LECTURES
Wednesday, March 11 and Thursday, March 12, 2015
Sheraton Philadelphia Downtown Hotel
Philadelphia, PA

WET LABS
Friday, March 13, 2015
Penn Vet’s Ryan Hospital
Philadelphia, PA

REGISTER NOW
www.vet.upenn.edu/PAC2015
Advance registration through Wednesday, February 25, 2015
CONTINUING EDUCATION CREDIT

The Penn Annual Conference provides the following clock hours of continuing education, as per Section 31:16 of the Pennsylvania Code. The Conference is also an approved sponsor of continuing education for veterinarians and veterinary technicians within the state of New York.

- Full Conference Registration, March 11 and 12: 15 credits
- Wednesday, March 11 lectures only: 8 credits
- Thursday, March 12 lectures only: 7 credits
- Lunch with the Experts (extra fee): 1 credit

REGISTRATION

Advance Registration
Register through a secure online transaction at www.vet.upenn.edu/PAC2015 or mail the registration form in the back of this booklet with your payment postmarked by or received online by 11:59 PM on February 25, 2015. Registrations postmarked after this date will not be processed. Confirmation will be e-mailed to you if your registration is processed online only; no confirmations will be sent via regular mail. Cancellations are accepted in writing until 5:00 p.m. on February 25, 2015; refunds will be made minus a $25 cancellation fee.

On-site Registration
After February 25, 2015 (additional $50 fee applies)
Register on-site at the Sheraton during the following times:
- Tuesday, March 10, 2015 – 5:00 PM to 7:00 PM
- Wednesday, March 11, 2015 – 6:30 AM to 6:00 PM
- Thursday, March 12, 2015 – 6:30 AM to 12:00 PM

EXHIBIT HALL

Our exhibitors add an aspect of quality, informational services, and support that benefits the entire veterinary profession. Please visit them during the course of your day. The Hall will be open on Wednesday, March 11, 2015 from 8:00 AM to 6:00 PM and on Thursday, March 12, 2015 from 7:00 AM to 4:00 PM.

CONFERENCE MEALS

A continental breakfast will be served from 7:00 AM to 9:00 AM on Wednesday for all registrants. On Thursday, all attendees are invited to attend Breakfast with the Exhibitors in the Exhibit Hall, beginning at 7:00 AM. Refreshments will be served during mid-morning and afternoon breaks in the Exhibit Hall for all attendees. The Keynote Luncheon on Wednesday, March 11 is complimentary, but pre-registration is required. For those not attending the Keynote Luncheon or the Young Alumni Luncheon or Lunch with the Experts, lunch is on your own.

JOB NETWORKING AND INTERVIEW ROOM

A dedicated room will be available at the Sheraton for prospective employers to conduct interviews or speak with potential candidates during the Penn Annual Conference. There will also be a bulletin board set up near the registration for job postings.

The Office of Student and Curricular Affairs also administers the Veterinary Employment Database, www.vet.upenn.edu/jobsearch, where prospective employers can post opportunities and where candidates can search open positions. Only listings requiring a graduate degree in veterinary medicine (VMD/DVM) are accepted. Listings remain active and accessible for six months after they are posted, and can be browsed by date, type of practice, region, or type of employer. There is no charge to list positions or to view them.

PROGRAM UPDATES

For any Conference updates following publication of this booklet, please visit the Penn Annual Conference web page at www.vet.upenn.edu/PAC2015. If you have any questions or need more information, please call (215) 746-2421 or email penn-conference@vet.upenn.edu.

CONFERENCE VENUE

Sheraton Philadelphia Downtown Hotel
201 North 17th Street
Philadelphia, PA 19103

Reservations
Hotel reservations may be made at the preferred rate of $165 for a single or double room or $185 for a triple or quad room. To book a room at this discounted rate, visit www.starwoodmeeting.com/Book/2015PennVetAnnual or call the Sheraton reservation line at 1-800-325-3535 by February 16, 2015, and mention “Penn Vet Annual 2015.” The discounted room rate is available from Monday, March 9 through Friday, March 13, based on availability.

Amenities
Located in the heart of Center City Philadelphia, the Sheraton is within walking distance of an exciting array of restaurants, theaters, museums, and shops. The hotel features an indoor swimming pool and fitness center.

Restaurants
The Sheraton Philadelphia Downtown Hotel features the Lobby Lounge and Restaurant, which offers American cuisine for lunch and dinner. The Terrace Café is open for breakfast daily and room service is also available.

TRAVEL

Public Transportation
You are strongly encouraged to take public transportation to the Conference. The Hotel is easily accessible from the city and its suburbs via SEPTA (www.septa.org) and from New Jersey via the PATCO High Speed Line (www.drpa.org/patco). All of SEPTA’s Regional Rail Lines stop at Suburban Station, 16th Street and John F. Kennedy Boulevard, which is located within walking distance of the hotel. From New Jersey, take PATCO to the 15-16th and Locust Streets station and walk or take a taxi to the hotel.

Parking
Conference registration does not include parking. The Sheraton offers limited self-parking and valet parking. A discounted daily parking rate of $20 is available for registrants who park in the hotel lots. The parking ticket must be validated at the registration desk prior to departing. For other parking options near the hotel, please visit www.philapark.org (these garages are not affiliated with the hotel, and therefore, not eligible for a discounted rate).

Train
Amtrak and Acela provide extensive service to Philadelphia’s 30th Street Station (30th and Market Streets).

Airport
Located eight miles from Center City, Philadelphia International Airport is served by all major domestic carriers. Taxi service and public transportation via SEPTA is available.

SPECIAL ACCOMMODATIONS

If you require special accommodations, please call (215) 746-2421 or e-mail penn-conference@vet.upenn.edu.
Welcome

Penn Vet is pleased to present the 115th Penn Annual Conference. Please plan to join us for one of the largest annual gatherings of veterinary colleagues, alumni, friends, and clients. Our team of Penn Annual Conference educational coordinators has compiled a comprehensive program full of valuable information that you can incorporate into your practice. You can also build and rebuild connections to colleagues and Pennsylvania’s only veterinary school.

During the 2015 conference, you will gain CE credits while expanding your knowledge of veterinary medicine in diverse areas such as behavior, dermatology, emergency & critical care, ophthalmology, exotics, endocrinology, and surgery. Tracks for equine veterinarians, food animal veterinarians, and veterinary technicians also will be offered. The Wednesday Keynote Presentation and Luncheon, sponsored by Zoetis, will feature our distinguished speaker, Dr. Valarie Tynes, President-Elect of the American College of Veterinary Behaviorists, on Abnormal Repetitive Behaviors: Where Medical and Behavior Problems Meet. The Keynote lunch is FREE for all registered attendees and is a wonderful gathering at which to celebrate the year together.

You are also invited to join us for several networking and socializing opportunities, including the Wednesday evening Dean’s Reception, sponsored by Best Pet Rx, where you can connect with your colleagues and enjoy complimentary cocktails and hors d’oeuvres. On Thursday, I hope you will attend the annual Lunch with the Experts, featuring individual roundtable discussions with several of our speakers. Our recent alumni from 2005-2014 are invited to a complimentary luncheon on Thursday, as well. You will also have time to explore the Exhibit Hall, which will feature information, displays, and demonstrations from a variety of companies and organizations. On Friday, we invite you to participate in our small animal wet labs and workshops at Penn Vet’s Ryan Hospital, on topics including oral examinations and dental charting, CO2 laser surgery, dental surgery for tooth extraction, and cytology skills.

We look forward to seeing you in March, as we come together to share knowledge and information for our professional development.

Sincerely,

Joan Hendricks, VMD, PhD
The Gilbert S. Kahn Dean of Veterinary Medicine
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<tr>
<td>8:00 AM</td>
<td>Diagnostics for Dermatologic Cases</td>
<td>Appropriate Use of Steroids in the ER and ICU: When Steroids Can Make a Difference</td>
<td>Renal Failure and the Reptile: It's Not Just For Cats Anymore</td>
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<td>Dr. David Duclos</td>
<td>Dr. Elisa Mazzeferro</td>
<td>Dr. Leigh Clayton</td>
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<td><strong>LIGHT BREAK</strong></td>
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<td>9:15 AM</td>
<td>How To Work Up a Pruritic Dog</td>
<td>Emergency Approach to the Patient with Head and Spinal Trauma</td>
<td>Exotic Animal Behavioral Health: Using Behavioral Science to Improve Welfare</td>
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<td>Dr. David Duclos</td>
<td>Dr. Elisa Mazzeferro</td>
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<td><strong>ENERGY BREAK</strong></td>
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<td>10:45 AM</td>
<td>Update on Canine Atopy</td>
<td>Hyperthermia and Heat-Induced Illness</td>
<td>Oral Care in Reptiles</td>
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<td>Dr. David Duclos</td>
<td>Dr. Elisa Mazzeferro</td>
<td>Dr. Leigh Clayton</td>
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<td><strong>LIGHT BREAK</strong></td>
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<td>12:00 PM</td>
<td>Pododermatitis:</td>
<td>Too Hot to Touch! Smoke Inhalation and Burn Injury</td>
<td>Amphibians Need Us Too!</td>
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<td>Part 1</td>
<td>Dr. David Duclos</td>
<td>Dr. Leigh Clayton</td>
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<tr>
<td>1:00 PM</td>
<td><strong>KEYNOTE PRESENTATION AND LUNCHEON</strong> Sponsored by Zoetis</td>
<td>Abnormal Repetitive Behaviors: Where Medical and Behavior Problems Meet</td>
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<td>Pododermatitis:</td>
<td>Speaker: Dr. Valarie Tynes, President-Elect, American College of Veterinary Behaviorists</td>
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<td>Dr. David Duclos</td>
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<td>2:15 PM</td>
<td>The Critically Ill Blocked Cat</td>
<td>The Behavior of the Pet Ferret</td>
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<td>Dr. Erica Reineke</td>
<td>Dr. Valarie Tynes</td>
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<td>3:45 PM</td>
<td>CO2 Laser in Dermatology: Part 1</td>
<td>Not So Acute Kidney Injury</td>
<td>Behavior of Small Pet Rodents</td>
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<td>Dr. David Duclos</td>
<td>Dr. Deborah Silverstein</td>
<td>Dr. Valarie Tynes</td>
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<td>5:45 PM</td>
<td>CO2 Laser in Dermatology: Part 2</td>
<td>Difficult Upper Airway Obstruction Cases</td>
<td>The Behavior of the Pet Rabbit</td>
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<td>Dr. David Duclos</td>
<td>Dr. Dana Clarke</td>
<td>Dr. Valarie Tynes</td>
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<td>6:00 PM</td>
<td>DEAN’S RECEPTION Sponsored by Best Pet Rx</td>
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**Wednesday, March 11**
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<tr>
<th>Veterinarian Technician</th>
<th>Equine</th>
<th>Food Animal</th>
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<tbody>
<tr>
<td><strong>No Pain, No Gain? Physiology of Pain and Assessment in Small Animals</strong></td>
<td>Advances in Equine Ophthalmic Surgery: Part 1</td>
<td>Industry Trends</td>
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<tr>
<td>David Liss, RVT</td>
<td>Dr. Catherine Nunnery</td>
<td>Dr. David Galligan</td>
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**LIGHT BREAK**

