

**Hambletonian Continuing Education Seminar\***  
**Hilton Meadowlands Hotel, E. Rutherford, NJ**  
**Thursday, August 6 & Friday, August 7, 2015**  
**7:00 AM – 6:05 PM**

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

**THURSDAY, AUGUST 6**

**7:00 – 7:45 AM**

**Exhibit Area**

**Registration & Continental Breakfast**  
**Trade Show Opens**

**7:45 - 8:00 AM**

**Exhibit Area**

**Welcome to Seminar Participants**

**8:05 – 9:05 AM**

**Seminar Room**

**“So Referral Is Not an Option” – Surgical Techniques for the Field (sponsored by Mid-Atlantic Equine Medical Center)**

**Janik Gasiorowski, VMD, DACVS & Jennifer Feiner, VMD**

*Dr. Gasiorowski received his VMD from UPenn 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 focused on the development of surgical techniques in the standing (not anesthetized) horse. He has presented at the ACVS annual symposium, and is published in numerous peer-reviewed publications. He joined Mid-Atlantic Equine Medical Center in 2013.*

*Dr. Feiner received her VMD from UPenn in 2006. She was a member of the Hagyard Equine Medical group from 2006–2013 where her primary focus was equine sports medicine. She has extensive experience in Thoroughbred reproductive management, field medicine, and Thoroughbred yearling sales and training. Dr. Feiner served as the Head of Quarantine and as a USEF/FEI Veterinary Apprentice for Eventing at other major USEF/FEI events. She currently serves as a staff veterinarian at Mid-Atlantic Equine Medical Center.*

In some cases for which referral is indicated but is not an option, familiarity with advanced techniques may facilitate management in a field setting. This talk will include explanation and discussion of these techniques using a case-based format.

**Pimlico/Belmont**

**Serum Amyloid A as a Biomarker of Active Infections (sponsored by Patterson Veterinary)**

**Heinrich Anhold, BSc, PhD**

*Dr. Anhold is an Irish native and founded StableLab in 2008 after finishing his PhD in Biochemistry from the National University of Ireland. He breeds warmbloods and started StableLab with money he raised from selling a Grand Prix jumper he had bred. In 2010, StableLab was awarded Ireland’s Best Emerging Company and Dr. Anhold was listed as one of Ireland’s Top 40 Under 40 entrepreneurs. Now selling in 11 countries worldwide, StableLab has become a widely used tool for everyday clinical assessment.*

This presentation will focus on the new biomarker Serum Amyloid A that has been increasing in popularity as a non-specific biomarker of active infections. Serum Amyloid A is produced as part of the infectious inflammatory response and is being used in practice to distinguish infectious and non-infectious inflammation. Dr. Anhold will present details on this protein biomarker highlighting how it can be utilized as a tool in clinical practice.

**Aqueduct/**

**USDA Accreditation Module #3: Overview of Foreign Animal, USDA Churchill Program & Reportable Diseases (sponsored by USDA APHIS VS)**

**Anna C. Welsch, DVM**

*Dr. Welsch received her DVM from Oklahoma State U. in 1990. After graduation she practiced in a small animal hospital and a fiber animal practice in Virginia. She then moved to Paris, to complete a French master's degree program in tropical veterinary medicine. Her studies took her to Zimbabwe to work with a Boer goat production project. She returned to the US and began working with the USDA Veterinary Services in 1992. She has overseen many equine international imports and exports including the 1996 Olympic Games and the 1993 International World Pairs Driving Championships.*

Learn about your role as an accredited veterinarian in maintaining the health and well-being of animals and the public in the face of disease outbreaks.

Equine veterinarians who wish to maintain their USDA accreditation status, must complete 6 hours of USDA approved CE every 3 years. By attending this course, you will earn 1 USDA approved credit of CE.

