

NATIONAL INSTITUTE FOR
ANIMAL AGRICULTURE

2023



ANTIBIOTICS SYMPOSIUM

Thriving in a Changing Landscape

National Institute for
Animal Agriculture

ATLANTA, GA
NOVEMBER 7-9

WELCOME

Thank you for joining the National Institute for Animal Agriculture's 13th Annual Antibiotics Symposium. The 2023 Symposium, *Thriving in a Changing Landscape*, will connect leaders from animal, human, and environmental health organizations and the food system to provide an opportunity to collaborate on research, education, and communication endeavors.

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.



2023 PARTNERS

NIAA

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- USDA APHIS
- MERCK Animal Health

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- DATAMARS
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- Animal Health
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Supporter

- EMA

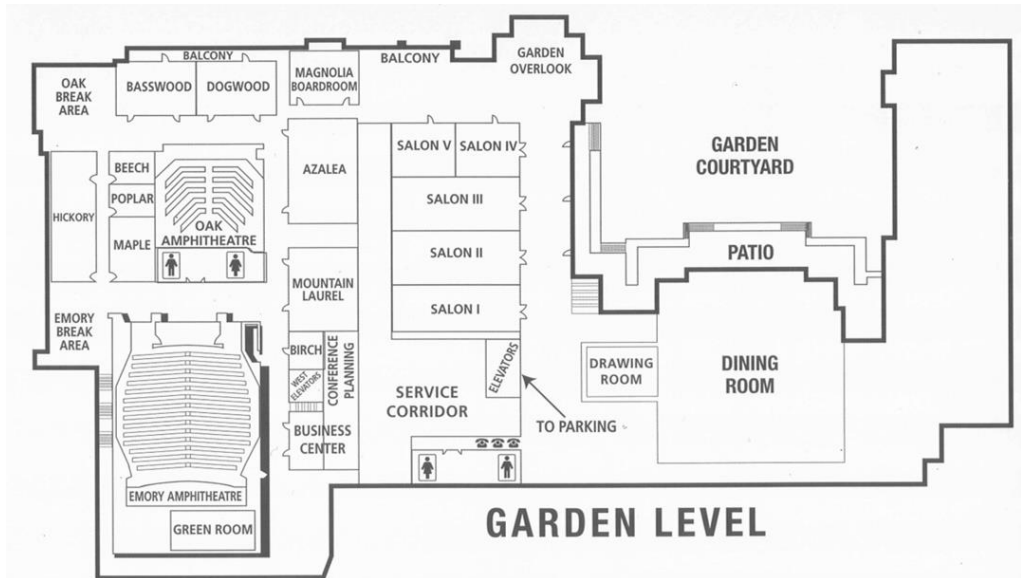
Silver

- Diamond V
- KENTUCKY PORK PRODUCERS
- ABSA
- Virbac
- CREEKSTONE FARMS
- pork
- KENTUCKY BEEF COUNCIL

PLANNING COMMITTEE

- Dr. Justin Welsh – Merck Animal Health
- Dr. Megin Nichols – The Centers for Disease Control & Prevention
- Dr. Chelsey Shivley – USDA, APHIS
- Dr. Michael Costin – American Veterinary Medical Association
- Dr. Heather Fowler – National Pork Board
- Dr. Paul Plummer – NIAMRRE
- Bradon Burks – Kentucky Beef Council
- Dr. Michelle Kromm – Food Forward
- Dr. Alexandra Medley - The Centers for Disease Control & Prevention
- Courtney Youngbar – Association of State & Territorial Health Officials
- Dr. Patrick McDermott – Food and Drug Administration
- Dr. Hayley Springer- Penn State University

HOTEL MAP



AGENDA

Tuesday, November 7

4:30 PM – 7 PM
[Emory Foyer]

Registration

5 PM – 6:30 PM
[Hickory]

Conversations & Collaborations

– Hosted by the Beef Checkoff

Wednesday, November 8

7:00 – 8:00 AM
[Emory Break Area]

Breakfast

8:00 – 8:15 AM
[Emory Amphitheatre]

Welcome and Introductions

NIAA Chair & Antibiotics Council Co-Chair

- Dr. Eric Moore – Norbrook, Inc.
- Dr. Megin Nichols – The Centers for Disease Control & Prevention
- Dr. Justin Welsh – Merck Animal Health

8:15 – 9:25 AM
[Emory Amphitheatre]

