HOT topics

VIRTUAL VISITS?  PAGE 62
You’ve heard of telemedicine, but is it a good fit for your practice? How do you get started? Join veterinarian and technology expert Adam Little in the brand-new Telemedicine track on Saturday to find out.

SHAKE OFF IMPOSTER SYNDROME!  PAGE 62
The idea of having a life-or-death impact on animals can be daunting. Renowned experts David Biller and Howard Seim III will help build your confidence in Friday’s medical-focused Recent Graduates track.

FEATURED wet labs

ETERNAL SLEEP.  PAGE 38
We strive to ensure our patients are healthy, but when that is no longer possible, it is our responsibility to deliver a painless and humane death. Learn what this responsibility truly means by becoming a certified euthanasia technician during the MVC’s two-day hands-on lab.

WEAK IN THE KNEES?  PAGE 61
Cranial cruciate ligament injury is a common source of lameness in dogs. Perfect your canine stifle stabilization technique in Saturday’s hands-on orthopedic lab with leading board-certified veterinary surgeon Matthew Barnhart.

CAN’T-MISS events

BECOME A PRO.  PAGE 5
Attend the new MVC Professional Fair & Cocktail Hour to meet with employers, increase your involvement in organized veterinary medicine, get tips on your resume, and expand your network. Organizations seeking new employees or offering professional services are also invited to participate.

SAVES OFF THE ICE.  PAGE 6
Although best known as coach of the Columbus Blue Jackets, John Tortorella is also a goalie-of sorts for animals: His family’s foundation is on a perpetual power play to save them all. Join us at MVC Sunday Lunch to hear how their efforts have helped animals across the U.S. and Canada.
GOLD sponsors

KENNETH A. SCOTT CHARITABLE TRUST

- Thursday through Sunday Shelter Animal Tracks

ROSS UNIVERSITY SCHOOL OF VETERINARY MEDICINE

- Veterinary Exploration Conference

SILVER sponsors

CEVA

- Saturday and Sunday Animal Behavior Tracks

MERCK ANIMAL HEALTH

- MVC Mobile App

OHIO ANIMAL HEALTH FOUNDATION

- Thursday through Sunday Shelter Animal Tracks
- Shelter Animal Scholarships

STANTON FOUNDATION

- Exhibitor Lounge
- Friday Recent Graduates Track

BRONZE sponsors

ANTECH DIAGNOSTICS AND IMAGING

- Saturday Pet Animal Gastroenterology
- Friday Practice Management II

INTEGRA

- Equipment for Lab C

MERAMAK BUSINESS SOLUTIONS

- On-Site Credit Card Processing

DENTALAIREF

- Equipment for Labs C and G

EVEROST

- Equipment for Lab F

SUPPORTING sponsors

Boeringher-Ingelheim

- Attendee Pens

Campbell Pet Supply

- Equipment for Lab A

Experience Columbus

- Volunteer Raffle Prizes
OVMA STUDENT MEMBER APPRECIATION RECEPTION

OVMA Student Members are invited to the annual Student Appreciation Reception, where they can kick back with fellow students, get to know the OVMA staff, network with future colleagues, and even win raffle prizes!

More information, including a venue, will be posted on the MVC website at www.mvcinfo.org/events once available. There is no fee to attend, but please RSVP in advance, as food will be served.

OVMA Student Members may sign up online during registration. Add “Student Appreciation Reception” on the Session & Event selection page.

_CONNECTION CORNER: STUDENT/DVM NETWORKING LUNCH_

The brainchild of past OVMA student members, this popular event is designed to connect students with veterinarians practicing in their fields of interest. Students will be able to ask questions about their future careers and strengthen their networking skills, while veterinarians will have a chance to find summer interns or even future associates—and, more importantly, to give back to the profession.

This event has a limited capacity and is available on a first-come, first-served basis. OVMA student and veterinarian members should sign up online during registration. Add “Connection Corner” on the Session & Event selection page and indicate your field(s) of interest or area(s) of practice.
speed network with employers and other professionals in your field. You could land your dream job or the perfect summer externship, join a community of like-minded professionals, or get help with your resume or interview skills. There is no fee to attend, nor do you need to register in advance—but be sure to bring a curriculum vitae and a handful of business cards! A list of participating employers and organizations will be available prior to the MVC online at www.mvcinfo.org/jobfair and in the mobile app.

Employers and Professional Organizations. Are you looking for new employees or student interns for your hospital? Do you offer career help to veterinary professionals or students? If so, you are invited to reserve a table at the MVC Professional Fair & Cocktail Hour!

The cost is only $75 and includes a six-foot table, two chairs, and skirting, as well as a company listing in the online and mobile app directories accessible to attendees.

Employers are also invited to include their contact information so job seekers can contact them prior to the MVC to set up an interview, as they will be able to reserve time in a semi-private interview room on site.

RSVP! Employers and professional organizations are required to register online in advance. Space is limited and available on a first-come, first-served basis. Learn more and sign up online at www.mvcinfo.org/jobfair.

NEW! MVC PROFESSIONAL FAIR & COCKTAIL HOUR

Based on feedback from 2018 MVC attendees, OVMA has a new and improved job fair in the works. No longer just for employers and job seekers, the event will benefit anyone who wants to advance their career or help others to do so!

Attendees. Take your career to the next level! Join us at the MVC Professional Fair & Cocktail Hour to

Continued on next page
**VETERINARY EXPLORATION CONFERENCE, PARENTS’ WORKSHOP, & COLLEGE FAIR**

Do you know a young person who wants to follow in your footsteps? Invite him or her to the Veterinary Exploration Conference, brought to you through generous support from Gold Sponsor Ross University. This is an opportunity for students to get a glimpse of everything the veterinary medical field has to offer and what it takes to get there, and for parents to learn about the college application and financing processes. More information and program details are available online at www.mvcinfo.org/VEC.

*Pre-registration is required by Feb. 15, 2019. The fees are $10/student and $20/parent and include lunch. Visit www.mvcinfo.org/VEC to sign up.*

**OVMA AUXILIARY MEETING & LUNCH**

At this year’s luncheon, Auxiliary members and their guests will hear from keynote speaker Diane Less, painter and founder of Spotted Horse Studio. A lifelong animal lover, Diane is known for her wildlife mural at the Ohio Department of Natural Resources.

*This event is free for Auxiliary members and $25 for their guests. Pre-registration is required by Feb. 15, 2019. Contact staff liaison Cindi Rains at car@ohiovma.org to sign up.*
ATTENDEE ASSISTANCE & ON-SITE REGISTRATION

Although OVMA encourages you to pre-register for the MVC (you’ll enjoy discounted fees and receive your confirmation packet* in the mail!), on-site registration will be available on Wednesday, Feb. 20, (5–6:30p.m.) and during regular Conference hours for those who are unable to register in advance.

COMMUNITY BULLETIN BOARD

Attendees are invited to post and browse employment opportunities and for-sale listings on the Community Bulletin Board, located just outside the Exhibit Hall.

EXHIBIT HALL VISITORS PASSES

If you would like to bring guests to the Exhibit Hall without registering them for the full Conference, you may pick up a pass on site for $20 per day.

NEW! Save time on site and purchase Exhibit Hall visitors passes in advance! See attendee FAQs (page 73) for details.

THE GATHERING CORNER

Looking for someplace close by to discuss a lecture with your colleagues, or just need a few minutes to relax and recharge? Stop by the new Gathering Corner, located outside the Exhibit Hall. Refer to the MVC website or on-site program for details.

MVC MOBILE APP

Exhibit Hall Passport. Download the MVC mobile app (available in January) and join your colleagues in a scavenger hunt of the Exhibit Hall and beyond. Complete photo challenges to earn points and win prizes—all while networking with other professionals and learning about new veterinary products.

Personalized Schedule. When you sign up for sessions during registration, your selections will automatically transfer to your personal schedule in the mobile app. You can easily make changes from within the app, which will also be reflected in your permanent record.

Attendee Networking. The MVC is a great way to expand your network—but you don’t have to wait until you arrive to connect with your colleagues! Opt in to the networking feature during registration to allow other attendees to contact you.

NEW PRODUCT SHOWCASE

Check out the latest technologies and newest tools in the New Product Showcase, located in the Exhibit Hall. Participating companies will appear in the mobile app and on-site program.

OVMA AUXILIARY SILENT AUCTION

During your visit to the Exhibit Hall, stop by the OVMA Auxiliary silent auction and place a bid on a variety of items. Proceeds benefit student scholarships.

RABIES TITER TESTING

It is recommended that veterinary professionals who have received rabies pre-exposure vaccination and are at continued risk of exposure get their titers tested every two years. ARCpoint Labs of Columbus will be on site to provide this service on Friday and Saturday, and no appointment is needed. The fee is $75 for a rabies antibody screen or $95 for rabies antibody endpoint testing; payment can be made in cash, credit card, or check.

SELFIE STATION

Remind your clients how committed you are to their pets’ health: Show them you’re soaking up the latest in education by snapping a selfie with your colleagues in the Gathering Corner. Share in the mobile app and on your practice’s social media pages using the hashtag #2019MVC.

*If registered by Feb. 8. Details on page 76.
The MVC Exhibit Hall boasts 98,000 square feet of new, innovative products and services from 150+ exhibitors, limitless networking opportunities, and plenty to learn about. The only question is: Will you have time to see it all?

### EXHIBIT HALL hours
- **THURSDAY, FEB. 21**
  - 10:30 a.m. to 6 p.m.
- **FRIDAY, FEB. 22**
  - 10:30 a.m. to 6 p.m.
- **SATURDAY, FEB. 23**
  - 10:30 a.m. to 6 p.m.
- **SUNDAY, FEB. 24**
  - Closed

### ACTIVITIES & SERVICES
#### NEW LUNCH & BEVERAGE SERVICE
This year, the MVC will offer complimentary beverages throughout the day, and visitors will also be able to purchase lunch right in the Exhibit Hall between the hours of 11:30 a.m. and 1:30 p.m.

#### EXHIBIT HALL PASSPORT
Complete photo challenges to learn about featured exhibitor products and services—and for your chance to win a prize!
Nationwide Pet Insurance  
Noah’s Animal Hospital  
Nutramax Laboratories Veterinary Sciences, Inc.  
Omni Veterinary Practice Group  
Optistar Technology Consultants  
Pathway Vet Alliance  
Patterson Veterinary Supply  
Paws & Remember  
Penn Veterinary Supply, Inc.  
Pet Cremation Services, Inc.  
PetCure Oncology  
Pet Health Pharmacy  
Pittsburgh Veterinary Specialty and Emergency Service (PVSEC/BluePearl)  
PractiVet  
PRN Pharmacal  
Pro Diagnostic Imaging Systems by PTSI  
Purina  
Rose Micro Solutions  
Ross University School of Veterinary Medicine  
**GOLD SPONSOR**  
Rx Vitamins, Inc.  
Scratchpay  
Sedecal  
Select Merchant Solutions.com  
ServiceNet Medical X-Ray, LLC  
Shor-line  
Simmons Great Lakes  
Smiths Medical/Surgivet  
Snyder Manufacturing Co.  
SonoSite, a FUJIFILM company  
Sound  
Specialty Veterinary Pharmacy  
St. George’s University, Grenada, West Indies  
Suburban Surgical Co., Inc.  
Success Concepts  
TC Architects, Inc.  
Total Practice Solutions Group  
TriStar Vet  
Tuttnauer USA Co., Ltd.  
Universal Imaging, Inc.  
VAC RXplus  
Vetamac  
VetCor  
Veterinary Apparel Company  
VetMatrix  
VetMedWear  
Vetoquinol  
VetRad  
VetSpecs, Inc.  
Virbac Animal Health  
**Bronze Sponsor**  
**Golden Sponsor**  
Rx Vitamins, Inc.  
Scratchpay  
Sedecal  
Select Merchant Solutions.com  
ServiceNet Medical X-Ray, LLC  
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VetCor  
Veterinary Apparel Company  
VetMatrix  
VetMedWear  
Vetoquinol  
VetRad  
VetSpecs, Inc.  
Virbac Animal Health  
**Bronze Sponsor**  

To learn more about exhibitors and for an up-to-date list, visit the MVC website at www.mvcinfo.org/exhibits or download the mobile app beginning in January.

**Rabies Titer Testing**  
Friday, 10:30 a.m. – 2 p.m. • Saturday, 10:30 a.m. – 4 p.m.  
No appointment is needed for attendees to have their titers tested on site. See page 7 or www.mvcinfo.org for details.

**Exhibit Hall Visitors Passes**  
Visit the registration desk to purchase Exhibit Hall-only passes for $20 per guest, per day. Children are free but must obtain a badge for entry and be accompanied by an adult.

**New Product Showcase**  
Stop by the New Product Showcase as you make your way through the Exhibit Hall to discover new tools, equipment, and services. A list of participating companies will appear in the on-site program.

**New! The Gathering Corner**  
Located just outside the Exhibit Hall, this is a place where attendees can take a break to relax or catch up with colleagues.
<table>
<thead>
<tr>
<th>Time</th>
<th>ANIMAL behavior</th>
<th>EQUINE</th>
<th>FOOD animal</th>
<th>HOLISTIC &amp; integrative medicine</th>
<th>PET ANIMAL avian &amp; exotic</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m.</td>
<td><strong>100</strong> Feline Inappropriate Urination: Thinking Outside the Litter Box</td>
<td><strong>106</strong> Perineural and Intra-Articular Anesthesia: How Do I Figure Out Where This Lameness is Coming From?</td>
<td><strong>109</strong> Thinking Like Cattle</td>
<td><strong>115</strong> Introduction to Western Herbal Medicine</td>
<td><strong>121</strong> Emergency Presentations and Procedures in Birds</td>
</tr>
<tr>
<td>9:15 a.m.</td>
<td><strong>101</strong> Separation Anxiety: Covert and Overt Disease</td>
<td><strong>107</strong> Taking Better Radiographs: Unique Approaches to Proper Positioning</td>
<td><strong>110</strong> Transporting Livestock and the Veterinarian’s Role in Highway Accidents</td>
<td><strong>116</strong> Ethnomedicine</td>
<td><strong>122</strong> Geriatric Diseases of Pet Birds</td>
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<td>11:30 a.m.</td>
<td>Lunch &amp; Exhibit Hall</td>
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<td>1:30 p.m.</td>
<td><strong>112</strong> Backyard Poultry: Individual Medicine and Surgery, Part II</td>
<td><strong>118</strong> Food Therapy</td>
<td><strong>124</strong> Rabbit and Guinea Pig Surgery</td>
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<td>2:45 p.m.</td>
<td><strong>103</strong> Baby + Fido = Trouble</td>
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<td><strong>119</strong> Adaptogens: A Natural Method of Coping with Stress, Part I</td>
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<td>4:00 p.m.</td>
<td><strong>104</strong> PTSD in Military Working Dogs</td>
<td><strong>113</strong> The Role of Genetic Improvement on the Sustainability of Animal Agriculture</td>
<td><strong>125</strong> Rabbit and Guinea Pig Medicine</td>
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<td>5:00 p.m.</td>
<td><strong>105</strong> Common Behavioral Problems in Working Dogs</td>
<td><strong>114</strong> Genetic Testing in Bovine Practice</td>
<td><strong>120</strong> Adaptogens: A Natural Method of Coping with Stress, Part II</td>
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<td><strong>126</strong> Assessing and Managing Pain in Exotic Companion Mammals</td>
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<td>PET ANIMAL clinical pharmacology</td>
<td>PET ANIMAL dentistry</td>
<td>PET ANIMAL nutrition</td>
<td>PRACTICE management I</td>
<td>PRACTICE management II</td>
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<td>127 When Can I Just Give Cefovecin? Empirical Antibiotic Treatment in Dogs and Cats Clark</td>
<td>133 Oral Pathology Niemiec</td>
<td>139 Obesity Management in Dogs and Cats Fascetti</td>
<td>145 The Five Items You Need Before You Start a Media Campaign Heaps</td>
<td>151 Current Issues at the Ohio Veterinary Medical Licensing Board Kidd and Riker-Brown</td>
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<td>128 Simma Down Na: Pharmacological Management of Hypertension Clark</td>
<td>134 Periodontal Disease and Therapy for the General Practitioner Niemiec</td>
<td>140 Raw Food Diets: Radical or Reasonable? Fascetti</td>
<td>146 Find the Right Person to Help You Become a PR Machine Heaps</td>
<td>152 Ohio Pharmacy Regulations McNamee</td>
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<td>129 New Drugs for Cats: What’s on the Horizon? Clark</td>
<td>135 Dental Radiology Techniques and Basic Interpretation Niemiec</td>
<td>141 Debunking Nutritional Myths from the Internet and Beyond Fascetti</td>
<td>147 The 90-Day Media Blitz Heaps</td>
<td>153 Ohio Wild Animal Rehabilitation: How Can I Help? Moser</td>
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<td>132 Update on Drugs for Dogs Clark</td>
<td>138 Dental Therapy: The Next Level Niemiec</td>
<td>144 Timely Nutrition Topics in Veterinary Medicine Fascetti</td>
<td>150 Be Part of our “Media Hot Seat” Heaps</td>
<td>156 Animal Bites 101 Singh</td>
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8:00 a.m. | 9:15 a.m. | 10:30 a.m. | 1:30 p.m. | 2:45 p.m. | 4:00 p.m. |
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<tr>
<th>Time</th>
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<tr>
<td>8:00 a.m.</td>
<td>157A. Influenza and Zoonosis in Show Pigs Lorbach</td>
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<td>157B. Subtype Diversity of IAV in Waterfowl Mircoff</td>
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<td>9:15 a.m.</td>
<td>158A. Compassion Fatigue and Burnout in Laboratory Animal Medicine Freed</td>
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<td>158B. Parasites Breaking the Rules and Crossing Borders Marsh</td>
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<td>10:30 a.m.</td>
<td>159. What’s All the Fuss about the Microbiome? Hale</td>
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<td>160A. Veterinarians &amp; Food: An Overview of FSIS – Taylor-Lehman</td>
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<td>160B. Meat &amp; Poultry Inspection Updates – Flenner and Weaver</td>
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<td>11:30 a.m.</td>
<td>lunch &amp; exhibit hall</td>
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<td>1:30 p.m.</td>
<td>161A. An Update on Zoonotic Disease Programs in Ohio Singh</td>
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<td>161B. Veterinarian Roles in the Air Force Cambino-Shirley</td>
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<td>2:45 p.m.</td>
<td>162A. Government Update: Agriculture and Animal Diseases Forshey</td>
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<td>162B. Government Update: USDA Veterinary Services – Skorupski</td>
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<td>4:00 p.m.</td>
<td>163. Crime Scene Photography, Part I Meadows</td>
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<td>164. Crime Scene Photography, Part II Meadows</td>
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<td>165. Evidence Collection and Packaging Meadows</td>
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<td>166. Humane Agent Training: Large-Scale Search Warrants, Part I Rathbone</td>
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<tr>
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<td>167. Humane Agent Training: Large-Scale Search Warrants, Part II Rathbone</td>
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<td>168. The Use of Social Media in Humane Investigations Rathbone</td>
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<td>169. Integrating Kennels and Floors Adney and Taylor</td>
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<td>170. What’s That Smell? Pros and Cons of Kennel Drain Options Taylor</td>
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<td>171. Canine Housing Design Trends Taylor</td>
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<td>172. Trends in Cat Housing and Design for Less Fear and Stress Taylor</td>
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<td>173. Refurbishing and Remodeling Animal Housing Facilities Taylor</td>
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<td>174. Building and Remodeling Shelters: A Panel Discussion Adney, Finney, Pepper, and Taylor</td>
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<tr>
<td>5:00 p.m.</td>
<td>exhibit hall hour</td>
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<tr>
<td>TECHNICIAN II</td>
<td>HANDS-ON labs</td>
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<td>184</td>
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<td>Is Fido in Pain? Unravelling the Mystery of Pain Assessment</td>
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<td>Johnson</td>
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<td>Beyond the Laser: Rehabilitation for the Small Animal Practice, Part I</td>
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<td>Digital Thermal Imaging: Unlocking the Clues to Patient Health, Part I</td>
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<td>Digital Thermal Imaging: Unlocking the Clues to Patient Health, Part II</td>
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<td>Digital Thermal Imaging: Unlocking the Clues to Patient Health, Part III</td>
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<td><strong>A1</strong> 8:30 a.m. - 4:30 p.m. Euthanasia by Injection, Part I Anderson</td>
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<td>This lab meets Ohio’s requirements to become a certified euthanasia technician.</td>
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<td><strong>B</strong> 1:30 - 4:30 p.m. Equine Lameness: Intra-Articular Injection and Perineural Blocks Edwards</td>
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__Sponsored by:__