**9:10 – 10:10 AM**  
**Seminar Room**

**Relevance & Impact of Common & Lesser Characterized Respiratory Viruses Associated with Upper Airway Disease (sponsored by Boehringer Ingelheim)**

**Nicola Pusterla, DVM, PhD, DACVIM**

*Dr. Pusterla graduated from the School of Veterinary Medicine at the Univ. of Zurich, Switzerland in 1991. He worked in the private and academic sector with a focus in large animal internal medicine. He earned his PhD from the Univ. of Zurich with an emphasis on vector-borne diseases. He joined UC Davis in 1998 where he currently holds an appointment as a Professor in Equine Internal Medicine. Dr. Pusterla is also Chief of the Large Animal Medicine Services at the Veterinary Medical Teaching Hospital at UC Davis. Dr. Pusterla's research focuses on selected aspects of equine infectious diseases with an emphasis on epidemiology, clinical disease understanding, diagnostics, prevention, and treatment.*

Infectious viral diseases involving the respiratory tract have been identified as some of the most common medical entities encountered by equine practitioners nationwide. EHV-1, EHV-4 and EIV are among the most common viruses recognized with infectious upper respiratory tract disease. It is likely that more comprehensive diagnostic efforts would identify agents in affected animals that tend to cause either less dramatic outbreaks or sporadic rather than epidemic disease (e.g. gamma herpes viruses, equine rhinitis viruses). This lecture will review the relevance and impact of common and lesser-characterized respiratory pathogens associated with IURD.

**Pimlico/Belmont**

**Diagnosis & Management of Bone & Soft Tissue Cysts (sponsored by Mid-Atlantic Equine Medical Center)**

**Florent David, DVM, MS, DACVS, DECVS, ECVDI Assoc.**

*Dr. David received his DVM in 2001 from the National Veterinary School of Lyon, France. He completed his internship, residency, and MS, followed by an Equine Surgery Staff position at the Univ. of Montreal, Canada, where his clinical research was mainly focused on the development of new ultrasound-guided injection techniques to access deep musculoskeletal anatomic structures. He then served as Senior Clinician at the Veterinary Hospital, Univ. of Dublin, Ireland from 2007-2014. He joined Mid-Atlantic Equine Medical Center in 2014.*

This interactive session will cover the approach to common and uncommon bone and soft tissue cysts. The diagnostic techniques, the pros and cons of conservative versus surgical management will be discussed using well-illustrated clinical cases.

**Aqueduct/  
Churchill**

**USDA Accreditation Module #12: Animal Disease Traceability (sponsored by USDA APHIS VS)**

**Anna C. Welsch, DVM**

*(see bio above)*

This course will give an overview of the USDA's Animal Traceability Rule, including the responsibilities of accredited veterinarians and species specific requirements.

Equine veterinarians who wish to maintain their USDA accreditation status, must complete 6 hours of USDA approved CE every 3 years. By attending this course, you will earn 1 USDA approved credit of CE.

**10:10 – 10:40 AM**

**Exhibit Area**

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

**10:45 – 11:45 AM**

**Seminar Room**

**Interpretation of Common Diagnostics for Equine Neurologic Diseases** (*sponsored by Merial*)

**Nicola Pusterla, DVM, PhD, DACVIM**

*(see bio above)*

Equine practitioners must be able to interpret the use, limitations and results of routine diagnostics as they are increasingly integrated into the diagnostic-work up of horses presented with neurological deficits. This lecture will review routine diagnostic tests (CSF analysis, serology, antigen detection, imaging modalities) used to support or rule out common neurological disorders.

**Pimlico/Belmont**

**Joint Ultrasonography to Keep a Step Ahead on Joint Disease** (*sponsored by Mid-Atlantic Equine Medical Center*)

**Florent David, DVM, MS, DACVS, DECVS, ECVDI Assoc.**

*(see bio above)*

Using a rich database of images and videos, the second part of this session will highlight the advantages of ultrasonography, a sometimes forgotten first-line imaging method for joint disease. Particularly when radiography does not provide a diagnosis, ultrasonography can be of precious help to practitioners to identify early signs of various synovial conditions in foals, yearlings and adult horses.

