

**NDVMA Winter Professional Development Meeting
January 19, 2024
North Dakota Department of Environmental Quality
4201 Normandy Street Bismarck**

**8 – 8:30am Overview of Animal Disease (foreign vs endemic)
by Ethan Andress, DVM**

Review of the steps that occur when a disease is reported, diagnosed and how the response is determined based on the disease involved, either endemic or foreign animal disease.

**Ethan Andress, DVM
North Dakota State Veterinarian
North Dakota Department of Agriculture**

Dr. Andress was appointed as State Veterinarian in June of 2021 by Agriculture Commissioner Doug Goehring. His responsibilities are to carry out the rules and orders of the State Board of Animal Health and to act as Animal Health Division Director for the Department of Agriculture. Ethan is a 1997 graduate of Iowa State University College of Veterinary Medicine and has a Bachelor of Science in Biology from South Dakota State University, which he achieved in 1994. Prior to the appointment as North Dakota State Veterinarian, Ethan was an owner/partner of West River Veterinary Clinic, PC in Hettinger, ND for 21 years. At the practice, he served as the managing partner and focused on bovine and bison medicine.

Ethan and his wife Denise raised two children, Alec and Cassie, in Hettinger. Despite building and owning the busy veterinary clinic, Ethan strived to be an active and present support system for his family. When not on call for the clinic, he could be found watching his kids' sports or taking his family camping. With both kids grown, Ethan and Denise moved to Mandan with their dog and cat, Rickie and T. On his off days, Ethan can be found on a lake fishing and spending time with family and friends.

Dr. Andress has a passion for rural veterinary medicine and animal agriculture production. He continues to be active in supporting producers and veterinarians both through his job and activities outside of work, including the West River Veterinary Clinic Legacy Foundation. He served the South Dakota Veterinary Medical Association on various committees, as district representative, and member of the board of directors for several years including as President in 2019-2020. Ethan also previously served as the president of the Hettinger Chamber of Commerce board. He was recognized as Hettinger Area Business Person of the Year in 2014.

As State Veterinarian, Ethan has been trained as a Foreign Animal Disease Diagnostician at Plum Island and had multiple trainings related to foreign animal disease response.

**8:30 – 9:30am Overview of US SHIP (Swine Health Improvement Plan)
and Implications for ND Swine
by Marguerite Tan and Stephanie Wisdom**

US SHIP is a USDA Veterinary Services and National Pork Board sponsored pilot project being pursued with support of state and industry partners. The principal objectives are to develop and implement an African Swine Fever (ASF)-Classical Swine Fever (CSF) Monitored Certification Program modelled after the National Poultry Improvement Plan (NPIP). AgView is a free, opt-in technology solution from the National Pork Board that helps producers of all sizes participate in the US SHIP Pilot and helps States certify compliance. This talk will help you learn how US SHIP fits into the overall response to a foreign animal disease outbreak and the tools that exist to support emergency preparedness in the US pork industry.

**Marguerite Tan
Director, Environmental Programs
National Pork Board**

Marguerite is the Director of Environmental Programs at the National Pork Board, based remotely in Snowflake, Arizona. Marguerite’s responsibilities include research and development of environmental programs and foreign animal disease response for pork production in the areas of air and water, soil, manure and mortality management, conservation, catastrophic events, carbon life cycle analysis, and environmental sustainability. Marguerite is the lead SME for the National Pork Board’s fully functional emergency preparedness exercises and swine producer carcass management trainings.

Prior to working for National Pork Board, Marguerite worked as a senior environmental staff engineer for Hormel Foods managing environmental, regulatory, and sustainability programs for corporate-owned farm operations, feed mills, supply chain farms, and food processing facilities. Marguerite served two appointments on the USDA Ag Air Quality Task Force and has extensive experience developing air improvement programs for agriculture in non-attainment areas. Marguerite grew up in the Midwest on a grain farm and was a Top 10 recipient of the American Farm Bureau’s National Excellence in Agriculture Award. Marguerite is actively involved in both trade and professional organizations. Some of the positions she has held include President of the American Society of Agricultural and Biological Engineer’s Arizona Section, President of the Arizona Pork Producers Association, and the Arizona Farm Bureau’s State Board of Directors.