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<tr>
<th>Equine</th>
<th>Food Animal</th>
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<tr>
<td><strong>Morphine, Fentanyl, Methadone... Oh My! Opioids 101</strong></td>
<td>Precision Dairy Technology</td>
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<tr>
<td>David Liss, RVT</td>
<td>Dr. Marcia Endres</td>
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**ENERGY BREAK**

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<tr>
<td><strong>Inflammation is a Pain! Block It With NSAIDS (101)</strong></td>
<td>Precision Dairy Technology (Part II)</td>
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<tr>
<td>David Liss, RVT</td>
<td>Dr. Marcia Endres</td>
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<tr>
<td><strong>Putting It All Together: Creating a Pain Management Plan</strong></td>
<td>Interpretation of In-Line Milk Data</td>
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<tr>
<td>David Liss, RVT</td>
<td>Dr. James Ferguson</td>
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**KEYNOTE PRESENTATION AND LUNCHEON**

**Sponsored by Zoetis**

Abnormal Repetitive Behaviors: Where Medical and Behavior Problems Meet

**Speaker:** Dr. Valarie Tynes, President-Elect, American College of Veterinary Behaviorists

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<tr>
<td><strong>Triage STAT: Emergency Approach to the Trauma Patient</strong></td>
<td>Diagnosis and Management of Kissing Spines in the Equine Athlete</td>
<td>Regulations for Farms</td>
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<tr>
<td>Dr. Elisa Mazzeferro</td>
<td>Dr. Jose Garcia-Lopez</td>
<td>Mr. Frank Schneider</td>
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<tr>
<td><strong>Canine Parvoviral Enteritis: What's New?</strong></td>
<td>Opportunities for Vets</td>
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<td>Dr. Elisa Mazzeferro</td>
<td>Dr. James Ferguson</td>
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<tr>
<td><strong>Stranger Danger, Fear Related Aggression in Dogs</strong></td>
<td>Industry Resources</td>
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<tr>
<td>Marcia Rafter Ritchie, LVT</td>
<td>Dr. Andy Skidmore, MERCK</td>
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<td>Dr. Andy Holloway, ELANCO</td>
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<td>Dr. Rob Lynch, ZOETIS</td>
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**DEAN'S RECEPTION**

**Sponsored by Best Pet Rx**

www.vet.upenn.edu/PAC2015  PAC  | 5
# Thursday, March 12

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<thead>
<tr>
<th>Time</th>
<th>Ophthalmology</th>
<th>Endocrinology</th>
<th>Surgery</th>
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<tbody>
<tr>
<td>8:00 AM to 9:00 AM</td>
<td>Red Eye in Dogs: So Many Diseases, So Little Time!</td>
<td>Novel Therapies for Diabetes Mellitus: Novel Insulin Formulations and Beyond</td>
<td>Advances in Thoracoscopic Surgery</td>
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<td></td>
<td>Dr. Gillian McLellan</td>
<td>Dr. Chen Gilor</td>
<td>Dr. Jeffrey Runge</td>
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<td>9:00 AM</td>
<td>LIGHT BREAK</td>
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<td></td>
<td>Dr. Gillian McLellan</td>
<td>Dr. Chen Gilor</td>
<td>Dr. Kimberly Agnello</td>
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<td>9:45 AM</td>
<td>Ophthalmic Imaging: Seeing the Unseen</td>
<td>Insulin Resistance in the Diabetic Cat: Acromegaly and Hypercortisolism</td>
<td>Cranial Cruciate Ligament Disease: Treatment Options</td>
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<td>Dr. Gillian McLellan</td>
<td>Dr. Chen Gilor</td>
<td>Dr. Kimberly Agnello</td>
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<td>10:45 AM to 11:45 AM</td>
<td>Ophthalmic Imaging: Seeing the Unseen</td>
<td>Diagnosis of Hypercortisolism</td>
<td>Non-Surgical Treatment Options of Osteoarthritis</td>
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<td>Dr. Gillian McLellan</td>
<td>Dr. Chen Gilor</td>
<td>Dr. Cara Blake</td>
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<td>12:00 PM to 1:00 PM</td>
<td>Understanding the Fundus: Is THAT Normal?</td>
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<td>Dr. Gillian McLellan</td>
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<td>1:00 PM to 2:15 PM</td>
<td>LUNCH WITH THE EXPERTS (additional fee applies; 1 extra CE credit)</td>
<td>Diagnosis of Hypercortisolism</td>
<td>Non-Surgical Treatment Options of Osteoarthritis</td>
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<td>Behavior Dr. Valarie Tynes &gt; Dermatology Dr. David Duclos &gt; Endocrinology Dr. Rebecka Hess &gt; Equine Medicine</td>
<td>Dr. Chen Gilor</td>
<td>Dr. Cara Blake</td>
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<td>Dr. Linda Dahlgren &gt; Exotic Companion Animal Medicine Dr. Leigh Clayton &gt; Food Animal Medicine Mr. Walt Moore on “Successful Dairy Farms” &gt; Ophthalmology Dr. William Crumley &gt; Surgery Dr. Lillian Aronson</td>
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<td>YOUNG ALUMNI LUNCHEON (for recent Penn Vet graduates – 2005 to 2014)</td>
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<td>2:15 PM to 3:15 PM</td>
<td>Canine Cataract Management</td>
<td>Improving Trilostane Treatment in Dogs with Hyperadrenocorticism</td>
<td>Urinary Tract Trauma</td>
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<td>Dr. William Crumley</td>
<td>Dr. Rebecka Hess</td>
<td>Dr. Lillian Aronson</td>
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<td>ENERGY BREAK</td>
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<td>3:45 PM to 4:45 PM</td>
<td>Dealing with Dry Eye: Tips on Providing Chronic Relief for Dogs</td>
<td>Diabetic Ketoacidosis in Cats</td>
<td>Urinary Tract Interventional Radiology</td>
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<td>Dr. William Crumley</td>
<td>Dr. Rebecka Hess</td>
<td>Dr. Dana Clarke</td>
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<td>5:00 PM to 6:00 PM</td>
<td>Feline Keratoconjunctivitis: Diagnosis and Management of Ocular Surface Disease in Cats</td>
<td>Radioactive Iodine (I131) Treatment for Feline Hyperthyroidism – Is It Still the Treatment of Choice?</td>
<td>The Role of Hemodialysis in Renal Disease and Beyond</td>
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<td>Dr. William Crumley</td>
<td>Dr. Ariel Mosenco</td>
<td>Dr. JD Foster</td>
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## Thursday, March 12

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<th>Veterinary Technician</th>
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<tr>
<td><strong>Acquisition and Basic Interpretation of Electrocardiograms</strong>&lt;br&gt;Ed Durham, CVT</td>
<td><strong>Regenerative Medicine: Why All the Hype?</strong>&lt;br&gt;Dr. Linda Dahlgren</td>
<td><strong>Dairy Sustainability</strong>&lt;br&gt;Mr. Tim Beck</td>
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### LIGHT BREAK

| Do You Hear What I Hear?<br>Heart Sounds for Everyone<br>Ed Durham, CVT | **Understanding Regenerative Medicine Therapies**<br>Dr. Linda Dahlgren | **Veterinary Involvement**<br>Mr. Tim Beck |

### ENERGY BREAK

| **A Review of Congenital Heart Conditions**<br>Ed Durham, CVT | **What is the Evidence to Support Using Regenerative Medicine Therapies in Your Practice**<br>Dr. Linda Dahlgren | **Programs & Opportunities**<br>Center for Dairy Excellence |

### LIGHT BREAK

| **My Dog’s Bad Teeth Gave Him Heart Disease: The Rest of the Story**<br>Ed Durham, CVT | **How to Incorporate Regenerative Medicine Therapies in Your Practice**<br>Dr. Linda Dahlgren | **Successful Profit Teams**<br>Dr. James Lawhead<br>Mr. Walt Moore |

### LUNCH WITH THE EXPERTS (additional fee applies; 1 extra CE credit)

| Behavior Dr. Valarie Tynes  Dermapatology Dr. David Duclos  Endocrinology Dr. Rebecka Hess  Equine Medicine Dr. Linda Dahlgren  Exotic Companion Animal Medicine Dr. Leigh Clayton  Food Animal Medicine Mr. Walt Moore on "Successful Dairy Farms"  Ophthalmology Dr. William Crumley  Surgery Dr. Lillian Aronson |

| **YOUNG ALUMNI LUNCHEON** (for recent Penn Vet graduates – 2005 to 2014) |

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<tr>
<td><strong>Cranial Cruciate Ligament Rupture in Dogs</strong>&lt;br&gt;Ali O'Rourke, CVT</td>
<td><strong>Abstracts</strong>&lt;br&gt;Dr. David Levine and Penn Vet Surgery Residents</td>
<td><strong>FARM Evaluation</strong>&lt;br&gt;Dr. Meggan Hain</td>
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### ENERGY BREAK

| **A “Pot Purr Ri” of Cat Behavior Problems**<br>Marcia Rafter Ritchie, LVT | **CT Imaging of the Equine Patient**<br>Dr. Eric Parente | **Veterinary Adaptations to a Changing Industry**<br>Dr. Amanda Kilby<br>Dr. James Lawhead<br>Dr. Darcie Stolz<br>Dr. Robert Stoltzfus |

### ENERGY BREAK

| **A “Pot Purr Ri” of Dog Behavior Problems**<br>Marcia Rafter Ritchie, LVT | **CT Guided Orthopedic Surgery**<br>Dr. Dean Richardson | **Veterinary Adaptations to a Changing Industry (Part II)**<br>Dr. Amanda Kilby<br>Dr. James Lawhead<br>Dr. Darcie Stolz<br>Dr. Robert Stoltzfus |
KIMBERLY AGNELLO, DVM, DACVS
Assistant Professor of Small Animal Surgery > Penn Vet > Ryan Hospital > Philadelphia, PA
Dr. Agnello graduated from Cornell University College of Veterinary Medicine in 2001 and completed a rotating internship at the Oradell Animal Hospital in Paramus, NJ in 2002. After spending time as a general practitioner in Buffalo, NY, she completed a post-doctoral small animal orthopedic research fellowship at the University of Georgia and then went on to complete a small animal surgery residency at the University of California-Davis in 2007. Dr. Agnello’s interests include all aspects of musculoskeletal disease and surgery, but most notably minimally invasive orthopedic surgery, including arthroscopy and fracture repair.

