

2023 Hambletonian Continuing Education Seminar*

Hilton Meadowlands Hotel, E. Rutherford, NJ

Friday, August 4, 2023

7:00 AM – 6:05 PM

***Approved for CE credit by the NJ Veterinary Medical Association and the NJAEP**



7:00 – 7:45 AM

Registration & Continental Breakfast (*sponsored by Triple Crown Nutrition*)

Exhibit Area

Trade Show Opens

7:45 - 8:00 AM
Exhibit Area

Welcome Seminar Participants

8:05 – 9:05 AM
Derby West

Ultrasound of the Stifle for the General Practitioner (*sponsored by Wedgewood Pharmacy*)

Kate Chope, VMD, DACVSMR

Dr. Chope earned her VMD in 1996 from the University of Pennsylvania. After two years in private practice, she completed a fellowship in Equine Cardiology and Ultrasound at The University of Pennsylvania's New Bolton Center. In 2002, Dr. Chope joined the faculty at Tufts Cummings School of Veterinary Medicine. There she established a dedicated large animal ultrasound service. She also founded the ambulatory ultrasound consulting service Equine Ultrasound Services. In 2022, Dr. Chope returned to UPenn as an Associate Professor in the department of Cardiology and Ultrasound at New Bolton Center. Dr. Chope has lectured extensively and given equine ultrasound wet labs at numerous regional, national, and international meetings.

A practical approach will be taken to discuss the applications and approach to ultrasound of the stifle for the general practitioner. Indications, anatomy, and normal appearance will be discussed along with select case examples.

Derby East

Evaluate Muscle Atrophy in Horses Using a Novel Muscle Atrophy Scoring System (MASS)

Alisa C. Herbst, BSc, PhD

Dr. Herbst received her BSc in Equine Management from Nuertingen-Geislingen University (Germany) in 2016. During her undergraduate studies she also contributed to research on equine airway diseases (Purdue University, Indiana) and wastage of Standardbred racehorses (Massey University, New Zealand). In 2021, she received her PhD in Veterinary Science from the University of Kentucky. Her dissertation research concerned immune function and muscle mass in senior horses. She currently holds a postdoctoral associate position at the Rutgers Equine Research Center, where she continues her research on muscle mass, immune function, and the senior horse.

Horses can develop muscle atrophy under various circumstances including inappropriate management and certain medical conditions. Due to the lack of an inexpensive, easy-to-use, accurate, and objective muscle atrophy assessment tool, changes in muscle mass are mainly determined through visual examination. To address this gap, a novel muscle atrophy scoring system (MASS) has been developed. The system functions similarly to the body condition scoring system (BCS) and may be used by veterinarians, horse owners, and trainers to detect and monitor muscle atrophy.

9:10 – 10:10 AM
Derby West

Premolar and Molar Intra-Oral Extraction Technique in the Standing Horse (sponsored by Jorgensen Labs & Horse Dental Equipment)

Jon M. Gieche, DVM FAVD/EQ, Diplomate AVDC/EQ

Dr. Gieche received his Doctorate in Veterinary Medicine from Michigan State University College of Veterinary Medicine in 1986. In 1991, Dr. Gieche founded Kettle Moraine Equine Hospital and Regional Equine Dental Center in Whitewater, Wisconsin. Dr. Gieche has the honor of being a two-time past president of the Wisconsin Equine Practitioners Association. In October 2013, Dr. Gieche achieved Equine Fellowship status in the Academy of Veterinary Dentistry. He is one of only eight AVD-EQ Fellows in North America. In August 2016, Dr. Gieche also achieved diplomate status in the American Veterinary Dental College – Equine. He is the only clinician in Wisconsin to earn both the AVD-EQ and the AVDC-EQ degrees. He frequently instructs veterinarians and veterinary students via lectures and hands-on wet labs throughout the United States and abroad.

Case selection/indications, equipment, and non-surgical extraction methodology will be presented. Visual content (photo and video) will be used extensively to provide a greater understanding than words alone can provide. This lecture will provide the clinician with the information necessary to appropriately select cases within their skillset, while at the same time, preparing them for more advanced cases as they arise. They will also gain an understanding of when to refer to the specialist.

Attendees will:

1. Learn the equipment necessary to perform non-surgical extraction of equine premolars and molars.
2. Understand the indications for exodontia and proper case selection.
3. Understand the procedural steps of non-surgical premolar and molar extractions including what forces are used and how to apply these forces appropriately as well as alveolar protection post extraction.