Opening Conversation

The current state of antibiotic stewardship from producer to processor to restaurant

- Dr. Chris Gambino - The Breakthrough Institute
- Ryan Goodman - Certified Angus Beef
- Dr. Ken Opengart - Tyson Foods
- Dr. Michelle Kromm (moderator) - Food Forward

9:25 – 10:35 AM

[Emory Amphitheatre]

Panel Discussion

The multi-dimensional aspects of antibiotic stewardship and AMR – animal welfare, human health, food security, veterinary-client relationships, and more

- Dr. Mike Murphy - American Veterinary Medical Association
- Collette Kaster - Professional Animal Auditor Certification Organization (PAACO)
- Dr. Terry Lehenbauer – University of California - Davis
- Dr. Jomana Musmar - Presidential Advisory Council on Combating Antibiotic-Resistant Bacteria (PACCARB)
- Dr. Chelsey Shivley (moderator) - USDA- APHIS

10:35 – 11:45 AM

[Emory Amphitheatre]

Panel Discussion

One Health lessons on antibiotic stewardship and AMR to celebrate and build upon

- Alex Rinkus – Health for Animals
- Dr. Dawn Sievert – Centers of Disease Control & Prevention
- Andy Bishop – Cattlemen’s Beef Board
- Moderator: Bradon Burks

11:45 AM – 1:30 PM

[Dining Room]

Networking Lunch

1:30 – 3:30 PM

[Emory Amphitheatre]

Afternoon Sessions – Agency Partner Updates

- Dr. Amber McCoig - Food & Drug Administration
- Dr. Alexandra Medley - Centers for Disease Control & Prevention
- Dr. Chelsey Shivley - USDA - APHIS
- Dr. Catherine Rockwell - USDA - FSIS
- Susan Jennings - Environmental Protection Agency
- Dr. Paul Plummer (moderator) - NIAMRRE

3:30 – 4:00 PM
[Emory Break Area]

Afternoon Break

4:00 – 5:00 PM
[Emory Amphitheatre]

Breakout Sessions

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.

[Azelea]

- **Communication**
– led by Certified Angus Beef

[Hickory]

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

[Basswood]

- **Education**
– led by Relevant Classroom, A Division of Vivayic

Thursday, November 3

7:00 – 8:00 AM
[Emory Break Area]

Breakfast

8:00 – 8:15 AM
[Emory Amphitheatre]

Welcome

Antibiotics Council Co-Chairs

- Dr. Megin Nichols – The Centers for Disease Control & Prevention
- Dr. Justin Welsh – Merck Animal Health

8:15 – 8:45 AM
[Emory Amphitheatre]

Opening Keynote

Public Health's focus for antibiotic stewardship and AMR

Karen Smith, MD, MPH

Founding Partner

Healthy Community Partners, Inc

8:45 – 9:45 AM

[Emory Amphitheatre]

Panel

Why is it important for a One Health conversation to continue?

- Dr. Benjamin O’Kelley - Blue Pearl Vet Hospitals
- Jim Lanier - HEB
- Dr. Paul Morley - Texas A&M |
- Dr. Alex Tasker – Bristol University
- Dr. Heather Fowler (moderator) - National Pork Board

9:45 – 10:00 AM

[Emory Break Area]

Morning Break

10:00 – 11:30 AM

[Emory Amphitheatre]

Panel Discussion

Antibiotic Stewardship, emerging fungal pathogens in livestock, and AMR on the Horizon ... what should we be watching/engaging in?

- Dr. Paul Plummer – NIAMRRE
- Dr. Cameron Bess - Biomedical Advanced Research & Development Authority (BARDA), HHS
- Dr. Patricia S. Gaunt - Mississippi State University CVM Fish Diagnostic Laboratory
- Dr. Tom Chiller - Centers for Disease Control & Prevention
- Dr. Alexandra Medley - Centers for Disease Control & Prevention (moderator)

11:30 AM – 12:15 PM

[Emory Amphitheatre]

Closing Fishbowl Conversation

How do we apply what we’ve just learned over the past day and one half?

- J.J. Jones (*facilitator*)
National Institute for Animal Agriculture

12:15 – 12:30 PM
[Emory Amphitheatre]

Wrap-Up and Closing Remarks
NIAA Chair

- Dr. Eric Moore – Norbrook, Inc.