**Stephanie Wisdom
Director, Animal Welfare
National Pork Board**

Stephanie Wisdom is the director of animal welfare for the National Pork Board, headquartered in Clive, IA. In this role, she assists in the implementation of animal welfare and welfare-related programs and research. Her essential job functions include overseeing animal care content for NPB’s training and certification programs, managing Checkoff-funded animal welfare research,

development and delivery of animal welfare and sustainability educational materials, and supports facilitation of foreign animal disease preparedness projects across the industry. Wisdom also facilitates the implementation of the industry-led Common Swine Industry Audit (CSIA) while serving as the primary NPB staff member on the CSIA Task Force. In addition, Wisdom assists in the development and delivery of sustainability and animal welfare educational material for industry and supply chain professionals.

Prior to her role at National Pork Board, Wisdom led teams of on-farm animal care auditors, designed and supervised on-farm swine research, and managed finishing production in Iowa and Illinois.

Originally from Sikeston, Missouri, Wisdom currently resides in Lake City, Iowa.

Updated October, 2023

[Headshot](#)

**9:30 – 10:30am Update on Foot and Mouth Disease Response
by Kate Kilzer, DVM, MPH, DACVPM, Veterinary Medical
Officer (Epidemiology)**

This session will provide an update on the FMD situation globally and current efforts for preventing disease incursion into the United States.

**Kate Kilzer, DVM, MPH, DACVPM, Veterinary Medical Officer (Epidemiology)
Emergency Coordinator ND/SD, USDA**

EDUCATION:

Diplomate, American College of Veterinary Preventive Medicine, 2019
M.P.H., Public Health, 2019, University of Iowa, Iowa City, Iowa
D.V.M., Veterinary Medicine, 2013, Washington State University, Pullman, WA
B.S., Biotechnology, 2009, Montana State University, Bozeman, MT

Dr. Kilzer is the APHIS Veterinary Services Emergency Coordinator for North and South Dakota. Her roles include assisting State veterinarians with foreign animal disease incursion and disaster preparedness planning and response in addition to educating the public, industry, and other stakeholders on One Health issues and how to prevent and prepare for potential veterinary-related emergency situations. Dr. Kilzer is also a Foreign Animal Disease Diagnostician and plays an active role in field and epidemiological investigations with the agency.

Dr. Kilzer has been with APHIS since July 2019. Prior to Federal service, she was a private practitioner in Montana for six years. Outside of work, Dr. Kilzer enjoys the culinary arts, gardening, traveling, volunteering, and hanging out with her energetic terrier, Ike.

10:45 – 11:15am Foreign Animal Disease Response from a Field and State Perspective
By Todd Tedrow, DVM

This session will explore the mitigation activities involved when highly pathogenic avian influenza (the bird flu) is detected on a commercial turkey operation.

Todd Tedrow, DVM
Director of Veterinary Services, Dakota Provisions, LLC

Todd Tedrow is the new director of veterinary services for Dakota Provisions. He will be working with the growers on flock health and welfare, and with the plant on animal welfare and communications with the growers. He was previously employed with the South Dakota Animal Industry Board (SD AIB) as the director of animal health for 14 years. Prior to his employment with the SD AIB he worked in private practice as a mixed animal practitioner focusing mainly on livestock. He received his Doctorate of Veterinary Medicine from Iowa State University College of Veterinary Medicine in 2002. Todd lives near Fort Pierre, SD with his wife Lynn, daughter Breanna (15yrs), and several family pets. His oldest daughter Sydney (18yrs) is a freshman at SDSU. His hobbies include anything outdoors, mainly fishing and hunting, coaching, and spending time with his family. He is excited for the opportunity to be part of the Dakota Provisions team.

11:15 – 11:45am Biosecurity/Continuity of Business Planning
By Todd Tedrow, DVM

This session will look at what producers and their veterinarians can do to ensure continuity of business during an outbreak of a foreign animal disease.

Todd Tedrow, DVM (bio is included above)
Director of Veterinary Services, Dakota Provisions, LLC

11:45am – 12:30pm Personal Protective Equipment and Decontamination
By Heidi Pecoraro, DVM, PhD, DACVP

Learn to don and doff PPE for animal disease investigations. Appropriate decontamination methods for various pathogens will also be discussed.

