

NDSU Veterinary Diagnostic Laboratory

Continuing Education Seminar



NDVMA Co-sponsored – 7 CE Credits

June 10
2022

The NDSU Veterinary Diagnostic Laboratory (NDSU-VDL) Seminar is a day-long continuing education event hosted by NDSU VDL faculty and staff. Its purpose is to provide current information on a variety of pertinent topics. **The seminar will provide up to 7 hours of continuing education for DVMs and Veterinary Technicians approved by NDBVME and Co-sponsored by NDVMA.** The CE meeting is in-person, virtual or recorded.

In Person- NDSU / Memorial Union / Hidatsa Room / 1401 Administration Ave. Fargo, ND

- In Person, included proceedings, refreshments, and lunch
- A map and parking permit will be provided and sent before the meeting
- Masks are encouraged, but not required

Virtual – will be provided via Zoom or with a recording available after the meeting

- Proceedings will be available for download prior to the meeting
- Instructions will be given during the seminar on how to receive CE credits for the meeting if taking virtually.

The cost is \$100 per person. Session starts at 8:15 a.m. and ends at 4:30 p.m. Afternoon session speakers will conference in via zoom (Dr. Barrell and Dr. Williams)
Registration will close on June 6, 2022. Register by filling out Registration form and sending a check to NDSU VDL.

Schedule for Friday June 10, 2022

8:00-8:15 a.m.	Registration	
8:15 -9:15 a.m.	Bison Nutrition.....	Dr. Ashworth
9:15-10:15 a.m.	Bovine Nutrition.....	Dr. Branine
10:15-10:30 a.m.	Break and refreshments	
10:30-11:30 a.m.	Bison Mineral Nutrition and Cattle Mineral Nutrition..... (Please bring nutrition cases of concern and ration ingredient questions)	Dr. Ashworth & Dr. Branine
11:30-12:30 p.m.	Bison Herd Health	Dr. Bragg
12:30-1:15 p.m.	Lunch – provided	
1:15-2:15 p.m.	Small Ruminant Husbandry.....	Dr. Barrell
2:15-3:15 p.m.	Small Ruminant Abortions and Neonatal Loss	Dr. Barrell
3:15-3:30 p.m.	Break and Refreshments	
3:30-4:30 p.m.	Ruminant Parasites in Practice.....	Dr. Williams

NDSU Veterinary Diagnostic Laboratory Continuing Education Seminar

June 10
2022



NDVMA Co-sponsored – 7 CE Credits

Speakers

Dr. Chris Ashworth, DVM



Dr. Chris Ashworth is a Global Research and Development Veterinarian for Zinpro Performance Minerals, based in Eden Prairie, MN. Dr. Ashworth is a 1987 graduate of Louisiana State University School of Veterinary Medicine. Prior to obtaining his degree he was a dairy science major at LSU.

After veterinary school he completed a one-year large animal internship and then completed a three-year food animal medicine and surgery residency with an emphasis in internal medicine and infectious disease, all at the U. of Illinois at Urbana-Champaign. Following his residency, he was an assistant professor for 2.5 years at the U of I, before joining Purina Mills Inc. at their research facility outside St. Louis, MO. Dr. Ashworth was the national dairy and beef technical veterinarian for 6 years with Purina Mills, being responsible for the bovine portion of their diagnostic laboratory and traveling the nation on herd investigations for the company.

In 1999 he joined Monsanto Dairy Business supporting Posilac- or rBST for dairy cattle. In 2009 Monsanto sold the business to Elanco Animal Health and Dr. Ashworth worked for Elanco for 9 years until joining Zinpro Performance Minerals in 2017. He is both in research and customer technical services working with the largest feedlot organizations and dairy organizations globally.

Dr. Ashworth has had an interest in veterinary toxicology of food animals for over 35 years. Today he is Co-Chair if the AAVLD and USAHA Committee on Toxicology, Nutrition and Environment.

Dr. Ashworth lives in Greenwood, AR and also owns a 200 head Registered Black Angus seed stock operation. Today Chris is responsible for research and development studies across a number of species from horses to cattle to companion animals for Zinpro Performance Minerals.