[Image: Vortech Pharmaceuticals, Ltd.]
<table>
<thead>
<tr>
<th>Time</th>
<th>ANIMAL behavior</th>
<th>AQUACULTURE</th>
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<th>FOOD animal</th>
<th>HOLISTIC &amp; integrative medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>200 The Other End of the Leash: How to Deal with the Owner’s Behavior</td>
<td>206 Incorporating Aquatic Patients into Veterinary Practice</td>
<td>209 Axial Skeleton Lameness: Managing and Treating Neck, Back, and Pelvis Problems</td>
<td>215 Understanding Genomics, Genetic Engineering, and Gene Editing</td>
<td>221 Integrative Pain Management for Degenerative Joint Disease, Part I: Pharmaceuticals and Nutraceuticals</td>
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<td>Pike</td>
<td>Sanders</td>
<td>Edwards</td>
<td>Van Eenennaam</td>
<td>Huntingford</td>
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<tr>
<td>9:15</td>
<td>201 Cognitive Dysfunction in Dogs and Cats</td>
<td>207 Surgery in Pet Fish</td>
<td>210 How to Use Platelet-Rich Plasma, Bone Marrow, Stem Cells, Dental Cell Particles, and Bisphosphonates</td>
<td>216 Veterinarians’ Role in Future Genetic Improvements Programs</td>
<td>222 Integrative Pain Management for Degenerative Joint Disease, Part II: Beyond Pharmaceuticals</td>
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<td>10:30</td>
<td>202 Pain and Behavior: What is the Link?</td>
<td>208 Anesthesia and Pain Management in Fish</td>
<td>211 Common Surgical Conditions in the Sport Horse: What Do They Mean for the Horse’s Career?</td>
<td>217 Managing Honeybee Diseases with VFD Rules in Mind</td>
<td>223 The Laser’s Role in Treating Pain</td>
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<td>lunch &amp; exhibit hall</td>
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<tr>
<td>1:30</td>
<td>203 Abnormal Repetitive Behaviors and Compulsive Disorders</td>
<td>212 Wound-Healing Medications</td>
<td>218 Bovine Parasite Control, Part I: Worm Control Updates</td>
<td>224 Exercise Therapies for Pain Control in Dogs and Cats</td>
<td>225 Outside-the-Box Pain Management Strategies</td>
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<td>Pike</td>
<td>Beard</td>
<td>Zajac</td>
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<td>2:45</td>
<td>204 Hypothyroidism and Behavior: Is There a Link?</td>
<td>213 Wound Closure, Part I</td>
<td>219 Bovine Parasite Control, Part II: Familiar Favorites</td>
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<td>4:00</td>
<td>205 Psychopharmacology, Nutraceuticals, and Pheromones</td>
<td>214 Wound Closure, Part II</td>
<td>220 Pain Management in Livestock</td>
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<td>NATIONAL VETERINARY accreditation program</td>
<td>PET ANIMAL anesthesia &amp; pain management</td>
<td>PET ANIMAL cardiology</td>
<td>PET ANIMAL ophthalmology</td>
<td>PET ANIMAL orthopedic surgery</td>
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<tr>
<td>227 Module 9: Interstate and International Health Certificates for Category I Animals</td>
<td>233 My Favorite Local and Regional Blocks</td>
<td>239 Updates in Canine Cardiomyopathies</td>
<td>245 The Complete Ophthalmic Exam</td>
<td>251 A Comprehensive Review of the Orthopedic Exam</td>
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<td>228 Module 3: Overview of Foreign Animal, Program, and Reportable Diseases</td>
<td>234 Chronic Pain Treatment: Are You Using All You’ve Got? Part I</td>
<td>240 Treating Mitral Valve Degeneration after the EPIC Study</td>
<td>246 There is “Fun” in Funduscopy</td>
<td>252 Patella Luxation Pearls</td>
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<td>230 Module 4: Preventing Disease Introduction and Spread</td>
<td>236 Sedation and Anesthesia for Fractious, Aggressive Patients</td>
<td>242 Feline Hypertrophic Cardiomyopathy</td>
<td>248 What to Do When It All Looks Blue</td>
<td>254 The Mythical Meniscus</td>
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<td>Practice Management I</td>
<td>Practice Management II</td>
<td>Public Health</td>
<td>Recent Graduates</td>
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| 8:00 a.m. | **257** Finding and Retaining Associates: What's the Secret Sauce?  
  Lacroix | **263** Protecting You and Your Practice  
  Mouidedous | **269** Colleague and Client Resources from the Center for Food Security & Public Health  
  Canon | **275** Imaging of Gastrointestinal Obstruction  
  Biller | **281** Securing Gifts to Save More Lives  
  Cinis |
| 9:15 a.m. | **258** Current H.R. Trends, Part I  
  Lacroix | **264** Data Breach Live  
  Farley | **270** Excellence in Exhibition: Preventing Zoonoses Among Youth in Animal Agriculture  
  Biller | **276** Thoracic Radiography: Involves More than the Lungs and Heart  
  Canon | **282** Starting Smart: Animal Intake and Vaccine Protocols  
  Janeczko |
| 10:30 a.m. | **259** Current H.R. Trends, Part II  
  Lacroix | **265** Understanding the Intersection Between Cyberbullying and Trauma  
  Brandt | **271** Secure Food Supply Plans, Foreign Animal Diseases, and Lessons Learned from HPAI  
  Canon | **277** Panicking about Pulmonary Patterns  
  Biller | **283** Cleaning and Disinfection in Shelters: It Really is More Exciting than it Seems!  
  Karsten |
| 11:30 a.m. | **260** Reasons to Keep Your Employee Manual Current  
  Lacroix | **266** How to Protect Your Practice's Online Reputation, Part I  
  Bernstein | **272** Infection Control: Practical Tips for Small Animal Hospitals  
  KuKanich | **278** Intestinal Anastomosis: Tips to Make it Easier  
  Seim | **284** Mapping the Way: How to be a Successful Source Shelter  
  Janeczko |
| 13:00 p.m. | **261** Establishing Expectations for Performance Improvement and Accountability  
  Lacroix | **267** How to Protect Your Practice's Online Reputation, Part II  
  Bernstein | **273** Companion Animal Zoonoses of Importance  
  KuKanich | **279** Surgical Management of Canine Cystic and Urethral Calculi  
  Seim | **285** The Space-Time Continuum: Mastering Length of Stay and Pathway Planning, Part I  
  Karsten |
| 2:45 p.m. | **262** Managing Ethical Dilemmas in Your Practice  
  Lacroix | **268** How to Protect Your Practice's Online Reputation, Part III  
  Bernstein | **274** Antimicrobial Stewardship: How Can We Take Action?  
  KuKanich | **280** Surgical Management of Gastric Dilatation-Volvulus  
  Seim | **286** The Space-Time Continuum: Mastering Length of Stay and Pathway Planning, Part II  
  Karsten |
| 5:00 p.m. | **263** Protecting You and Your Practice  
  Mouidedous | **269** Colleague and Client Resources from the Center for Food Security & Public Health  
  Canon | **275** Imaging of Gastrointestinal Obstruction  
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| 5:00 p.m. | **264** Data Breach Live  
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  Canon | **277** Panicking about Pulmonary Patterns  
  Biller | **283** Cleaning and Disinfection in Shelters: It Really is More Exciting than it Seems!  
  Karsten |

**FEB. 22, 2019**

**Lunch & Exhibit Hall**

**5:00 p.m.**

**Exhibit Hall Hour**

**SPONSORED BY: AVMA | PLIT**

Protecting you through it all

**SPONSORED BY: STANTON FOUNDATION**

**SPONSORED BY: OAHF**

Kathryn A. Scott Charitable Trust
<table>
<thead>
<tr>
<th>Time</th>
<th>Shelter Animal II</th>
<th>Small Ruminants</th>
<th>Staff Development</th>
<th>Technician I</th>
<th>Technician II</th>
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<tbody>
<tr>
<td>8:00 a.m.</td>
<td>Dogs Playing for Life: An Enrichment Program for Shelter Dogs, Part I</td>
<td>Practical Parasite Management in Small Ruminants</td>
<td>Bias (or Worse) from Clients</td>
<td>Nursing Rounds: Not Just a Game of Telephone</td>
<td>Breed-Specific Anesthesia</td>
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<tr>
<td>1:30 p.m.</td>
<td>Common Diseases in Deer</td>
<td>Excuse Me, SIRS, is This Sepsis?</td>
<td>Feline Urethral Obstruction Anesthesia</td>
<td>Camelid Surgeries and Controlling Pain Down on the Farm</td>
<td>Post-Operative Analgesia</td>
</tr>
<tr>
<td>2:45 p.m.</td>
<td>Skin Diseases in Small Ruminants</td>
<td>Stayin’ Alive: A Crash Course in CPR</td>
<td>Pain Management in the Critical Patient</td>
<td>Become an Emergency Pro</td>
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</tbody>
</table>

**Continue learning about dog enrichment and see it firsthand in Shelter Visit: Dogs Playing for Life—in Action (Lab E) on Friday afternoon! See page 53 for details.**
## Friday, Feb. 22, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>WELLNESS</th>
<th>HANDS-ON labs</th>
<th>HANDS-ON labs</th>
<th>HANDS-ON labs</th>
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</table>
| 8:00  a.m. | **311** Introduction to Meditation and Mindfulness | **C** 8 a.m. – 1 p.m. Dental Extractions Made Easier  
Niemiec |  |  |  |
| 9:15  a.m. | **312** Developing Your Wellbeing Toolkit  
Reid |  |  |  |  |
| 10:30 a.m. | **313** Suicide Prevention Gatekeeper Training  
Haag Granello |  |  |  |  |
| 11:30 a.m. | **lunch & exhibit hall** |  |  |  |  |
| 12:45 – 5 p.m. |  |  |  |  |  |
| 1:30 p.m. | **314** Suicide Prevention Gatekeeper Training  
Haag Granello |  |  |  |  |
| 2:45 p.m. | **315** The Role of a Social Worker in Veterinary Practice  
Fuller and Nielsen |  |  |  |  |
| 4:00 p.m. | **316** Panel Discussion: Implementing Social Work Services in Veterinary Practice  
Abraham, Fuller, Nielsen, and Reid |  |  |  |  |
<p>| 5:00 p.m. | <strong>exhibit hall hour</strong> |  |  |  |  |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Category</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8:00</td>
<td>ANIMAL behavior</td>
<td>History Taking for Feline Cases: Get the Information You Need in the Time You Have</td>
<td>Pachel</td>
</tr>
<tr>
<td>9:15</td>
<td>ANIMAL behavior</td>
<td>Is Medical, Behavioral, or Both? How to Tease out the Details That Matter</td>
<td>Pachel</td>
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<tr>
<td>10:30</td>
<td>ANIMAL behavior</td>
<td>More Than Just a Naughty Cat: Understanding Feline Nuisance Behaviors</td>
<td>Pachel</td>
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<tr>
<td>11:30</td>
<td>Lunch</td>
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<tr>
<td>11:30</td>
<td>AQUACULTURE</td>
<td>Upper Airway Endoscopy of the Larynx and Arytenoid Cartilages</td>
<td>Beard</td>
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<tr>
<td>1:30</td>
<td>AQUACULTURE</td>
<td>Upper Airway Endoscopy of the Nasomaxillary Aperture and the Ethmoid Turbinates</td>
<td>Beard</td>
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<tr>
<td>2:45</td>
<td>AQUACULTURE</td>
<td>Upper Airway Endoscopy of the Guttural Pouch, Epiglottis, and Soft Palate</td>
<td>Beard</td>
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<td>4:00</td>
<td>FOOD animal</td>
<td>Mixed Animal Practitioners and Show Pig Medicine, Part I</td>
<td>Price</td>
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<tr>
<td>5:00</td>
<td>FOOD animal</td>
<td>Low-Stress Neurologic Exam for Patient and Clinician</td>
<td>Wagner</td>
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<tr>
<td>4:00</td>
<td>Holistic &amp; integrative medicine</td>
<td>A Comprehensive Approach to Pain</td>
<td>Wagner</td>
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<tr>
<td>10:30</td>
<td>HOLISTIC &amp; integrative medicine</td>
<td>An Integrative Approach to Cerebral Diseases, Part I</td>
<td>Wagner</td>
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<td>11:30</td>
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<tr>
<td>1:30</td>
<td>ANIMAL behavior</td>
<td>Inter-Cat Aggression: Strategies for Intervention Before the Fur Starts Flying!</td>
<td>Pachel</td>
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<td>2:45</td>
<td>ANIMAL behavior</td>
<td>Fearful, Frantic, or Frustrated? Causes of Human-Directed Feline Aggression</td>
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<td>4:00</td>
<td>ANIMAL behavior</td>
<td>Behavior Modification for Cats (Yes, You Read That Correctly!)</td>
<td>Pachel</td>
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<td>4:00</td>
<td>AQUACULTURE</td>
<td>Fish Water Quality</td>
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<td>4:00</td>
<td>AQUACULTURE</td>
<td>Parasitic Diseases in Fish</td>
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<td>AQUACULTURE</td>
<td>Biosecurity and Quarantine for Fish Systems</td>
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<td>EQUINE</td>
<td>Moving to Precision Medicine: Molecular Diagnostics and Next-Generation DNA Sequencing, Part I</td>
<td>Martin</td>
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<tr>
<td>4:00</td>
<td>EQUINE</td>
<td>Moving to Precision Medicine: Molecular Diagnostics and Next-Generation DNA Sequencing, Part II</td>
<td>Martin</td>
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<td>4:00</td>
<td>EQUINE</td>
<td>Perspectives on Proper Swine Handling</td>
<td>Moeller</td>
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<td>EQUINE</td>
<td>Treatment of Calf Diarrhea, Part I: Oral Electrolyte Therapy</td>
<td>Smith</td>
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<td>4:00</td>
<td>EQUINE</td>
<td>Treatment of Calf Diarrhea, Part II: IV Fluid Therapy</td>
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<td>4:00</td>
<td>EQUINE</td>
<td>Treatment of Calf Diarrhea, Part III: Ancillary Therapy</td>
<td>Smith</td>
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<td>EQUINE</td>
<td>Bacterial Biofilms: A Major Contributor to Resilient Infections</td>
<td>Rossi</td>
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<td>4:00</td>
<td>EQUINE</td>
<td>Understanding and Treating Thoracolumbar Disease</td>
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<td>4:00</td>
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<td>PET ANIMAL dermatology</td>
<td>PET ANIMAL gastroenterology</td>
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<td>8:00 a.m.</td>
<td>427 The Dreaded DKA: Updates for the Emergency Practitioner Burkitt</td>
<td>433 What’s New in Allergic Dermatitis, and Why is it Clinically Important to You? Hillier</td>
<td>439 Troublesome Diarrhea Cases in Cats: Tips on Diagnosis and Management Tams</td>
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<tr>
<td>9:15 a.m.</td>
<td>428 Is She a Standard Poodle? Treating the Addisonian in Crisis Burkitt</td>
<td>434 Getting it Right with the Itchy Dog: What Are You Missing? Hillier</td>
<td>440 Inflammatory Bowel Disease and Intestinal Lymphoma in Cats Tams</td>
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<tr>
<td>10:30 a.m.</td>
<td>429 Shock Fluid Therapy: What Type, How Much, and How Fast? Burkitt</td>
<td>435 Long-Term Relief for Atopic Dermatitis: Find the Anchor Treatment Hillier</td>
<td>441 Inflammatory Bowel Disease in Dogs: Update on Diagnosis and Therapy Tams</td>
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<td>lunch &amp; exhibit hall</td>
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<td>1:30 p.m.</td>
<td>430 Analgesia in Acute Illness: Life without Methadone Burkitt</td>
<td>436 Pyoderma Lessons: Case-Based Problems and Solutions Hillier</td>
<td>442 Update on Disorders of the Esophagus Tams</td>
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<td>2:45 p.m.</td>
<td>431 Feline Urethral Obstruction: Pointers for Keeping Him Unblocked Burkitt</td>
<td>437 What’s New in Scabies and Demodicosis Hillier</td>
<td>443 Management of Vomiting in Dogs and Cats Tams</td>
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<tr>
<td>4:00 p.m.</td>
<td>432 Snap, Crackle, Pop: E.R. Management of Thoracic Trauma Burkitt</td>
<td>438 Scary, Funky, and Not-So-Rare Skin Cases Hillier</td>
<td>444 Gastric Hypomotility in Dogs: More Common Than You May Think Tams</td>
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<td>5:00 p.m.</td>
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<td>8:00 a.m.</td>
<td>Don't Make These Pricing Mistakes!</td>
<td>Felsted</td>
<td>OAHF</td>
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<td>9:15 a.m.</td>
<td>Achoo! Is it the Flu? Recognizing and Responding to CIV in Shelters</td>
<td>Janeczko</td>
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<td>10:30 a.m.</td>
<td>Prevention and Control of Chronic Insidious Diseases of Sheep and Goats</td>
<td>Bowen</td>
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<td>1:30 p.m.</td>
<td>A “Paw-Pourri” of Unique Leadership, Management, and Marketing Ideas, Part I</td>
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<td>2:45 p.m.</td>
<td>Treatment and Control of Coccidiosis in Sheep and Goats</td>
<td>Bowen</td>
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<tr>
<td>4:00 p.m.</td>
<td>A “Paw-Pourri” of Unique Leadership, Management, and Marketing Ideas, Part II</td>
<td>Cartin</td>
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<td>TECHNICIAN II</td>
<td>TELEMEDICINE</td>
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| 8:00 a.m. | **487** Dental Charting: More than Just 'X's and 'O's  
Byard | **493** Tales of a Zoo and Exotic Pet  
Veterinarian, Part I  
Reichard | **499** Telemedicine I  
Little | **D2** 8 a.m. - 5 p.m.  
Aggression in Dogs:  
Defensive Handling and Training, Part II  
(Dog-to-Dog Aggression)  
McMillan and Shikashio |
| 9:15 a.m. | **488** Gaining Compliance: Bringing Dentistry to  
the Table  
Byard | **494** Tales of a Zoo and Exotic Pet  
Veterinarian, Part II  
Reichard | **500** Telemedicine II  
Little | |
| 10:30 a.m.| **489** Periodontal Disease: The Most Prevalent  
Disease in Veterinary  
Medicine  
Byard | **495** Tales of a Zoo and Exotic Pet  
Veterinarian, Part III  
Reichard | **501** Telemedicine III  
Little | |
| 11:30 a.m.| **490** How to Test for Adrenal Glands  
Cone Rogue  
Ward | **496** Radiographic Interpretation of  
Heart Disease  
Scansen | **497** Abnormal Heart  
Rhythms: Recognizing  
Cardiac Arrhythmias  
Scansen | **G** 1:30 - 4:30 p.m.  
Intraoral Radiology for Technicians  
Byard |
| 1:30 p.m. | **491** The Technician’s Role in Managing  
Diabetes Mellitus in Dogs and Cats  
Ward | **492** Feline Hyperthyroidism:  
Testing, Treating, and Monitoring  
Ward | **498** Blood Pressure  
Guidelines and Measurement  
Techniques  
Scansen | |
| 2:45 p.m. | **493** | **494** | **495** | **496** |
| 4:00 p.m. | **492** | **497** | **498** | |
| 5:00 p.m. | **491** | **495** | **497** | **498** |
| 5:00 p.m. | **490** | **496** | **499** | **D2** |