Heidi Pecoraro, DVM, PhD, DACVP
NDSU Veterinary Diagnostic Laboratory and Level 3 Staff

ACADEMIC APPOINTMENTS

2022-Present **Director**, Veterinary Diagnostic Laboratory, North Dakota State University, Fargo, ND
2018-Present **Veterinary Anatomic Pathologist and Serology, Virology, & Clinical Pathology Section Head**, Veterinary Diagnostic Laboratory, NDSU, Fargo, ND
2016-2018 **Postdoctoral Researcher-Veterinarian**, Oregon Health & Science University, Oregon National Primate Research Center, Pathology Services Unit, Portland, OR
2014-2016 **Veterinary Resident**, Cornell University, Animal Health Diagnostic Center, Ithaca, NY
2007-2013 **Graduate Research Assistant**, Colorado State University, Departments of Microbiology, Immunology, and Pathology and Clinical Sciences, Fort Collins, CO
2003-2007 **Assistant to the Dean**, University of Washington School of Medicine, Office for Research and Graduate Education, Seattle, WA
2000-2007 **Program Manager**, UW School of Medicine, Department of Medicine/Division of Allergy and Infectious Diseases, Seattle, WA

SPECIALTY BOARD CERTIFICATION AND LICENSURE

2018 Board certification, American College of Veterinary Pathologists (Anatomic)
2018 North Dakota Veterinary Medical License #1518
2013 North American Veterinary License Examination, National Board Vet Med Examiners

EDUCATION AND TRAINING

2016-2018 **Postdoctoral Researcher-Veterinarian (Fellow)**, Oregon National Primate Research Center, Oregon Health & Science University; Portland, OR
2014-2016 **Veterinary Resident, Anatomic Pathology**, Cornell University; Ithaca, NY
2008-2014 **Doctor of Veterinary Medicine**, Colorado State University; Fort Collins, CO
2007-2012 **Doctor of Philosophy, Pathology**, Colorado State University; Fort Collins, CO
2001-2006 **Bachelors of Science, Wildlife Science**, University of Washington; Seattle, WA
1996-1998 **Bachelors of Arts, Humanities and English (Classical Studies minor)**, University of Washington; Seattle, WA

PROFESSIONAL and SCIENTIFIC ORGANIZATIONS and SOCIETIES

2021- American Association of Veterinary Laboratory Diagnosticians
2018- American College of Veterinary Pathologists
2018- North Dakota Veterinary Medical Association
2010- American Society for Virology

MAJOR COMMITTEE ASSIGNMENTS

2022- National Animal Health Laboratory Network (NAHLN) Coordinating Council, APHIS/VS and NIFA (NAHLN level II lab representative)

2022- NCAC2: Animal Health Advisory Committee, Multistate Research Coordinating Committee and Information Exchange Group, NIMSS (NDSU representative)

2021- Strategic Planning Committee, Agricultural Affairs, North Dakota State University (VDL representative)

2019- Institutional Animal Care and Use Committee, North Dakota State University

1 – 1:30pm **Incident Command/Roles and Expectations**
Marty Haroldson, Program Manager, Division of Water Quality, NDDEQ and Kent Theurer, Emergency Management Specialist, ND Department of Agriculture

Overview of the incident command structure and how it is implemented in response to different types of animal disease. Including the expectations of individuals involved in response at different levels from community to state and/or federal.

Marty Haroldson
Program Manager, Division of Water Quality
NDDEQ

Marty Haroldson started his career with Minnesota Valley Testing Laboratories (MVTL) located in Bismarck, ND in 1998. In 2001 he was hired by the North Dakota Department of Health, now the Department of Environmental Quality, within the Permits Program. He became manager of the Permits program in 2014. His education is from North Dakota State University where he attended from 1995-1998 and received his degree in Fisheries and Wildlife Management (with a minor in Biology).

Kent Theurer
Emergency Management Specialist
ND Department of Agriculture

Kent is a North Dakota Native and has been serving as an Emergency Management Specialist for 15 years. Kent started at Jamestown Hospital and for the last eight years for the Agriculture Commissioner as the Emergency Management Coordinator for the North Dakota Department of Agriculture. This position covers planning, preparedness, mitigation, response and recovery supporting Commissioner Goehring and department experts in Animal Health, Pesticide & Fertilizer and other areas in the department. Kent was one of the first graduates of NDSU's Emergency Management Bachelors Program, and also holds a Master's degree in Emergency Management. Kent lives in Bismarck with his wife (and high school sweetheart) Cassie, and his amazing daughter Miriam.