Derby East

Horse Supplements and the Science Behind Them (Or Not!) (sponsored by Triple Crown Nutrition)

Carey Williams, PhD

Dr. Williams earned her PhD in 2003 from Virginia Polytechnic Institute and State University. Later that year, she joined Rutgers as its Equine Extension Specialist and Associate Director of Outreach for the Equine Science Center. She took an active role in teaching, conducting research and working with the equine and academic communities to ensure the viability of the horse industry in New Jersey. At Rutgers, the focus of her research is on antioxidant supplementation and decreasing the stress of exercise and

competition in performance horses, and pasture management and metabolism of the grazing horse. Dr. Williams has won many awards. Most recently, she was named the New Jersey Horseperson of the Year for 2021. In 2019, she was awarded American Feed Industry Association Award for Equine Nutrition Research. That same year, she was promoted to full professor in the Department of Animal Sciences at Rutgers University.

The horse supplement market is a very large and confusing area for most horse owners. They look to professionals like veterinarians, farriers, and trainers to help them make these difficult decisions. They wonder if their horses really need a supplement and if so, which are the best ones on the market and most appropriate for their horses. Much thought goes into these decisions, including what the base of the diet consists of, what the horse's condition or performance issue might be, and what company has the most effective supplement. This talk will focus on various supplement classes and their ingredients. Dr. Williams will distinguish between which supplements are effective as proven by research, and others which are driven by theory or testimonials.

Conf. Rm F-G

USDA Accredited Module #8: International Movement of Horses (sponsored by USDA APHIS)

Alison Stout, DVM

Dr. Alison Stout grew up in New Jersey. She pursued her undergraduate degree in Animal Sciences and Agricultural Education at Cornell University. Following undergrad, she spent two years working in an equine immunology laboratory. Her primary work focused on Equine Herpesvirus. Dr. Stout received her DVM from Cornell University in 2017 and stayed to perform research. She has been with USDA since August 2022 and enjoys the variety that comes with working for USDA.

After completion of this module, you will be able to:

- describe the economic importance of the U.S. equine industry;
- recognize that international travel of horses is the major contributing factor to the global spread of equine diseases.
- locate and correctly determine the requirements and procedures that must be completed to export U.S. horses.
- perform your roles and responsibilities as an accredited veterinarian (AV);
- recognize that you are solely responsible for all aspects of the documents you sign regardless of who assists you in preparing them.
- recognize that only you or another AV may perform all of the testing, identification, and immunizations which may be required for horses to travel; and fully and properly perform all facets of the export process.

10:10 – 10:40 AM

Exhibit Area

Morning Break/Refreshments

10:45 – 11:45 AM

Derby West

Advanced Field Case Management Scenarios: When Referral is Not an Option (sponsored by Merck Animal Health)

Philip van Harreveld, DVM, MS, DACVS-LA

Dr. van Harreveld received his Doctor of Veterinary Medicine from North Carolina State University in 1996. In 1997, he completed a one-year internship in equine medicine and surgery at Kansas State University. After developing a strong interest in equine surgery,

Dr. van Harreveld completed an equine surgery residency, as well as a master's degree in clinical sciences at Kansas State University. In 2001, he was certified by the American College of Veterinary Surgeons in equine surgery. Prior to joining Merck Animal Health, Dr. van Harreveld founded and operated Vermont Large Animal Clinic, an equine field service and referral hospital in the Burlington, Vermont, area for over 20 years.

The initial presentation, diagnostics, and treatment options for four different clinical cases will be discussed. This will include medical and orthopedic emergencies and how to offer horses and clients various treatment options when referral is not available.

Derby East

New Horizons in Viscosupplementation for the Treatment of Joint Disease (sponsored by Nucleus ProVets)

Lauren Schnabel, DVM, PhD, DACVS, DACVSMR

Dr. Schnabel is an Associate Professor of Equine Orthopedic Surgery in the Department of Clinical Sciences at the North Carolina State University College of Veterinary Medicine. She is also an Associate Director of the Comparative Medicine Institute at NCSU. Under the mentorship of Dr. Lisa Fortier and Dr. Douglas Antczak at Cornell University, Lauren completed both her DVM, Large Animal Surgery Residency and PhD. She is board certified by both the American College of Veterinary Surgery and the American College of Veterinary Sports Medicine and Rehabilitation. In 2019, Dr. Schnabel was named an NCSU Faculty Scholar. In 2020, she received the Zoetis Award for Veterinary Research Excellence.

This lecture will review the historical use and efficacy of hyaluronic acid viscosupplementation injections for the treatment of joint disease in both humans and horses and will compare such use to that of newer polyacrylamide hydrogel viscosupplementation injections.