1:00 PM
[Dining Room]

Lunch
– Hosted by Merck Animal Health

2:00 PM

NIAA Board of Directors Meeting
BOD and staff only

SPEAKER & MODERATOR BIOS

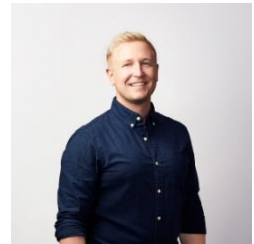
Listed Alphabetically

Brian Beierle

Science Education Practice Lead

Relevant Classroom, A Division of Vivayic

Brian serves as the Science Education Practice Lead for Vivayic. He works with a dedicated team to bring science education and agricultural literacy to k-12 classrooms through curriculum and professional development. He has led several national efforts aimed at supporting the science education field. Brian brings a strong background in STEM education, teacher development, and instructional technology to Vivayic. Prior to joining Vivayic, he worked for 14 years in public education as a STEM instructor, instructional technologist, teacher coach, and educational consultant. In his nearly two decades in education, Brian has coached and mentored countless teachers; always with a focus on improving classroom experiences through hands-on learning.



Cameron Bess

PhD

Project Officer, Antibacterials Branch

Biomedical Advanced Research and Development Authority (BARDA)



In his role as a Project Officer in the Antibacterials Branch, Dr. Bess manages the CARB-X Program; while also leveraging a whole of US Government approach that brings together the National Institutes of Health, the Department of Defense and the Food and Drug Administration in support of accelerate early stage R&D of critical antibacterial countermeasures. Dr. Bess manages BARDA's partnerships with other governments and Family Foundation funders focused on harmonizing and strategically co-develop a global antibacterials research portfolio. Prior to joining BARDA, Dr. Bess was a Senior Research Advisor in the U.S. Global Development Lab at the US Agency for International Development where he managed a large, international portfolio of scientific research activities along-side partner-governments and other international donors. Dr. Bess received his Ph.D. in Cellular *Biophysics* and Virology from The Rockefeller University and his B.S. in Molecular, Cellular and Developmental Biology from the University of California at Santa Cruz.

Andy Bishop

Owner

Fairfield Farm



Andy Bishop is Vice Chair for Cattlemen's Beef Board. He and his wife, Meagan, are raising their four children on their registered Angus seed stock operation in Kentucky. Bishop began his career teaching agriculture to students and eventually moved into the field of agriculture lending in 2007. Bishop is the former chair of the Kentucky Beef Council and the National Cattlemen's Beef Association (NCBA) Young Cattlemen's Conference. Bishop also served as a member of the Long Range

Planning Task Force and as president of the National Cattlemen's Beef Association (NCBA) Young Producers Council and the Kentucky Cattlemen's Young Producers group.

Bradon Burks

Director of Education

Kentucky Cattlemen's Association

Bradon Burks has been with KCA since December 2021. Prior to that, Bradon worked as a Leadership Consultant for a nonprofit and attended Western Kentucky University and majored in Agricultural Education and Sales.

Bradon's journey in agriculture started when he was growing up on his family's Angus and Hereford cattle operation in south central Kentucky.



Tom Chiller

MD, MPHTM

Chief, Mycotic Diseases Branch

The Centers for Disease Control and Prevention

Dr. Chiller received his bachelor's degree from Dartmouth College and his medical and public health degrees from Tulane University. He completed a residency in internal medicine at University of Texas, Southwestern and then worked for a year at UT Southwestern as an attending physician in HIV medicine. He completed a fellowship in infectious diseases and mycotics at Stanford University and then traveled to the Centers for Disease Control and Prevention (CDC) to train in infectious disease epidemiology as an Epidemic Intelligence Service (EIS) officer. He has been at CDC for 7 years and is currently deputy chief of the Mycotic Diseases Branch and Associate Director for Epidemiologic Science for the Division of Foodborne, Bacterial, and Mycotic Diseases. Dr Chiller is board certified in internal medicine and infectious diseases. He is an adjunct assistant professor in the division of infectious diseases at Emory School of Medicine and is also an adjunct faculty member at the Emory and



Tulane Schools of Public Health. He has authored numerous articles and book chapters.

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.



Chris Gambino

PhD

Senior Sustainable Livestock Analyst

Breakthrough Institute

Chris holds a PhD in Animal Sciences from Washington State University, where he was among a prestigious cohort of National Science Foundation IGERT fellows trained to communicate science to decision-makers. His dissertation focused on measuring methane and ammonia fluxes from intensively managed cattle feeding operations. He researches and writes about needs to enhance livestock sustainability. He's moderated and presented at events like the AIM for Climate Summit and American Society of Animal Science national



meeting. He promotes the use of emerging technologies like gene editing to improve animal health and increase productivity.

