked in clinical veterinary practice. She earned a Bachelor of Science and Doctor of Veterinary Medicine from the University of Missouri and a Master's in Public Health from Johns Hopkins University with a focus on Public Health Policy Communication.



Jason Menke

Director, Consumer Public Relations
National Pork Board

Jason Menke is the director of consumer public relations for the National Pork Board. In this role, he is responsible for crisis communication, issues management and consumer-facing media relations strategies.

A city boy (one or two generations removed from the farm), Menke joined the National Pork Board staff in November 2017. His 28-year career has focused on media relations, crisis communication and reputation management in a variety of industries, including financial services, higher education, health care and consumer media marketing.

A native Iowan, Menke resides in Urbandale, Iowa, where he currently serves on his community school board. He graduated from Drake University in Des Moines, Iowa, in 1994 with a bachelor's degree in journalism and communications.



Steven Moeller

PhD

National Program Leader
USDA-ARS

Dr. Moeller serves as the National Program Leader for USDA ARS National Program 101 – Food Animal Production. In this role he works with scientists, research leaders, and USDA Area Office

personnel in 14 locations across the U.S. to guide research efforts in beef and dairy cattle, sheep, and swine species. Prior to starting his role with USDA in September of 2021, Dr. Moeller was a Professor in the Department of Animal Sciences at Ohio State University, serving in a faculty role for 26 years. He served as the State Swine Extension Specialist, taught 4 to 5 undergraduate courses per academic year, and conducted research in genetics, meat quality, and production management throughout his tenure at Ohio State.



Kyung Moon

PhD

Program Officer

National Institutes of Health

Dr. Kyung Moon is a program officer at NIAID/NIH. She currently oversees the Antibiotic Resistance Leadership Group program and is involved with other federal Antimicrobial Resistance programs such as PAC CARB and the CARB Task Force. Prior to NIAID, Kyung was a program officer at NHLBI, launched a new initiative, COVID-19-Associated Coagulopathy, and oversaw various hematology programs including hemostasis/thrombosis. Before that, she worked as a premarket reviewer at the Center for Devices and Radiological Health at the FDA. She holds a PhD in Microbiology and an MS in Civil and Environmental Engineering from the University of Illinois at Urbana-Champaign. In particular, her PhD study under Abigail Salyers was about elucidating the regulation of antibiotic resistance genes including tetQ in *Bacteroides thetaiotaomicron*, which is a key player in gut microbiome homeostasis. She completed postdoctoral training under Susan Gottesman at the National Cancer Institute (NCI) where she discovered a novel small RNA that regulates the LPS modification in pathogenic enterobacteria. Afterwards, she joined the J. Craig Venter Institute (JCVI) to develop synthetic influenza vaccine seeds with John Glass and Nobel laureate Ham Smith. Throughout her research career, she worked on various pathogenic bacteria including *Bordetella* and *Burkholderia*. She is a member of the American Society for Microbiology and the American Society for Hematology.



Smiti Nepal

Environmental Engineer

Environmental Protection Agency

Smiti Nepal joined EPA's Office of Wastewater Management in 2016 with a focus on water reuse, nutrient removal and recovery technologies, wastewater-based surveillance for Covid-19, and emerging contaminants. Before EPA, Smiti worked with the Maryland Department of the Environment on solid waste landfill design review and permitting. She also worked with a consulting firm designing components of wastewater treatment plants. Smiti received her Bachelor of Science in Environmental Engineering degree and Master of Science in Systems and Ecological Engineering from the University of Florida. She also has her professional engineering license from the State of Maryland.



Eric Moore

DVM

Director of Technical Services – North America

Norbrook, Inc.

Dr. Eric Moore received his DVM from Kansas State University College of Veterinary Medicine in 1994. He is a second-generation veterinarian from south central Nebraska. He was in rural private practice in western and central Kansas specializing in cow/calf, stocker and feedlot. In October of 2004 he joined Kansas State University as a clinical instructor in agricultural practices. In 2006 he joined Schering-Plough animal health as a technical services manager. Eric is currently employed with Norbrook Inc as Director of Technical Services –North America. Eric is a member of AABP, AASV, AVMA and NIAA. He currently serves AVMA on the Animal Agriculture Liaison committee. For NIAA, he currently serves on as chairman of the board. Eric is a long-time member of AVC and has served as a former co-chair and member of the Cattle health and Well Being committee and member of the scholarship committee.



Megin Nichols

DVM, MPH, DACVPM

Enteric Zoonoses Activity Lead

The Centers for Disease Control and Prevention

Megin Nichols serves as the Enteric Zoonoses Activity Lead at the Centers for Disease Control and Prevention. In this role, she works on multistate outbreaks of Salmonella and E. coli resulting from exposure to animals and animal products. She received a bachelor's degree in animal science from New Mexico State University, a doctorate in veterinary medicine from Colorado State University and a master's in public health in Food Safety and Biosecurity from the University of Minnesota. Her areas of research interest include impact of the exotic pet trade on native species, zoonotic disease, food safety and biosecurity, public health law and pediatric vaccine-preventable diseases.



Tom Noffsinger

DVM

Consultant

Dr. Noffsinger was nurtured on a ranch in Eastern Colorado and earned his DVM from Colorado State University in 1973. He has more than 32 years of experience in beef cattle practice and is now an independent feedlot consultant specializing in facility design, stockmanship, and low-stress livestock handling.

Dr. Noffsinger is an owner/member of Production Animal Consultation, Pierson Precision Auscultation, and the Cattle Performance Enhancement Company. He was the recipient of the 2001 Consultant of the Year award from the Academy of Veterinary Consultants for his work at PAC.