Dr. Mark Branine, BS, MS, PhD



Dr. Branine has worked for the past forty years in both academic and allied industry positions that have involved research and technical support in the areas of beef cattle nutrition, health and management. Specifically, this has involved positions working with major pharmaceutical companies that have included SmithKline Beecham Animal Health, Roche Animal Nutrition and Health, Alpharma Animal Health and Pfizer Animal Health in the areas of clinical development, applied research and technical services. He worked for Cactus Feeders as the operations manager for Cactus Research Ltd. and was responsible for daily supervision of a 12,000 head research feedlot facility involved in the conduct of

NDSU Veterinary Diagnostic Laboratory Continuing Education Seminar

June 10
2022



NDVMA Co-sponsored – 7 CE Credits

industry-sponsored as well as in-house research projects. He is currently employed by Zinpro Corporation as a research nutritionist and is responsible for research and new product development projects in the area of beef cattle with an emphasis on feedlot cattle nutrition and health.

Dr. Branine has a BS degree in animal science from Colorado State University, a MS degree in animal nutrition from the University of Wyoming and a doctorate in ruminant nutrition from New Mexico State University. He has had post-doctoral positions at New Mexico State and Colorado State universities. At New Mexico State's Clayton Livestock Research Center, a major focus of their research involved nutrition and management of stressed, newly received calves coming into the feedlot and application of ionophores for beef cattle production. At Colorado State, he participated on a project for NASA to develop information related to nutritional and management influences on enteric methane production by ruminants and its potential impact on climate change. He is a native of Colorado and currently reside in south-central Colorado with his wife Laura and enjoys getting into the mountains to hike, ski, or fly fish.

Dr. Tom Bragg, DVM



Dr. Tom Bragg is a 1993 graduate from Kansas State University's College of Veterinary Medicine. He practiced in a predominantly large animal practice in Nebraska and South Dakota for 6 years. In 1999, he began managing large bison operations working with The Nature Conservancy and The National Park Service in Colorado. Since 2005 he has been employed with Turner Enterprises, Inc. on Deer Creek Ranch in Western Nebraska. In 2019, his position transitioned to Bison Veterinarian for Turner Enterprises, Inc. Most recently, in 2022, his position shifted to the newly established Turner

Institute of Ecoagriculture where he continues to fulfill the role of Veterinarian for Turner Ranches as well as assisting with research on bison and other species. Tom lives on the property in Western Nebraska with his beautiful wife. They are blessed to have 3 children ages 20 to 25 who are off exploring their lives.



Dr. Emily Barrell, DVM, MS, DACVIM-LAIM Dr. Barrell is a Colorado native who completed her undergraduate, graduate, and professional veterinary medicine degrees at Colorado State University in Fort Collins, Colorado. She completed an internship in central California and a residency in Large Animal Internal Medicine at Cornell University, achieving diplomate status in 2015. She worked in the Livestock Medicine and Surgery service at Colorado State University from 2015-2017 and joined the University of Minnesota College of Veterinary Medicine faculty in January of 2018. She is

NDSU Veterinary Diagnostic Laboratory Continuing Education Seminar

June 10
2022



NDVMA Co-sponsored – 7 CE Credits

one of two faculty members in charge of teaching the small ruminant veterinary material throughout the curriculum, from first year introductory lectures and labs to advanced rotations in the final year of the program. Additionally, she is part of the Large Animal Medicine service at the University, providing service to clients, caring for patients, and simultaneously teaching senior veterinary students during their rotations in the large animal hospital.

Dr. Laura Williams, DVM, PhD, DACVP, DACVM



Laura Williams is an assistant professor at Washington State University in the Department of Veterinary Microbiology and Pathology. Her clinical service appointment is primarily within the Washington Animal Disease Diagnostic Laboratory, where she provides surgical biopsy and necropsy service and parasitology consultation. Dr. Williams is board-certified in Anatomic Pathology and Parasitology through the American College of Veterinary Pathologists and American College of Veterinary Microbiologists, respectively. Dr. Williams received her Bachelor of Science Degree in molecular biology at the University of Northern Colorado in 2009, and her DVM from WSU in 2013. She continued her time at WSU as an anatomic pathology resident and graduated with her PhD in 2018. Since becoming a WSU faculty member, she has taken over as the Parasitology course coordinator in the WSU DVM curriculum and leads the Parasitology section in WADDL.

-----tear here-----

REGISTRATION FORM-DIAGNOSTIC LABORATORY SEMINAR – JUNE 10, 2022

Name _____ Phone _____

Address _____

City _____ State _____ Zip _____

Email _____

Please indicate how you plan to attend

In Person (NDSU campus)

Virtual via Zoom or Recording

(Recording available 72 hours after meeting)

Please make **Check** payable to NDSU and send along with this registration form to:
Michelle Mostrom, Veterinary Diagnostic Laboratory, NDSU Dept. 7691, PO Box 6050,
Fargo. ND 58108-6050