**Aqueduct/**

**Ensuring the Health & Well-Being of an Aging Equine Population** Churchill (*sponsored by Rutgers Equine Science Center*)

**Karyn Malinowski, PhD**

*Dr. Malinowski earned her PhD in Zoology from Rutgers Univ. She is the Founding Director of the Rutgers Equine Science Center at the New Jersey Agricultural Experiment Station (NJAES), and has been a faculty member at the School of Environmental and Biological Sciences in various roles since 1978. She played a lead role in building the equine science program at Rutgers and in the formation of the Rutgers Equine Science Center. Her research for 20 years has focused on the physiology of aging in horses and in documenting the importance of the New Jersey equine industry to agriculture and open space.*

More than 15% of the US equine population is over the age of 20 years and many of these animals continue to participate in athletic activities. This seminar will provide an overview of research being conducted to better understand the molecular mechanisms behind the adaptive response to exercise in older horses; which will aid in the development of exercise conditioning and nutritional strategies meant to preserve their health and well-being.

**11:50 A – 12:50 P**

**Seminar Room**

**Nutritional Support for Horses of Advancing Age** (*sponsored by Purina Animal Nutrition*)

**Mary Beth Gordon, PhD**

*Dr. Gordon earned her PhD in Equine Nutrition and Exercise Physiology from Rutgers University. Her graduate research focused on the effects of exercise on the hormonal regulation of appetite in horses and her work was the first to characterize the appetite stimulating hormone, ghrelin, in equine. She is published in numerous scientific journals and has co-authored chapters in textbooks such as Equine Sports Medicine and Surgery. She currently serves as Director of Equine Research and New Product Development for Purina Animal Nutrition.*

This talk will cover the research into senior feeds for horses from the past 20+ years and cover the physiological aspects of aging that can be influenced by nutrition and exercise. Specific medical conditions such as PPID, IR, EMS and choke will be discussed. New data showing how nutrition influences the inflamm-aging and immunosenescence conditions in aged horses will be addressed as well. Veterinarians will leave this talk with a better understanding of how to feed senior horses and make recommendations to their clients.

**Pimlico/Belmont**

**Flexor Apparatus Injuries in the Horse: Causation, Prevention and Rehabilitation**  
**(sponsored by Luitpold Animal Health)**

**Carl Kirker-Head, MA, VetMB, MRCVS, DACVS, DECVS**

*Dr. Kirker-Head received his degrees from the University of Cambridge, England. He is an orthopedic surgeon, equine sports medicine expert, and Associate Professor of Large Animal Medicine at the Cummings School of Veterinary Medicine at Tufts Univ. He currently serves as the Marilyn M. Simpson Chair in Equine Medicine and Director of the Orthopedic Research Laboratory. Dr. Kirker-Head's research interests include regenerative medicine, stem cell applications for musculoskeletal disease, spontaneous animal disease models, fracture repair, tendon and ligament injury, developmental orthopedic disease, laminitis, bone growth, remodeling, repair, inductive and mitotic proteins and bone and soft tissue mechanics, orthopedic device development and testing, implants, legwear and limb dynamics.*

Flexor apparatus injuries exert a substantial physical toll on our equine athletes and cost the equine economy as much as \$2 billion annually in North America. The majority of such injuries result from overstrain and repetitive motion trauma. Dr. Kirker-Head will expand on these statements and describe novel means of minimizing the likelihood of injury and optimizing recovery from flexor apparatus injury.

He will also describe recent research focusing on the development of legwear that can limit fetlock extension and associated flexor tendon and ligament stress/strain during exercise.