**LAB F SPONSORED BY:**

**LAB G SPONSORED BY:**

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*February 23, 2019*
# Sunday, Feb. 24, 2019

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<tr>
<th>Time</th>
<th>ANIMAL behavior</th>
<th>EQUINE</th>
<th>FOOD animal</th>
<th>HOLISTIC &amp; integrative medicine</th>
<th>PET ANIMAL endocrinology</th>
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<tbody>
<tr>
<td>8:00 a.m.</td>
<td><strong>600</strong> History Taking for Canine Cases: Get the Information You Need in the Time You Have</td>
<td><a href="#">606A</a> Nutritional Support of the Neonatal Foal – Dunbar</td>
<td><a href="#">609</a> Maximizing Calf Survival G. Smith</td>
<td><a href="#">612</a> Important Business Concepts for Integrative Veterinary Practices, Part I Todd</td>
<td><a href="#">618</a> Diagnosis and Treatment of Canine Hyperadrenocorticism Ward</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td><a href="#">602</a> Risk Assessment for Aggression Cases Pachel</td>
<td><a href="#">607B</a> What’s New with Equine Neonatal Sepsis? – Schroeder</td>
<td><a href="#">611</a> Controlling Respiratory Disease in Dairy Calves G. Smith</td>
<td><a href="#">614</a> Approaching Immunology with Traditional Chinese Veterinary Medicine, Part I Todd</td>
<td><a href="#">620</a> Oh Yes, Another Diabetic Patient, Part II Ward</td>
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<td>11:30 a.m.</td>
<td><strong>MVG Sunday Lunch with Coach John Tortorella</strong> 11:30 a.m.</td>
<td><a href="#">608A</a> What’s New with Equine Neonatal Diarrhea? – Schroeder</td>
<td><a href="#">615</a> Approaching Immunology with Traditional Chinese Veterinary Medicine, Part II Todd</td>
<td><a href="#">621</a> There is No Such Thing as a Typical Addisonian Ward</td>
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<td><strong>603</strong> More Than Good Recommendations: Navigating Difficult Conversations, Part I Pachel</td>
<td><a href="#">608B</a> Neonatal Pharmacology and Fluid Therapy: Differences Between Foals and Adults – Schroeder</td>
<td><a href="#">616</a> How to Mend a Broken Heart: Traditional Chinese Veterinary Medicine in Cardiac Cases, Part I Todd</td>
<td><a href="#">622</a> What’s up with Feline Hyperthyroidism? Ward</td>
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<td><a href="#">604</a> More Than Good Recommendations: Navigating Difficult Conversations, Part II Pachel</td>
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<td><a href="#">617</a> How to Mend a Broken Heart: Traditional Chinese Veterinary Medicine in Cardiac Cases, Part II Todd</td>
<td><a href="#">623</a> Common Endocrine Questions from Referring Veterinarians Ward</td>
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<td><a href="#">605</a> More Than Good Recommendations: Navigating Difficult Conversations, Part III Pachel</td>
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**Sponsored By:**
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- The Ohio State University Veterinary Medical Center
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<th>Time</th>
<th>PET ANIMAL feline medicine</th>
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<td>8:00 a.m.</td>
<td>624 Feline Anesthesia and Pain Management Aarnes</td>
<td>630 What Can Interventional Radiology Offer to Primary Care? Scansen</td>
<td>636 There’s Nothing Cute About Acute Kidney Injury Aciero</td>
<td>642 Making Cents of Inventory Management, Part I Hess</td>
<td>648 Crushing Compassion Fatigue: Yes, It’s Possible! Part I Quammen and R. Smith</td>
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<td>9:15 a.m.</td>
<td>625 Case Discussions in Feline Surgery Dudley</td>
<td>631 Tracheal Collapse Syndrome: Medical and Interventional Treatment Strategies Scansen</td>
<td>637 Improving the Quality of Life for Cats with Chronic Kidney Disease Aciero</td>
<td>643 Making Cents of Inventory Management, Part II Hess</td>
<td>649 Crushing Compassion Fatigue: Yes, It’s Possible! Part II Quammen and R. Smith</td>
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<td>10:30 a.m.</td>
<td>626 The Feline Lower Urinary Tract: Unique Challenges to Thinking Inside the Box Byron</td>
<td>632 Interventional Options for Urinary Tract Obstruction Scansen</td>
<td>638 Feline Lower Urinary Tract Disease: Help, I Can’t Pee! Aciero</td>
<td>644 Making Cents of Inventory Management, Part III Hess</td>
<td>650 Stress is Not Stress: How to Handle Human Stress Quammen and R. Smith</td>
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<td>627 Feline Dermatology: Common Case Presentations Theus</td>
<td>633 Vascular Interventions: Liver Shunts, Invasive Tumors, Epistaxis, and Thrombi Scansen</td>
<td>639 Identifying and Treating Hypertensive Patients Aciero</td>
<td>645 Simplifying Product and Service Pricing, Part I Hess</td>
<td>651 Becoming a Veterinary Rockstar through Self-Care Quammen and R. Smith</td>
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<td>12:15 p.m.</td>
<td>628 Recent Advances in the Treatment of Pre-Clinical and Symptomatic Feline Cardiomyopathy Schober</td>
<td>634 Interventional Cardiology: Patching Holes, Closing Ducts, and Replacing Valves Scansen</td>
<td>640 Nephrotoxicosis: Ethylene Glycol and Beyond Aciero</td>
<td>646 Simplifying Product and Service Pricing, Part II Hess</td>
<td>652 A Tale of Two Dogs: The Importance of Self-Care, Part I Quammen and R. Smith</td>
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<td>629 Feline Ophthalmic Disease and Therapy Cavens</td>
<td>635 Cardiology Cases: How Do I Treat Heart Disease? Scansen</td>
<td>641 Canine Incontinence: How Do We Turn Off This Spigot? Aciero</td>
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Feline Inappropriate Urination: Thinking Outside the Litter Box

Amy L. Pike, DVM, DACVB

Feline inappropriate elimination (FIE) is still the number one behavioral problem in cats—and the number one reason for relinquishment. This lecture will focus on felines that urinate in the household versus in the litter box. Attendees will learn what roles inter-cat conflict, lack of enrichment, preferences, and aversion play in the treatment of FIE.

Separation Anxiety: Covert and Overt Disease

Amy L. Pike, DVM, DACVB

Separation distress symptoms range from the obvious (destruction and house soiling) to the insidious, which causes a whole host of other behavioral disorders, including aggression. This session will discuss diagnosing and treating both overt and covert separation anxiety.

Aggression in Dogs: A to Z

Amy L. Pike, DVM, DACVB

In this talk, we will follow the alphabet to learn how to diagnose, manage, treat, and modify aggression in dogs. This session will cover everything attendees need to know to talk to their clients about the number one canine behavioral problem veterinary behaviorists treat.

Baby + Fido = Trouble

Amy L. Pike, DVM, DACVB

Bringing a dog into a family with children—or bringing home a two-legged baby into a family with a four-legged baby—can be an exciting time. However, without proper preparation and planning, it can also be a recipe for disaster. This session will review planning for and introducing human and canine babies into the same family. The presenter will share recommendations from her personal experience as both a mother and a veterinary behaviorist.

PTSD in Military Working Dogs

Amy L. Pike, DVM, DACVB

This session will discuss the latest clinical research on post-traumatic stress disorder (PTSD) in our four-legged soldiers, including clinical symptoms, treatment options, and resultant data for their two-legged counterparts.

Common Behavioral Problems in Working Dogs

Amy L. Pike, DVM, DACVB

This session will focus on some of the most common behavioral problems military working dogs experience, which can be extrapolated to other working and kenneled dogs.

Perineural and Intra-Articular Anesthesia: How Do I Figure Out Where This Lameness is Coming From?

Ryland B. Edwards III, DVM, Ph.D., DACVS, DACVSMR

Lameness examination and localization of lameness can be challenging. While some veterinarians love the puzzle of diagnosing lameness, others find it frustrating. In this session, attendees will understand the use of regional and intra-articular anesthesia and learn how to best isolate regions of the limb.

Thinking Like Cattle

Stephen L. Boyles, Ph.D.

Cattle think about one thing at a time. Cattle want to see you. Cattle want to
go around you. Cattle want to be with and go to other cattle. Cattle want to move away from pressure exerted on them. In order to carry out basic management practices when handling cattle, we need working facilities. Veterinarians need to create movement and then use positioning to control it—a process that works better when you can think the way cattle do. This session will explore ways to use what we know about how cattle think and process information to our benefit.

110 9:15 – 10:15 a.m.
Transferring Livestock and the Veterinarian’s Role in Highway Accidents
Stephen L. Boyles, Ph.D.
For many people in the general public, the only exposure they have to livestock production occurs when they see animals being transported on roadways—or, less frequently, when a semi-trailer overturns or is involved in a collision. How are these incidents handled? In this session, attendees will learn how the Bovine Emergency Response Plan provides a framework for veterinarians, emergency responders, and law enforcement to better address accidents involving cattle transport.

111 10:30 – 11:30 a.m.
Backyard Poultry: Individual Medicine and Surgery
Robert D. Dahlhausen, DVM, M.S.
As keeping backyard poultry becomes more popular, veterinarians are increasingly called upon to care for these “pet” birds. Unlike commercial flock management, backyard poultry are often treated on an individual basis. However, federal regulations regarding approved medications are the same for both commercial and private flocks. This two-part lecture will cover various aspects of husbandry, medicine, and surgery of both the individual bird and the small flock.

112 1:30 – 2:30 p.m.
The Role of Genetic Improvement on the Sustainability of Animal Agriculture
Alison L. Van Eenennaam, M.S., Ph.D.
It is hard to overemphasize the important role that genetic improvement plays on sustainability. For many years, breeders have artificially paired the best males and females, based on a predictive matrix that calculates the expected superiority of their offspring. Genetic improvement programs have a direct and tangible impact on issues consumers care about, including access to safe, nutritious food produced with a reduced environmental footprint. This session will explore how food animal breeding programs offer consumers substantial benefits—and, conversely, how forestalled innovation in this field can be equally detrimental. Warning: This session will include a bad music video parody!

113 2:45 – 3:45 p.m.
Genetic Testing in Bovine Practice
Alison L. Van Eenennaam, M.S., Ph.D.
Genetic testing can be used for a variety of purposes, ranging from the identification of carriers of genetic conditions, to parentage testing, to genomic tests for genetic evaluation. But what kind of sample should you submit? Do you want to test parentage and paternity, or single genes for genetic conditions? What is the difference between high- and low-density chips and imputation? Which companies provide genetic testing, and how much does it cost? What should you do with the results? In this session, the basic questions of DNA testing will be answered. Where available, results of independent, peer-reviewed studies reporting on the accuracy of these tests will also be presented.
delivery. The presenter will also discuss dosage determination and several strategies to decide on a dose. Case examples of formula preparation will be reviewed, as well as herbal labeling.

118 1:30 – 2:30 p.m.
Food Therapy
Laurie Dohmen, VMD, M.S.
This lecture will discuss using food as medicine—both with and without herbs—and home cooking for pets. Balanced diets for healthy animals as well as those with chronic disease will also be presented.

Adaptogens: A Natural Method of Coping with Stress
Laurie Dohmen, VMD, M.S.
Adaptogens are stress-reducing herbs that help the body cope with physical, mental, emotional, and environmental stressors. They also aid the body in reaching homeostasis. This lecture will start with a detailed explanation of adaptogens as an herbal group, followed by a presentation of monographs for several herbs.

PET ANIMAL clinical pharmacology
127 8 – 9 a.m.
When Can I Just Give Cefovecin? Empirical Antibiotic Treatment in Dogs and Cats
Melissa Clark, DVM, Ph.D., DACVCP, DACVIM
Appropriate empirical antibiotic choices depend on the infected site and expected pathogens, as well as the anticipated host immune response. The development and release of a long-acting injectable antibiotic in the late 2000s provided a much-needed alternative in certain situations involving susceptible organisms and difficult-to-medicate pets. However, for other infections, use of this antibiotic may not be appropriate. This session will review guidelines on empiric therapy for various bacterial infections (e.g., skin, urinary tract, respiratory tract) and discuss the antibacterial spectrum and pharmacokinetic properties of cefovecin and other available antibiotic choices.

128 9:15 – 10:15 a.m.
Assessing and Managing Pain in Exotic Companion Mammals
Cheryl B. Greenacre, DVM, DABVP (Avian & Exotic)
The results of many recent studies in the laboratory animal sector have offered a great deal of new information on assessing pain in exotic companion mammals and the efficacy of various pain relievers. In this lecture, attendees will learn the latest findings on how to assess and manage pain in exotic companion mammals.

PET ANIMAL avian & exotic
121 8 – 9 a.m.
Emergency Presentations and Procedures in Birds
Cheryl B. Greenacre, DVM, DABVP (Avian & Exotic)
This lecture will provide an overview of common avian emergencies, including blood loss, trauma, dehydrotion, toxin exposure, acute manifestation of a chronic disease, and egg binding. The discussion will focus on various available treatments and preparing for the next emergency that comes in the clinic door.

122 9:15 – 10:15 a.m.
Geriatric Diseases of Pet Birds
Cheryl B. Greenacre, DVM, DABVP (Avian & Exotic)
This session will discuss common diseases found in the aging pet population, as well as the latest in treatment options. Chronic nutritional diseases (hypovitaminosis aflatoxin exposure, obesity), neoplasia (lipoma, renal and gonadal tumors, adenocarcinoma, squamous cell carcinoma), heart disease, atherosclerosis, cataracts, and arthritis will be covered.

123 10:30 – 11:30 a.m.
Euthanasia of Birds in Practice
Cheryl B. Greenacre, DVM, DABVP (Avian & Exotic)
This session will review both the approved and conditionally approved methods of euthanizing various species of birds, as well as what is realistic in a practice setting. The AVMA Guidelines for Euthanasia will be the basis for the talk.

124 1:30 – 2:30 p.m.
Rabbit and Guinea Pig Surgery
Cheryl B. Greenacre, DVM, DABVP (Avian & Exotic)
This lecture will offer an overview of surgeries performed on rabbits and guinea pigs, including elective procedures, such as castration, ovariohysterectomy, ovarectomy, and ovariohysterovaginectomy. Attendees will also learn about emergency surgeries, orthopedic procedures, and dentistry.