Patricia S. Gaunt

DVM, PhD, DABVT

Professor Emerita

Mississippi State University

CVM Fish Diagnostic Laboratory



Dr. Patricia Gaunt is a professor emerita of Aquatic Animal Health at the MSU CVM Fish Diagnostic Laboratory in Stoneville, MS where she worked for over 23 years. Her research was focused on fish health, toxicology, and pharmacology. She performed pivotal studies with Aquaflor® (the first VFD aquaculture drug approved by FDA). She currently serves on the Clinical and Laboratory Standards Institute Working Group on Aquatic Animals which sets guidelines to establish antimicrobial susceptibility patterns for aquatic bacterial pathogens. She is also a member of the AVMA's Aquatic Veterinary Medicine and Council on Antimicrobials Committees. During her career, she served as Co-Editor-in-Chief for the Journal of Aquatic Animal Health, as a member of the AVMA Council on Clinical Practitioners Advisory Committee (representing Aquaculture and Seafood Medicine), and as the lead instructor for Clinical Toxicology for MSU's second year veterinary students.

Ryan Goodman

Director Of Communications &

Community Engagement

Certified Angus Beef LLC



Understanding all parts of the beef community can be difficult. That's why Ryan Goodman works to bridge the gap between the ranchers who start it all and the end-users who enjoy every delicious bite. As the Certified Angus Beef director of communications

and community engagement, Ryan engages the brand's network of fans to grow its global presence. He helps make topics like cattle care and sustainability easier to discuss and understand.

Ryan's passion for beef advocacy began on his family's ranch in Arkansas. He studied animal science, specializing in reproduction and nutrition, at Oklahoma State and the University of Tennessee before experiencing every sector the industry has to offer. Ryan worked in beef production with family farmers and cow-calf, stocker and feeder operations, and as a freelance writer for agricultural publications. In 2023, he was recognized with NIAA's Agriculture Advocate award. Before joining Certified Angus Beef, Ryan served as director of grassroots advocacy and spokesperson development for the National Cattlemen's Beef Association.

Known as the Beef Runner, Ryan uses his love for 100-mile races to advocate for beef and ranching's role in sustainability. Ryan lives near Roanoke, Virginia and invites you to connect with him online as @BeefRunner.

Susan Jennings

Senior Advisor for Public Health

Environmental Protection Agency

Susan Jennings is the Senior Public Health Advisor for EPA's Office of Pesticide Programs. She works with external stakeholders, other federal, state and local government agencies and the regulated industry to support and maximize the benefits of pesticides used to protect human health. Susan leads the Office's efforts to assess and mitigate the impacts to human health from the use of antimicrobial pesticides used in agriculture. She also works on technical, regulatory, and communication aspects of pesticides used to control pests that vector disease or otherwise impact public health. Susan led EPA's efforts to address the bed bug situation, was the staff lead on the OPP's emergency response to Zika, actively supports IPM and other control discussions, and participates in other public health activities as they arise.

Collette Kaster

MS

Executive Director

Professional Animal Auditor Certification

Organization (PAACO)



Collette Kaster has a passion for improving animal agriculture along with showing people all the great opportunities it can offer. She loves to help people better understand how food is produced and the role of meat in the diet.

After 25 years of experience in the meat industry, leading large teams in the areas of technical services and livestock procurement, she currently serves as the CEO of the American Meat Science Association (AMSA) as well as the Executive Director for the Professional Animal Auditor Certification Organization (PAACO). She is an AMSA Fellow and has served on the Advisory Committee for Meat and Poultry Inspection, and currently serves on many association and company advisory committees in the areas of animal welfare, food safety, and meat quality.

Michelle Kromm

DVM, MPH, MAM, DIPLOMATE ACPV

Principal

Food Forward LLC



With over 15 years of experience developing partnerships within the business and research communities, regulatory agencies, and civil society organizations to drive improvements within the food system, Dr. Kromm is an expert on risk management and mitigation. She specializes in the areas of food safety, emergency management of disease outbreaks, and antimicrobial stewardship.