**Aqueduct/  
Churchill**

**Laser Therapy: Photobiomodulation – What You Need to Know About**  
**Safety, Effectiveness, Depth of Penetration & Mode of Action of Low Level Light**  
**Therapy (sponsored by Multi Radiance Medical)**

**Kenneth Kopp, DVM**

*Dr. Kopp completed his DVM at the Univ. of Missouri. He was the owner for many years of The Missouri Equine Hospital, where he was the attending veterinarian for the Anheuser Busch Clydesdale Breeding Farm. For the past 25 years, his career has been focused on the animal health industry: consulting with feed manufacturers, ingredient suppliers, medical device manufacturers, and veterinarians in the US and abroad. Currently, he is a consulting veterinarian for Brakke Animal Health, ESM Technologies, and Multi Radiance Medical.*

The clinical application of Therapeutic Cold Lasers (Photobiomodulation, Low Level Light Therapy) has been used for years in human medicine with more recent applications in veterinary medicine. This presentation will review the FDA Classifications, safety and research supporting efficacy, depth of penetration and modes of action. The research and anecdotal reports support the use of photobiomodulation in equine practice for pain relief and tissue healing. Practitioners will gain a better understanding of the terminology, classes of lasers, advantages and disadvantages, and how these devices can provide a new practice therapeutic revenue stream.

**12:50 – 2:30 PM**  
**Exhibit Area**

**Exhibitor Displays and Buffet Lunch (sponsored by Merck Animal Health and Sound**  
**Technologies)**

**2:30 – 3:30 PM**  
**Derby West**

**Equine Dermatology: Getting Started (sponsored by Kinetic Technologies)**

**Ann Rashmir-Raven, DVM, MS, DACVS, PGCVE, FHEA**

*Dr. Ann Rashmir earned her DVM degree from UC-Davis, followed by an internship at the Virginia-Maryland Regional College of Veterinary Medicine, a residency and Master's degree from Kansas State Univ., an orthopedic fellowship from North Carolina State Univ., and a post*

*graduate certificate from the Royal Veterinary College. She has been on faculty at Montana State Univ., Mississippi State, and now serves on the faculty at Michigan State Univ. Dr. Rashmir-Raven's clinical interests include equine dermatology, equine surgery and equine lameness. For the past 20 years her research focus has been on diseases of equine skin and joints.*

This lecture will provide a step-by-step review of case-centered techniques which will aid in the diagnosis and treatment of common equine skin conditions. The attending veterinarian will obtain the tools necessary to diagnose and treat a wide variety of common equine skin disorders.

#### **Derby East**

#### **Equine Acupuncture Case Studies (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, El Cajon, CA, an equine ambulatory practice with a special emphasis on sports medicine, acupuncture, chiropractic and dentistry. He 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.*

Dr. May will present equine acupuncture cases and ask for audience participation in an open discussion of both an acupuncture diagnosis and treatment for each case. This talk is directed more to those veterinarians who are already doing equine acupuncture, but those who are not can learn from watching and listening to how each case is approached.

#### **3:35 – 4:35PM**

#### **Derby West**

#### **Case Studies in Musculoskeletal Injuries: Diagnosis & Management, Part One (sponsored by Wedgewood Pharmacy)**

##### **Dean Richardson, DVM, DACVS**

*Dr. Richardson completed his DVM at Ohio State University. He has been on staff at New Bolton Center for 33 years, and currently serves as Chief of Large Animal Surgery and Charles W. Raker Professor of Equine Surgery at New Bolton Center, School of Veterinary Medicine, UPenn. He is an internationally recognized orthopedic surgeon whose research focuses on large animal surgery, equine emergency surgery, equine lower limb injury and cartilage repair. Dr. Richardson gained nationwide fame as a result of his role as head of Barbaro's medical team. Barbaro's owners paid tribute to Dr. Richardson by endowing a \$3 Million chair in his name dedicated to the study of equine disease.*

This talk will include case presentations of common and uncommon injuries in athletic horses. Some emphasis will be placed on state of the art imaging as well as newer surgical and regenerative medicine techniques.