125 2:45 – 3:45 p.m.
Rabbit and Guinea Pig Medicine
Cheryl B. Greenacre, DVM, DABVP (Avian & Exotic)
This session will review common diseases of rabbits and guinea pigs that require non-surgical treatment, such as gastrointestinal stasis, pasteurellosis, encephalitozoonosis, and parasites. The presenter will focus on identifying the disease and how to treat it.

126 4 – 5 p.m.
Simma Down Na: Pharmacological Management of Hypertension
Melissa Clark, DVM, Ph.D., DACVCP, DACVIM
Systemic hypertension can accompany a variety of underlying disease
processes and must be addressed in a timely manner to mitigate target organ damage. Options for management in veterinary medicine include adrenergic antagonists, ACE inhibitors, calcium channel blockers, direct arterial vasodilators, and angiotensin receptor blockers. In this session, mechanisms of action, pharmacodynamic properties, adverse effects, and efficacy data for these medication classes will be discussed to provide background on choosing an appropriate antihypertensive for a particular patient.

129
10:30 – 11:30 a.m.
New Drugs for Cats: What’s on the Horizon?
Melissa Clark, DVM, Ph.D., DACVCP, DACVIM
This session will review recent literature regarding drugs used for treatment of feline diseases. The discussion will include drugs or novel drug formulations recently approved in the U.S., drugs that are still under investigation for feline use but have significant potential, and contemporary uses for previously approved drugs. Data regarding extralabel use in cats of drugs recently approved for dogs (e.g., grapiprant) will also be reviewed.

130
1:30 – 2:30 p.m.
Common Drug, Uncommon Reaction: Recognizing and Managing Adverse Drug Reactions
Melissa Clark, DVM, Ph.D., DACVCP, DACVIM
The goal of this session will be to increase practitioners’ awareness of potential adverse drug reactions and facilitate avoidance of the “prescribing cascade,” in which a new medication is prescribed to address the unrecognized adverse effects of a previous medication. Adverse effects of commonly used drugs that have been reported in the literature and, in some cases, observed by the presenter will be reviewed. General principles for recognition and management of adverse drug reactions will also be discussed.

131 2:45 – 3:45 p.m.
Extralabel Drug Use in Small Animals: What Are the Rules?
Melissa Clark, DVM, Ph.D., DACVCP, DACVIM
Because of the relatively small number of approved veterinary drugs, extralabel drug use is a daily part of practice in veterinary medicine. However, there is still confusion regarding appropriate prescription of human drugs, veterinary drugs not labeled for the indication, compounded drugs for pets, and the legal requirements surrounding such prescriptions. This session will review differences between approved animal drugs and other formulations, as well as discuss when and how human drugs (name brand or generic), veterinary drugs for off-label use, and compounded medications can be appropriately prescribed.

132 4 – 5 p.m.
Update on Drugs for Dogs
Melissa Clark, DVM, Ph.D., DACVCP, DACVIM
This session will review recent literature and information regarding drugs used for treatment of canine diseases. The discussion will include drugs and drug formulations recently approved in the U.S., as well as contemporary uses for previously approved drugs.

PET ANIMAL dentistry

133 8 – 9 a.m.
Oral Pathology
Brook A. Niemiec, DVM, DAVDC, DEVDC, FAVD
This session will offer an in-depth look at oral pathologies commonly seen in veterinary patients. Using numerous high-quality images, the speaker will present the pathophysiology and ramifications, as well as diagnostic and treatment options. Topics of discussion will also include clinical signs of dental disease; fractured, abscessed, and retained deciduous teeth; discolorations; tooth resorption; malocclusions; neoplasia; enamel hypoplasia; and immune-mediated disease.

134 9:15 – 10:15 a.m.
Periodontal Disease and Therapy for the General Practitioner
Brook A. Niemiec, DVM, DAVDC, DEVDC, FAVD
Periodontal disease is the most common condition seen in small animal practice, but treatment of this malady is poorly understood and technically sensitive. This presentation will review the pathophysiology of periodontal disease and its importance to clients, patients, and your practice, as well as its local and systemic consequences. Subject matter covered in this lecture will include proper diagnosis; therapeutic options; performing a thorough dental prophylaxis consisting of supra and subgingival cleaning, polishing, sulcal lavage, fluoride treatment, recognition of dental pathology, and periodontal probing; dental charting; treatment of pathologic pockets with closed root planning and local antimicrobial therapies; and home care.

135 10:30 – 11:30 a.m.
Dental Radiology Techniques and Basic Interpretation
Brook A. Niemiec, DVM, DAVDC, DEVDC, FAVD
Taking dental radiographs needn’t be a daunting or difficult task. In this session, attendees will learn a simple system to get the shot right the first time. The lecture will begin with a discussion of radiation safety and equipment options, including digital systems, followed by an explanation of a simplified
method of dental radiology exposure. Finally, basic interpretation skills for the most common dental conditions—including periodontal disease; trauma; neoplasia; infected, abscessed, and dead teeth; and deciduous dentition—will be covered.

136 Dental Extractions Made Easier
Brook A. Niemiec, DVM, DAVDC, DEVDC, FAVD
This lecture will begin with a comparison of the best equipment options for dental extractions and a brief discussion of regional anesthesia. The majority of the session will cover the techniques necessary for optimal success, minimal operator stress, and atraumatic extraction of teeth, concluding with a discussion of proper sectioning of multi-rooted premolar and molar teeth. All skill levels, from new graduates to seasoned practitioners, will benefit from this session. Note: This session is a pre-requisite for Lab C – Dental Extractions Made Easier.

137 Surgical Extractions and Complications
Brook A. Niemiec, DVM, DAVDC, DEVDC, FAVD
Building upon the techniques covered in the previous lecture, the presenter will discuss surgical extractions for difficult teeth, including canines, carnassials, and ankylosed, as well as proper flap creation, alveolar bone removal, sectioning, and closure (emphasizing tension release). Finally, avoiding and treating complications—such as fractured and retained root tips, oronasal fistulas, and iatrogenic fractures—will be covered. Note: This session is a pre-requisite for Lab C – Dental Extractions Made Easier.

138 Dental Therapy: The Next Level
Brook A. Niemiec, DVM, DAVDC, DEVDC, FAVD
Veterinary dentistry is much more than just cleanings and extractions. For example, the pathologies presented in Sessions 133 to 134 would benefit from advanced therapies. While some of these procedures, such as endodontics and orthodontics, are expensive to initiate and difficult to grasp, others are easy to learn and require minimal investment. This lecture will cover the two undertreated areas in veterinary dentistry: Periodontics and restorative dentistry. In the periodontal portion of the lecture, closed and open root planing, gingivectomy, various flap techniques, and bone regeneration (i.e., guided tissue regeneration) will be covered. In the second half, restorative therapies, such as bonded sealants for uncomplicated crown fractures and composite restorations for enamel hypocalcification and carries, will be explained.

140 Raw Food Diets: Radical or Reasonable?
Andrea J. Fascetti, VMD, Ph.D., DACVIM (SA), DACVN
Raw food diets are often referred to by the acronym “BARF,” which stands for “bones and raw food” or “biologically appropriate raw food.” Proponents of raw food diets proclaim many health benefits associated with this feeding regime, stating that dogs and cats are carnivores and, as such, they evolved eating raw food. However, there have been no studies to date to support that this feeding approach has any long-term health benefits compared with feeding other types of pet food. Despite the absence of such studies, some research has analyzed the nutritional performance, as well as the possible risks and benefits, of “BARF” diets. This lecture will examine the scientific studies behind raw food diets to determine whether they are reasonable—or just plain radical.

141 Debunking Nutritional Myths from the Internet and Beyond
Andrea J. Fascetti, VMD, Ph.D., DACVIM (SA), DACVN
Many owners turn to “Dr. Google” to find guidance on how to feed their pets. However, much of the information on the internet is not peer-reviewed and can sound very scientific, when in actuality, it is anything but. This makes it difficult for clients to decide what information to accept and what to reject. Therefore, veterinarians and their staff
should be aware of what information is out there and how to address questions and concerns when they arise. This lecture will cover some of the popular nutrition-related topics from blogs and other websites to help sort through what is true, and what is false—or at least not scientifically supported.

142 1:30 – 2:30 p.m.
**Cats and Carbs: What Have We Learned from Science, Research, and Clinics?**
**Andrea J. Fascetti, VMD, Ph.D., DACVIM (SA), DACVN**

Nitrogen, amino acids, fatty acids, vitamins, and minerals are all essential nutrients for the cat. However, there are no established nutritional minimums for carbohydrates. Once the concentrations of the essential nutrients are met, energy is usually still required. Carbohydrates are often included as an energy source that can spare protein, and they can also help with the technological aspects of food formulation and production. However, the role of carbohydrates has come under intense scrutiny in recent years—particularly for the cat, an animal considered to be a strict carnivore. This lecture will address questions regarding carbohydrate consumption in cats, focusing on the areas of obesity and diabetes mellitus.

143 2:45 – 3:45 p.m.
**Common Nutrition Questions from Veterinarians Asked and Answered**
**Andrea J. Fascetti, VMD, Ph.D., DACVIM (SA), DACVN**

This lecture will tackle frequent nutrition questions veterinarians may need to answer in practice. Topics covered will include ketogenic diets and when they are appropriate; the use of over-the-counter limited-ingredient diets to diagnose adverse food response; instances in which an over-the-counter diet can replace a veterinary therapeutic diet; and how to control two medical problems in the same patient (for example, chronic kidney disease and pancreatitis) by combining different diets (such as a therapeutic kidney disease diet with a low-fat diet) that alleviate symptoms of both.

144 4 – 5 p.m.
**Timely Nutrition Topics in Veterinary Medicine**
**Andrea J. Fascetti, VMD, Ph.D., DACVIM (SA), DACVN**

Recently, the FDA has issued a number of warnings regarding pet food and treats on the market. Pet owners often turn to their veterinarians to help them understand these problems and to seek guidance with regard to any testing or dietary changes that might be indicated as a result. The goal of this lecture will be to heighten awareness regarding several current issues that involve pet food or pet treats, which may impact some of your patients. In this session, jerky treats, Fanconi syndrome, and taurine-deficiency dilated cardiomyopathy in dogs will be covered, as well as emerging research on dietary phosphorus and feline kidney disease.

**PRACTICE MANAGEMENT I**

145 8 – 9 a.m.
**The Five Items You Need Before You Start a Media Campaign**
**Kerry K. Heaps**

Have you ever heard other veterinarians being interviewed on TV or the radio and think, “Why can’t I do that?” Well, you can! It’s a lot easier than you think, not to mention inexpensive, to gain media attention and to set yourself apart from other hospitals in your area. Increased positive exposure in the media will share your message with potential clients, who will begin to recognize you as the expert. In this session, attendees will learn the five major elements of a successful media campaign.

146 9:15 – 10:15 a.m.
**Find the Right Person to Help You Become a PR Machine**
**Kerry K. Heaps**

Become a public relations machine! In this session, attendees will find out where they can look for media opportunities online. Tips for hiring the right person to do all the back-end work that will get you an interview will also be shared.

147 10:30 – 11:30 a.m.
**The 90-Day Media Blitz**
**Kerry K. Heaps**

Looking for new, fresh ideas for your media campaigns? This session will cover how to use industry changes and create a media calendar to ensure your interviews, blog posts, and articles are unique and original. Attendees will also learn how to integrate their media experiences into their existing marketing routines, newsletters, and events.

148 1:30 – 2:30 p.m.
**Create Speaking Opportunities with Your Media Coverage**
**Kerry K. Heaps**

In this session, participants will learn how to leverage media interactions to secure speaking opportunities that allow them to educate the community and create a marketing activity that can promote their practices year-round.

149 2:45 – 3:45 p.m.
**How Media Coverage Can Impact Search Engine Optimization**
**Kerry K. Heaps**

If you’ve ever received a bad review from a former customer on a website such as Yelp or Angie’s List, positive media coverage can help you turn that around. Attendees will learn how increased marketing efforts—such as
Podcast interviews and writing for well-known blog sites—can bury those negative reviews in a matter of months.

150 4 – 5 p.m.

Be Part of our “Media Hot Seat”
Kerry K. Heaps
Chances are, other veterinary hospitals are plagued with the same obstacles that stunt your practice growth—such as difficulties gaining publicity or creating a marketing strategy. This session is your chance to get one-on-one assistance on creating new media opportunities. Volunteers from the audience will take the hot seat and, with the speaker, create a custom 90-day plan for media coverage at their practice.

PRACTICE management II

151 8 – 9 a.m.

Current Issues at the Ohio Veterinary Medical Licensing Board
Cynthia D. Kidd, DVM and Kimberly A. Riker-Brown, DVM
Board members will discuss current and future issues dealing with the regulation of veterinary medicine in Ohio.

152 9:15 – 10:15 a.m.

Ohio Pharmacy Regulations
Cameron J. McNamee, MPP
This session will offer an overview of key pharmacy regulations that Ohio veterinary clinics must comply with.

153 10:30 – 11:30 a.m.

Ohio Wild Animal Rehabilitation: How Can I Help?
Melissa Moser
Caring for wild animals is a unique and rewarding opportunity presented to Ohio’s wildlife rehabilitators. One of the many challenges for these individuals is finding a veterinarian willing to support them. Not all veterinarians know they are permitted to assist with wild animal care in Ohio. In this session, attendees will hear an overview of the rules and regulations governing wildlife rehabilitation. Topics will include emergency versus long-term care, when a permit is required, rabies as it relates to animal rehabilitation, euthanasia, nuisance wildlife, and social media and other methods of communicating with the public on wild animal issues.

154 1:30 – 2:30 p.m.

Managing USP 800 (Hazardous Drug Handling) Expectations in Veterinary Practice
Matthew Verbsky, DVM, M.S.
United States Pharmacopeia General Chapter 800 (USP 800) sets standards for the safe handling, disposal, cleaning, and documentation of carcinogenic, toxic, teratogenic, and other hazardous drugs. This session will provide information and tools to aid the veterinary team in working within the guidelines of USP 800 to minimize the risk of exposure to healthcare personnel, clients, patients, and the environment.

155 2:45 – 3:45 p.m.

Service and Emotional Support Animals: Navigating the Veterinarian’s Role
Jack R. Advent, CAE and Meghan E. Herron, DVM, DACVB
What protections and access are legally and legitimately afforded to service and support animals? What are the various state and federal laws governing public access requirements and the designation process of such animals? Veterinarians are becoming increasingly involved in this conversation. How does one evaluate the temperament of an animal to serve in such a role, and when it is actually appropriate to do so? Participants in this session will gain a greater understanding of the behavioral assessment process, as well as when, where, and how it is legally appropriate to respond to such requests.

156 4 – 5 p.m.

Animal Bites 101
Amber Singh, DVM, MPH
This session will cover animal bite-related reporting requirements and quarantine procedures in Ohio.

PUBLIC health

157A 8 – 8:30 a.m.

Influenza and Zoonosis in Show Pigs
Joshua N. Lorbach, DVM
Public health officials’ concern over the emergence of pandemic influenza A virus (IAV) is exacerbated by spillover of the virus from swine to humans at state and local fairs. IAVs circulating in fair swine are highly diverse, and surveillance at fairs effectively captures IAV genotypes capable of causing human infection. This 30-minute session will discuss research comparing and contrasting swine-origin IAVs with zoonotic IAVs causing human variant cases.

157B 8:30 – 9 a.m.

Subtype Diversity of IAV in Waterfowl
Elena R. Mircoff, MPH-VPH
Researchers at The Ohio State University used 40 years of influenza A virus (IAV) surveillance data from waterfowl to understand trends of seasonal IAV subtype diversity. This 30-minute session will discuss how the prevalence of IAV and its dominant subtypes fluctuate throughout the year as waterfowl migrate between breeding and wintering grounds.

158A 9:15 – 9:45 a.m.

Compassion Fatigue and Burnout in Laboratory Animal Medicine
Carrie L. Freed, MLAS, DVM, DACLAM
Compassion fatigue and burnout are all too common in veterinary
medicine—and companion animal practitioners aren’t the only ones affected. Working with animals in a laboratory setting can bring on these conditions as well. In this 30-minute session, compassion fatigue and burnout in lab animal medicine will be discussed, as well as what can be done to help personnel conquer them.

158B 9:45 – 10:15 a.m.
Parasites Breaking the Rules and Crossing Borders
Antoinette Marsh, M.S., Ph.D., J.D.
This 30-minute session will cover recent reports of parasites not following typical biological behavior, such as *Haemaphysalis longicornis* (the longhorned tick) undergoing parthenogenetic reproduction, or dogs in *Dracunculus medinensis* (Guinea worm) life cycle. We will also discuss at least one public health reason why routine fecal examination are needed despite the assortment of dewormers on the market.

159 10:30 – 11:30 a.m.
What’s All the Fuss about the Microbiome?
Vanessa L. Hale, MAT, DVM, Ph.D.
The microbes living within and on us and our patients and the genes they encode are collectively known as the microbiome. While much of our clinical work is dedicated to eliminating microbial infections or contaminants, a growing body of research reveals how critical these communities are to overall health, pathogen defense and susceptibility, immune function, and even behavior. This session will broadly introduce the microbiome, its role in health and disease, and its current and future clinical applications.

160A 1:30 – 2 p.m.
Veterinarians and Food: An Overview of FSIS
Vaughn K. Taylor-Lehman, DVM, SPHV
At the United States Department of Agriculture Food Safety and Inspection Service (USDA FSIS), veterinarians play a major role in the safety of our nation’s commercial supply of meat, poultry, and processed egg products. This broad-based half session will provide an introduction to FSIS and explore the responsibilities of a federal veterinarian. Attendees will learn about the tools regulatory veterinarians use to make informed decisions in food production environments, the challenges and rewards of being the first line of food defense, updates to regulatory policy with respect to food safety, and explore benefit options and current career opportunities with USDA FSIS. Learn how you can use your veterinary education to make a difference in the lives of Americans every day!