11:50 AM – 12:50 PM

Derby West

Regenerative Medicine: The Science Behind Amnion-Based Technologies (sponsored by AniCell Biotech)

Tammi Epp, DVM, PhD, DACVSMR

Dr. Epp earned her BS in Animal Science/Pre-Vet, a dual MS/DVM, and a PhD at Kansas State University, specializing in canine and equine sports medicine and exercise physiology. She is a Diplomate of the American College of Veterinary Sports Medicine and Rehabilitation and licensed to practice veterinary medicine in multiple states. Dr. Epp is also certified in veterinary acupuncture and chiropractic, equine rehabilitation, equine massage therapy, and has additional training in herbal medicine.

Dr. Epp's background includes work experience in academia, industry, veterinary practice, and private consulting. Dr. Epp spent 10 years in academia at Kansas State University where her primary area of study was exercise-induced pulmonary hemorrhage and inflammatory airway disease, as well as participating in some stem cell research. Dr. Epp joined AniCell Biotech in 2022 as the Senior Technical & Research Scientist.

From mechanisms of action to detailed product characterization, this talk will address the latest science behind the use of these products for not only tissue-based usage, but also for a variety of diseases such as post-breeding endometritis, exercise-induced

pulmonary hemorrhage, renal failure and equine herpesvirus (EHV) 1. Safety concerns related to using allogeneic products will also be presented.

Derby East

Mare Behavior Problems: Ovaries or Not?

Sue McDonnell, MS, PhD

Dr. McDonnell is a Certified Applied Animal Behaviorist trained in human psychology and equine physiology and behavior. She holds a master's degree in psychology from West Chester University in 1982. In 1985, she earned her PhD in Reproductive Physiology and Behavior from the University of Delaware. For her entire four-decade career, she has been at New Bolton Center performing research as a member of the clinical faculty, where she founded the Equine Behavior Program. Her primary clinical expertise and research is stallion sexual behavior dysfunction, but her interests and skills have spanned multiple aspects of equine behavior and welfare.

Using case examples, this presentation will describe evaluation of mares presented with complaints of variable behavior or performance suspected to be related to normal estrus or to ovarian pathology.

12:50 – 2:50 PM **Exhibit Area**

Exhibitor Displays and Buffet Lunch

2:50 – 3:50 PM **Derby West**

Efforts to Transform Equine Practice

Lisa Kivett, MS, DVM, DACVIM & Stacey Cordivano, DVM, IVCA

Dr. Kivett owns Foundation Equine, a four-doctor exclusively equine practice in Southern Pines, NC. A board-certified Internal Medicine specialist, she sees cases both in her newly built hospital and in the field. An active participant in giving back to the industry, Dr. Kivett has served on several committees and taskforces of the AAEP, serves on the board of EPIC, is a facilitator in the Starting Gate program, and is a Decade One alumnus. She is also an adjunct professor at NC State University and is passionate about teaching veterinary students and helping elevate the quality of life provided to young equine veterinarians. In addition to being a veterinarian and practice owner, Dr. Kivett is a joyful mom of two small children.

Dr. Cordivano owns a two-doctor exclusively equine ambulatory practice in Chadds Ford, PA. As the founder of the popular podcast The Whole Veterinarian, a founding member of the Sustainability in Equine Practice Seminar series, and a facilitator for Decade One as well as Mentor Vet, she is deeply involved in helping the industry. She is also a co-chair of the Culture Subcommittee of the AAEP's Commission on Equine Veterinary Sustainability, a member of the AAEP's Wellness Committee, and a Decade One alumnus.

Attracting and retaining veterinarians in equine practice has been approaching a crisis point for nearly ten years. In response, programs have formed to support, educate, and encourage veterinarians and veterinary students to live their dream in equine practice. This presentation will include descriptions of many of the initiatives that are available, including but not limited to Decade One, Starting Gate, Sustainability in Equine

Practice (SEP), EPIC, AAEP's Commission on Equine Veterinary Sustainability, The Whole Veterinarian, and Mentor Vet.

Derby East

Three Decades of Evidence: Osteoarthritis and the Treatment of this Disease in Horses (sponsored by American Regent Animal Health)

Cindy Hatfield, BSc, DVM, MSc, Cert. Anes.