LILIAN ARONSON, VMD, DACVS
Renal Transplant Program Founder and Coordinator > Penn Vet > Ryan Hospital > Philadelphia, PA
After completing veterinary school and an internship at Penn Vet, Dr. Aronson completed a small animal surgical residency at the University of California-Davis. From 1994 to 1996, she was coordinator of the veterinary renal transplantation program at Davis. Following her residency, she joined the Penn Vet faculty and started its renal transplantation program. Her areas of clinical and research interest include cardiovascular surgery, portosystemic shunts, endourology and microvascular surgery, in particular, renal transplantation.

TIM BECK, MS
Extension Educator > Agricultural Business Management > Penn State Extension > Cumberland County
Mr. Beck holds an M.S. in Ruminant Nutrition from Kansas State University and a B.S. in Animal Bioscience from Penn State University. His specializations include Dairy Profitability and Management, as well as, Business Planning and Analysis. Mr. Beck’s major program efforts are identifying bottlenecks to dairy profitability and farm business plans and business evaluation.

CARA A. BLAKE, DVM, DACVS-SA, CCRT
Assistant Professor > Small Animal Surgery > Penn Vet > Ryan Hospital > Philadelphia, PA
After completing veterinary school at The Ross University School of Veterinary Medicine, Dr. Blake completed a rotating internship in small animal medicine and surgery at Angell Animal Medical Center. She then went on to complete a small animal surgery residency in a joint program with The Ross University School of Veterinary Medicine and the Angell Animal Medical Center. Prior to veterinary school, she worked for Genetics Institute/Wyeth on the development of rhBMP-2 for the acceleration of fracture healing and osteoporosis therapies. Her areas of clinical and research interest include bone biology, fracture repairs, angular limb deformities, minimally invasive surgery, osteoarthritis, and peri-operative and chronic pain management.

THE CENTER FOR DAIRY EXCELLENCE
The Center for Dairy Excellence is a non-profit organization initiated by the Pennsylvania Department of Agriculture in 2004. Bringing together people from more than 40 different dairy organizations in Pennsylvania, the Center’s mission is to enhance the profitability of the dairy industry by empowering people, creating partnerships, and increasing the availability and use of resources.

DANA CLARKE, VMD, DACVECC
Staff Veterinarian > Interventional Radiology and Critical Care > Penn Vet > Ryan Hospital > Philadelphia, PA
Dr. Clarke graduated from Penn Vet in 2006. After graduation, she completed a one-year rotating internship at Michigan State University, followed by a residency in emergency/critical care at Penn Vet. Upon completion of her residency in 2010, she did a one-year fellowship in Interventional Radiology at the Hospital of the University of Pennsylvania. Since completing the fellowship, she divides her time between patient care in the ICU and ER and interventional radiology within the section of surgery. Her interests include better understanding of the progression and physiology of tracheal collapse, interventional oncology, and management of benign and malignant ureteral obstructions.

LEIGH CLAYTON, DVM, DABVP (AVIAN AND REPTILE/AMPHIBIAN)
Director of Animal Health > National Aquarium > Baltimore, MD
Dr. Clayton attended Tufts University Cummings School of Veterinary Medicine and completed a variety of post-graduate training, including a surgery internship at Friendship Hospital for Animals in Washington, DC, a zoo and aquarium medicine internship at the Lincoln Park Zoo and John G. Shedd Aquarium in Chicago, IL, and an avian and exotic animal medicine and surgery residency at Angell Animal Medical Center in Boston, MA. Her current professional interests include applied behavior analysis application to captive animal management, leadership skills development for veterinarians, renal disease management in captive herptiles, and amphibian conservation medicine. She has worked at the National Aquarium for the past 10 years.
ED DURHAM, CVT, LATG, VTS (CARDIOLOGY)
Senior Veterinary Technician > University of Missouri Veterinary Medical Teaching Hospital > Columbia, MO
Mr. Durham has been the cardiology technician for 17 years at the University of Missouri-Columbia Veterinary Medical Teaching Hospital and a credentialed veterinary technician for 29 years. He works exclusively with cardiac patients, and is involved with cardiac catheterization procedures, echocardiography, pacemaker implantation and technology management, and other aspects of clinical cardiology. Mr. Durham is also the Director at Large of Cardiology for the Academy of Internal Medicine for Veterinary Technicians.

JAMES D. FERGUSON, BA, MS, VMD
Section Chief, Animal Production > New Bolton Center > Kennett Square > Professor of Nutrition > Penn Vet > Philadelphia
Dr. Ferguson graduated from Penn Vet in 1981. He is a member of the American College of Veterinary Nutritionists and the American College of Theriogenologists. Dr. Ferguson’s research focuses on the relationship between nutrition and manure nutrient content on dairy farms and efficient recycling of nutrients on dairy farms; the development of computer models to aid in farm management of nutrition, nutrient management, and reproduction; the relationships between nutrition, reproduction, and production in dairy cattle; and the relationships between diet and immune function in dairy cattle.

JD FOSTER, VMD
Staff Veterinarian > Internal Medicine > Penn Vet > Ryan Hospital > Philadelphia, PA
Dr. Foster graduated from Penn Vet in 2007. After a year in small-animal private practice, he then completed an internship in Connecticut, followed by an internal medicine residency at the University of Wisconsin. His primary interest is nephrology, particularly dialysis and extracorporeal blood purification. He is the director of the Penn Vet Extracorporeal Therapy Service and is involved in several research projects focusing on patients with kidney disease.

DAVID T. GALLIGAN, BA, VMD, MBA
Professor of Animal Health Economics > Penn Vet > New Bolton Center > Kennett Square, PA
Dr. Galligan graduated from Penn Vet in 1981 with his VMD and was a resident in the Penn Vet Clinical Nutrition program. In 1985, he received his MBA from the Wharton School with a focus on decision sciences. Dr. Galligan’s research focus is to understand the economic value of veterinary issues in animal production. His area of academic interest is in the economic cost of animal diseases as well as management and production inefficiency on modern animal production systems. He is well versed in economic optimization strategies as well as techniques used to manage economic risk (portfolio theory).
JOSE GARCIA-LOPEZ VMD, DACVS, DACVSMR  
*Director of Equine Sports Medicine > Tufts University Cummings School of Veterinary Medicine > North Grafton, MA*

Dr. Garcia-Lopez obtained his VMD from Penn Vet in 1996 and went on to complete a one-year equine internship at Mid-Atlantic Equine Medical Center in Ringoes, NJ, followed by a three-year large animal surgical residency with a special focus on equine sports medicine at Tufts University. Following his residency, he obtained a lecturer position in the section of equine sports medicine and imaging at Penn Vet’s New Bolton Center. In 2002, he returned to Tufts University Cummings School of Veterinary Medicine as an assistant professor in large animal surgery, and in 2010, was promoted to associate professor. While at Tufts, he has continued to concentrate his work in the diagnosis and management of musculoskeletal disorders as well as the use of advanced imaging in the equine athlete. In 2010, he also became a faculty member of AO VET North America.

CHEN GILOR, DVM, PHD, DACVIM  
*Assistant Professor > The Ohio State University College of Veterinary Medicine > Columbus, OH*

Dr. Gilor received his DVM in 1997 from the Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, Israel. In 2005, he completed an internship at the Animal Medical Center in New York. He then moved to the University of Illinois, where he completed a small animal internal medicine residency in 2008 and received his PhD in 2010. Dr. Gilor worked for two years as an internal medicine consultant for IDEXX Laboratories in the UK (2010 – 2012). Since 2012, he has served as an assistant professor in the Department of Veterinary Clinical Sciences at The Ohio State University.

MEGGAN HAIN, BS AG, DVM  
*Marshak Dairy Coordinator > Penn Vet > New Bolton Center > Kennett Square, PA*

As coordinator of the Marshak Dairy, Dr. Hain oversees teaching and research at Marshak Dairy, and as staff veterinarian she manages the medical care and health of the Holstein herd. She received her DVM from The Ohio State University in 2004.

REBECKA HESS, DVM  
*Professor and Chief > Section of Medicine > Penn Vet > Ryan Hospital > Philadelphia, PA*

Dr. Hess received her DVM in 1992 from the Hebrew University of Jerusalem in Israel. She completed an internship in small animal medicine in 1994 and a residency in small animal internal medicine in 1996, both at Penn Vet. Dr. Hess, the director of the Penn Vet Diabetes Program, has received several research and teaching awards. Her research and publications focus is on diabetes mellitus and other endocrinopathies in dogs and cats.

ANDY HOLLOWAY, DVM  
*Technical Consultant Manager > Elanco > Darlington, MD*

Dr. Holloway was raised on a diversified family farm in Darlington, MD. He attended Virginia Tech from 1990 to 1998 where he acquired a BS and DVM. Dr. Holloway practiced large animal veterinary medicine in southeastern PA for 6 years. From 2004 to 2006 he provided technical and sales support for a large private label milk replacer company. He is currently employed as a Technical Consultant for Elanco Animal Health, serving dairies in the Northeastern U.S. His professional interests include: dairy calf and heifer health, nutrition and management, cow comfort and reproductive management, dairy facility design, and finding new innovative solutions to on farm problems.

AMANDA KILBY, VMD, MA  
*Associate Dairy Veterinarian > Dairy Veterinary Services > Ashburton > New Zealand*

Dr. Kilby grew up on a 500 cow farm on the east code of the United States. She studied Animal Science, Plant Science, and Agriculture Education at the University of Delaware, and received her VMD from Penn Vet in 2012. In 2013, she attained a Certificate of Proficiency in Ruminant Nutrition from Massey University in New Zealand. Her professional interests include dairy nutrition, farm worker training, and animal health economics.

JAMES LAWHEAD, VMD  
*Dr. Lawhead graduated from Penn Vet with his VMD in 1987. He came to Millerstown Veterinary Associates straight after veterinary school. His large animal professional interests are in dairy cattle reproduction and nutrition and dairy cattle production medicine. Regarding the small animal aspect of his work, he enjoys small animal orthopedic surgery and soft tissue surgery.*

DAVID LEVINE, DVM, DACVS  
*Staff Surgeon > Penn Vet > New Bolton Center > Kennett Square, PA*

Dr. Levine received his DVM from the Tufts University Cummings School of Veterinary Medicine in 2004. He completed a large animal surgery internship and residency at Penn Vet. His clinical specialty is large animal surgery and his research areas include diagnosis and treatment of orthopedic infections, long bone fracture repair, distraction osteogenesis, laser surgery, and nuclear scintigraphy. He currently serves as a Staff Surgeon at Penn Vet’s New Bolton Center. Dr. Levine is a Diplomate of the American College of Veterinary Surgeons-Large Animal Surgery.
Mr. Liss has a diverse background in the field of veterinary technology. He worked for many years in general practice and emergency facilities, and in 2007, graduated from Occidental College in Los Angeles with a BA in sociology and became a licensed RVT. He is a double board-certified veterinary technician specialist in emergency and critical care and small animal internal medicine. In 2012, he obtained his certified veterinary practice manager credential and is pursuing the certified veterinary pain practitioner credential. He is also currently pursuing a master’s in biomedical science, set to finish in 2016. He has been a technician manager at two different twenty-four hour referral/specialty facilities in the Los Angeles area and was awarded the Veterinary Technician Educator of the Year Award in 2012 by the Western Veterinary Conference.