160B 2 – 2:30 p.m.
Meat and Poultry Inspection Updates
Matthew S. Flenner, EIAO and Nelson D. Weaver, DVM
This half-hour session will give an overview of the verification activities conducted by the state meat and poultry inspection program and the impact on Ohio consumers.

161A 2:45 – 3:15 p.m.
An Update on Zoonotic Disease Programs in Ohio
Amber Singh, DVM, MPH
In this 30-minute lecture, reportable zoonotic diseases in humans will be discussed, as well as animal rabies surveillance in Ohio.

161B 3:15 – 3:45 p.m.
Veterinarian Roles in the Air Force
Kelly J. Gambino-Shirley, DVM, MPH
This half-hour session will explain the role of a U.S. Air Force public health officer and how veterinarians can be of service.

162A 4 – 4:30 p.m.
Government Update: Agriculture and Animal Diseases
Tony M. Forshey, DVM
This 30-minute presentation will provide updates from the Ohio Department of Agriculture and its Animal Disease Diagnostic Laboratory in the past year.

162B 4:30 – 5 p.m.
Government Update: USDA Veterinary Services
Susan M. Skorupski, M.S., DVM
This half-hour session will provide updates on Veterinary Services programs, projects, policies, and disease activities since February 2018. Topics will include traceability and animal identification, virulent Newcastle disease outbreak, emergency response and preparedness, swine disease cases, One Health activities, and other timely issues.

SHELTER ANIMAL I

163 8 – 9 a.m.
164 9:15 – 10:15 a.m.
Crime Scene Photography
Richard J. Meadows III, MCI, MET
Photographs, along with proper documentation, can make or break an animal cruelty case—so it’s important to obtain high-quality images that accurately illustrate a crime scene. This two-part presentation will discuss the proper photographs to take at a crime scene and what type of camera should be used. Attendees will learn about overall, mid-range, and close-up crime scene photographs and get an introduction to camera controls and the effect of light on your photographs. Photography terms such as aperture, shutter speed, and ISO will also be explained.
Evidence Collection and Packaging

Richard J. Meadows III, MCI, MET
Collecting evidence at crime scenes should be consistent, as well as done in accordance with best practices and accepted standards. During this presentation, we will cover the basis of trace evidence, what to look for when examining a crime scene, basic collection techniques, and proper packaging.

Humane Agent Training: Large-Scale Search Warrants

Elysse D. Rathbone
This two-part session will explain in depth how to obtain, prepare, and execute a search warrant in a large-scale animal cruelty, hoarding, or fighting situation.

The Use of Social Media in Humane Investigations

Elysse D. Rathbone
This session will explore how humane agents can integrate social media into their current investigation techniques and discuss the importance of establishing a well-rounded suspect profile. A case study will presented to illustrate the use of Facebook in an April 2016 dogfighting investigation.

Integrating Kennels and Floors

Jeff Adney and Greg N. Taylor, B.A., MBA
Epoxy and other high-end floors are what many practice owners desire for their facilities, but they also consistently generate expensive problems. Kennels are another high-ticket item that must work and fit with the facilities' floors. This presentation will discuss the most common floors in kennels and the respective costs, pros and cons, and how to avoid potential disasters. Time will also be spent on kennel floor seals, design, drain options, and how to reduce cross contamination.

What’s That Smell? Pros and Cons of Kennel Drain Options

Greg N. Taylor, B.A., MBA
This presentation will focus on the pros and cons of different drains, as well as the hard and soft costs. We will also explore how different isolation panels and their respective floor seals work with cleaning and drains. Finally, we will spend some time discussing various cleaning practices and tools, including wet-dry systems, and how they work with different drains.

Canine Housing Design Trends

Greg N. Taylor, B.A., MBA
Kennels are an important part of any shelter facility, allowing staff to safely accept new occupants that may be harboring infections as well as house long-term tenants. They are also one of the most expensive line items in an organization's budget. In this session, attendees will learn about recent advancements and dramatic improvements in kennel design and materials that will allow their shelters to safely house the animals in their care.

Trends in Cat Housing and Design for Less Fear and Stress

Greg N. Taylor, B.A., MBA
Over the past five years, new research has indicated numerous benefits of larger living areas with more shelving that are separated from food and water. As a result, the animal shelter community is starting to rethink traditional cat housing. A wider array of building materials and designs are beginning to replace the ubiquitous stainless-steel cubes as shelters seek facility designs that cause less fear and stress in their feline inhabitants.
they are past the new hire phase, while providing relief and extra time to your practice manager’s daily routine.

**STAFF development**

**175**  
**Implicit Bias: What Is It? What Is It Not?**  
*Mary Jo Burkhard, DVM, Ph.D., DACVP*  
This session will address common questions about implicit bias—unconscious stereotypes and attitudes, both favorable and unfavorable, that affect our behavior toward certain individuals. How do we become aware of the unconscious forces that influence our choices and decisions? What is the neuropsychology behind stereotypes? How does the impact of these unconscious biases differ from intentional ones? And finally, is implicit bias the same as the “isms” (racism, sexism, etc.)?

**176**  
**Bias: Whom Aren’t We Serving as a Profession?**  
*Mary Jo Burkhard, DVM, Ph.D., DACVP*  
“The times, they are a changin’.” Our potential client base is evolving rapidly, and experts predict even more changes by mid-century. This session will examine demographic data of both our profession and the nation as a whole, as well as the unintentional signals we may be sending to our clients.

**177**  
**Avoiding Bias in the Workplace**  
*Mary Jo Burkhard, DVM, Ph.D., DACVP*  
Bias can impact our recruitment and hiring decisions, as well as affect equitable treatment in the workplace. However, efforts to increase bias awareness alone may not enough—and may actually be counterproductive. In this session, we’ll look at some of the data to see where and how bias shows up and discuss what tactics have been shown to work.

### TECHNICIAN I

**178**  
**Getting the Most from an Eye Examination**  
*Eric J. Miller, DVM, M.S., DACVO*  
This lecture will cover elements of the ocular examination, including routine diagnostics such as the Schirmer tear test, vision testing, intraocular pressure measurement, culture, and cytology. We will also explore how and when these tests are best performed, how to properly restrain patients, and how to get the most information from the tools available to you.

**179**  
**Common Ocular Manifestations of Systemic Disease**  
*Eric J. Miller, DVM, M.S., DACVO*  
Diseases like lymphosarcoma, diabetes mellitus, hypertension, and infections (e.g., tick-borne diseases) often have ocular involvement or manifestations. In this talk, attendees will learn about some of the more common systemic diseases that result in ocular problems, as well as diagnostics, treatments, and possible outcomes. We will also explore what to look for in each of these instances in order to understand prognosis and achieve the best outcomes.

**180**  
**Drugs and Toxins That Cause Ocular Disease**  
*Eric J. Miller, DVM, M.S., DACVO*  
This session will cover ocular toxicities from common drugs and hazardous substances to which our patients may be exposed. The discussion will focus on the approach to recognizing, preventing, and, when possible, treating some of the toxicities we face in practice.

### TECHNICIAN II

**181**  
**Electrocardiography for the Veterinary Technician**  
*Joshua A. Stern, DVM, Ph.D., DACVIM (Cardiology)*  
This session will focus on developing a practical approach for using electrocardiography to assess veterinary patients. It will present a method for rapid identification and relevant management strategies for the common arrhythmias encountered in practice.

**182**  
**Managing Cardiovascular Emergencies: Approaches for the Veterinary Technician**  
*Joshua A. Stern, DVM, Ph.D., DACVIM (Cardiology)*  
This session will present a case-based discussion of veterinary technicians’ role in managing cardiovascular emergency patients, emphasizing triage assessment, and monitoring for unstable cardiac patients.

**183**  
**Caring for Patients in Congestive Heart Failure**  
*Joshua A. Stern, DVM, Ph.D., DACVIM (Cardiology)*  
This session will focus on patient care strategies for dogs and cats with congestive heart failure. We will use case examples to highlight best practices in nursing care and patient monitoring.

**184**  
**Is Fido in Pain? Unravelling the Mystery of Pain Assessment**  
*Jennifer F. Johnson, VMD, CVPP*  
Identification of pain in patients is a critical nursing skill, vital to providing the best and most appropriate care. This session will explore available
options for performing pain assessment in small animal species, useful metrology tools, client and in-clinic questionnaires, and helpful measurements to objectively document analysis and data.

185 9:15 – 10:15 a.m.
186 10:30 – 11:30 a.m.

**Beyond the Laser: Rehabilitation for the Small Animal Practice**

*Jennifer F. Johnson, VMD, CVPP*

So, your small animal practice has a therapy laser, and you feel pretty good about using it to help all of those dogs and cats with osteoarthritis and pain. Let's take it another step! This interactive two-part session will teach you how to present a basic rehabilitation program to your clients. With only a few tools, you can move beyond simple laser treatments, educating pet owners on the basics of musculoskeletal strengthening using exercises and simple props. Techniques for measuring progress will also be discussed, as well as suggestions for implementing this valuable service in your hospital.

187 1:30 – 2:30 p.m.
188 2:45 – 3:45 p.m.
189 4 – 5 p.m.

**Digital Thermal Imaging: Unlocking the Clues to Patient Health**

*Jennifer F. Johnson, VMD, CVPP*

With the more frequent use of digital infrared thermography, veterinarians and technicians have found another tool for their pain assessment and management toolbox. Thermal images may aid in unlocking the clues to continue our daily clinical pain investigation—easily and noninvasively. This three-part lecture will first examine the science behind thermal imaging and the published evidence supporting its use in veterinary medicine. During the second hour, we will explore veterinary cases using thermal imaging to diagnose and monitor various conditions. An in-depth discussion regarding the feasibility of incorporating thermal imaging into your practice will be the focus of the final hour.
ANIMAL behavior

200 8 – 9 a.m.
The Other End of the Leash: How to Deal with the Owner’s Behavior
Amy L. Pike, DVM, DACVB

Sometimes the most frustrating part of our job is dealing with the owners! Many of us got into veterinary medicine because we loved animals—not humans. But the dogs and cats cannot bring themselves in to the clinic for an exam. So, how do we deal with pet owners’ behavior without losing sleep? This session will discuss effective methods of working with humans—instead of against them.

201 9:15 – 10:15 a.m.
Cognitive Dysfunction in Dogs and Cats
Amy L. Pike, DVM, DACVB

Cognitive dysfunction syndrome (CDS) in dogs and cats is an under-diagnosed and infrequently addressed disorder, yet it is one for which we can make strides in terms of prevention and symptom treatment. And, it’s a great money-maker and helps bond owners with the practice long term. In this session, attendees will find out the latest research, prevention, and treatment options for CDS.

202 10:30 – 11:30 a.m.
Pain and Behavior: What is the Link?
Amy L. Pike, DVM, DACVB

Behavior disorders are such a pain... literally as well as figuratively: Pain can result in significant behavior changes without obvious clinical evidence of pain. In this lecture, we will explore the role that pain plays in behavior problems, treatment options for chronic pain, and some case studies.

203 1:30 – 2:30 p.m.
Abnormal Repetitive Behaviors and Compulsive Disorders
Amy L. Pike, DVM, DACVB

Over and over and over again. When your patients repeatedly chase their tails, pursue light and shadows, or suck on their blanket or flanks, what is a clinician to do? In this session, attendees will learn about compulsive disorders in dogs and cats, as well as the latest treatment modalities. Videos of various disorders in cats, dogs, and zoo animals will be used to illustrate the concepts.

204 2:45 – 3:45 p.m.
Hypothyroidism and Behavior: Is There a Link?
Amy L. Pike, DVM, DACVB

Trainers have latched on to the idea that hypothyroidism causes behavioral disorders, but what does the research say? Is a thyroid test required? This lecture will answer those questions and more.

205 4 – 5 p.m.
Psychopharmacology, Nutraceuticals, and Pheromones
Amy L. Pike, DVM, DACVB

This lecture will cover the most common behavioral therapeutics, including nutraceuticals, pheromones, and psychopharmaceuticals. Using information presented in the previous sessions, the speaker will dive deep into the products available to treat a variety of common disorders.

206 8 – 9 a.m.
Incorporating Aquatic Patients into Veterinary Practice
Jessie M. Sanders, DVM, CertAqV

Pet fish are entitled to the same high-quality veterinary care as cats, dogs, and other warm-and-fuzzy pets. Most pet fish are kept in homes with other animals, which means that any practicing veterinarian can benefit from expanding their services into aquatics. But how do you get started? What do you need? How do you get training and education? Never fear—the fish vet is here! In this session, the speaker will guide attendees through the entire process of getting into wet pets, no prior experience required. All you need is a willingness to get wet!

207 9:15 – 10:15 a.m.
Surgery in Pet Fish
Jessie M. Sanders, DVM, CertAqV

Surgical therapy for pet fish can provide an end to needless suffering and improve quality of life. In this session, learn how a few modifications to your setup and technique will allow you to provide surgical procedures to fish that can greatly benefit them and their system.

208 10:30 – 11:30 a.m.
Anesthesia and Pain Management in Fish
Jessie M. Sanders, DVM, CertAqV

Administering anesthesia to and managing pain in fish are required for a wide variety of applications, including general exams, trauma treatment, and surgical procedures. This session will discuss how, when used together, anesthesia and pain management strategies can allow fish to undergo treatment with minimal suffering.

AQUACULTURE

209 8 – 9 a.m.
Axial Skeleton Lameness: Managing and Treating Neck, Back, and Pelvis Problems
Ryland B. Edwards III, DVM, Ph.D., DACVS, DACVSMR

The neck, back, and pelvis regions were once widely ignored during lameness
examination of the horse. Physical examination, clinical signs, and diagnostic techniques—such as radiography, ultrasonography, and scintigraphy—often help us identify causes of lameness in this region. In this session, medical and surgical management of conditions affecting these regions will be discussed, in addition to equine rehabilitation programs.

210 9:15 – 10:15 a.m.
How to Use Platelet-Rich Plasma, Bone Marrow, Stem Cells, Dental Cell Particles, and Bisphosphonates
Ryland B. Edwards III, DVM, Ph.D., DACVS, DACVSMR
Biologic and regenerative medications are widely used in equine lameness and surgery; some are even available off the shelf. Furthermore, many biologic and regenerative medications can be processed stall- or patient-side and do not require incubation or a follow-up trip for treatment. This session will review the products currently available to equine practitioners and explore their applications in lameness, wound healing, and ophthalmic conditions.

211 10:30 – 11:30 a.m.
Common Surgical Conditions in the Sport Horse: What Do They Mean for the Horse’s Career?
Ryland B. Edwards III, DVM, Ph.D., DACVS, DACVSMR
Sport horses are prone to injuries of the tendons in the digital sheath and other synovial structures, stifle lameness, and suspensory injury. This session will review these injuries, as well as surgical conditions of the back, that equine practitioners may encounter during a lameness examination.

212 1:30 – 2:30 p.m.
Wound-Healing Medications
Warren L. Beard, DVM, M.S., DACVS
This presentation will cover the use of commonly available equine wound medications, with a focus on matching these medications with specific phases of wound healing. Attendees will learn why wound medication use must be constantly reevaluated throughout the healing process, as well as the reasons many commonly used medications are contraindicated.

213 2:45 – 3:45 p.m.
Wound Closure
Warren L. Beard, DVM, M.S., DACVS
This two-part presentation will use case examples to cover many pitfalls and mistakes—as well as successes—the speaker has encountered in a career of managing equine wounds. It will cover wound assessment, clinical decision making, and the scientific basis behind these choices.

FOOD animal

215 8 – 9 a.m.
Understanding Genomics, Genetic Engineering, and Gene Editing
Alison L. Van Eenennaam, M.S., Ph.D.
A range of modern biotechnologies are used in food animal breeding programs, many of which have emerged in the past decade. There are several different terms used to describe—and sometimes malign—these breeding methods, including genomics, genomic-enhanced expected progeny differences (GE-EPDs), genetically modified organisms (GMOs), genetic engineering, precision breeding, transgenic, cisgenic, recombinant DNA technology, and Frankenfood! This session will outline each of these biotechnologies and discuss where they have been and might be used in the genetic improvement of animals, with a special emphasis on the use of these technologies to address animal disease. There will also be a discussion of the proposed national and international regulatory framework for these technologies.
1:30 – 2:30 p.m.
**Bovine Parasite Control, Part I: Worm Control Updates**
Anne M. Zajac, DVM, Ph.D., DACVM (Parasitology)
Dewormer drug resistance is growing, and existing drugs should be used only in ways that will preserve their activity for as long as possible. This session will discuss managing dewormers, a simple way to evaluate their efficacy, and how they can be combined with other control practices.

2:45 – 3:45 p.m.
**Integrative Pain Management for Degenerative Joint Disease, Part II: Beyond Pharmaceuticals**
Janice L. Huntingford, DVM, DACVSMR, CVA, CVPP, CCRT, CAVCA
Managing pain in the arthritic dog can be challenging and requires a multimodal approach. Rehabilitation therapies—such as hot and cold therapy, massage, stretching, electrical stimulation, exercise, acupuncture, laser, and herbal therapies—are some of the treatment options. This session will explore these methods, as well as discuss platelet-rich plasma and stem cell therapy, assistive devices, and home modifications.

9:15 – 10:15 a.m.
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10:30 – 11:30 a.m.
**Outside-the-Box Pain Management Strategies**
Janice L. Huntingford, DVM, DACVSMR, CVA, CVPP, CCRT, CAVCA
Many clients express interest in pain management strategies that don’t involve drugs. This session will discuss three alternative therapies pet owners want to learn about: Acupuncture, pulsed electromagnetic field (PEMF) therapy, and cannabidiol (CBD). Do they work? Can we use them in our patients, and if so, how? This will be a discussion for “outside the box” thinkers and those who simply want to know more.