#### **Derby East**

#### **Rules & Regulations for Major Sport Horse Organizations (USEF/FEI) Part One (sponsored by Zoetis)**

##### **Amy Poulin Braim, VMD, DACVS**

*Dr. Poulin earned her VMD from UPenn's School of veterinary medicine in 2004. She joined Mid-Atlantic Equine Medical Center as an Emergency Surgeon, followed by a surgical research position in the Global Surgery Group of J&J at Ethicon. She has been in clinical private practice as an Associate Equine Surgeon and Ambulatory Clinician at Running 'S' Equine Veterinary Services, and currently serves as an Equine Technical Services Veterinarian at Zoetis.*

A practical approach to navigating the seemingly complicated and evolving regulatory performance horse world with an overview of the judicious use of steroids and detection times in addition to vaccine strategies in the show horse will be presented.

#### **4:35 – 5:05 PM**

#### **Exhibit Area**

#### **Afternoon Break/Refreshments (sponsored by Kinetic Technologies, Nutrena and Patterson Veterinary)**

**5:05 – 6:05 PM**

**Derby West**

**Case Studies in Musculoskeletal Injuries: Diagnosis & Management, Part Two**  
*(sponsored by Wedgewood Pharmacy)*

**Dean Richardson, DVM, DACVS**

*(see bio and lecture summary above)*

**Derby East**

**Rules & Regulations for Major Sport Horse Organizations (USEF/FEI) Part Two**  
*(sponsored by Zoetis)*

**Amy Poulin Braim, VMD, DACVS**

*(see bio and lecture summary above)*

**6:15 – 7:30 PM**

**Exhibit Area**

**New! Welcome Reception for All Participants** *(sponsored by Merial and Patterson Veterinary)*

**FRIDAY, AUGUST 7**

**7:00 – 7:45 AM**

**Exhibit Area**

**Registration and Continental Breakfast**

**Trade Show Opens**

**7:45 – 8:45 AM**

**Derby West**

**Insight on the Use of Bisphosphonates in the Equine Practice** *(sponsored by Dechra Veterinary Products)*

**Robert Boswell, DVM**

*Dr. Boswell received his DVM from the Univ. of Florida, and has devoted his practice exclusively to equine medicine and surgery for 29 years. He has focused on sport horse medicine and surgery, lameness, advanced diagnostic imaging, and regenerative therapies, first, as a partner for 23 years at Palm Beach Equine, and currently in a private practice in Wellington, FL. He is the founder and first President of the Florida AEP, and is a founding member of the International Conference on Laminitis and Diseases of the Foot.*

This lecture will discuss the updates of bisphosphonates and their use in equine practice including the most recent approval of OSPHOS® (clodronate injection), the safety and efficacy of the product, information from the FOI, and case studies. Dr. Boswell will also discuss some comparisons with other bisphosphonates on the market as well as their use in other species.

**Derby East**

**Practical Clinical Nutrition: Solutions for Getting Foals Off to a Good Start and Ways to Avoid and Solve Problems in All Classes of Horses** *(sponsored by Cargill Animal Nutrition)*

**Emily Lamprecht, PhD**

*Dr. Lamprecht earned her PhD in Endocrinology and Animal Biosciences with an emphasis on equine nutrition and exercise physiology in 2009 from Rutgers Univ. After graduation she joined the Cargill Animal Nutrition Strategic Marketing & Technology team, and currently serves in the role of Technology Lead for Consumer Nutrition. Her primary responsibilities include formulation, managing research and new product development.*

Nutrition is the science of prevention and often an overlooked and underutilized tool when it comes to practicing veterinary medicine. This talk will cover practical tools and solutions for veterinarians who want to provide clients with effective, feasible solutions to prevent and solve problems, without having to be a nutrition expert. Topics covered will include prenatal and postnatal nutrition tips geared towards preventing and solving problems related to developmental disorders;

understanding forage analyses and using relative feed values to provide easy and effective nutrition consultations; insight into the importance and application of amino acid nutrition; why body condition scoring only tells part of the story; using topline evaluation, etc.

