

Hambletonian Continuing Education Seminar*

Hilton Meadowlands Hotel, E. Rutherford, NJ

Friday, August 1, 2014

7:00 AM – 5:30 PM

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

7:00 - 8:00 AM

Exhibit Area

Registration and Continental Breakfast (*sponsored by Purina Animal Nutrition*)

Trade Show Opens

8:00 - 8:15 AM

Exhibit Area

Welcome to Seminar Participants

8:15 – 9:15 AM

Derby West

Sedation & Anesthesia of the Horse in Field Situations (*sponsored by Bayer Animal Health*)

John A. E. Hubbell, DVM, MS, DACVAA

After receiving his DVM from Ohio State in 1977, Dr. Hubbell served an equine surgery internship at UC-Davis then returned to Ohio State as a resident in veterinary anesthesiology. Dr. Hubbell has been a faculty member at Ohio State since 1982, and currently serves as Professor of Veterinary Clinical Sciences. He is a noted lecturer on topics related to anesthesia, and is the author of numerous articles on veterinary anesthesia and coauthor of two textbooks: Handbook of Veterinary Anesthesia and Equine Anesthesia Monitoring and Emergency Therapy. Dr. Hubbell's research interests center on equine anesthesia and the pharmacology of anesthetic drugs. His family has bred and raced Standardbred horses in the Buckeye State for over 50 years.

The goals of standing chemical restraint are to produce a patient that is quiet, cooperative, immobile, pain-free and unreactive to stimuli or manipulation. The goals of field anesthetic techniques are to produce 20 to 30 minutes of anesthesia with minimal cardiopulmonary depression and a prompt, crisp return to standing upon completion. This talk will focus on the individual and collective pharmacology of sedative and anesthetic drugs and present techniques that can be safely used in the ambulatory setting.

Derby East

Equine Dermatology: Approach To Pruritus (*sponsored by Kinetic Technologies*)

Chris Reeder, DVM, DACVD

Dr. Reeder is a 2003 graduate of Auburn University's College of Veterinary Medicine, where he received numerous awards including the Merck-Merial fellowship in genetic research. Dr. Reeder is the senior dermatologist and co-owner of the Animal Dermatology Clinic Louisville and also practices at several of the clinic's satellite locations. He is published both nationally and internationally, and enjoys lecturing to local and national audiences. He continues to help train veterinary students, interns and residents in the Louisville location. Dr. Reeder has served on several committees for the American College of Veterinary Dermatology. His special interests are immune-mediated skin disease, otitis externa and dermatopathology.

Dr. Reeder's presentation will cover the following topics:

- Atopy
- Food allergy
- Insect hypersensitivity

- Contact dermatitis

9:20 – 10:20 AM
Derby West

Selected Problems in the Growing Foal and the Young Horse: Perspectives from Medicine and Surgery – Part One (sponsored by Merck Animal Health)

Wendy E. Vaala, VMD, DACVIM

Dr. Vaala received her VMD from the University of Pennsylvania. She then served on staff as an Assistant Professor of Medicine at New Bolton Center, where she organized the development of a neonatal intensive care program, a high-risk pregnancy program for mares, and supervised the neonatology teaching program. Dr. Vaala then worked at two large private practices in NJ, where she established NICU's, equine medical referral services, and foaling programs for mares with high-risk pregnancies. She joined Intervet in 2004, and currently serves as Senior Equine Technical Specialist for Merck Animal Health, where her field responsibilities include participation in research and development of new equine biologics and pharmaceuticals and continuing education for veterinarians and horse owners. She is widely published, and is a noted lecturer nationally and internationally.

Earl M. Gaughan, DVM, DACVS

Dr. Gaughan is a graduate of the University of Georgia, College of Veterinary Medicine. He completed a residency in large animal surgery at Cornell University and is board certified by the ACVS. Dr. Gaughan has been in private equine practice in Maryland and Colorado and has served as Professor of Equine Surgery at Kansas State University, Auburn University and the Virginia-Maryland Regional College of Veterinary Medicine. He has been active in the leadership of the North American Veterinary Conference and the American College of Veterinary Surgeons. Dr. Gaughan currently serves as an equine technical services veterinarian for Merck Animal Health.

This fast-paced lecture will alternate between medical and surgical conditions commonly encountered in the young horse during the first year of life. Topics will include bacterial, parasitic and surgical causes of gastrointestinal disease in the foal and weanling, medical and surgical implications of *Rhodococcus equi* respiratory and musculoskeletal infections with a focus on current views regarding diagnosis and treatment, management of both congenital and acquired angular limb deformities, and an update on viral respiratory disease in the adolescent horse.