Dr. Hatfield offers over 20 years of experience in companion animal veterinary medicine. Prior to entering veterinary college, Dr. Hatfield worked as a marine biologist and holds both a BSc and MSc from the University of New Brunswick. In 1997, Dr. Hatfield earned her DVM from Atlantic Veterinary College, University of Prince Edward Island. She also completed an internship and residency in Anesthesiology and Pain Management of all species at the Ontario Veterinary College, University of Guelph. Following her residency, Dr. Hatfield served as a staff anesthesiologist at the Atlantic Veterinary College. In 2002, Dr. Hatfield accepted a position as Clinical Assistant Professor of Anesthesiology at Virginia-Maryland Regional College of Veterinary Medicine. There, she taught anesthesia and pain management to veterinary students, interns and residents, providing clinical support to the teaching hospital and conducting research. In 2012, Dr. Hatfield transitioned to corporate technical services and joined American Regent in 2018.

Polysulfated glycosaminoglycans (PSGAG's) have been trusted for over 30 years for the treatment of osteoarthritis in horses. This presentation will cover the pharmacology, pharmacokinetics and safety profile of this drug class. Discussion will encompass the pathogenesis of osteoarthritis, structure and function of PSGAG as well as a literature review of In Vito and In Vivo studies. Ideally, the practitioner will leave with an understanding of how an older, proven drug class can be incorporated into the new management of osteoarthritis in all horses.

3:55 – 4:55 PM

Derby West

How to Incorporate Veterinary Technicians in Equine Practice Sustainability Solutions (sponsored by Merck Animal Health)

Philip van Harreveld, DVM, MS, DACVS-LA

(see bio from morning lecture)

This session will take a look at maximizing the use of equine veterinary technicians as part of improving sustainability in the profession. Various solutions for today's busy practice environment will be discussed. The floor will be opened for an interactive session of new ideas.

Derby East

High Quality Forage: The Key to a Healthy Horse (sponsored by Standlee Western Forage)

Stephen Duren, MS, PAS, PhD

Dr. Duren completed his Bachelor of Science in animal sciences at the University of Idaho. He earned a Master of Science and a Doctor of Philosophy in equine nutrition and exercise physiology from the University of Kentucky. His research centered around feeding fat to racehorses and changes in blood flow distribution in fed and fasted horses during exercise. Dr. Duren has now formed Performance Horse Nutrition, LLC, where

he consults with feed manufacturers and horse owners throughout the world. He has owned horses his entire life and truly understands the connection between diet and performance. He has owned competitive horses and understands the investment of time and training and realizes that diet should be a factor that helps, not limits, the horse.

This session will focus on the importance of forage for digestive health and intestinal integrity. Different types of forages will be discussed, along with new developments in creating therapeutic forages for a variety of health issues.

4:55 – 5:05 PM
Exhibit Area

Afternoon Break/Refreshments

5:05 – 6:05 PM
Derby West

“What’s Got You Down? Addressing and Managing Common Neurologic Emergencies in the Field

Sarah Colmer, VMD, DACVIM

Sarah F. Colmer, a New Jersey native, is currently a Fellow in Large Animal Neurology at the University of Pennsylvania School of Veterinary Medicine’s New Bolton Center in Kennett Square, PA. She completed a residency in Large Animal Internal Medicine at New Bolton Center in 2022 as well as rotating internships at the Center. She also completed internships at Mid-Atlantic Equine Medical Center in New Jersey. Her research interests surround neurologic conditions of the horse, particularly degenerative diseases, as well as endocrinology.

Neurologic emergencies can be intimidating and even dangerous for owners and veterinarians. When approached systematically, they can be managed safely and effectively. This discussion will focus on evaluating, neurolocalizing, stabilizing, and treating common neurologic emergencies, and address "when to refer". Topics will include sources of acute ataxia and behavior change, dysphagia and recumbency.

Derby East

“13 Mistakes to Avoid When Doing a Venogram” with Case Studies (sponsored by Vet-Ray by Sedecal)

Jaret Pullen, DVM, ATF-1

Dr. Pullen started his farrier business in 2003, and soon developed an interest in specialized therapeutic farrier work. He completed his veterinary training at Cornell University. He is on the board of directors for the NAEP and is a routine lecturer at Colorado State University's College of Veterinary Medicine's new podiatry initiative. Dr. Pullen also lectures at other veterinary schools and events. Currently he travels between the Northeast and Texas servicing all different breeds and disciplines of horses and their hoof-related pathologies.

The venogram is a technique-sensitive procedure. While it is not a complicated procedure, there are many mistakes that must be avoided in order to yield good diagnostic images. The purpose of this lecture is to highlight those pitfalls of the venogram procedure that have been hard learned through experience, so that the attendees don't have to repeat the same mistakes. The case studies will highlight how vascular patterns will differ between pathological lesions and artifactual lesions and give a window into how the venograms are analyzed.