1:30 – 2pm **Humane Endings versus Depopulation**
By Kate Kilzer, DVM, MPH, DACVPM

Discuss the differences between euthanasia and depopulation as it relates to disease response and review the AVMA guidelines for the depopulation of animals.

**Kate Kilzer, DVM, MPH, DACVPM, Veterinary Medical Officer (Epidemiology)
Emergency Coordinator ND/SD, USDA
(Refer to Bio on Page 3)**

**2 – 2:30pm Carcass Disposal Methods
By Mary Keena, Extension Specialist II**

This session will include discussion on proper site selection and disposal method decisions for animal diseases.

Name and Title	Mary Keena, Extension Specialist II
Organization	North Dakota State University
Role in this Project	Co-PI
Qualifications and Relevant Experience	<p>EDUCATION: B.S., Animal Science, 2010, North Dakota State University, Fargo, ND M.S., Animal Sciences, 2012, University of Wisconsin-Madison, Madison, WI</p> <p>EMPLOYMENT HISTORY: 2022 – Present Extension Specialist II/Livestock Environmental Management, Carrington Research Extension Center, Carrington, ND 2012 – 2022 Extension Specialist I/ Livestock Environmental Management, Carrington Research Extension Center, Carrington, ND</p> <p>RELEVANT EXPERIENCE:</p> <ul style="list-style-type: none"> • Presentations Delivered 131 Extension presentations to farmers, ranchers, students and other stakeholders and 19 invited and professional presentations reaching just over 6,000 individuals. • Articles/Interviews Contributor to news features including 25 popular press articles, 35 blog posts and 45 media interviews for print, podcasts, tv and radio. • Events Organized 14 in-service trainings for Extension professionals and service providers and 24 Extensions demonstrations and tours for farmers, ranchers and other stakeholders • Publications <i>Principal author:</i> 3 Extension curriculums, 12 refereed Extension circulars, 9 professional reports. <i>Co-author:</i> 2 Extension curriculums, 6 refereed Extension circulars, 3 professional reports • Grants and Research Professional activities have led to the funding of 9 grants/contracts with NDSU with more than \$800,000 used to conduct demonstrations, in-services and develop educational programs • FAD Disposal Response, HPAI 2022 Coordinated, assisted with, monitored and reported the carcass disposal efforts for commercial flocks in coordination with the North Dakota Department of Agriculture, Animal Health

2:30 – 3pm Review and Feedback for Emergency Response Preparedness for Foreign Animal Diseases (FAD) and Mass Livestock Mortalities Program
By Miranda Meehan, Ph.D.

This session will provide a recap of the goals of our upcoming trainings and allow time for attendees to provide feedback on materials presented. This feedback will be used by the team to improve the materials ahead of the trainings.

Miranda Meehan, Ph.D.

Extension Livestock Environmental Stewardship Specialist and Disaster Education Coordinator

Miranda is an Associate Professor in the Animal Science Department, the Extension Livestock Environmental Stewardship Specialist and the Extension Disaster Education Coordinator at North Dakota State University. The focus of her research and extension program is livestock and environmental interactions; including integrated crop livestock systems, grazing management, riparian ecology, brine spill remediation and reclamation.

Social Media

Twitter: @NDSU_eX_Steward

Facebook: @livestocksteward

Degrees Attained:

- B.S. Animal & Range Sciences, North Dakota State University, 2005
 - M.S. Animal & Range Sciences, North Dakota State University, 2008
 - Ph.D. Natural Resource Management, North Dakota State University, 2012
-

3:00 – 4pm Tour Bismarck/Burleigh Emergency Operations Center
By Kent Theurer, Emergency Management Specialist, ND Dept. of Agriculture

4 - 5pm Tour State of ND Emergency Operations Center/State Radio
By Kent Theurer, Emergency Management Specialist, ND Dept. of Agriculture

Kent Theurer
Emergency Management Specialist
ND Department of Agriculture (refer to bio on page 6)