4 – 5 p.m.
**Using Integrative Medicine to Improve Treatment of Neurological Disease**
Janice L. Huntingford, DVM, DACVSMR, CVA, CVPP, CCRT, CAVCA
Neurological diseases can be difficult to treat with conventional medication. This presentation will focus on the use of acupuncture, herbs, and specific rehabilitation techniques to treat animals with neurological conditions such as seizures, intervertebral disk disease, degenerative myelopathy, fibrocartilaginous embolism, and Wobbler’s disease. Emphasis will be placed on what can be done in first-opinion practice.
response— including the National Animal Health Emergency Response Corps (NAHERC), Veterinary Medical Assistance Teams (VMAT), National Veterinary Response Team (NVRT), and state response—will be compared and contrasted. Understanding the structure of a response and how it is coordinated is key to its success; thus the various components related to the National Incident Management System (NIMS), Incident Command System (ICS), National Response Framework (NRF), and the Emergency Support Function (ESF) will be reviewed. Finally, the components of Foreign Animal Disease Preparedness and Response Plan/National Animal Health Emergency Management System (FAD PReP/NAHEMS) Guidelines will be described so veterinarians can comprehend what types of duties they will perform in an actual event.

230
1:30 – 2:30 p.m.
Module 4: Preventing Disease Introduction and Spread
Ronald Southerland, DVM
This module will review disease prevention practices to limit exposure in animals and people, including how to select appropriate personal protective equipment. Proper implementation of cleaning protocols and selection of effective disinfectants to prevent disease spread will also be discussed. Finally, biosecurity practices for both veterinary clinics and livestock facilities will be covered.

231
2:45 – 3:45 p.m.
Module 8: International Movement of Horses
Karen Grube, DVM
This module will illustrate the scope of international equine travel and the economic factors associated with its growth, including examples of disease outbreaks that have occurred throughout the world. Proper completion of health certificates for temporary or permanent movement will also be described. Emphasis will be placed on responsibilities of accredited veterinarians, including isolation procedures, required laboratory tests, and accurate completion of international health certificates. The session will culminate in an interactive scenario demonstrating the process for permanently exporting a horse internationally.

PET ANIMAL anesthesia & pain management

233
8 – 9 a.m.
My Favorite Local and Regional Blocks
Tamara Grubb, DVM, Ph.D., DACVAA
Local and regional blocks should be a standard component of analgesia protocols. They are effective, inexpensive, and easy to do. In this session, the speaker will share her favorite blocks. There may be some that you are using, too—but there may also be some new ones that you should try!
Chronic Pain Treatment: Are You Using All You’ve Got?
Tamara Grubb, DVM, Ph.D., DACVAA
Chronic pain, which is becoming increasingly common, can be severely debilitating and difficult to treat. Treatment should include a multimodal approach of environmental modification, activity enhancement, pharmaceuticals, and non-pharmaceutical therapy. In this two-part lecture, non-traditional drugs will be the focus of discussion.

Sedation and Anesthesia for Fractious, Aggressive Patients
Tamara Grubb, DVM, Ph.D., DACVAA
Fractious and aggressive patients can be very difficult and downright dangerous to anesthetize. Not only do they present a danger to the staff, but they also generally require a much larger dose of sedative and anesthetic drugs than calmer patients. Because the adverse effects of such drugs are generally dose dependent, these patients are at a higher risk for anesthesia-related morbidity and even mortality. This session will explore ways to minimize the risks for both patient and practitioner.

Anesthesia and Analgesia Must Haves: 10 Things You NEED in Your Practice!
Tamara Grubb, DVM, Ph.D., DACVAA
There may be equipment, techniques, or drugs that would make anesthesia and analgesia better and safer in your practice. Do you have everything you need? Come to this session to find out!

Opioid Update: What Now?
Tamara Grubb, DVM, Ph.D., DACVAA
The opioid situation—availability, ability to dispense, etc.—is changing daily. In this lecture, attendees will be updated on its current status, along with protocols for opioid-reduced or even opioid-free analgesic protocols.

PET ANIMAL cardiology

Updates in Canine Cardiomyopathies
Joshua A. Stern, DVM, Ph.D., DACVIM (Cardiology)
Commonly seen in dogs, dilated and arrhythmogenic cardiomyopathies are exciting areas of research in disease mechanisms, diagnosis, and therapies. This lecture will review the current literature and recent advances in the diagnosis and management of these conditions and develop an algorithm for managing them.

Treating Mitral Valve Degeneration after the EPIC Study
Joshua A. Stern, DVM, Ph.D., DACVIM (Cardiology)
The EPIC (Evaluation of Pimobendan In dogs with Cardiomegaly) Study was the largest veterinary cardiology study in history, and its results have revolutionized the management of pre-heart failure mitral valve disease. This lecture will review the preclinical management options for dogs with mitral valve degeneration, focusing on what we have learned from the recent EPIC study and how this may alter the treatment of these patients prior to heart failure.

Management of Cardiac Arrhythmias
Joshua A. Stern, DVM, Ph.D., DACVIM (Cardiology)
Diagnosis and management of cardiac arrhythmias are challenging, which is why developing a strategy for rapid and accurate interpretation of electrocardiograms is extremely valuable for clinical veterinarians. This lecture will discuss methods to diagnose and manage cardiac arrhythmias, from ICU to home-care strategies. Case examples will be used to highlight diagnostic and treatment criteria for tachyarrhythmias and bradyarrhythmias of cats and dogs.
of respiratory distress can be challenging. Identifying whether this distress is secondary to primary pulmonary disease or cardiac disease is important, as it may result in very different treatment plans. This lecture will focus on evaluating feline patients from a clinical perspective, highlighting diagnostic ways to differentiate between cardiac and respiratory disease and treatment recommendations for each.

PET ANIMAL ophthalmology

245 8 – 9 a.m.  The Complete Ophthalmic Exam
Elizabeth A. Giuliano, DVM, M.S., DACVO
Ocular disease may be intimidating to treat when a practitioner is unsure of the diagnosis. This lecture will review the basic techniques of a complete ophthalmic examination, with the goal of helping the practitioner localize the ocular problem. In doing so, veterinarians will be able to narrow the possible differential diagnosis and further hone the diagnostic workup. Emphasis will be placed on correctly obtaining the minimum ophthalmic database and the anterior segment exam.

246 9:15 – 10:15 a.m.  There is “Fun” in Funduscropy
Elizabeth A. Giuliano, DVM, M.S., DACVO
This lecture will review useful techniques for the visualization of the posterior segment of the ocular exam. Video will be used to help audience members master the techniques presented.

247 10:30 – 11:30 a.m.  The Seven Deadly Corneal Colors: What Are They Telling Us?
Elizabeth A. Giuliano, DVM, M.S., DACVO
As veterinarians, we know that any decrease in corneal clarity is indicative of a pathologic process. Virtually all pathologic alterations are associated with a defining color change. Learning to recognize and interpret these color changes and the mechanisms responsible for them provides a simple and logical approach to diagnosis of corneal and some intraocular diseases. In this session, we will review “the seven deadly corneal colors” together.

248 1:30 – 2:30 p.m.  What to Do When It All Looks Blue
Elizabeth A. Giuliano, DVM, M.S., DACVO
This lecture will provide easy tips for remembering what the core differentials are for a blue eye. We will then build on those differential diagnoses to discuss the appropriate diagnostic workup of various ophthalmic abnormalities that result in a blue eye. Finally, we will review various treatment strategies. This lecture will use case examples to ensure that key points are understood and remembered.

249 2:45 – 3:45 p.m.  Glaucoma: We’ve Gotta Get a Move On
Elizabeth A. Giuliano, DVM, M.S., DACVO
Glaucoma is a multifactorial disease characterized by an elevation of intraocular pressure (IOP) beyond what is compatible with the health of the eye. Ocular pain and blindness result if and when the patient becomes refractory to medical or surgical management for glaucoma. Loss of vision can be rapid! This session will discuss what veterinarians can do to help save patients’ vision and improve ocular comfort for as long as possible.

250 4 – 5 p.m.  It’s Red and Hot: Can You Diagnose and Treat Uveitis?
Elizabeth A. Giuliano, DVM, M.S., DACVO
Uveitis, inflammation in the eye, represents a significant blinding disease in veterinary ophthalmology. Early recognition and treatment are imperative, as the structural and functional abnormalities that accompany uveitis frequently result in permanent—and often rapid—vision loss. More importantly, uveitis may be a clinical finding in systemic disease, which could ultimately compromise the patient’s general health. This session will offer an overview of the clinical signs and treatment of uveitis.

PET ANIMAL orthopedic surgery

251 8 – 9 a.m.  A Comprehensive Review of the Orthopedic Exam
Stephen C. Jones, MVB, M.S., DACVS-SA
Many veterinarians are so intimidated by the idea of performing an orthopedic examination that they often avoid it altogether. However, when performed in a methodical and repetitive way, even the novice veterinarian can master this important diagnostic tool. Each part of the exam—taking a detailed history, studying the patient’s gait, briefly evaluating its neurologic condition, and finally, conducting the orthopedic exam itself—gives the examiner additional information that will ultimately localize the source of pain or lameness and guide additional diagnostics. In this lecture, attendees will be given a detailed and comprehensive explanation of the orthopedic exam, and videos will be used heavily to illustrate the complete process.

252 9:15 – 10:15 a.m.  Patellar Luxation Pearls
Stephen C. Jones, MVB, M.S., DACVS-SA
Patellar luxation is a developmental disease that results in the abnormal movement of the patella, medially or laterally, out of the trochlear groove of the distal femur. This condition typically affects small and toy breed dogs; however, large and giant breed dogs, as well as cats, can also be affected.
Conformational abnormalities of the coxofemoral joint, femur, stifle joint, and tibia can change the direction of forces from the quadriceps mechanism, resulting in luxation. In this lecture, the etiology, clinical findings, and diagnostics in dogs with patellar luxation will be reviewed. Additionally, the presenter will provide practical tips on how to surgically address these cases and help attendees recognize additional comorbidities that may make conventional patellar luxation repair challenging.

253 10:30 – 11:30 a.m.
What’s New in the Surgical Management of Cruciate Disease?
Stephen C. Jones, MVB, M.S., DACVS-SA
Cranial cruciate ligament disease (CrCLD) is a leading cause of pelvic limb lameness in the dog. The cranial cruciate ligament (CrCL) prevents cranial translation of the tibia on the femur, limits internal tibial rotation, and impedes hyperextension of the stifles. The CrCL maintains stability of the stifles, and CrCL injury will thus result in joint instability and predispose the joint to degenerative changes. This lecture will cover history and physical examination findings in dogs with partial and complete CrCLD. We will also discuss the pros and cons of the most common surgical repair methods for dogs with CrCLD: Extracapsular repair and the tibial plateau leveling osteotomy (TPLO).

254 1:30 – 2:30 p.m.
The Mythical Meniscus
Stephen C. Jones, MVB, M.S., DACVS-SA
Meniscal injury is commonly encountered in association with cranial cruciate ligament (CrCL) rupture; isolated meniscal injuries in companion animals are very rare. Furthermore, the medial meniscus is injured much more frequently than the lateral meniscus. Up to 77 percent of dogs with CrCL rupture have concurrent medial meniscal injury. Failure to recognize and treat the meniscus can lead to ongoing morbidity, pain, and lameness, even in the face of appropriate stabilization of the cruciate-deficient stifles joint. This lecture will discuss the etiology, classification, diagnosis, and treatment of meniscal injury in companion animals.

255 2:45 – 3:45 p.m.
Management of Juvenile Hip Dysplasia
Stephen C. Jones, MVB, M.S., DACVS-SA
Canine hip dysplasia (CHD) is a developmental disease of the coxofemoral joint and is one of the most common causes of lameness in dogs. Genetics are now known to play an important role in the etiology of CHD; however, other factors such as nutrition, environment, and hormones are also thought to have a significant impact. Most cases of CHD are diagnosed in patients above middle age. Unfortunately, once degenerative joint disease (DJD) develops, treatment options become limited. This talk will discuss the benefits of early diagnosis of hip dysplasia and the additional treatment options that are available for this subset of patients. Specific preventive surgical interventions for younger dogs—including juvenile pubic symphysiodesis and double pelvic ostetomy—will also be covered.

256 4 – 5 p.m.
Pins, Wires, and Fixators
Stephen C. Jones, MVB, M.S., DACVS-SA
There are multiple ways to repair fractures. While the use of plates and screws with locking screw technology has emerged as a preferred repair method for many veterinarians, this method does not preclude appropriate repair of fractures with pins, wires, and fixators. This lecture will give an overview of intramedullary pinning technique for all appropriate long bones. We will also discuss the use of pin and tension band repair, cerclage application; and the use of linear, circular, and hybrid external skeletal fixation for fracture fixation.

PRACTICE management I

257 8 – 9 a.m.
Finding and Retaining Associates: What’s the Secret Sauce?
Charlotte Lacroix, DVM, J.D.
Employees are our most valuable assets. Without a well-trained, highly motivated staff, it is difficult for any business to achieve its strategic vision and performance goals. Every practice will need to hire someone at some point, and the decision to do so should not be taken lightly or made without careful talent acquisition planning. This session will explore how to devise and implement a hiring strategy that will yield the greatest opportunity to attract and retain talent.

258 9:15 – 10:15 a.m.
Current H.R. Trends
Charlotte Lacroix, DVM, J.D.
To protect a hospital and ensure fair and consistent workplace practices, it is crucial to write clear and comprehensive human resource (H.R.) policies that are then distributed to and discussed with staff. In this two-part session, attendees will learn about hot topics in the world of H.R. that require well-thought-out, enforceable policies. Topics to be covered may include unionization, millennials, the “me too” movement, opioids, marijuana, drug testing, and bullying.

259 10:30 – 11:30 a.m.
Reasons to Keep Your Employee Manual Current
Charlotte Lacroix, DVM, J.D.
Having an employee manual that sets the right tone, clearly communicates
Managing Ethical Dilemmas in Your Practice
Charlotte Lacroix, DVM, J.D.
The news is rife with stories involving ethical decisions, usually because someone’s ethics have been found wanting. In some cases, these decisions were simply the result of someone not spending enough time determining appropriate behaviors or, worse, intentionally making unethical choices. Even the most ethical people can sometimes struggle with deciding what actions are most appropriate to take. To add to the mix: in the professional arena, few industries have as many ethical and legal obligations to as many parties as those in the veterinary field. This session will cover how you can help your staff make ethical decisions and how to handle it when they don’t.

Establishing Expectations for Performance Improvement and Accountability
Charlotte Lacroix, DVM, J.D.
Are all of your employees perfect in every way? Do they always do their best work while simultaneously following all your rules, protocols, and policies? Do you count your blessings every day for the opportunity to supervise and manage such a wonderful staff? Hopefully, your answers to these questions are yes; more than likely, some or all of them are no. Ultimately, every practice will be confronted with the challenge of disciplining employees for not doing what they are supposed to do. Handled correctly, it can help an employee turn around his or her behavior or performance. But if done incorrectly, you and your practice may find yourselves in legal hot water. This session will discuss how to approach these conversations, set appropriate expectations for staff, and hold them accountable.

Protecting You and Your Practice
Nina Mouledous, DVM
This discussion will give practitioners tips on how to avoid both practice and malpractice claims. Additionally, attendees will learn about the appropriate types of coverage needed for individual practices to ensure broad protection against liability claims (general and professional), board complaints, and losses unique to veterinary medicine and practice owners (biologicals, damage caused by patients, mobile practice, workers compensation and more). Actual closed claims will be reviewed to illustrate the importance of implementing strong risk management tools to lower the incidence of claims and complaints.

Data Breach Live
John Farley, CIPP/US
In this session, attendees will experience data breach demonstrations and learn best practices to safeguard their technology, sensitive information, and reputation.

Understanding the Intersection Between Cyberbullying and Trauma
Jennifer Brandt, MSW, LISW-S, Ph.D.
In this seminar, attendees will learn the components of cyberbullying and the risk of overusing the term to describe behaviors that don’t meet the criteria. This session will also discuss factors associated with increased vulnerability to cyberbullying, intervention strategies, and effective methods for coping with cyberbullying that can be utilized at both the individual and organizational levels.

How to Protect Your Practice’s Online Reputation
Erik Bernstein
Online search and social media have revolutionized how reputation is measured. Word-of-mouth communication is immediate and knows no borders; the skeletons in your closet show up on page one of Google search; and even a single upset individual—whether they have a valid complaint or are simply looking to be a bully—can wreak havoc on your business. Your reputation is your most valuable asset. Are you doing all you can to protect it? In this three-part session, attendees will learn how their practice’s reputation can be affected by conversations online, ways to handle negative comments, and methods for safeguarding your good name.
Each day, veterinarians contribute to public health. Educating clients, from small animal owners to livestock producers, is essential to improving both animal and human health. The Center for Food Security and Public Health offers zoonotic disease resources, including fact sheets, handouts, and web-based courses. These materials, many available in both English and Spanish, are used globally to raise awareness and to provide education for the general public, producers, and health professionals. This session will review the many educational materials available for audiences of all ages and educational backgrounds and how to access them. Participants will leave this session with a wealth of information to share with clients, colleagues, and staff.

Imaging of Gastrointestinal Obstruction
David S. Biller, DVM, DACVR
One of the most difficult and often-missed diagnoses in clinical practice is gastric and small internal obstructions. This session will use case examples and demonstrations to enhance recent graduates’ interpretation skills, as well as offer recommendations for other imaging modalities.

Antimicrobial Stewardship: How Can We Take Action?
Kate KuKanich, DVM, Ph.D., DACVIM (SAIM)
This presentation will describe ways in which human healthcare professionals are implementing antibiotic stewardship principles into practice and suggest how the veterinary community can make practical, real-world changes in our practices to use antibiotics more responsibly as well.

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Thoracic Radiography: Involves More than the Lungs and Heart
David S. Biller, DVM, DACVR
Accurate interpretation of thoracic radiographs is dependent upon a practitioner’s knowledge of normal anatomy of the thorax, among other things. This session will explain a technique to interpret thoracic radiographs, concentrating on normal and using abnormal examples.

Panicking about Pulmonary Patterns
David S. Biller, DVM, DACVR
Radiographic examination of the lungs can help confirm pulmonary disease. In this session, attendees will learn how
radiographs can assist them in evaluating the severity and chronicity of disease; determining etiology; pinpointing the location of disease; and monitoring associated changes in the lung, progression, and regression.