Dr. Mazzaferro became board certified by the American College of Veterinary Emergency and Critical Care in 2002, and received her PhD in small animal clinical sciences from Colorado State University in 2002. Since that time, she has authored more than 30 manuscripts and book chapters and has been the author and co-author of four textbooks on the subject of fluid therapy and emergency and critical care. She is an active participant on the Scientific Program Committee ofIVECCS, and is the current President-Elect of ACVECC.

Dr. McLellan graduated from Glasgow University in 1990 and worked in practice for a few years before moving to London, where she completed a PhD and served as a lecturer in ophthalmology. In 2000, she joined the faculty at the University of California-Davis, then Iowa State, before settling in at the University of Wisconsin, where she currently holds faculty positions in both the medical and veterinary schools. A European specialist in veterinary ophthalmology, Dr. McLellan is the immediate past-president of ECVO, serves on the editorial board of the journal Veterinary Ophthalmology, and has co-authored two textbooks. Her main research focus is comparative glaucoma.

With 25 years of experience in her role at Penn Vet, Ms. Miller is a guest lecturer within the core dental course. She teaches basic dentistry in the form of rounds and wet labs to students rotating through the dental and oral surgery service and is also active in clinical dental cases and research projects. Ms. Miller has authored and co-authored several dental articles and textbook chapters.

Mr. Moore is the owner of Walmoore Holsteins a large dairy farm and milk transport company in Chatham in Chester County, PA, that has been in his family for 104 years. In recent years, he started working with New Bolton Center’s CAHP veterinarians to improve his farm operations. He has been able to increase his herd size to 850 cows from 600, and to increase milk production by 20 pounds of milk per cow per day as a result of the collaboration.

Dr. Mosenco graduated from the Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, Israel in 1998, where he also completed a rotating small animal internship. In 2003, he completed his residency in small animal internal medicine at Penn Vet, becoming a diplomate of the ACVIM and serving as a staff member in the internal medicine department ever since. In July 2014, he also completed a residency in nutrition. Dr. Mosenco is currently the head of the program of radioactive iodine therapy for hyperthyroidism at Penn Vet.

Dr. Nunnery is a 2005 graduate of the Virginia-Maryland Regional College of Veterinary Medicine. She completed a Rood and Riddle Equine Hospital internship in 2006 and a veterinary ophthalmology residency at the University of Florida in 2009. Prior to starting at Penn Vet, she worked for VCA Veterinary Referral Associates and Equine Veterinary Vision.

www.vet.upenn.edu/PAC2015  PAC | 11
Jeffrey Runge, DVM, DACVS
Assistant Professor of Minimally Invasive Surgery > Penn Vet > Ryan Hospital > Philadelphia, PA
Dr. Runge specializes in companion animal surgery, focusing primarily on laparoscopic and thoracoscopic minimally invasive surgery. Through ongoing collaboration with leading human laparoscopic surgeons, Dr. Runge and Penn Vet have become one of the leaders in veterinary reduced port surgery. By utilizing newer human laparoscopic single site techniques such as Single Port Access, Single Incision Laparoscopic Surgery, and Laparoendoscopic Single-Site Surgery, his group continues to expand on minimally invasive surgery for today’s companion animals. Dr. Runge is an active member of the veterinary endoscopy society, as well as three human laparoscopic surgical societies – Society of Gastrointestinal Endoscopic Surgeons, the Reduced Port Surgical Group, and the International Pediatric Endosurgery Group.

Michael Ross, DVM, DACVS
Professor of Surgery > Penn Vet > New Bolton Center > Kennett Square, PA
Dr. Ross received his veterinary degree from Cornell University in 1981. His research areas include equine joint disease, equine orthopedic and arthroscopic surgery, lameness, equine diagnosis and management, equine musculoskeletal system, and a special interest in racehorse lameness.

Eric Parente, DVM, DACVS
Professor of Surgery > Penn Vet > New Bolton Center > Kennett Square, PA
Dr. Parente received his veterinary degree from Cornell University, and then completed an internship at Rood and Riddle Equine and his surgical residency at New Bolton Center. He received his board certification from the American College of Veterinary Surgeons in 1994 and has specialized in upper respiratory evaluations and surgery.

Marcia Rafter Ritchie, LVT, CPDT, VTS-Behavior
Director of Training and Behavior > The Family Companion > Buffalo, NY
Ms. Ritchie graduated from SUNY Delhi with an AAS in Veterinary Science in 1977. She worked in private veterinary practices for 20 years, where her passion for animal behavior was cultivated by the veterinarians she worked with. She has been a professional pet obedience instructor in the Buffalo, NY area since 1984. Ms. Ritchie was in the first group of 120 instructors to receive national certification through the Association of Pet Dog Trainers (APDT), of which she is a charter member. She is a member of the organizing committee of the Academy of Veterinary Behavior Technicians, which was granted specialty status by National Association of Veterinary Technicians of America (NAVTA) in 2008. Marci was also a contributor to the text book publication of Canine and Feline Behavior for Veterinary Technicians and Nurses.

Erica Reineke, VMD, DACVECC
Assistant Professor of Emergency and Critical Care Medicine > Penn Vet > Ryan Hospital > Philadelphia, PA
Dr. Reineke received her VMD from Penn Vet in 2002 and then completed a rotating internship in small animal medicine and surgery followed by a residency in emergency and critical care medicine at Penn Vet. Her clinical and research interests include continuous glucose monitoring and glycemic control. She has published book chapters in Silverstein and Hoppers’ Small Animal Critical Care Medicine textbook.

Alexander M. Reiter, DPl. TZT., Dr. Med. Vet., Davdc, Evdc
Section Chief, Dentistry and Oral Surgery Service > Penn Vet > Ryan Hospital > Philadelphia, PA
Dr. Reiter graduated from the University of Veterinary Medicine in Vienna, Austria in 1996. He completed a dentistry and oral surgery residency at Penn Vet in 2000 and became a Diplomate of the American Veterinary Dental College and European Veterinary Dental College in 2001. His interests include tooth resorption, periodontal surgery, oral and maxillofacial surgery (trauma and oncology), palate surgery, maxillofacial reconstruction, microsurgery (free microvascular tissue transfer), oral manifestation of systemic disease, and systemic manifestation of oral disease.

Dean Richardson, DVM, DACVS
Chief of Large Animal Surgery and Charles W. Raker Professor of Equine Surgery > Penn Vet > New Bolton Center > Kennett Square, PA
Dr. Richardson received his DVM from The Ohio State University School of Veterinary Medicine in 1979. He completed a rotating internship and residency in large animal medicine and surgery at Penn Vet and postgraduate training in the Division of Rheumatology at Thomas Jefferson University. His clinical specialty is large animal orthopaedic surgery and his research area is osteoarthritis, stem cells, and gene therapy. Dr. Richardson currently serves as the Charles W. Raker Professor of Equine Surgery and the Chief of Large Animal Surgery at Penn Vet’s New Bolton Center. He is a Diplomate of the American College of Veterinary Surgeons.

Marcia O'Rourke, CVT
Orthopedic Nurse and Coordinator > Penn Vet > Ryan Hospital > Philadelphia, PA
Ms. O’Rourke joined Penn Vet in 2009, working in both anesthesia and orthopedic surgery. She graduated from Penn State University with a bachelor’s degree, later becoming certified as a veterinary technician. Ms. O’Rourke is currently working towards a master’s degree in public health, focusing on the impact of animals on society and human health.
FRANK SCHNEIDER
PA State Conservation Commission

As Nutrient & Odor Management Programs Director, Mr. Schneider oversees the implementation of the Nutrient Management Program in Pennsylvania. He provides technical, administrative and programmatic guidance to program participants, district staff and boards, the press, agriculture industry representatives and the general public. He oversees program policy and regulation development and future program direction. Mr. Schneider also assists with the legal issues related to the program and activities involving the Environmental Hearing Board.

DEBORAH SILVERSTEIN, DVM, DACVECC
Associate Professor of Critical Care > Penn Vet > Ryan Hospital > Philadelphia, PA

Dr. Silverstein received her veterinary degree from the University of Georgia in 1997. She completed a rotating small animal internship at the University of Georgia followed by a residency in small animal emergency and critical care at the University of California-Davis. She began working in the ICU at Penn Vet’s Ryan Hospital that same year and worked as a staff veterinarian until becoming an assistant professor of critical care in 2005. She received the promotion to associate professor in July 2012. Her primary areas of interest include shock fluid therapy, the pathogenesis of sepsis and septic shock, and microcirculatory changes in critically ill animals.

MADHU SIRIVELU-PRABHAKAR, BVSC, PHD, DACVP
Lecturer in Clinical Pathology > Penn Vet > Philadelphia, PA

Dr. Sirivelu graduated veterinary school from Madras Veterinary College, Chennai, India in 2004. He came to the United States to obtain his PhD from the Comparative Medicine and Integrative Biology Program at Michigan State University. He then continued on to a clinical pathology residency from 2008 to 2011. Dr. Sirivelu is interested in diagnostic hematology and cytology with emphasis on bone marrow disease. His research interests include developing molecular tools and biomarkers in cancer diagnosis.

ANDREW SKIDMORE, DVM, PHD
Global Technical Director for Ruminant Reproduction and Parasite Control > Merck Animal Health > Summit, NJ

Dr. Skidmore received his DVM in Veterinary Medicine from Kansas State University in 1984 and his PhD in Dairy Management with minors in Nutrition and Epidemiology from Cornell University in 1990. He has represented the American Dairy Science Association on the Federation of Animal Science Societies Scientific Advisory Committee on Food Safety, Animal Drugs and Animal Health since 2007.

DARIE STOLZ, VMD
Owner > Dairy Production Medicine Associates > Lancaster, PA

Dr. Stolz received her VMD from Penn Vet in 1982. She has owned and managed her own veterinary practice since 1989, developing it into a predominantly dairy practice with an emphasis on herd health and production medicine programs. Dr. Stolz completed the Dairy Production Medicine Certificate Program offered jointly by Penn State and the University of Pennsylvania in 1994. She is a member of the American Veterinary Medical Association (AVMA), American Association of Bovine Practitioners (AABP) and Pennsylvania Veterinary Medical Association (PVMA), serving as a member of the Ag Liaison Committee for the PVMA since 1989. She has also served as representative for PVMA to the PA State Council of Farm Organizations.

ROBERT STOLTZFUS, VMD
Lancaster Veterinary Associates

Dr. Stoltzfus received his VMD from Penn Vet in 1979. Lancaster Veterinary Associates is a private business providing veterinary, herd production medicine, nutritional, and feed management planning services to dairy producers in Lancaster, Lebanon, Berks, York, and Cumberland counties. Their business is almost exclusively with dairy producers.