**8:50 – 9:50 AM**  
**Derby West**

**“Seeing Differently” – Spotlighting the Equine Eye (sponsored by Merck Animal Health)**

**Ann Dwyer, DVM**

*Dr. Dwyer is the co-owner of the Genesee Valley Equine Clinic, a full service equine practice near Rochester, NY. Since graduating with her DVM from Cornell University in 1983 she has cultivated a special interest in ophthalmology. She lectures widely, and has published numerous papers and book chapters on equine eye problems. In 2012, Dr. Dwyer was named an honorary member of the American College of Veterinary Ophthalmology (ACVO). She has also been a very active member of the American Association of Equine Practitioners during her career, serving as AAEP President in 2013.*

Not your father’s ophthalmology notes! Learn to really “see” everything that is inside the eyes of your patients. The lecture will use everyday objects as metaphors to explain key elements of ocular anatomy and physiology.

**Derby East**

**Improving Performance in the Mature Equine Athlete (sponsored by Nutramax)**

**Ann Rashmir-Raven, DVM, MS, DACVS, PGCVE, FHEA**

*(see bio above for Thursday, 2:30 – 3:30 lecture)*

Older, heavily campaigned performance horses often have multiple sources of lameness. This lecture will provide an overview of traditional pharmaceuticals, nutraceuticals and rehabilitation techniques that can be used to maintain or improve performance in these horses.

**9:55 – 10:55 AM**  
**Derby West**

**Botulism in Horses: What Have We Learned in the Last Ten Years? (sponsored by Neogen)**

**Amy Johnson, DVM, DACVIM-LAIM, DACVIM-Neurology**

*Dr. Johnson received her DVM from Cornell University in 2003. She then completed a Residency in Internal Medicine at Cornell and a Residency in Neurology at UPenn. One of only 3 veterinarians in the world to be board-certified in both large animal internal medicine and neurology, Dr. Johnson has been a clinician and lecturer at New Bolton Center since 2007. She currently serves there as Assistant Professor of Large Animal Medicine and Neurology in the Department of Clinical Studies.*

Botulism is an endemic disease in the mid-Atlantic region that can have devastating consequences, causing potentially fatal muscle weakness in horses. This talk will discuss recent research that has provided valuable information regarding the epidemiology, diagnosis, and treatment of botulism in horses.

**Derby East**

**Equine Gastric Glandular Disease: What Do We Really Know – Part One: Epidemiology & Pathophysiology (sponsored by Merial)**

**Hoyt Cheramie, DVM, MS, DACVS**

*Dr. Cheramie received his DVM degree from Louisiana State Univ. in 1993. He practiced in central Kentucky for a year then completed a large animal internship at the Univ. of Tennessee (1995) and a combined Large Animal Surgery Residency and Master’s program at the Virginia-Maryland Regional College of Veterinary Medicine (1998). From 1999 to 2007, he practiced performance horse medicine and surgery in the New Orleans, Atlanta and Chicago areas, working on horses in a variety of disciplines. He joined Merial in 2007 as a member of the Equine Veterinary Professional Services team, and now serves as Large Animal Veterinary Services Manager. Over his career, Dr. Cheramie has performed nearly 3,000 gastroscopic examinations across the US and consults globally with veterinarians on the management of EGUS.*

There is minimal published information on equine gastric glandular ulcers/disease (EGGD) when compared to equine gastric squamous ulceration. EGGD, a component of Equine Gastric Ulcer Syndrome, may be more frequently identified and less responsive to therapy than previously reported. These lectures will explore current thoughts on epidemiology, pathophysiology comparative aspects and management.