278 1:30 – 2:30 p.m.  
Intestinal Anastomosis: Tips to Make it Easier  
Howard B. Seim III, DVM, DACVS  
When performing an intestinal resection and anastomosis by yourself (i.e., with no assistant to help!), there are ways to make it easier. In this session, recent graduates will learn about several alternative techniques that can be incorporated into their current approach to make this common procedure easier and safer. Video of clinical cases will be used to illustrate these techniques.

279 2:45 – 3:45 p.m.  
Surgical Management of Canine Cystic and Urethral Calculi  
Howard B. Seim III, DVM, DACVS  
In this session, attendees will learn a “never fail” technique for retropulsion of calculi lodged in the urethra of male dogs. Surgical management of cystic calculi will also be discussed, and the presenter will demonstrate a new protocol that eliminates the possibility of leaving a stone behind during a cystotomy. Video of clinical cases will be used to illustrate all procedures.

280 4 – 5 p.m.  
Surgical Management of Gastric Dilatation-Volvulus  
Howard B. Seim III, DVM, DACVS  
This seminar will focus primarily on the surgical management of gastric dilatation-volvulus (GDV) patients and intraoperative decision making. The speaker will present his preferred method for gastric derotation and the technical aspects of performing a 10-minute incisional gastropexy. Video of clinical cases will be used extensively to give participants a real-life experience.

SHELTER animal I

281 8 – 9 a.m.  
Securing Gifts to Save More Lives  
Daniel B. Ginis, MSW  
This session will provide an overview of fundraising practices and strategies that humane organizations large and small use successfully. Key topics will include understanding what motivates donors, securing gifts through bequests, and telling your shelter’s story to maximize fundraising results.

282 9:15 – 10:15 a.m.  
Starting Smart: Animal Intake and Vaccine Protocols  
Stephanie Janeczko, DVM, M.S., DABVP, CAWA  
Because the experiences leading up to and during intake can have a profound effect on the behavior, health, and wellbeing of animals, it’s not surprising that solid intake protocols are one of the foundational building blocks of a strong shelter medical program. This session will cover standard medical health protocols, including physical examination, vaccination, deworming, and diagnostic disease testing at the time of intake—and how these key protocols can improve animal welfare and increase positive outcomes by setting animals up to succeed.

283 10:30 – 11:30 a.m.  
Cleaning and Disinfection in Shelters: It Really is More Exciting than it Seems!  
Cynthia L. Karsten, DVM, DABVP (Shelter Medicine Practice)  
A thorough, documented sanitation plan is vital to keeping animals, people, and the shelter itself comfortable and healthy. By making use of research and empowering staff members to embrace the plan, shelters can have successful sanitation programs that support the health and welfare of all animals and people in the facility. This involves understanding the most important areas on which to focus and why, managing the population and supporting it with sufficient resources and staffing levels, properly using humane housing, providing training, and holding people accountable. A successful sanitation plan will allow shelters to be more effective in achieving their goals. This lecture will present all the information needed to create such a plan… and have fun doing it!

284 1:30 – 2:30 p.m.  
Mapping the Way: How to be a Successful Source Shelter  
Stephanie Janeczko, DVM, M.S., DABVP, CAWA  
Whether you’re considering starting a transport program, already sending animals, or don’t yet know much about how animals move between shelters, this session will cover practical information to help you save more lives. Topics to be discussed include selection of at-risk animals, minimum health requirements, and best practices to ensure your organization becomes a source shelter that your partners can’t wait to receive animals from!

285 2:45 – 3:45 p.m.  
The Space-Time Continuum: Mastering Length of Stay and Pathway Planning  
Cynthia L. Karsten, DVM, DABVP (Shelter Medicine Practice)  
Length of stay (LOS) is increasingly recognized as a critical factor in shelter management, with implications for animal health, welfare, cost, and ultimately the capacity to save lives. One common concern is that shortening the LOS can have negative impacts by preventing animals from getting needed care, impeding appropriate
outcomes, or, worse yet, hastening to euthanize. This should never be the case. Rather, systematic efforts should be made to minimize LOS to result in an appropriate outcome for every animal, whether that means it is returned to its owner, transferred, adopted, sent back to the original location, or, in the case of coordinated entry, perhaps never entering the shelter at all. In this two-part session, attendees will learn about and discuss the science of the space-time continuum in shelters and how, with effective decision making and pathway planning, we really do have control over it.

SHELTER animal II

Dogs Playing for Life: An Enrichment Program for Shelter Dogs
Aimee Sadler

Dogs live to play...Now let them play to live! Hundreds of shelters across the country and beyond have touted that the benefits of playgroups far outweigh the perceived risks. In this three-part lecture, attendees will learn how playgroups can enhance quality of life—for shelter dogs as well as their caretakers—and improve adoption matching. This presentation will be packed with videos demonstrating how playgroups are an enrichment, training, assessment, and behavior modification tool that provide an efficient and effective way to care for even large populations of sheltered dogs. Attendees are invited to continue their learning with a demonstration of shelter playgroups during an off-site shelter visit (see page 53) in the afternoon. These sessions are pre-requisites for Lab E - Shelter Visit: Dogs Playing for Life—In Action.

290  8 - 9 a.m.
Practical Parasite Management in Small Ruminants
Anne M. Zajac, DVM, Ph.D., DACVM (Parasitology)

Despite widespread drug resistance, parasites can be controlled. In this session, attendees will hear recommendations for effective dewormer use in combination with other parasite control strategies, as well as an update on what changes are on the horizon.

291  9:15 - 10:15 a.m.
Why Bother with Fecal Egg Counts in Small Ruminants?
Anne M. Zajac, DVM, Ph.D., DACVM (Parasitology)

Many sheep and goat producers are interested in fecal egg counts and even in learning how to do them. Getting numbers is easy, but interpreting them is more challenging. In this session, attendees will learn how to help producers use this data for evaluating drug efficacy and, more importantly, for improving resistance to parasites within individual herds and flocks. They will also find out how resistance can be compared within breeds across herds using the National Sheep Improvement Program Estimated Breeding Value for parasite resistance.

292  10:30 - 11:30 a.m.
Identifying and Treating Neurologic Disease in Small Ruminants
C. Austin Hinds, DVM, M.S., DACVIM-LA

Neurologic disease is somewhat common in the small ruminant and camelid patient. This session will discuss common neurologic diseases, how to differentiate among them, and practical treatment strategies.

293  1:30 - 2:30 p.m.
Common Diseases in Deer
Margaret A. Masterson, DVM, M.S., DACVPM

This session will provide attendees with an update on common diseases that are treated in white-tailed deer.

294  2:45 - 3:45 p.m.
Skin Diseases in Small Ruminants
Margaret A. Masterson, DVM, M.S., DACVPM

This session will cover deficiencies, toxicities, infections, and parasites that cause skin diseases in sheep, goats, and camelids.

295  4 - 5 p.m.
Camelid Surgeries and Controlling Pain Down on the Farm
Pamela G. Walker, DVM, M.S., DACVIM (LAIM)

Many surgeries and procedures can be safely performed on alpacas and llamas on the farm—and learning how to do them will expand a practice's service offerings. This session will review castrations, Cesarean sections, flushing tear ducts, skin biopsies for micron counting, and more, using myriad photos as illustration. Different methods for controlling pain during and after these procedures will also be discussed.

296  8 - 9 a.m.
Bias (or Worse) from Clients
Mary Jo Burkhard, DVM, Ph.D., DACVP

Any staff member of a veterinary practice may be the target of bias, microaggressions, or harassment from clients. This session will discuss emerging information from human healthcare that provides an overview of incidences and best practices for prevention and intervention.
297 9:15 – 10:15 a.m.
Bias and Intersectionality
Mary Jo Burkhard, DVM, Ph.D., DACVP
A person brings their whole self, along with all their experiences and beliefs, to work every day. This session will examine intersectionality, define what it is, investigate its interrelationship with bias, and examine how it shows up in our clinical settings.

298 10:30 – 11:30 a.m.
Inclusion Confusion and Cultural Humility
Mary Jo Burkhard, DVM, Ph.D., DACVP
Mitigating bias is not the same as creating workplace inclusion. Practice philosophies and policies can provide guardrails, but an inclusive workplace is an ongoing journey. This lecture will explore how to use lifelong learning to foster cultural humility and discuss the creation of a framework for developing personal awareness.

300 9:15 – 10:15 a.m.
Welcome to the IV League: Understanding Advanced Fluid Therapy
Danielle Provost, CVT, VTS (ECC)
Veterinary technicians are largely responsible for case management and nursing conclusions as they apply to fluid therapy in the intensive care setting. Therefore, a deeper understanding is required. Welcome to the IV league! Moving beyond the basics of fluid therapy and patient management, this lecture will explain fluid therapy on an advanced level. Fluid choices including composition, electrolyte abnormalities, and acid-base assessment will be explained, as well as recognizing and correcting potential fluid therapy consequences and contraindications.

303 2:45 – 3:45 p.m.
Stayin’ Alive: A Crash Course in CPR
Danielle Provost, CVT, VTS (ECC)
Adhering to the reassessment campaign on Veterinary Resuscitation (RECOVER) initiative guidelines, this session will explore all aspects of patient and team management leading up to and during CPR. Team communication, supply necessities, recognizing signs of impending cardiopulmonary arrest, and step-by-step instruction on actual CPR performance will be covered, as well as a full discussion about the RECOVER initiative guidelines. This session is intended to improve team knowledge and comfort level with running a code.

304 4 – 5 p.m.
Become an Emergency Pro: Emergency Procedures
Danielle Provost, CVT, VTS (ECC)
This session will introduce attendees to the emergency room setting and instruct them on how to perform vital emergency procedures, beginning with patient triage and a full patient assessment. Airway and complete venous access, facilitated and venous cutdown skills, and intraosseous catheter placement will be explained. Attendees will leave with an understanding of what is necessary to stabilize a critical patient.

TECHNICIAN I

299 8 – 9 a.m.
Nursing Rounds: Not Just a Game of Telephone
Danielle Provost, CVT, VTS (ECC)
This lecture will focus on the use of organizational tools that can aid technicians in providing excellent nursing care and developing strong communication skills. Using data gleaned from nurses in human medicine, this session will instruct technicians on best practices for exchanging information during shift changes, including what information is important for inclusion and extraneous information that can be omitted. Attendees will leave feeling empowered to play an active role in each phase of their patients’ hospitalization!
This lecture will explore the various nuances associated with brachycephalic breeds, sighthounds, Dobermans, Boxers, and other special breeds, as well as how they specifically relate to anesthesia. Topics will include pre-medication selection, induction, maintenance, and recovery of all these special patients.

**Under Pressure: Managing Intraoperative Hypotension**
*Tasha McNerney, CVT, CVPP, VTS (Anesthesia)*
This session will address the often-encountered anesthetic complication of hypotension. The reasons behind hypotension and the paths to take to correct it will be discussed. Case studies will also be presented to give real-life examples.

**Anesthesia for the Dentistry Patient**
*Tasha McNerney, CVT, CVPP, VTS (Anesthesia)*
This lecture will pay special attention to the dentistry patient, many of which are older and have concurrent disease. We will discuss these nuances as well as helpful local blocks to optimize pain management for patients that need extractions.

**Feline Urethral Obstruction Anesthesia**
*Tasha McNerney, CVT, CVPP, VTS (Anesthesia)*
This presentation will focus on everyone’s favorite 4-p.m.-on-a-Friday patient: The feline with urethral obstruction. Pain management and anesthetic needs, as well as emergency treatment, will be covered. Real-life case examples will be used to help attendees understand and implement effective procedures.

**Pain Management in the Critical Patient**
*Tasha McNerney, CVT, CVPP, VTS (Anesthesia)*
This lecture will examine how important proper pain management is for critical patients. Often, these patients are compromised, making drug selection more nuanced. Attendees will learn about analgesic options for specific cases, such as trauma, emergency Caesarian, and urethral obstruction patients. This lecture will teach technicians to weigh all analgesic options—drugs as well as alternative therapies—when creating a plan for a critical patient.

**Post-Operative Analgesia Options**
*Tasha McNerney, CVT, CVPP, VTS (Anesthesia)*
This lecture will explore options for post-operative pain control, including drug therapy, physical therapies, and other new treatments to keep patients comfortable. Attendees will learn how to implement pain scoring as a way to guide analgesic treatment. Case studies will be presented to better illustrate specific protocols for optimal multimodal analgesia.

**WELLNESS**

**Introduction to Meditation and Mindfulness**
*Annie Abraham, M.Ed., LPCC, RYT-200*
Meditation and mindfulness are evidence-based practices that offer notable mental, emotional, and physical benefits. Research shows that just 10 minutes of mindfulness each day may be enough to change the makeup and function of the brain to promote reduced stress, improved concentration, and increased immunity. This session will provide an overview of meditation and mindfulness, outline the scientific benefits of a regular practice, and identify ways to incorporate this type of self-care into even the busiest schedules. Additionally, attendees will participate in a 10-minute guided mindfulness meditation.

**Developing Your Wellbeing Toolkit**
*Katie Reid, Psy.D.*
It is well known that working in veterinary medicine, while incredibly fulfilling and rewarding, comes with its own unique set of challenges and stressors. Burnout, compassion fatigue, inadequate self-care, and financial concerns are just some of the factors that can diminish the wellbeing of veterinary professionals. Using the nine dimensions of wellness model, this seminar will offer practical, evidence-based solutions to inspire attendees to create personalized toolkits for their individual wellbeing.

**Suicide Prevention Gatekeeper Training**
*Darcy Haag Granella, Ph.D., LPCC*
Studies have found that suicide rates for members of the veterinary profession are more than four times those of the general population—making training in suicide prevention more important than ever. Developed at The Ohio State University, REACH is an empirically supported suicide prevention gatekeeper training program that helps individuals recognize when someone may be at risk for suicide and also teaches them how to intervene. In this session, participants will learn to REACH: Recognize warning signs, Engage with empathy, Ask directly about suicide, Communicate hope, and Help suicidal individuals access vital, life-saving resources.
Suicide Prevention Gatekeeper Training
Darcy Haag Granello, Ph.D., LPCC
This will be a repeat of Session 313.

The Role of a Social Worker in Veterinary Practice
Joanne C. Fuller, LISW and Joelle Nielsen, MSW, LSW
Offering social support services in veterinary- and animal-related settings is not a new phenomenon, though the term “veterinary social work” has definitely become more recognized over the past several years. This workshop will explore the benefits of including a social worker in the veterinary team and describe ways to use social work services. Participants will be encouraged to brainstorm ways in which a social worker might be beneficial to their own practice.

Panel Discussion: Implementing Social Work Services in Veterinary Practice
Annie Abraham, M.Ed., LPCC, RYT-200; Joanne C. Fuller, LISW; Joelle Nielsen, MSW, LSW; and Katie Reid, Psy.D.
In this session, a panel of licensed mental health professionals who work in veterinary medicine will discuss the addition of a social worker to the veterinary team. Attendees will get an overview of mental health professionals’ credentials, scope of practice, services, and how and why to seek support. Ample time will be allotted for questions and answers.

HANDS-ON labs

A2 Euthanasia by Injection, Part II
9 a.m. – 5 p.m.
For a full description of this lab, please see page 36.

C Dental Extractions Made Easier
8 a.m. – 1 p.m.
Details:
- **Speaker:** Brook A. Niemiec, DVM, DAVDC, DEVDC, FAVD
- **Fee:** $325
- **Audience:** Veterinarians
- **Level:** Beginner to Intermediate
- **CE:** 5 hours
- **Max Capacity:** 28
- **Prerequisites:** Sessions 136-137

Description:
This hands-on laboratory will demonstrate how to perform extractions in veterinary medicine. Topics will include extractions of single-rooted teeth, sectioning of multi-rooted teeth, and surgical extractions of canine and carnassial teeth.

D1 Aggression in Dogs: Defensive Handling and Training, Part I (Dog-to-Human Aggression)
8 a.m. – 5 p.m.
Details:
- **Speakers:** Trish McMillan, M.Sc., CPDT-KA, CDQC and Michael Shikashio, CDQC
- **Fee:** $100 per day
- **Audience:** All
- **Level:** All
- **CE:** 8 hours (OVMLB); 8.25 hours (CCPDT); 8.75 hours (IIABC)
- **Max Capacity:** 100
- **Prerequisites:** None
- **Note:** Lunch is not provided, but attendees will be given an hour break for lunch on their own.

E Shelter Visit: Dogs Playing for Life—in Action
12:45 – 5 p.m.
Details:
- **Speaker:** Aimee Sadler
- **Fee:** $125
- **Audience:** Shelter Veterinarians, Technicians, and Staff
- **Level:** Beginner to Intermediate
- **CE:** 3 hours
- **Max Capacity:** 24
- **Prerequisites:** Sessions 287-289
- **Note:** Transportation to the shelter will be provided.

Description:
Participants will visit to the Franklin County Dog Shelter and Adoption Center and see firsthand how dog playgroups are enrichment, training, assessment, and behavior modification tools providing efficient and effective ways to care for groups of sheltered dogs. DPFL founder, Aimee Sadler, will provide commentary during the visit. Please note: The shelter’s play area is outside; participants should dress accordingly for the weather (from head to toe). The entire visit will be spent outside observing the DPFL playgroups, but with opportunities to go inside to warm up as needed.
400 History Taking for Feline Cases: Get the Information You Need in the Time You Have

Christopher Pachel, DVM, DACVB, CABC

Taking a thorough history is critical to making an accurate behavioral assessment. This process can be time consuming, especially if you’re not sure what information is relevant or how to gather that information efficiently. This session will focus on tools, strategies, and techniques for getting the information you need in the limited time you have to get it. Video of actual cases will be shown to reinforce key concepts.

401 Is it Medical, Behavioral, or Both? How to Tease out the Details that Matter

Christopher Pachel, DVM, DACVB, CABC

Clients frequently report changes in their pets’ behavior to veterinary staff during appointments. Understanding when to recommend additional diagnostics for a primary medical problem versus treatment for a primary behavior issue is a valuable skill to have in your toolkit. This presentation will cover common conditions that may appear to be behavioral in origin when, in fact, they could be caused by an underlying medical concern.