VALARIE TYNES, DVM, DACVB
Veterinary Behavior Consultant > Premier Veterinary Behavior Consulting > Sweetwater, TX

Dr. Tynes is a native Texan and received her DVM from Texas A&M University. She completed her residency in clinical animal behavior at the University of California-Davis in 2003 and has worked in private practice, both as an associate, a relief veterinarian, and a practice owner. Her special interests include animal behavior problems, miniature pigs, and other exotic pets. She has authored numerous articles and chapters on the care of miniature pet pigs in addition to a variety of other behavior-related topics. She is the editor of The Behavior of Exotic Pets and co-editor of the behavior issue of the Veterinary Clinics of North America: Small Animal Clinics, released in May 2014.
Wednesday, March 11

**COMPANION ANIMAL**

**DERMATOLOGY**

8:00 AM – 9:00 AM  
Dr. David Duclos  
**Diagnostics for Dermatologic Cases**  
The use of diagnostic stains, how they work, cytology, skin scrapings, skin biopsies, when to do and how to get diagnostic results will be discussed.

9:15 AM – 10:15 AM  
Dr. David Duclos  
**How to Work Up the Pruritic Dog**  
This lecture will include a discussion on the five steps to working up a pruritic patient, including history, diagnostics, treatments, and the importance of re-checks.

10:45 AM – 11:45 AM  
Dr. David Duclos  
**Update on Canine Atopy**  
The history of atopy in veterinary medicine, the important concepts in the mechanisms of atopy, the treatments, and where we have been, where we are now, and where we are going will be discussed.

12:00 PM – 1:00 PM  
Dr. David Duclos  
**Pododermatitis: Part 1**  
The main causes of pododermatitis in dermatology will be discussed, including demodicosis, bacterial, neoplasia, allergic, immune-mediated, nutritional, congenital, metabolic, and traumatic causes.

2:15 PM – 3:15 PM  
Dr. David Duclos  
**Pododermatitis: Part 2**  
This lecture is a continuation of the previous hour with a focus on interdigital follicular cysts.

3:45 PM – 4:45 PM  
Dr. David Duclos  
**CO2 Laser in Dermatology: Part 1**  
This lecture will cover the history of lasers in veterinary medicine, how the lasers work, and cases where the CO2 laser is either better than the traditional knife or where nothing else will treat the disease process.

5:00 PM – 6:00 PM  
Dr. David Duclos  
**CO2 Laser in Dermatology: Part 2**  
This is a continuation of the discussion from the previous hour.

**COMPANION ANIMAL**

**EMERGENCY AND CRITICAL CARE**

8:00 AM – 9:00 AM  
Dr. Elisa Mazzeferro  
**Appropriate Use of Steroids in the ER and ICU: When Steroids Can Make a Difference**  
Glucocorticosteroids are one of the most widely abused classes of drugs in small animal medicine to date. The widespread use of steroids for the treatment of head injury, spinal trauma, and “shock” fell out of favor over a decade ago, yet continues to this day. Discussion of prospective studies that use steroids for treatment of sepsis and hypovolemic shock, as well as current indications for use of steroids in the emergent and critical small animal patient will be reviewed.

9:15 AM – 10:15 AM  
Dr. Elisa Mazzeferro  
**Emergency Approach to the Patient with Head and Spinal Trauma**  
A patient with head and spinal trauma can present a diagnostic and therapeutic challenge in the emergency room. Frequently, hypovolemic shock and vital organ hypoperfusion can limit accurate assessment of a patient’s neurologic status until adequate hemodynamic resuscitation has occurred. In addition, the potential to cause further harm when performing diagnostic testing is a very real concern. The diagnostic and treatment approach to the patient with head and/or spinal trauma will be discussed.

10:45 AM – 11:45 AM  
Dr. Elisa Mazzeferro  
**Hyperthermia and Heat-Induced Illness**  
A patient with severe hyperthermia and heat-induced illness can quickly succumb to organ failure if interventions are not instituted rapidly. Global organ damage can occur minutes to hours to days after the primary insult. The treatment and monitoring of a patient with severe heat stroke will be discussed.

12:00 PM – 1:00 PM  
Dr. Elisa Mazzeferro  
**Too Hot to Touch! Smoke Inhalation and Burn Injury**  
Animals who have sustained injuries in a fire often require immediate life-threatening interventions for survival. The pathophysiology of smoke inhalation and carbon monoxide intoxication and treatment, including oxygen supplementation and airway therapy, will be discussed. If a patient also has sustained burn or thermal injuries, wound assessment and management also is critical to long-term prognosis and survival.

2:15 PM – 3:15 PM  
Dr. Erica Reineke  
**The Critically Ill Blocked Cat**  
This session will discuss the stabilization and treatment of the critically ill blocked cat, including initial fluid therapy, treatment of cardiac arrhythmias, and the use of a sacral-coccygeal epidural to facilitate urinary catheter placement and analgesia. Updates on the most current information regarding preventing recurrence of urethral obstruction will be discussed.

3:45 PM – 4:45 PM  
Dr. Deborah Silverstein  
**Not So aCute Kidney Injury**  
This lecture will review the current terminology and definitions for acute kidney injury, potential etiologies of renal insult, diagnosing the patient with kidney injury, and treatment options for these often critical patients. A case example will be provided.

5:00 PM – 6:00 PM  
Dr. Dana Clarke  
**Difficult Upper Airway Obstruction Cases**  
Upper airway obstructions in veterinary patients are common life threatening emergencies; the cause of which can be difficult to determine due to the need for immediate intervention and often limited patient tolerance for diagnostics. Clinical dilemmas in difficult upper airway obstruction cases will be used to guide discussion about the disease processes and management of these patients.
COMPANION ANIMAL

EXOTIC COMPANION ANIMAL MEDICINE

8:00 AM – 9:00 AM
Dr. Leigh Clayton
Renal Failure and the Reptile: It’s Not Just for Cats Anymore
This lecture will review clinically relevant physiology, potential etiologies, diagnostic measures, and management options for reptiles with renal disease. Attendees will gain the knowledge needed to provide expanded support to animals and their caregivers. For experienced reptile veterinarians, this will provide a good review. For those looking to expand their reptile practice, this will increase your confidence in managing reptile cases in general and renal cases in particular.

9:15 AM – 10:15 AM
Dr. Leigh Clayton
Exotic Animal Behavioral Health: Using Behavioral Science to Improve Welfare
Attendees will get a basic review of behavior analysis, the cross-species study of behavior change, and how this can be productively applied when working with any species to improve welfare and health. Specific focus will be placed on the basics of preventing and managing behavior problems and training new behavior. Veterinarians will leave with a few tools they can start applying right away to help support behavioral health in their patients.

10:45 AM – 11:45 AM
Dr. Leigh Clayton
Oral Care in Reptiles
Oral disease is common but often underappreciated. Just as with mammals, reptile welfare is negatively impacted by undetected oral disease. Increased attention to oral health will not only improve animal welfare, but can be a practice builder, as well. Attendees will become familiar with comparative anatomy, major disease categories, and appropriate diagnostic and management options in order to maximize their provision of care. Both experienced clinicians and those new to reptile medicine will have something to take away.

12:00 PM – 1:00 PM
Dr. Leigh Clayton
Amphibians Need Us Too!
Amphibian medicine is growing quickly, unfortunately pushed in part by the need to provide exemplary care for critically endangered species. This lecture is an interesting way to improve your general amphibian clinical acumen using the common condition of amphibian edema. Come learn more about these amazing animals and be part of improving their captive care. Attendees will learn about clinically relevant physiology, disease etiologies, and treatment options in order to expand your clinical practice. Amphibians really do need us too!

COMPANION ANIMAL

BEHAVIOR

2:15 PM – 3:15 PM
Dr. Valarie Tynes
The Behavior of the Pet Ferret
Many misconceptions exist about the ferret; behavior complaints by pet owners are not uncommon. This presentation will cover normal ferret social behavior, eliminative behavior, and the more commonly reported behavior problems. Proper housing and enrichment will be covered as it pertains to the prevention and treatment of many problem behaviors.

3:45 PM – 4:45 PM
Dr. Valarie Tynes
Behavior of Small Pet Rodents
Several species of rodents can make excellent pets, but when pet owners voice complaints, it is usually the behavior of the pet rodent that precipitates the complaint. This presentation will focus on the behavioral similarities and differences between the different rodent species commonly kept as pets. Natural history and social behavior will be covered along with information about handling and housing so as to prevent some of the common behavioral complaints.

5:00 PM – 6:00 PM
Dr. Valarie Tynes
The Behavior of the Pet Rabbit
Rabbits can make excellent pets, but many of the traditional methods of housing them are inconsistent with their natural history and social structure. This presentation will cover the normal behaviors of the rabbit and how they have been shaped by evolution. In addition, proper housing and handling will be covered as well as guidelines for preventing and treating some of the more common problem behaviors of the pet rabbit.
Sessions and Descriptions

Wednesday, March 11

**VETERINARY TECHNICIAN**

8:00 AM – 9:00 AM
David Liss, RVT
**No Pain, No Gain? The Physiology of Pain Assessment in Small Animals**

Technicians are invaluable as patient advocates for pain management. In order to treat pain, we must understand it first. This lecture will cover the physiology of pain. Why does it hurt? What good (and bad?) does it serve? Once that has been discussed, the exact nature of the pain assessment will be discussed so attendees will be better prepared to perform assessments and report an objective number (1-4) on their patients in relation to the pain scale.

9:15 AM – 10:15 AM
David Liss, RVT
**Morphine, Fentanyl, Methadone… Oh My! Opioids 101**

Most veterinary technicians give an opioid medication every day. Pre-meds, for pain, trauma, etc. But how do they work? What are the differences? What is the big deal? This talk will focus exclusively on opioids – what they are, how they work, and how they differ. Real case examples as to how to use them will be presented.

10:45 AM – 11:45 AM
David Liss, RVT
**Inflammation is a Pain! Block it With NSAIDS!**

Non-steroidal anti-inflammatory drugs are some of the most powerful analgesics (anti-inflammatory) we have in our arsenal. But how does inflammation create pain? How do NSAIDs work? What is the difference between carprofen, deracoxib, and meloxicam? And what about this Onsior® stuff? Come learn about NSAIDs and how to “safely” add them to your arsenal.

12:00 PM – 1:00 PM
David Liss, RVT
**Putting It All Together: Creating a Pain Management Plan**

Once the veterinary technician is proficient in pain physiology and assessment, pharmacotherapeutics, and other techniques, they are ready to create pain plans. This talk will focus on several cases, approaches to the patient, and considerations for creating pain plans. Adjunctive modalities like local blocks and physical therapy will also be discussed.

2:15 PM – 3:15 PM
Dr. Elisa Mazzeferro
**Triage STAT: Emergency Approach to the Trauma Patient**

In any traumatized small animal patient, maintenance of oxygen delivery to vital organs and treatment of shock need to be addressed. The emergency approach to Airway, Breathing, and Circulation can include interventions such as thoracocentesis, appropriate fluid therapy, and analgesia in addition to performing diagnostic tests and therapeutic monitoring. Treatment and diagnostic priorities will be discussed to optimize the potential for success.