Yolanda Payne

Education Contractor

American Farm Bureau Foundation for Agriculture

Yolanda Payne is a veteran educator with from a family whose agricultural background spans generations. Currently a Constellations fellow at Georgia Tech, she assists teachers with implementing advanced STEAM curriculum in schools. She infuses agricultural science into the offerings to encourage students to be stewards of Earth's resources. With over 20 years of education experience ranging from Pre-K to college, Yolanda hopes that her love of learning, curiosity, and adding adventure to everyday life are elements of the legacy she is building. A native of Prairie, Mississippi, Payne credits the time spent with her parents maintaining their farm efforts as the backbone of her work ethic. In her spare time, she loves creating fun memories on a budget with her two sons.



Paul Plummer

DVM, PhD, DACVIM (LAIM), DECSRHM

Executive Director

***National Institute of Antimicrobial Resistance
Research and Education (NIAMRRE)***

Dr. Plummer is the executive director of the National Institute of Antimicrobial Resistance Research and Education (NIAMRRE), housed at the Iowa State University Research Park. Dr. Plummer is also a professor and holds the Anderson Chair of Veterinary Sciences in the Departments of Veterinary Diagnostic and Production Animal Medicine and Veterinary Microbiology and Preventative Medicine at the Iowa State University College of Veterinary Medicine. Dr. Plummer's clinical specialty is internal medicine and infectious disease of ruminants.



Chelsey Shivley

DVM, PHD, DACAW

Antimicrobial Resistance Coordinator
USDA-APHIS

Dr. Shivley is currently the Antimicrobial Resistance Coordinator for USDA APHIS Veterinary Services. Prior to this, Dr. Shivley spent 3 years working on the National Animal Health Monitoring System team, focused on collecting data on antimicrobial use and resistance in animal agriculture. Dr. Shivley served as an AVMA/AAAS Congressional Science Fellow in 2016-2017, working on the U.S. Senate Committee on Agriculture, Nutrition, and Forestry. Originally from Michigan, Dr. Shivley completed her undergraduate and veterinary degrees at Michigan State University. She then completed her PhD in Animal Behavior and Welfare at Colorado State University with Dr. Temple Grandin. Dr. Shivley is also board certified in the American College of Animal Welfare.



Michael Uetz

Principal
Midan Marketing

Michael Uetz's passion for the meat industry started on his family's ranch in North Dakota and grew during his time working for the National Cattlemen's Beef Association. Determined to ensure the long-term viability of animal agriculture and to help farming and ranching families like his own achieve success, he co-founded Midan Marketing. He is responsible for establishing and maintaining the Midan vision and strategic direction and works with meat industry partners to effectively outline business strategies. Eternally curious about what drives consumer behavior, Michael enjoys overseeing the customer insights and research side of Midan. When he isn't meeting with agency partners, you can find him on a cattle drive in the North Dakota Badlands or riding a quarter horse on his Indiana farm and in cutting competitions.

THANK YOU Partners

PLATINUM



GOLD



SILVER



BRONZE



SUPPORTER



2023 ANNUAL INVESTMENT RECOGNITION

	PLATINUM \$15,000 & more	GOLD \$7,500 – \$14,999	SILVER \$5,000 - \$7,499	BRONZE \$2,500 – \$4,999	SUPPORTER \$1,250 – \$2,400
Premier recognition at all NIAA events	X				
Recognized as a sponsor of a Council or keynote presentation*	X	X			
Host NIAA Conversations & Cocktails or meal event**	X	X			
NIAA newsletter banner recognition	X	X			
Booth or tabletop display at events	X	X			
AnimalAgriculture.org banner recognition	X	X	X		
Inserts in attendee packets at NIAA events	Up to five (5) pieces of literature and a promotional item	Up to three (3) pieces of literature and a promotional item	Up to two (2) pieces of literature	One (1) piece of literature	
One-year NIAA membership	X	X	X	X	
Complimentary registrations: virtual and in-person events	12	10	8	4	2
Recognition in NIAA event programs	X	X	X	X	X
AnimalAgriculture.org listing	X	X	X	X	

*Identification of specific Council or keynote presentation determined with investor. Existing investors for a Council or keynote presentation at a specific NIAA event are given first right of refusal.

** Hosts of NIAA *Conversations & Cocktails* or meal events work with NIAA staff to establish topics of conversation and as the host, share information about their organization and welcome guests to the event

NIAA NATIONAL INSTITUTE FOR ANIMAL AGRICULTURE

OUR VISION

NIAA is the leading resource for the animal agriculture industry and provides value to all stakeholders involved in providing safe and healthy food for the world.

OUR MISSION

NIAA convenes animal agriculture experts and allies in collaborative settings to explore, discuss, learn, and develop knowledge that fosters interdisciplinary cooperation for the improvement and continuous progress of animal agriculture.

MEMBERS INCLUDE

Academia
Researchers
Extension specialists
Farmers & Ranchers
Allied industry leaders
State and national association leaders
Private practice and government veterinarians
State and national government regulatory personnel

MEMBERSHIP BENEFITS



SERVE ON
COMMITTEES AND
COUNCILS



LEADERSHIP
OPPORTUNITIES



VOTING
RIGHTS



PARADIGM
NEWSLETTER AND
WEBINAR SERIES



VIRTUAL
MEMBERSHIP
DIRECTORY



DISCOUNTS
ON MEETING
REGISTRATIONS

SAVE THE DATE

ANNUAL CONFERENCE

KANSAS CITY | APRIL 18-20, 2023