Dr. Kromm has served on over fifteen taskforces and/or committees addressing the topics of emergency disease preparedness, food safety and antimicrobial resistance including the Vice Chair of the National Institute for Antimicrobial Resistance Research and Education, Executive

Committee of the National Turkey Federation, Farm2Fork planning committee and the Board of Directors of American Association of Avian Pathologists.

Dr. Kromm is a board-certified poultry veterinarian who received concurrent Doctor of Veterinary Medicine from Iowa State University and Master of Public Health from the University of Iowa in 2006. In 2007, she completed her master's degree specializing in poultry medicine at the University of Georgia. After completion of graduate school, Dr. Kromm joined Jennie-O Turkey Store, a subsidiary of Hormel Foods, as a staff veterinarian. There she served in multiple leadership roles including being named Vice President of Animal Health and Welfare of Hormel Foods in 2019. In this role, Dr. Kromm was responsible for managing the company's animal health, welfare, and preharvest food safety programs.

Terry W. Lehenbauer

DVM, MPVM, PhD, DACVPM-EPI

Professor and Director

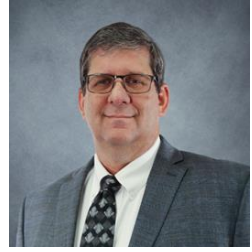
UC Davis Veterinary Medicine Teaching and Research Center



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.

Jim Lanier

Animal Welfare & Market Quality Assurance
HEB



Jim was born and raised in the Texas Panhandle, attended Texas A&M and graduated with a Bachelor of Animal Science in 1992. He worked in several beef plants before Supervising Beef Quality Assurance for Wendy's International.

He has been with H-E-B since 1997 and is responsible for managing H-E-B's Animal Welfare policies and auditing program, the Market Quality Assurance Program and develops programs for instore market regulatory compliance and partner safety.

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.

Alexandra Medley

DVM, MPH

Associate Director for Antimicrobial Resistance
Centers for Disease Control & Prevention



Dr. Medley is a veterinary epidemiologist currently serving as the Associate Director for Antimicrobial Resistance within the Division of Foodborne, Waterborne and Environmental Diseases at the Centers for Disease Control and Prevention. She received both her Master in Public Health and her Doctor of Veterinary Medicine from The Ohio State University and her Bachelor of Music from Oberlin College.

Paul Morely

DVM, PhD

Professor and Director of Research

**Texas A&M University - Veterinary Education,
Research & Outreach Program**



Dr. Paul Morley is an epidemiologist, animal scientist, and veterinary internal medicine specialist who studies infectious diseases affecting animals and people. Currently, his research uses advanced molecular tools to investigate the impacts of antimicrobial drug use in animals and people, health and disease pathogenesis in animals, methods for disease prevention and mitigation, and microbial ecology. The goal of these efforts is to conduct state-of-the-art, highly impactful research to improve sustainability of animal agriculture in order to provide an abundant and healthy food supply. Dr. Morley was joined Texas A&M University as Professor and Director of Research at the VERO Program in 2019. He was named the Sally Rau McIntosh Endowed Chair for Veterinary Strategic Initiatives at Texas A&M University in 2022. VERO - the Veterinary Education, Research & Outreach Program -- is an initiative of the Texas A&M University's School of Veterinary Medicine conducted in partnership with West Texas A&M University. Dr. Morley previously served for 20 years as Professor of Epidemiology at Colorado State University and the Colorado School of Public Health, and as the Director of Infection Control at the James L. Voss Veterinary Teaching Hospital. He is a recognized authority on infection control in animal populations

and has consulted on infection control and biosecurity issues at veterinary hospitals, veterinary colleges, and animal production facilities around the world.

Mike Murphy

DVM, PhD

Director of the Division of Animal and Public Health
American Veterinary Medical Association



Mike Murphy DVM, JD, PhD practiced in a mixed animal practice in Oklahoma after graduating from Texas A&M University (TAMU). He returned to TAMU for graduate work while working in the Texas Veterinary Medical Diagnostic Laboratory. He is a professor emeritus of the University of Minnesota, where he practiced in the veterinary diagnostic laboratory, taught veterinary and graduate students, and conducted diagnostic veterinary medicine and toxicology-oriented research for 22 years before joining the FDA. After 10 years with the Center for Veterinary Medicine at FDA, Mike now works at the AVMA as Director of the Division of Animal and Public Health.