**10:55 – 11:25 AM**

**Exhibit Area**

**Morning Break/Refreshments (sponsored by Boehringer Ingelheim, Luitpold Animal Health, Merial and Patterson Veterinary)**

**11:25 – 12:25 AM**

**Derby West**

**Allergic and Immune Mediated Dermatitis (sponsored by Kinetic Technologies)**

**Ann Rashmir-Raven, DVM, MS, DACVS, PGCVE, FHEA**

*(see bio above for Thursday, 2:30 – 3:30 lecture)*

The clinical evaluation, diagnosis and treatment of allergic and immune mediated dermatitis in horses and donkeys will be discussed. Practical management of offending allergens will be covered in this talk.

**Derby East**

**Equine Gastric Glandular Disease: What Do We Really Know - Part Two: Comparative Aspects & Management (sponsored by Merial)**

**Hoyt Cheramie, DVM, MS, DACVS**

*(see bio and lecture summary above in Part One)*

**12:25 – 2:10 PM**

**Exhibit Area**

**Exhibitor Displays and Buffet Lunch (sponsored by Merck Animal Health and Platinum Performance)**

**2:10 – 3:10 PM**

**Derby West**

**New Technologies in Equine Veterinary Medicine: New Concepts to Two Old Equine Threats: EPM & Influenza (sponsored by Merck Animal Health)**

**Cynthia MacKenzie, DVM**

*Dr. MacKenzie received her DVM from Texas A&M University. She then worked as a veterinary associate for Mark Secor, DVM in San Juan Capistrano, CA, and at Rood & Riddle Equine Hospital. She was also the resident veterinarian for 700 horses at Lane's End Farm in Versailles, KY. In 2006, Dr. MacKenzie joined Merck Animal Health, where she currently serves as a Senior Equine Technical Services Veterinarian.*

This talk will cover the latest equine influenza data generated using a novel tissue explant model as well as present the most current pharmacokinetic and serology data on diclazuril which is used for the treatment of EPM.

**Derby East**

**Update on Intra-articular Therapies in Horses (sponsored by Neogen)**

**Wes Sutter, DVM, MS, DACVS**

*Dr. Sutter received his DVM from Colorado State University in 2000. After an internship at Rood & Riddle Equine Hospital, he completed a surgical residency at Ohio State University where he later served as an assistant professor in equine orthopedic surgery before entering private practice as a surgeon at Ocala Equine Hospital. After 5 years at Ocala, he co-founded Lexington Equine Surgery & Sports Medicine in Lexington, KY, the first practice in Lexington to focus on orthopedic surgery and sports medicine.*

This presentation will include a review of current therapies and an introduction to polyarylamide hydrogels and their possible role in the management of osteoarthritis.



**3:15 – 4:15 PM**  
**Derby West**

**Update on Infectious Disease Diagnostics: From the Field to the Laboratory – Part One (sponsored by Cornell Animal Health Diagnostic Center)**

**Tom Divers, DVM, DACVIM, DACVECC, Linda Mittel, DVM, MSPH & Sally Ness, DVM, DACVIM**

*Dr. Divers earned his DVM from the Univ. of Georgia, where he completed his residency and served as an assistant professor in the large animal medicine and ambulatory practice. He then moved to UPenn for 10 years where he was Associate Professor of Large Animal Medicine and Chief of the Section of Medicine at New Bolton Center. Currently, Dr. Divers is Professor of Medicine and co-Chief of the Section of Large Animal Medicine at Cornell Univ. Current research focuses on newly discovered hepatitis viruses in horses. Other research activities have included bacterial and toxic causes of liver failure in horses, equine neurological diseases including equine motor neuron disease and equine protozoal myelitis, equine Lyme disease, equine leptospirosis, diseases of the urinary system, and advances in internal medicine and critical care.*