Derby East

Equine Laparoscopy: the Possibilities, the Benefits and the Limitations (sponsored by Mid-Atlantic Equine Medical Center)

Janik Gasiorowski, VMD, DACVS

Dr. Gasiorowski received his VMD from the University of Pennsylvania in 2007. He completed an internship at Rood & Riddle Equine Hospital, followed by a surgical residency at UPenn's New Bolton Center, where he was hired into the section of surgery in 2011 and was the recipient of several prestigious awards. Dr. Gasiorowski's clinical interests include lameness diagnosis, nuclear scintigraphy, orthopedic and upper respiratory surgery. Recently, he has been focusing on the development of surgical techniques in the standing (not anesthetized) horse. His research interests include regenerative medicine and orthopedics. He has presented at the ACVS annual symposium, and is published in peer-reviewed journals and book chapters on a variety of topics. He has a growing interest in the transitioning of thoroughbred racehorses to second careers. Dr. Gasiorowski joined Mid-Atlantic Equine Medical Center in 2013.

This lecture will focus on the following areas:

- Indications and case selection

- Advantages
- Limitations

10:20 – 10:50 AM

Exhibit Area

Morning Break/Refreshments (*sponsored by Boehringer Ingelheim, Patterson Veterinary, Scil Animal Care, and Sound-Eklin*)

10:50 – 11:50 AM

Derby West

Selected Problems in the Growing Foal and the Young Horse: Perspectives from Medicine and Surgery – Part Two (*sponsored by Merck Animal Health*)

Wendy E. Vaala, VMD, DACVIM & Earl M. Gaughan, DVM, DACVS

See bios in the 9:20 – 10:20 AM session

This fast-paced lecture will alternate between medical and surgical conditions commonly encountered in the young horse during the first year of life. Topics will include bacterial, parasitic and surgical causes of gastrointestinal disease in the foal and weanling, medical and surgical implications of *Rhodococcus equi* respiratory and musculoskeletal infections with a focus on current views regarding diagnosis and treatment, management of both congenital and acquired angular limb deformities, and an update on viral respiratory disease in the adolescent horse.

Derby East

Use of Acupuncture for a Variety of Equine Conditions (*sponsored by the International Veterinary Acupuncture Society/IVAS*)

Kevin May, DVM

Dr. May received his DVM from Texas A&M in 1980. Since 1986, he has been a Partner in El Cajon Valley Veterinary Hospital in El Cajon, CA, an equine ambulatory practice with a special emphasis on sports medicine, acupuncture, chiropractic and dentistry. Dr. May was certified in Veterinary Acupuncture by IVAS in 1988, and has lectured extensively on Equine Acupuncture. Dr. May has also received advanced certification in Veterinary Chiropractic. He was the founding member and President of the American Association of Veterinary Acupuncture (AAVA) from 1992–2000, and served as President of IVAS from 2006–2008. In 2009, the AAVA awarded Dr. May a Lifetime Achievement Award for his dedicated and outstanding Service in the Field of Veterinary Acupuncture.

This talk will cover such topics as Inappetance, Apnea, Shock, Post-op Ileus and Acute Laminitis. The acupuncture points commonly used in the treatment of these conditions will be covered so that the audience participant can apply them to their practice the next day.

11:50 – 1:50 PM

Exhibit Area

Exhibitor Displays and Buffet Lunch (*sponsored by Merck Animal Health, Platinum Performance, Pulse Veterinary Technologies, and Zoetis*)

1:50 – 2:50 PM

Derby West

Pro-inflammatory Gene Expression during Training: Portents of Adaptation or Injury? (*sponsored by Zoetis*)

David W. Horohov, MS, PhD

Dr. Horohov serves as Jes E. & Clementine M. Schlaikjer Endowed Chair in Equine Immunology and Professor at the Maxwell H. Gluck Equine Research Center, Dept. of

Veterinary Science at the University of Kentucky. Dr. Horohov has an MS from Purdue University and a PhD from the University of Tennessee. He has more than 25 years of academic and equine experience and has authored more than 100 equine publications. His honors include a Pfizer Award for Research Excellence and a Faculty Distinguished Scholar Award from the School of Veterinary Medicine and a University Award for Excellence in Teaching from Louisiana State University. Dr. Horohov's current research program focuses on the identification and characterization of equine cytokines and their role in protective and pathologic immune responses.

The role of exercise-induced inflammation in the horse is unknown. Initially, exercise is associated with an increase in pro-inflammatory gene expression in horses. As horses successfully adapted to their training there was an overall decline in pro-inflammatory gene expression. In some cases, expression of pro-inflammatory genes increased and was associated with subsequent poor performance and injury. These results indicate that pro-inflammatory gene expression may be useful as a tool to monitor the young horse's adaptation to training.

Derby East

Case-by-Case: Equine Clinical Nutrition (sponsored by Purina Animal Nutrition)

Kelly R. Vineyard, MS, PhD

Dr. Vineyard earned her MS and PhD in equine nutrition from the University of Florida. Her doctorate research focused on the effects of omega-3 fatty acid supplementation on immune function in horses, and she received the Innovative Research award from the American Society of Animal Science for this work. Dr. Vineyard is a frequent publisher and lecturer on equine nutrition with expertise in omega-3 fatty acids, immune function, and performance horse nutrition. Her published work includes articles in the Journal of Animal Science and the Journal of Equine Veterinary Science, and a chapter in the textbook Equine Applied and Clinical Nutrition. Dr. Vineyard joined Purina Animal Nutrition in 2008 where she conducts research to discover and develop innovative horse feed products.