Jomana Musmar

MS, PhD

Executive Director

**Presidential Advisory Council on Combating
Antibiotic Resistant Bacteria**



Dr. Jomana Musmar serves as the Designated Federal Officer and Executive Director of the Presidential Advisory Council on Combating Antibiotic Resistant Bacteria--a US federal advisory committee dedicated to addressing all issues related to Antimicrobial Resistance through a One Health approach. Dr. Musmar also serves as a Senior Public Health Advisor within the Office of Infectious Diseases and HIV/AIDS Policy, within the Office of the Assistant Secretary for Health, US Department of Health and Human

Services. She holds a Masters in Biomedical Science Policy and a Doctorate in Biodefense.

Ben O'Kelley

DVM, DACVECC

Regional Vice President of Medicine

BluePearl Pet Hospital



Dr. O'Kelley is a small animal critical care specialist with over 15 years of experience working as a veterinarian in emergency and specialty hospitals. He currently supports twenty such hospitals as Regional Vice President of Medicine for BluePearl's Mid-Atlantic region and serves as BluePearl's representative for the Mars Veterinary Health (MVH) Responsible Pharmaceutical Stewardship committee. Working in conjunction with leaders from other MVH businesses in the USA, Canada, and Europe, they develop and oversee MVH-wide antimicrobial stewardship efforts.

Dr. O'Kelley earned a BS in Biology from the University of North Carolina at Chapel Hill and DVM from North Carolina State University. Post-graduate training included a rotating small animal internship at Tufts University and a critical care residency at the Angell Animal Medical Center. Post-residency, he worked as a critical care doctor and medical director at two separate multispecialty hospitals. He then served as Chief Medical Officer for Pet Partners, a Mars Veterinary Health company with more than 85 hospitals, prior to joining BluePearl in my current role.

Ken Opengart

DVM, PhD, DACPV

VP, Animal Welfare & International Sustainability

Tyson Foods



Ken's personal mission has been to actively contribute to an agricultural system that provides safe and sustainable, high quality, affordable protein to millions of global consumers. As a veterinarian, this includes embracing the core tenets of the veterinary oath - protection of animal health and welfare, the prevention and relief of animal suffering, the conservation of animal resources, the promotion of public health and the advancement of medical knowledge. With a career spanning over 25 years, Ken has held a variety of roles including leading live operations, commodity risk management, poultry health and nutrition, animal welfare, pre-harvest food safety and sustainability for several global food companies. More recently, he has provided leadership and focus in the areas of animal welfare and sustainability in the food animal sector.

Ken has served as past president of the American College of Poultry Veterinarians, is a past-chair of the American Association of Avian Pathologists' Animal Welfare Committee, a founding board member and immediate past chair of the International Poultry Welfare Alliance, a founding board member of the US Roundtable for Sustainable Poultry and Eggs, and a past-chair of the Poultry and Egg Welfare and Sustainability Foundation. Ken received his B.S. from the University of Richmond, his master's degree in Poultry Science from Virginia Tech, his veterinary degree and Ph.D. from the Virginia-Maryland Regional College of Veterinary Medicine and is a Diplomate of the American College of Poultry Veterinarians.

Alex Rinkus

*Director of Communications &
Stakeholder Engagement*
Health for Animals



Alex Rinkus is Director of Communications and Stakeholder Engagement at HealthforAnimals, the global animal health association. HealthforAnimals represents developers and manufacturers of animal health products, including vaccines, diagnostics, parasiticides, antibiotics, digital technologies, and other tools that improve the health and well-being of animals. Members include the 10 largest global animal health companies as well as 28 regional and national Associations across the world. Alex joined HealthforAnimals in 2016 following positions in the agriculture, biotechnology and nanotechnology sectors. He is from the United States and holds a degree from American University in Washington, DC.

Catherine Rockwell

DVM, MPH, CPH, Dipl. ACVPM
Senior Public Health Advisor
USDA - FSIS



Dr. Rockwell is a Senior Public Health Advisor in the Office of Public Health Science at the USDA Food Safety and Inspection Service and a Commander in the United States Public Health Service Commissioned Corps. She has served in various food safety roles in FSIS over the past 18 years, including field operations, training, policy, and applied epidemiology and led multidisciplinary teams to address significant scientific issues. She has worked on various agency initiatives, including the U.S. National Residue Program, poultry slaughter modernization, and industry guidance development. As part of FSIS' National Antimicrobial Resistance and Monitoring System (NARMS) team, she applies a One Health approach and utilizes multi-disciplinary expertise to protect and improve public health.