3:45 PM – 4:45 PM
Dr. Elisa Mazzeferro
**Canine Parvoviral Enteritis: What’s New?**

Patients with parvoviral enteritis can potentially be a diagnostic challenge early in the course of the disease, as well as a therapeutic challenge with respect to maintaining fluid, oncotic, and electrolytes balance. A historical perspective of parvoviral enteritis, including discussion of newer virus variants, colloid and crystalloid fluid support, use of antiemetics and antibiotics, and other therapies that work and don’t work will be discussed.

5:00 PM – 6:00 PM
Marica Rafter Ritchie, LVT
**Stranger Danger: Fear-Related Aggression in Dogs**

Stranger Danger is a complete look into a common behavior problem in dogs, fear of people. The origins of fear, triggers, management and hands on therapies will be discussed in detail. You will learn to identify conflict behaviors and read body language of fearful dogs. Reducing stress in these pets and keeping staff members safe in the Veterinary practice will be covered. A real life case of Stranger Danger from start to finish will also be included.

Pennsylvania Veterinary Specialty and Emergency Associates

Hickory Veterinary Hospital

State of the art Small Animal Practice with a Veterinarian on premises 24/7

Emergency and Critical Care
Open 24 Hours a day 7 days a week
Wednesday, March 11

EQUINE

8:00 AM – 9:00 AM
Dr. Catherine Nunnery
Advances in Equine Ophthalmic Surgery: Part 1
This presentation will cover advances in corneal surgery. Corneal grafting, corneal transplants, keratectomy, and keratotomy will be the primary focus.

9:15 AM – 10:15 AM
Dr. Catherine Nunnery
Advances in Equine Ophthalmic Surgery: Part 2
This presentation will cover advances in non-corneal ophthalmic surgery. Surgery for uveitis, glaucoma, cataracts, periocular neoplasia, and other conditions will be discussed.

10:45 AM – 11:45 AM
Dr. Elizabeth Davidson, Dr. Jose Garcia-Lopez, and Dr. Michael Ross
Lameness Panel
This panel is a case-based discussion of horses with lameness problems. A variety of cases that are challenging to diagnosis, treat, and/or manage will be discussed. Audience interaction is encouraged.

12:00 PM – 1:00 PM
Dr. Elizabeth Davidson, Dr. Jose Garcia-Lopez, and Dr. Michael Ross
Lameness Panel
This panel will continue to discuss horses with lameness problems.

2:15 PM – 3:15 PM
Dr. Jose Garcia-Lopez
Diagnosis and Management of Kissing Spines in the Equine Athlete
The purpose of this presentation is to discuss the diagnosis and management of impingement and overriding of the dorsal spinous processes, better known as “kissing spines.” We will discuss the use of traditional and advanced imaging modalities that we use at our hospital in our work up of cases with back pain, including their pros and cons. The presentation will also discuss available medical and surgical treatment options, with a special emphasis on the description and our experience performing interspinous ligament desmotomy.

3:45 PM – 4:45 PM
Dr. Jose Garcia-Lopez
Diagnosis and Management of Conditions Affecting the Navicular Bursa
The purpose of this presentation is to discuss the diagnosis and management of navicular syndrome in equine athletes. We will discuss traditional and advanced imaging modalities such as radiography, nuclear scintigraphy, ultrasound, and MRI. The presentation will also discuss the pros and cons of both medical and surgical treatment options available such as intra-articular/bursal medications, the use of biphosphonates (Tildren and Osphos), and navicular bursoscopy.

5:00 PM – 6:00 PM
Dr. Jose Garcia-Lopez
Diagnosis and Management of Conditions Affecting the Equine Stifle Joint
The purpose of this presentation is to discuss the diagnosis and management of conditions affecting the stifle joints, with the exception of OCD lesions and patellar/collateral desmopathy. We will discuss the benefits and limitations of both common and advanced diagnostic modalities such as radiography, ultrasound, nuclear scintigraphy, MRI and arthroscopy, as well as our experience managing conditions such as cartilage erosions, subchondral bone cysts (SBCs), and meniscal injuries.

FOOD ANIMAL

8:00 AM – 9:00 AM
Dr. David Galligan
Industry Trends

9:15 AM – 10:15 AM
Dr. Marcia Endres
Precision Dairy Technology

10:45 AM – 11:45 AM
Dr. Marcia Endres
Precision Dairy Technology (Part II)

12:00 PM – 1:00 PM
Dr. James Ferguson
Interpretation of In-Line Milk Data

2:15 PM – 3:15 PM
Mr. Frank Schneider
Regulations for Farms

3:45 PM – 4:45 PM
Dr. James Ferguson
Opportunities for Vets

5:00 PM – 6:00 PM
Dr. Andy Skidmore, MERCK
Dr. Andy Holloway, ELANCO
Dr. Rob Lynch, ZOETIS
Industry Resources
Thursday, March 12

COMPANION ANIMAL

OPHTHALMOLOGY

8:00 AM – 9:00 AM
Dr. Gillian McLellan
Red Eye in Dogs: So Many Diseases, So Little Time!
This session will focus on the basic approach to differential diagnosis of common canine ocular problems.

9:15 AM – 10:15 AM
Dr. Gillian McLellan
Glaucoma: How Do You Recognize It? Why Does It Happen? What Can You Do?
This session will focus on the basic to intermediate clinical overview of glaucoma.

10:45 AM – 11:45 AM
Dr. Gillian McLellan
Ophthalmic Imaging: Seeing the Unseen
Diagnostic imaging options for the eye and how they can be used to diagnose various orbital diseases will be discussed.

12:00 PM – 1:00 PM
Dr. Gillian McLellan
Understanding the Fundus: Is That Normal?
An overview of ocular fundus anatomy and how to understand what you see with an ophthalmoscope will be presented.

2:15 PM – 3:15 PM
Dr. William Crumley
Canine Cataract Management
This lecture will discuss and review canine cataracts with a focus on tips for diagnosis, surgical options, and nonsurgical options.

3:45 PM – 4:45 PM
Dr. William Crumley
Dealing with Dry Eye: Tips on Providing Chronic Relief for Dogs
This lecture will cover chronic management of canine dry eye, including discussion of medication options, neurogenic KCS, and parotid duct transposition.

5:00 PM – 6:00 PM
Dr. William Crumley
Feline Keratoconjunctivitis: Diagnosis and Management of Ocular Surface Disease in Cats
Surface corneal and conjunctiva disease in cats with an emphasis on diagnosis and management of eosinophilic keratitis and herpesvirus will be discussed.

COMPANION ANIMAL

ENDOCRINOLOGY

8:00 AM – 9:00 AM
Dr. Chen Gilor
Novel Therapies for Diabetes Mellitus: Novel Insulin Formulation and Beyond
This lecture will discuss the background to diabetes therapy, including diet, exercise, and traditional insulin formulations. We will also cover synthetic insulin analogs, such as glargine, detemir, and degludec. Incretin-based therapies, including exenatide, exenatide extended release, and liraglutide also will be discussed.

9:15 AM – 10:15 AM
Dr. Chen Gilor
Diabetes Mellitus: Monitoring Therapy
Lecture topics will include the background on diabetes mellitus (pathogenesis, diabetes remission, and diagnosis) and monitoring therapy (fructosamine, glucose curves, and continuous glucose monitoring).

10:45 AM – 11:45 AM
Dr. Chen Gilor
Insulin Resistance in the Diabetic Cat: Acromegaly and Hypercortisolism
The background on insulin resistance and its causes and diagnosis will be discussed along with hypercortisolism and acromegaly in cats.

12:00 PM – 1:00 PM
Dr. Chen Gilor
Diagnosis of Hypercortisolism
Hypercortisolism (Cushing’s syndrome) in regards to when it should be suspected and when diagnostic tests should be considered will be discussed. The lecture will also review tests for diagnosis and the differentiation of pituitary from adrenal dependent disease. Topics such as dexamethasone suppression tests, ACTH stimulation, urine corticoid:creatinine ratio, endogenous ACTH, and imaging will be covered.

2:15 PM – 3:15 PM
Dr. Rebecka Hess
Improving Trilostane Treatment in Dogs with Hyperadrenocorticism
This talk will review standard protocols for trilostane treatment of dogs with hyperadrenocorticism and will review potential difficulties and strategies for overcoming these problems. The talk will also highlight a new clinically relevant study investigating a new approach to trilostane treatment monitoring.

3:45 PM – 4:45 PM
Dr. Rebecka Hess
Diabetic Ketoacidosis in Cats
This lecture will highlight new findings related to diabetic ketoacidosis in cats, including risk factors, treatment, and outcome of cats with this disease entity.

5:00 PM – 6:00 PM
Dr. Ariel Mosenco
Radioactive Iodine (I131) Treatment for Feline Hyperthyroidism: Is It Still the Treatment of Choice?
Should we recommend I131 treatment for all hyperthyroid cats? Should we do a Tapazole treatment trial before I131 treatment? Is there any new information about radioactive treatment and recommended monitoring post treatment? What do we know about Hills Science Diet Y/D? This lecture will answer these questions for you.
COMPANION ANIMAL

SURGERY

8:00 AM – 9:00 AM
Dr. Jeffrey Runge
Advances in Thoracoscopic Surgery
This presentation will discuss recent cutting-edge advancements in veterinary thoracoscopic surgery. We will highlight advanced tumor imaging using near infrared fluorescence as well as other advanced surgical oncological techniques, such as sternal nodal removal and pericardiectomy for heart base tumors.

9:15 AM – 10:15 AM
Dr. Jeffrey Runge
Minimally Invasive Abdominal Surgery: What Procedures are Possible for Today’s Patients?
This presentation will review all of the most advanced modalities for abdominal access in clouding reduced port surgery. We will discuss in detail many of the single port devices and how they can be used in every laparoscopic abdominal procedure. We will focus primarily on the use of the SILS port with articulating instrumentation for basic and advanced procedures.

10:45 AM – 11:45 AM
Dr. Kimberly Agnello
Cranial Cruciate Ligament Disease: Treatment Options
This presentation will cover the anatomy of the canine stifle joint and the major functions of the intra-articular structures, along with the pathophysiology of cranial cruciate ligament disease. Treatment options will be discussed with potential benefits and complications. The current available studies comparing treatment options will be reviewed.

12:00 PM – 1:00 PM
Dr. Cara Blake
Non-Surgical Treatment Options of Osteoarthritis
This lecture will discuss pathogenesis, diagnosis, and non-surgical treatment options of osteoarthritis in small animal patients.

2:15 PM – 3:15 PM
Dr. Lillian Aronson
Urinary Tract Trauma
Urinary tract trauma in dogs and cats can involve the kidneys, ureters, bladder, or urethra and has been associated with automobile accidents or falls, penetrating wounds secondary to bites, gunshot wounds and penetrating foreign bodies, trauma related to the presence of obstructive or irritating calculi, and iatrogenic trauma secondary to surgical trauma, urethral catheterization, or bladder expression. This lecture will discuss clinical signs, diagnostics, initial stabilization, and treatment recommendations for patients that have sustained trauma to the urinary tract.