*Dr. Mittel is a faculty member at the Cornell Animal Health Diagnostic Center where she is a Senior Extension Associate and part of the Veterinary Service Support group. She earned a MS in Public Health from the Univ. of NC at Chapel Hill, and received her DVM from Auburn Univ. She was an equine practitioner for 25+ years, and owned her own ambulatory practice for 18 years. She is also working on the epidemiology of novel equine Beta corona virus. She works closely with NY State Agriculture & Markets Animal Div. on equine regulatory issues. She is also responsible for the veterinary care and testing at NY State CEM quarantine facility at Cornell.*

*Dr. Ness is a large animal internal medicine specialist with clinical interests in equine and bovine neonatology, infectious disease, equine colic, and regenerative therapies for neurologic disease. She received her veterinary degree from Oregon State University. She completed an internship at Littleton Equine Medicine Center and was in private practice in Oregon before coming to Cornell for an internal medicine residency. She is presently pursuing a PhD at Cornell University.*

As a practitioner, keeping up with new diseases, diagnostic procedures and testing can be difficult. This presentation will help you go from the horse in the field to a diagnostic procedure, and then to the laboratory to obtain a diagnosis. Dr. Divers will discuss various infectious agents and their clinical signs including Anaplasma, Pigeon fever, EIA, Strangles, Leptospirosis, EPM, and novel equine agents. Dr. Ness will discuss and provide visual aids for the standing CSF tap. This technique can be invaluable for EPM CSF testing and other neurological cases. An aqueous humor taps will be shown and its importance in assisting in the diagnosis of certain equine uveitis conditions. Once the samples are obtained, Dr. Mittel will discuss what type of sample tubes/containers to use, what tests to request, how to ship and handle samples, and test interpretations.

**Derby East**

**Grazing: Nutritional Rewards & Laminitis Risks (sponsored by Rutgers Equine Science Center)**

**Carey Williams, PhD**

*Dr. Williams earned her doctorate and master's degrees with an emphasis on equine nutrition and exercise physiology from Virginia Polytechnic Institute and State Univ. She currently serves as Rutgers University Equine Extension Specialist and Associate Director of Extension in the Equine Science Center, where she has an active role in teaching, conducting research and working with the equine and academic communities to ensure the viability of the horse industry in NJ. At Rutgers, Dr. Williams maintains a herd of Standardbred horses for exercise physiology and grazing research.*

This talk will briefly cover the benefits of pasture for horses' overall nutritional needs. We will then focus on the 'metabolically challenged' horse who is very sensitive to changes in the pastures nutritional content specifically sugars and other soluble carbohydrates. If you have clients that are trying to manage their horse with laminitis or one that is borderline insulin resistant this talk will

help you make better recommendations for nutritional management and pasture turnout based on the latest research in this area.

**4:15 – 4:45 PM**

**Exhibit Area**

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

**4:45 – 5:45 PM**

**Derby West**

**Update on Infectious Disease Diagnostics: From the Field to the Laboratory – Part Two (sponsored by Cornell Animal Health Diagnostic Center)**

**Tom Divers, DVM, DACVIM, DACVECC, Linda Mittel, DVM, MSPH & Sally Ness, DVM, DACVIM**

*(see bios and lecture summary above in Part One)*

**Derby East**

**Intra-articular Corticosteroids in Performance Horses: A Practitioner's Perspective (sponsored by Luitpold Animal Health)**

**Gary White, DVM**

*Dr. White is a 1977 graduate of LSU School of Veterinary Medicine. He has practiced equine medicine for 38 years. He has been a contract pharmaceutical researcher for 34 years. Dr. White served as Vice President for Research and Development at Luitpold for 5 years. He currently own Sallisaw Equine Clinic and GCT Consulting Services, Inc. a pharmaceutical research and consulting company in Sallisaw, OK.*

Intra-articular corticosteroids remain a commonly used and valuable tool in the treatment of equine joint inflammation. More recent research has indicated that properly used IA corticosteroids have many positive effects on inflamed joints in equine athletes. Positive effects may be dependent on dose, frequency of administration, and choice of drug.