Feeding the healthy horse is a relatively straight-forward endeavor, but feeding the sick horse is not so simple or well-defined. This session will address appropriate feeding protocols for various medical conditions in a case-study format. Conditions covered will include gastrointestinal disorders, muscular disorders, liver disease, and hypophagia (enteral feeding).

2:55 – 3:55 PM

Derby West

You See What You Know: Eye Examination in the Horse (sponsored by Patterson Veterinary)

Dennis E. Brooks, DVM, PhD, DACVO

Dr. Brooks received his DVM from the U. of Illinois He received a PhD in glaucoma-induced optic nerve damage from the University of Florida College of Veterinary Medicine, where he currently serves as Professor of Ophthalmology. He is a recognized authority on corneal transplantation, infectious keratitis, and glaucoma of horses and other animals. Dr. Brooks has lectured extensively nationally and internationally, and has written more than 140 refereed publications. He has received numerous teaching and research awards, including the Frank J. Milne State of the Art Award of the AAEP in 2010. He is past President of the American College of Veterinary Ophthalmologists. Dr. Brooks published the second edition of his book, Equine Ophthalmology, in 2008.

Dr. Brooks' presentation will cover fluorescein and Rose Bengal stain usage, interpretation of corneal color change, drainage angle analysis, and smartphonoscopy in the horse.

Derby East

Diagnostic Imaging of the Equine Stifle: How? What? When?
(sponsored by Vet-Ray Technology by Sedecal)

Kirstin A. Bubeck, Dr. med. vet., DACVS, DACVSMR

Dr. Bubeck earned her veterinary degree from the University of Hannover in Germany, and served there as a staff veterinarian at the equine hospital while completing her postgraduate thesis. She successfully completed her residency in Large Animal Surgery at Cummings School of Veterinary Medicine at Tufts University, and then served as clinical instructor for equine lameness and surgery at the University of Montreal, Canada. Currently, she is a clinician in Equine Sports Medicine and Surgery at Cummings School of Veterinary Medicine. Her specialty interests include orthopedic surgery and diagnostic imaging.

This talk will address the examination of the equine stifle using radiography, ultrasonography, scintigraphy, and arthroscopy. How to choose between these modalities and their limitations will be discussed using several case examples.

3:55 – 4:30 PM

Exhibit Area

Afternoon Break/Refreshments (sponsored by 3M Animal & Pet Care, Merial, and Vet-Ray Technology by Sedecal)

4:30 – 5:30 PM

Derby West

Multi-Limb Lameness: Forelimb, Hindlimb, or Both? (sponsored by Wedgewood Pharmacy)

Michael W. Ross, DVM, DACVS

*Dr. Ross received his DVM from Cornell University. He completed a large animal surgical residency program at New Bolton Center, UPenn, where he was appointed to the faculty. He currently serves at New Bolton Center as Professor of Surgery and Director of the Nuclear Medicine Program, which he developed. His broad clinical interests include equine gastrointestinal, respiratory and musculoskeletal surgery, with concentrated efforts in orthopedic surgery, and special focus on arthroscopic surgical techniques. Equine lameness diagnosis and management is a clinical focus with emphasis on Standardbred and Thoroughbred racehorses. Dr. Ross is the author of over 350 scientific papers, proceedings, etc. The 2nd edition of Doctors Ross and Dyson's comprehensive *Diagnosis and Management of Lameness in the Horse* was published in November 2010, with a companion website www.rossanddyson.com.*

Become your own lameness locator by learning the 5 key elements to recognize and differentiate forelimb, hindlimb and multi-limb lameness in horses, the typical gaits of horses with pain originating from more than one limb and the correct limb in which to begin diagnostic analgesia.

Derby East

Lyme Vaccine Survey and Field Vaccination with Recombinant OSPA Vaccine in Horses (sponsored by Merial)

Joseph J. Bertone, DVM, MS, DACVIM

Dr. Bertone is Professor of Equine Medicine at Western University of Health Sciences, College of Veterinary Medicine. He received his DVM from Cornell University in 1983. He completed a residency-training program and a MS degree at Colorado State University. He served on the faculties of Louisiana State and Ohio State Universities and as a veterinary medical officer at the FDA Center for Veterinary Medicine. He served on the AAEP committee for Judicious Antimicrobial Use, the AVMA Council on Biologics & Therapeutic Agents, and the AVMA Steering Committee for Antimicrobial Resistance. He is a 3-time recipient of the Equine Speaker of the Year award at the

NAVC. He has edited 3 Veterinary Clinics of North America, The Five-Minute Consult for Equine Medicine and Surgery, Equine Clinical Pharmacology and Equine Geriatric Medicine and Surgery.

A survey of veterinarians concerning Lyme vaccine was collected. Use increased extensively if equine data existed to support the use of canine products in horses and dramatically if USDA approval were attained. In addition, the results of a study evaluating the humoral response to a recombinant OspA Lyme vaccine administered transdermally and subcutaneously will be presented. All treated horses responded to vaccine.