3:45 PM – 4:45 PM
Dr. Dana Clarke
Urinary Tract Interventional Radiology
Obstructions of the urinary tract in veterinary medicine are notoriously difficult to manage due to patient size, the degree of compromise present at the time of diagnosis, and long term options which are tolerable to the patient and owners. With the recent advances in interventional techniques for the urinary tract, including ureteral stenting for strictures, stones, and obstructive neoplasia, subcutaneous ureteral bypass, and urethral stenting for luminal or extra-luminal obstructions, minimally invasive options now exist to maximize patient comfort and quality of life.

5:00 PM – 6:00 PM
Dr. JD Foster
The Role of Hemodialysis in Renal Disease and Beyond
An overview of the role of hemodialysis in renal disease and toxicities will be presented. Particular emphasis will be placed on knowing when to refer patients for dialysis, as well as tips to help prevent your patients from needing it.
Thursday, March 12

VETERINARY TECHNICIAN

8:00 AM – 9:00 AM
Edward Durham, CVT
Acquisition and Basic Interpretation of Electrocardiograms
The electrocardiogram (ECG) is the best method for diagnosing and characterizing cardiac arrhythmias, and as such, it is a common test done in all veterinary practices. Proper technique for collecting and understanding what one is looking at is critical for making an accurate diagnosis of arrhythmias. This skill set is well within the reach of veterinary technicians. The presentation will discuss the theory of electrocardiography, proper technique for acquiring an ECG, and understanding an approach to interpretation, including mean electrical axis, heart rate, and wave form measurements. It is suited to any experience level of veterinary technician or veterinarian seeking to hone arrhythmia diagnosis skills.

9:15 AM – 10:15 AM
Edward Durham, CVT
Do You Hear What I Hear? Heart Sounds for Everyone
The sounds of the heart can be mysterious for those who are new to cardiac auscultation, but with an understanding of basic cardiac physiology and a quality stethoscope, anyone can unlock this mystery. During this presentation, we will talk about what makes a quality stethoscope, and review the cardiac cycle and how heart sounds relate to the cardiac cycle. Then we will review examples of common, and some uncommon, heart sounds that the technician may hear. Because cardiac auscultation is such a key part of the physical examination it is important for all veterinary technicians to hone this skill.

10:45 AM – 11:45 AM
Edward Durham, CVT
A Review of Congenital Heart Conditions
Approximately 1% of all veterinary patients are born with a congenital heart defect. Some of the most interesting and challenging cases seen in cardiology specialty practice are congenital heart conditions. In this hour, we will review the common heart defects and some of the uncommon defects seen in practice. This presentation will be rich with echocardiographic and angiographic images to aid in understanding.

12:00 PM – 1:00 PM
Edward Durham, CVT
My Dog’s Bad Teeth Gave Him Heart Disease: The Rest of the Story
Dental disease and heart disease are very common in veterinary medicine. It is commonly held that poor dental condition can contribute to heart murmurs and heart disease. This presentation will explore the association between these two conditions and seek to make clear the exact correlation. It will include a review of dental prophylaxis, common derangements to heart valves that lead to murmurs, and heart disease affected by bad teeth. It will end with recommendations about antibiotic use after a dental cleaning.

2:15 PM – 3:15 PM
Alicia O’Rourke, CVT
Cranial Cruciate Ligament Rupture in Dogs
Cranial cruciate ligament rupture is one of the most commonly treated orthopedic injuries in dogs. This lecture will discuss the anatomy of the stifle joint as well as the functions of the cranial cruciate ligament and meniscus. The presentation will also describe presenting complaints associated with cruciate disease and the medical management and surgical options for repair.

3:45 PM – 4:45 PM
Marcia Rafter Ritchie, LVT
A “Pot Purr Ri” of Cat Behavior Problems
This presentation will cover the most common cat behavior problems we see in veterinary practices. General topics covered will include elimination problems, destructive behaviors, and aggression. Within those topics, multiple behavior issues will be identified. Practical treatment plans will also be discussed. A real life case will from start to finish will also be included.

5:00 PM – 6:00 PM
Marcia Rafter Ritchie, LVT
A “Pot Purr Ri” of Dog Behavior Problems
This presentation will cover some of the most common dog behavior problems we see in veterinary practices. Separation anxiety, resource guarding, leash reactivity and canine cognitive dysfunction will be presented in great detail. With the help of videos and real life cases you will learn to identify, manage and treat these behavioral issues.
EQUINE

8:00 AM – 9:00 AM
Dr. Linda Dahlgren
Regenerative Medicine: Why All the Hype?
This session will provide a general introduction to the
background of regenerative medicine and basic information
necessary for the following three sessions.

9:15 AM – 10:15 AM
Dr. Linda Dahlgren
Understanding Regenerative Medicine Therapies
Information critical to the understanding of the various
regenerative therapies commonly used in equine practice will
be presented (e.g., adipose-derived cells, bone marrow-derived
cells, platelet rich plasma, autologous conditioned serum).

10:45 AM – 11:45 AM
Dr. Linda Dahlgren
What Is the Evidence to Support Using Regenerative
Medicine Therapies in Your Practice?
A review of the existing literature – in various species including the
horse – will be presented as a means of establishing a summary of
what we do and do not know about these therapies. The goal is to
provide a set of information practitioners can use to decide how they
might incorporate these therapies into their practice and how to
educate owners on the important choices they will be making.

12:00 PM – 1:00 PM
Dr. Linda Dahlgren
How to Incorporate Regenerative Medicine Therapies in Your Practice
This session will incorporate the information from the previous three
sessions into some case-based examples to provide practitioners with some
ideas about how to effectively utilize regenerative medicine in their practice.

2:15 PM – 3:15 PM
Dr. David Levine and Penn Vet Surgery Residents
Abstracts

3:45 PM – 4:45 PM
Dr. Eric Parente
CT Imaging of the Equine Patient
Computed Tomography (CT) has been an invaluable imaging tool for
human medicine since the 1980s. In the last 10 years, it has become more
commonly employed in large animal surgery. It has exceptional value for
both diagnostics and surgical planning since it allows the clinicians to see
incredible detail of different tissue types as thin slices at any level or in three
dimensions. A review of how it works and how it is applied will be discussed.

5:00 PM – 6:00 PM
Dr. Dean Richardson
CT Guided Orthopedic Surgery

Thursday, March 12

FOOD ANIMAL

8:00 AM – 9:00 AM
Mr. Tim Beck
Dairy Sustainability

9:15 AM – 10:15 AM
Mr. Tim Beck
Veterinary Involvement

10:45 AM – 11:45 AM
Center for Dairy Excellence
Programs & Opportunities

12:00 PM – 1:00 PM
Dr. James Lawhead
Mr. Walt Moore
Successful Profit Teams

2:15 PM – 3:15 PM
Dr. Meggan Hain
FARM Evaluation

3:45 PM – 4:45 PM
Dr. Amanda Kilby
Dr. James Lawhead
Dr. Darcie Stolz
Dr. Robert Stolz
Veterinary Adaptations to a Changing Industry

5:00 PM – 6:00 PM
Dr. Amanda Kilby
Dr. James Lawhead
Dr. Darcie Stolz
Dr. Robert Stolzfus
Veterinary Adaptations to a Changing Industry (Part II)
SPECIAL CONFERENCE EVENTS

WEDNESDAY, MARCH 11, 2015

1:00 PM – 2:00 PM
Keynote Presentation and Luncheon
Abnormal Repetitive Behaviors: Where Medical and Behavior Problems Meet
Keynote Speaker: Dr. Valarie Tynes, President-Elect, American College of Veterinary Behaviorists
Sponsored by Zoetis

Enjoy a complimentary lunch and receive a CE credit by attending this special presentation, which will review some of the most current research demonstrating the frequent overlap between medical conditions and repetitive behaviors. In addition, the current thinking about the cause and function of repetitive behaviors in animals will be reviewed, as well as the confusing terminology that is used to describe these fascinating but disturbing behaviors.

6:00 PM – 7:00 PM
Dean’s Reception
Sponsored by Best Pet Rx

Come join Dr. Joan Hendricks, the Gilbert S. Kahn Dean of Veterinary Medicine, to relax and unwind before gathering with friends and classmates for individual dinners. All are welcome, but pre-registration is suggested.

THURSDAY, MARCH 12, 2015

1:00 PM – 2:00 PM
Young Alumni Luncheon
All Penn Vet young alumni (recent Penn graduates from 2005 – 2014) and Penn Vet fourth-year students are welcome to attend. There are no additional fees, but pre-registration is required.

1:00 PM – 2:00 PM
Lunch with the Experts
Reserve your seat at the table of one of our conference speakers for a discussion-based lunch talk. Each speaker below will host a discussion during which they will discuss topics and answer questions within their stated specialty. Each table can accommodate ten people, so space is very limited. Registrants receive an extra CE credit for attending. Pre-registration and a $35 fee apply.

Behavior > Dr. Valarie Tynes
Dermatology > Dr. David Duclos
Endocrinology > Dr. Rebecka Hess
Equine Medicine > Dr. Linda Dahlgren
Exotic Companion Animal Medicine > Dr. Leigh Clayton
Food Animal Medicine > Mr. Walt Moore on “Successful Dairy Farms”
Ophthalmology > Dr. William Crumley
Surgery > Dr. Lillian Aronson

Exhibitor Bingo

Registrants will receive an exhibitor bingo card at check-in and will be entered to win a prize if the card is stamped by a representative from all booths listed on the card. Attendees must return their completed cards to the registration desk by 1:00 PM on Thursday, March 12. Winners will be drawn at 2:00 PM and posted at the registration desk.
Honor Your Patients by Participating in the Penn Vet Pet Memorial Program

Established in 1982, Penn Vet’s Pet Memorial Program helps practitioners show compassion for their clients who have recently lost a beloved pet, while providing an important contribution to Ryan Hospital. The program provides financial support for the treatment and care of Penn Vet’s animal patients.

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“...No one seemed to care about his death. To them he was just a skinny, old alley cat. But he was a good boy, loyal to me. I am still weeping over his passing, missing him A LOT. So, thank you for helping him at the end, thus helping me; and most especially, thank you for your gift to Penn Vet, which will ultimately help many, many more cats....”

(Client of an Alumni Participant)
Friday, March 13

SPECIAL PROGRAMS
WET LABS AND WORKSHOPS

The Penn Annual Conference will again feature several companion animal wet lab opportunities for both veterinarians and veterinary technicians to enhance their skill sets in various specialties. Registration to the Conference is not required, but a separate fee applies for each lab. A special lunch and tour of Penn Vet’s Ryan Hospital will be provided from 12:00 PM to 1:30 PM for lab participants.

To register, fill out the wet lab section of the form in the back of this brochure or visit www.vet.upenn.edu/PAC2015.