Dr. Rockwell received her DVM from the University of Wisconsin School of Veterinary Medicine and a Master of Public Health degree from the University of Iowa. She is a diplomate of the American College of Veterinary Preventive Medicine.

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.

Dawn Sievert

PHD, MS

Senior Science Advisor

Centers for Disease Control & Prevention



Dr. Sievert is the Senior Science Advisor of the Antimicrobial Resistance Coordination and Strategy Unit in the National Center for Emerging and Zoonotic Infectious Diseases at the Centers for Disease Control and Prevention. Dr. Sievert leads strategic direction, coordination, and investments of CDC's cross-cutting scientific antimicrobial resistance (AR) activities and her work ensures that AR projects and collaborations across the agency are appropriate and consistent with CDC scientific vision and priorities. As part of this role, Dr. Sievert provides the scientific leadership for CDC's domestic AR Laboratory Network and Global AR Laboratory &

National Institute for Animal Agriculture

Response Network. She is also Lead of the CDC Collaborating Center within the WHO AMR Network and is a contributing member of the WHO STAG-AMR.

Dr. Sievert has over 20 years of experience working on AR. In her 13+ years at CDC, she previously served as the Associate Director for AR in CDC's Division of Foodborne, Waterborne, and Environmental Diseases and as the Deputy Chief of Surveillance Branch in CDC's Division of Healthcare Quality Promotion, where she provided scientific leadership for CDC's National Healthcare Safety Network. Prior to CDC, Dr. Sievert's work experience includes AR program lead at a U.S. state health department, laboratory researcher and quality improvement/infection control coordinator at two major U.S. healthcare systems, and chief scientist for a consulting company focused on new models of electronic automation and health information exchange in medicine and public health.

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.

Karen Smith

MD, MPH

Founding Partner

Healthy Community Partners, Inc



Karen Smith, MD, MPH, is a physician specializing in infectious disease and public health. She was appointed in 2015 by Governor Jerry Brown as the California State Public Health Officer and Director of the California Department of Public Health, a position she held through July of 2019. During her tenure at the State, Dr. Smith's work focused on cross sector, innovative approaches to community and population health improvement including the application of public health informatics and data interoperability to complex health issues such as the opioid epidemic. Dr. Smith has worked to develop local, state, and national policy directed at increasing health equity and improving the health and wellbeing of the public through the creation of healthy and resilient communities.

From 2004 to 2015 Dr. Smith served as public health officer and deputy director at the Napa County Health and Human Services Agency and as a member of the medical staff for infectious disease at Queen of the Valley Medical Center in Napa from 2012 to 2015. Prior to her work in Napa County, Dr. Smith served as Deputy Health Officer and Tuberculosis Control Office for Santa Clara County where she was also clinical faculty at the Santa Clara County Valley Medical Center Division of Infectious Diseases and at the Santa Clara County Tuberculosis Clinic.

Dr. Smith has been a faculty consultant for the Francis J. Curry International Tuberculosis Center at the University of California, San Francisco. She has also served as a subject matter expert on Public Health Emergency Preparedness and has been a liaison to the Centers for Disease Control and Prevention (CDC), the U.S. Department of Health and Human Services Office of the Assistant Secretary for Preparedness and Response, and for the Board of Scientific Counselors of the CDC Office of Public Health Preparedness and Response.

Dr. Smith is a founding partner of Healthy Community Partners, Inc, a consulting collaborative that integrates strategic design thinking with

innovative financial strategies to help communities create equity-building, sustainable health initiatives that empower their residents, adapt to their changing needs, and enable capital investment.

Dr. Smith completed her medical training and infectious diseases fellowship at Stanford University after earning a Master of Public Health degree at Johns Hopkins School of Hygiene and Public Health.


Alex Tasker


MRCVS, SFHEA, DPhil, MSc, BVetMed, BSc
Senior Lecturer

University of Bristol, Veterinary School

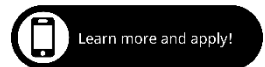


Alex is an interdisciplinary One Health expert researching health in conflict, criminality, and displacement. Alex works closely with governments and practitioners to co-create new One Health methods, networks, and projects.

 **ADVANCED TRAINING FOR ANIMAL AGRICULTURE LEADERS**



Nominate or apply to NIAA's third cohort of the Advanced Training for Animal Agriculture by **November 15, 2023**.



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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 <i>Conversations & Cocktails</i> 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