COMPANION ANIMAL WET LABS AND WORKSHOPS

Ryan Hospital – 3900 Spruce Street, Philadelphia, PA
(Registration check-in will be in the Ryan Hospital lobby)

9:00AM – 12:00PM (3 CE hours)
CO2 Laser Surgery: Dermatologic Procedures and More (Veterinarians)
Conducted by Dr. David Duclos
Sponsored by Aesculight

Learn and practice the principals of successful laser surgery using the latest state-of-the-art technology. Beginning with a PowerPoint presentation, you will be shown the fundamentals of CO2 laser technology, tissue reaction depending on settings, tip to tissue contact, and spot sizes, followed by a hands-on wet lab. You will use the laser for skin incisions, tumor excisions, eyelid and oral surgeries, and other common procedures you come in contact with daily. Space is limited to 18 registrants. Cost: $400 *

9:00 AM – 12:00 PM (3 CE hours)
Oral Examination and Dental Charting (Veterinarians and Technicians)
Conducted by Bonnie Miller, RDH, BS

Along with a review of oral/dental anatomy, participants in this wet lab will perform the steps included in the completion of a dental chart. Examination of the soft tissues of the head, neck, and mouth will be performed along with periodontal disease assessment techniques to evaluate the supporting structures of the teeth. Space is limited to 18 registrants. Cost: $250 *

2:00 PM – 5:00 PM (3 CE hours)
Cytology Skills (Veterinarians and Technicians)
Conducted by Dr. Madhu Sirivelu-Prabhaker

Cytology is one of the most useful but underused diagnostic procedures. In this lab, you will improve your skills to interpret cytology samples by evaluating multiple cases representing common inflammatory and neoplastic diseases involving the skin, lymph nodes, body cavity effusions, and various other organs. A brief presentation on smear preparation techniques, optimal sample submission and general approaches to evaluating a cytologic slide are included. Space is limited to 15 registrants. Cost: $275 *

2:00 PM – 5:00 PM (3 CE hours)
Dental Surgery: Tooth Extraction (Veterinarians)
Conducted by Dr. Alexander Reiter

This lab will provide hands-on training for closed extraction of single- and two-rooted teeth. Participants will also learn flap techniques for open extraction of canine and large multi-rooted teeth, including tension-free closure of extraction sites. Instrument choices, safe use of power equipment, and proper bur selection will be reviewed. Space is limited to 8 registrants. Cost: $400 *

* Lab registration is nontransferable. Penn Vet reserves the right to cancel any lab that does not meet minimum registrations by February 25, 2015. If the lab is cancelled, registrants will be notified and all paid fees will be refunded. Cancellations by a lab registrant must be submitted in writing for a refund by February 25, 2015. (A $25 processing fee will be charged for cancellations.)
At Penn Vet, we believe that teamwork and communication are essential to providing the finest medical care imaginable to our patients, as well as compassionate support to their families. Our Referral Office is dedicated to optimizing partnerships with referring veterinarians through excellent customer service, improved accessibility, and enhanced communication.

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Wednesday, March 11, 2015
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Special Thanks to the 2015 Conference Educational Program Coordinators

Penn Vet recognizes the following faculty and staff who organized the Penn Annual Conference educational program. They have compiled an outstanding selection of topics and speakers that reflect many of the advances and techniques within veterinary medicine.

Dr. Linda Baker
Dr. Joe Bender
Darleen Calahan
Dr. William Crumley
Dr. Rebecka Hess
Dr. David Holt

Dr. La’Toya Latney
Rosemary Lombardi, CVT
Dr. Daniel Morris
Dr. Michael Ross
Dr. Carlo Siracusa
Dr. Lori Waddell
Life’s greatest and most valuable lessons are learned from past experiences. Events that transform thought, shape opinion and provide insight. Instruction provided by history is truly the most reliable and most meaningful instruction of all.

For more than 60 years, New Bolton Center has been an international leader in equine research, diagnosis and treatment. This is where the finest equine care in the world is practiced. With a long and rich history of excellence.
Registration Form – 2015 Penn Annual Conference

REGISTRANT NAME

ADDRESS

CITY, STATE AND ZIP CODE

TELEPHONE NUMBER

FAX NUMBER

E-MAIL

SCHOOL AND YEAR OF GRADUATION (IF CLINICAL ATTENDEE)

VETERINARY HOSPITAL/PRACTICE NAME (IF APPROPRIATE)

TYPE OF PRACTICE

Please take a moment to answer these questions to help improve our future programming:

Profile

Age:  ■ 18-29 years  ■ 30-39 years  ■ 40-49 years  ■ 50-59 years  ■ 60+ years

Gender:  ■ Male  ■ Female

Career Information

■ General Practice

Specialty:  ■ Small Animal  ■ Food Animal  ■ Equine  ■ Mixed Practice

Practice Size:  ■ 1-2 Veterinarians  ■ 3-5 Veterinarians  ■ 6+ Veterinarians  ■ 1-2 Technicians  ■ 3-5 Technicians  ■ 6+ Technicians

■ Academia  ■ Government  ■ Industry  ■ Research  ■ Retired

PAC Attendance

■ First time  ■ Have attended 1-5 times  ■ Have attended 6-10 times  ■ Have attended more than 10 times

APPLICANTS MUST FILL OUT WORKSHEET ON NEXT PAGE TO COMPLETE REGISTRATION.
# 2015 Advanced Registration Form (page 2)

## FULL CONFERENCE REGISTRATION – WEDNESDAY, MARCH 11 & THURSDAY, MARCH 12, 2015 (15 CE credits)

### Veterinarians
- Non-Penn Vet Graduates: $300
- Penn Vet Classes of 1964-2003: $300
- Penn Vet Classes of 2005-2014 (Young Alumni): $250
- Penn Vet Classes of 1964 and prior (Alumni Pioneers): $250
- Penn Vet Dean’s Alumni Council, OS Committee, and Class Agents: $250

### Veterinary Technicians and Support Personnel
- $200

### Non-Veterinary Admittance to Exhibits (Spouses / Family Members) – No CE credits
- $50

## ONE-DAY CONFERENCE REGISTRATION (Wednesday, March 11 – 8 CE credits / Thursday, March 12 – 7 CE credits)

### Veterinarian: Wednesday Only
- $200

### Veterinarian: Thursday Only
- $200

### Veterinary Technicians and Support Personnel: Wednesday Only
- $140

### Veterinary Technicians and Support Personnel: Thursday Only
- $140

### Lunch with the Experts (1 CE Hour) - Thursday, March 12, 2015 (choose session below)
- $35

- Behavior – Dr. Valarie Tynes
- Dermatology – Dr. David Duclos
- Endocrinology – Dr. Rebecka Hess
- Equine – Dr. Linda Dahlgren
- Exotic Companion Animal – Dr. Leigh Clayton
- Food Animal – Mr. Walt Moore on “Successful Dairy Farms”
- Ophthalmology – Dr. William Crumley

## Please identify your programming preferences

### Wednesday, March 11
- **Educational Tracks:**
  - Behavior
  - Dermatology
  - Emergency & Critical Care
  - Equine
  - Exotic Companion Animal
  - Food Animal
  - Veterinary Technician

- **Conference Events:**
  - Keynote Presentation and Luncheon: Sponsored by Zoetis
  - Dean’s Reception: Sponsored by Best Pet Rx

### Thursday, March 12
- **Educational Tracks:**
  - Endocrinology
  - Equine
  - Food Animal
  - Ophthalmology
  - Surgery
  - Veterinary Technician

- **Conference Events:**
  - Young Alumni Luncheon

## Please choose your preferred conference proceedings
- **Book**
- **CD**

## WET LAB AND WORKSHOP REGISTRATION / COMPANION ANIMAL – FRIDAY, MARCH 13, 2015

### Penn Vet’s Ryan Hospital

- Oral Examination and Dental Charting (Veterinarians and Technicians) (9:00 AM – 12:00 PM): $250
- CO2 Laser Surgery: Dermatologic Procedures and More (Veterinarians) (9:00 AM – 12:00 PM): $400
- Dental Surgery: Tooth Extraction (Veterinarians) (2:00 PM – 5:00 PM): $400
- Cytology Skills (Veterinarians and Technicians) (2:00 PM – 5:00 PM): $275

### Please check if you would like to attend the following (wet lab registrants only)
- Lunch and Tour of Ryan Hospital (12:00 PM – 2:00 PM)

## Payment Options

<table>
<thead>
<tr>
<th>TOTAL AMOUNT</th>
<th>$</th>
</tr>
</thead>
</table>

### CREDIT CARD
- MASTERCARD
- VISA
- AMERICAN EXPRESS

- **CARD NUMBER**
- **EXP. DATE**
- **CVN #**

- **CARDHOLDER NAME** (PRINT)
- **CARDHOLDER SIGNATURE**

- **BILLING ADDRESS**

- **CHECK:** PLEASE MAKE PAYABLE TO “TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA” AND MAIL TO PENN VET, PENN ANNUAL CONFERENCE, 3800 SPRUCE STREET – SUITE 172E, PHILADELPHIA, PA 19104.

**FOR MORE INFORMATION PLEASE CALL 215-746-2421 OR E-MAIL PENN-CONFERENCE@VET.UPENN.EDU.**
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ph 610.666.1050 • fax 610.666.1199
Metro-Vet.com
Conference at a Glance

Please refer to the Special Events Section on page 22 and 24 for more information on these programs.

WEDNESDAY, MARCH 11, 2015
8:00 AM – 6:00 PM
CE Sessions
1:00 PM – 2:15 PM
Keynote Presentation and Luncheon
Sponsored by Zoetis
“Abnormal Repetitive Behaviors: Where Medical and Behavior Problems Meet” presented by Dr. Valarie Tynes, President-Elect, American College of Veterinary Behaviorists

6:00 PM – 7:00 PM
Dean’s Reception
Sponsored by Best Pet Rx

THURSDAY, MARCH 12, 2015
8:00 AM – 6:00 PM
CE Sessions
1:00 PM – 2:15 PM
Young Alumni Luncheon
Penn Vet Classes of 2005 to 2014

1:00 PM – 2:15 PM
Lunch with the Experts
1 Extra CE Credit
Cost: $35

FRIDAY, MARCH 13, 2015
Companion Animal Wet Labs and Workshops
Penn Vet’s Ryan Hospital
3900 Spruce Street
Philadelphia, PA
Additional fees apply.

9:00 AM – 12:00 PM
› Oral Examination and Dental Charting (Veterinarians and Technicians) Cost: $250
› CO2 Laser Surgery: Dermatologic Procedures and More (Veterinarians) Cost: $400
Sponsored by Aesculight

12:00 PM – 1:30 PM
Tours and Lunch for Wet Lab Registrants

2:00 PM – 5:00 PM
› Dental Surgery: Tooth Extraction (Veterinarians) Cost: $400
› Cytology Skills (Veterinarians and Technicians) Cost: $275