402 More Than Just a Naughty Cat: Understanding Feline Nuisance Behaviors

Christopher Pachel, DVM, DACVB, CABC

“It’s not quite a behavior problem, but he’s not exactly well-behaved, either…” Do you have any feline patients that fit that description? Clients don’t always understand or appreciate normal cat behaviors, which may create discord in your their’ homes—to the point that these behaviors may be risking the surrender or even euthanasia of your patients. In this session, attendees will learn how to respond efficiently and effectively to client questions about everyday behavior patterns. Helping owners understand and deal with their cats’ nuisance behaviors can mean the difference between frustration and enjoyment—and, potentially, life and death.

403 Inter-Cat Aggression: Strategies for Intervention Before the Fur Starts Flying

Christopher Pachel, DVM, DACVB, CABC

Social behavior of cats includes significant variation in terms of whether they live solitary or colony lifestyles. It is also common for conflicts to occur when multiple cats share a living space, as is often the case in domestic households. This presentation will cover normal social behavior of group-living cats, including identification of several early markers of tension that may go unnoticed by pet owners. Methods of addressing these conflicts will also be discussed.

404 Fearful, Frantic, or Frustrated? Causes of Human-Directed Feline Aggression

Christopher Pachel, DVM, DACVB, CABC

Cat behaviors are commonly misunderstood, and patterns of human-directed aggression are no exception to that rule. This presentation will take a deep dive into the reasons why these aggression patterns occur and what you can do about them. Cases will be used to illustrate the various types of aggression and intervention options you can share with your clients.

405 Behavior Modification for Cats (Yes, You Read That Correctly!)

Christopher Pachel, DVM, DACVB, CABC

You can’t train a cat, right? Wrong! Effective behavior modification for cats requires a few key adjustments to techniques you already know, but it can absolutely be done! This presentation will include key factors to consider, case examples of how specific behavior modification exercises are implemented, and video examples of feline behavior modification in action.

406 Fish Water Quality

Jessie M. Sanders, DVM, CertAqV

Good water is essential to healthy fish; as such, testing the water is an integral part of the aquatic veterinary exam. This presentation will discuss how to test fish systems, what parameters to test and why, how to interpret findings, and how to correct issues with water quality.

407 Parasitic Diseases in Fish

Jessie M. Sanders, DVM, CertAqV

Parasitic pathogens are very common in pet fish systems, both ponds and tanks. Topics to be covered in this session will include the most common parasites for freshwater and marine fish, clinical signs of parasitism, appropriate treatments, and prevention strategies.

408 Biosecurity and Quarantine for Fish Systems

Jessie M. Sanders, DVM, CertAqV

Quarantine protocols must be recognized and standardized to prevent the spread of disease when bringing fish into a new or established system. This
lecture will explain how to prevent the spread of disease, where most pathogens come from, and how to create a biosecurity protocol.

EQUINE

409 8 – 9 a.m.
Upper Airway Endoscopy of the Larynx and Arytenoid Cartilages
Warren L. Beard, DVM, M.S., DACVS
This presentation will use videos to demonstrate common conditions that practitioners may encounter when performing upper airway endoscopies, focusing on laryngeal function and the arytenoid cartilages. Attendees will learn about grading of laryngeal function, laryngeal hemiplegia, arytenoid chondritis, and conditions elsewhere in the upper airway that can affect laryngeal function. Useful tips for decision making when dynamic endoscopy is not available will also be shared.

410 9:15 – 10:15 a.m.
Upper Airway Endoscopy of the Nasomaxillary Aperture and the Ethmoid Turbinates
Warren L. Beard, DVM, M.S., DACVS
This session will use videos of the upper airway to demonstrate a variety of presentations for ethmoid hematomas. Attendees will learn that by examining the nasomaxillary aperture with an endoscope, they will often be able to shorten the differential list or even diagnose conditions of the sinus.

412 1:30 – 2:30 p.m.
413 2:45 – 3:45 p.m.
Moving to Precision Medicine: Molecular Diagnostics and Next-Generation DNA Sequencing
Rick Martin
If you depend on culture methods to make treatment decisions, you now have options for a better approach! Next-generation DNA sequencing assists both human and veterinary doctors in successfully identifying and treating microbial infections. This type of sequencing identifies 100 percent of the microbes in a sample with nearly 100 percent accuracy. In this two-part session, attendees will learn about the underlying science of next-generation DNA sequencing.

414 4 – 5 p.m.
Bacterial Biofilms: A Major Contributor to Resilient Infections
Michael Rossi, DVM, MNS, DACVD
In many cases, the resistance of bacteria to antimicrobials can be attributed to the bacterial production of a biofilm. This can also lead to a perceived methicillin resistance of the bacterial infection to various medications. This session will address new scientific information regarding biofilms, including the clinical management of difficult infections.

415 8 – 9 a.m.
416 9:15 – 10:15 a.m.
Mixed Animal Practitioners and Show Pig Medicine
Todd Price, DVM
This two-part session will explore the increasing popularity of show pigs, their typical diseases and anomalies, and what mixed animal practitioners can do for these clients.

417 10:30 – 11:30 a.m.
Perspectives on Proper Swine Handling
Steven J. Moeller, Ph.D.
In the swine industry, pigs are handled for a variety of reasons from birth until death, encompassing on-farm, transport, and market sectors. Caretakers, transporters, and plant personnel share a common responsibility to handle, move, treat, and interact with pigs in an acceptable manner. Issues with pig handling often result when improper training, lack of experience, impatience, and an unwillingness to change techniques collide. This session will identify swine handling challenges, provide suggestions to improve handling practices, identify resources to train personnel properly, and establish an action plan for addressing improper handling.

418 1:30 – 2:30 p.m.
Treatment of Calf Diarrhea, Part I: Oral Electrolyte Therapy
Geof W. Smith, DVM, Ph.D., DACVIM
This session will discuss assessing hydration and metabolic acidosis in calves, as well as how to choose an oral electrolyte for animals with diarrhea.

419 2:45 – 3:45 p.m.
Treatment of Calf Diarrhea, Part II: IV Fluid Therapy
Geof W. Smith, DVM, Ph.D., DACVIM
In this lecture, IV fluid options for calves with diarrhea—including practical options for fluid therapy that can be done on farm—will be covered.

420 4 – 5 p.m.
Treatment of Calf Diarrhea, Part III: Ancillary Therapy
Geof W. Smith, DVM, Ph.D., DACVIM
This talk will focus on the use of antibiotics in calves with diarrhea and touch upon other potential treatments.
including nutritional supplements, probiotics, and egg yolk antibodies.

**HOLISTIC & integrative medicine**

**421 8 – 9 a.m.**

**Low-Stress Neurologic Exam for Patient and Clinician**  
*Susan O. Wagner, DVM, M.S., DACVIM (Neurology)*

This lecture is designed to help clinicians overcome their fear of neurology by showing that it is not as complicated as they may imagine. By the end of the session, attendees will be able to localize a lesion and create appropriate differentials. Tips for reducing patient stress during the exam will also be offered.

**422 9:15 – 10:15 a.m.**

**A Comprehensive Approach to Pain**  
*Susan O. Wagner, DVM, M.S., DACVIM (Neurology)*

In this session, the anatomic pathways and mechanisms of pain will be discussed, along the interplay among fear, anxiety, and pain control. In addition to conventional medications, attendees will learn about complementary options for controlling pain, such as botanicals, homeopathics, Traditional Chinese Medicine, and biofield therapies.

**423 10:30 – 11:30 a.m.**

**An Integrative Approach to Cerebral Diseases**  
*Susan O. Wagner, DVM, M.S., DACVIM (Neurology)*

In this two-part session, a brief review of signs that accompany lesions in the cerebrum will be presented, including the forebrain, brainstem, and cerebellum. Common differentials will be discussed, as well as complementary therapies for conditions such as epilepsy, encephalitis, vestibular disorders, masticatory muscle myositis, and neoplasia.

**424 1:30 – 2:30 p.m.**

**PET ANIMAL critical care**

**427 8 – 9 a.m.**

**The Dreaded DKA: Updates for the Emergency Practitioner**  
*Jamie M. Burkitt, DVM, DACVECC*

Diabetic ketoacidosis (DKA) presents significant challenges regarding fluid therapy and electrolyte management. This session will discuss treatment strategies for dogs and cats suffering from DKA, with an emphasis on recommendations from current veterinary literature.

**428 9:15 – 10:15 a.m.**

**Is She a Standard Poodle?**  
**Treating the Addisonian in Crisis**  
*Jamie M. Burkitt, DVM, DACVECC*

Collapsed dog! Do bradycardia and hyperkalemia give your adrenals a squeeze? Does the question, “Baseline cortisol concentration or ACTH stim, Doc?” give you a case of the “Umm’s?” This hour will be dedicated to demystifying recognition of and simplifying treatment for dogs in Addisonian crisis.

**429 10:30 – 11:30 a.m.**

**Shock Fluid Therapy: What Type, How Much, and How Fast?**  
*Jamie M. Burkitt, DVM, DACVECC*

Are synthetic colloids out? Is there an advantage to PlasmaLyte over saline? Can you really give Lactated Ringer’s solution (LRS) in lactic acidosis? This session will discuss advantages of different fluid choices, appropriate resuscitation volumes, and proper rates, also touching on the use of monitoring tools to optimize care.

**430 1:30 – 2:30 p.m.**

**Analgesia in Acute Illness: Life without Methadone**  
*Jamie M. Burkitt, DVM, DACVECC*

Oh, how we miss reliable access to mu opioids! This lecture will review recent literature regarding efficacy and doses of alternative medications in dogs and cats, as well as provide alternative pain control strategies for acutely and critically ill pets.

**431 2:45 – 3:45 p.m.**

**Feline Urethral Obstruction:**  
**Pointers for Keeping Him Unblocked**  
*Jamie M. Burkitt, DVM, DACVECC*

Obstructive feline idiopathic cystitis (FIC) is a frustrating problem, particularly because there is a high recurrence rate for obstruction in the first week following an unblocking episode. This session will focus on evidence-based...
recommendations for preventing recurrence of urethral obstruction in cats with FIC.

Snap, Crackle, Pop: E.R. Management of Thoracic Trauma
Jamie M. Burkitt, DVM, DACVECC
Animals with thoracic trauma often present with respiratory compromise due to a complex combination of pulmonary contusions, chest wall defects, and pleural space disease. This lecture will provide an overview of the diagnostic tools and first-line treatments for thoracic trauma in the emergency room.

PET ANIMAL dermatology

What’s New in Allergic Dermatitis, and Why is it Clinically Important to You?
Andrew Hillier, BVSc, MANZCVS (Canine Medicine), DACVD
Our understanding of the causes, mechanisms, definitions, clinical syndromes, and diagnosis of allergic skin disease in dogs has changed significantly over the last 10 years. This lecture will highlight the changes that have direct impact on how we diagnose and treat allergic dogs.

Getting It Right with the Itchy Dog: What Are You Missing?
Andrew Hillier, BVSc, MANZCVS (Canine Medicine), DACVD
No need to dread another itchy dog! With new diagnostic and therapeutic tools available today, we can make pets comfortable and give owners peace of mind while fulfilling our need to complete a diagnostic work-up. This lecture will demonstrate how we can flip the script to get owner buy-in and compliance with a streamlined approach.

Long-Term Relief for Atopic Dermatitis: Find the Anchor Treatment
Andrew Hillier, BVSc, MANZCVS (Canine Medicine), DACVD
We now have several options and new innovative therapies for the management of canine atopic dermatitis. This lecture will outline the value of anchor treatments versus multimodal therapy and show practitioners how to customize treatment to suit each patient and each owner.

Pyoderma Lessons: Case-Based Problems and Solutions
Andrew Hillier, BVSc, MANZCVS (Canine Medicine), DACVD
Using multiple case studies, this session will illustrate the how and why of cytology and culture, including how to decide between systemic and topical therapy, management of drug-resistant infections, and a few unusual pyoderma syndromes to be aware of.

What’s New in Scabies and Demodicosis
Andrew Hillier, BVSc, MANZCVS (Canine Medicine), DACVD
Don’t let scabies and demodicosis fool you—they are still around, in more shapes and sizes than you think. This session will share the latest in the diagnosis of these parasites and explain which therapies are now considered standard of care.

Scary, Funky, and Not-So-Rare Skin Cases
Andrew Hillier, BVSc, MANZCVS (Canine Medicine), DACVD
You may initially be grossed out by the appearance of some of your dermatological patients, but not all have terrible diseases. Using case presentations, this session will show attendees how to keep a level head for some surprisingly good outcomes and describe when it may best to refer the patient to a dermatologist.

PET ANIMAL gastroenterology

Troublesome Diarrhea Cases in Cats: Tips on Diagnosis and Management
Todd R. Tams, DVM, DACVIM
We’ve all seen them: tricky cases of diarrhea in cats. What do you need to get definitive answers, and which tests are most often indicated? Should you test for T. foetus and Cryptosporidium? Could it be inflammatory bowel disease or exocrine pancreatic insufficiency? This session will provide an overview of key diagnostic and treatment strategies for troublesome diarrhea cases in cats.

Inflammatory Bowel Disease and Intestinal Lymphoma in Cats
Todd R. Tams, DVM, DACVIM
Many cats with intestinal lymphoma can be managed for an appreciable period of time, but accurately identifying the cause as either inflammatory bowel disease (IBD) or intestinal lymphoma is essential. This session will cover how to manage cats with either IBD or lymphoma for best success.

Inflammatory Bowel Disease in Dogs: Update on Diagnosis and Therapy
Todd R. Tams, DVM, DACVIM
Inflammatory bowel disease (IBD) is a common cause of chronic vomiting and diarrhea in dogs. This session will...
review updates on the diagnosis and management of IBD, with an emphasis on newer therapeutic approaches. Use of endoscopy for procuring GI biopsies will also be highlighted.

### Update on Disorders of the Esophagus

**Todd R. Tams, DVM, DACVIM**

This session will update attendees on the important esophageal disorders encountered in practice, emphasizing clinical awareness. Topics will include mega-esophagus, esophageal foreign bodies, and the under-diagnosed esophagitis.

### Management of Vomiting in Dogs and Cats

**Todd R. Tams, DVM, DACVIM**

This session will cover everything from endoscopy for foreign body retrieval to pharmacologic control of acute and chronic vomiting. Management of chronic vomiting and inappetence in cats with chronic renal disease will also be discussed.

### Gastric Hypomotility in Dogs: More Common Than You May Think

**Todd R. Tams, DVM, DACVIM**

Gastric hypomotility tends to be underdiagnosed in clinical practice and can cause a variety of issues, including vomiting, abdominal discomfort, bloating, and intermittent inappetence. This session will review presenting signs, diagnostic strategy, and management options.

### PET ANIMAL oncology

### The Art and Science of Clinical Veterinary Oncology

**David M. Vail, DVM, DACVIM (Oncology)**

This session will introduce attendees to the field of veterinary oncology and touch upon the concept of One Health. Practitioners will learn about important concepts; clinical staging; biopsy principles; general therapeutic options, including surgery and radiation therapy; and follow-up care.

### Lymphoma and Other Hematopoietic Malignancies in Dogs and Cats

**David M. Vail, DVM, DACVIM (Oncology)**

This two-part session will include discussion of the diagnosis, treatment, and overall management of lymphomas, plasma cell tumors, and leukemias in dogs and cats. Newer therapies—either currently available or in development—will also be covered.

### Concepts in Practical Veterinary Chemotherapy

**David M. Vail, DVM, DACVIM (Oncology)**

This lecture will include a brief overview of cytotoxic chemotherapy agents and a discussion of clinical handling of chemotherapy patients, with an emphasis on managing chemotherapy-induced adverse events.

### Mast Cell Tumors in Dogs and Cats

**David M. Vail, DVM, DACVIM (Oncology)**

In this session, the diagnosis and management of mast cell disease in dogs and cats will be explained, along with an in-depth discussion of the wide variation in presentations, prognosis, and treatment options for both species.

### Evolving Preconceptions: Turning Cancer into a Chronic Disease, and Sometimes Big is Better

**David M. Vail, DVM, DACVIM (Oncology)**

Many of our preconceptions about aggressive malignancies common in dogs and cats can be tempered with updated information. This session will discuss new research and management strategies that turn these often-fatal diseases (e.g., anal sac, thyroid, and hepatic malignancies) into chronic disease processes that are associated with durable, years-long responses to treatment, and explore why big cancers can end up being better cancers.

### PRACTICE management I

#### Emotional Intelligence in the Veterinary Workplace, Part I: Overview

**Michelle Harcha, DVM, M.A.**

Outstanding leadership begins with you: Everyone can be a leader and have an impact in the workplace. What kind of an impact are you making? This lecture series will explore the emotional intelligence (E.I.) model of Dr. Daniel Goleman, an internationally known psychologist and science journalist; its four key competencies of self-awareness, self-management, empathy and social awareness, and relationship management; and their benefits in the veterinary workplace. In the first session, attendees will be introduced to Dr. Goleman’s E.I. model and learn about research supporting its importance in the workplace. Additionally, the link between E.I. and mindfulness will be explored, as well as ways to enhance emotional intelligence.

#### Emotional Intelligence in the Veterinary Workplace, Part II: Self-Awareness

**Michelle Harcha, DVM, M.A.**

The second lecture will take a deep dive into the key competency of self-awareness—which involves knowledge of one’s internal states, preferences,
resources, and intuitions—and explore its benefits in the veterinary workplace from a leadership perspective. By the end of the session, attendees will be able to define what emotional self-awareness is, explain how it can be beneficial to leaders, and list three strategies to improve their own self-awareness.

**453 10:30 - 11:30 a.m.**  
**Emotional Intelligence in the Veterinary Workplace, Part III: Self-Management**  
Michelle Harcha, DVM, M.A.  
The third session will investigate the key competency of self-management, or the ability to manage one’s internal states, impulses, and resources. At the end of the lecture, participants will be able to define the components of self-management (emotional self-control, adaptability, achievement orientation, and positive outlook) and their benefits for leaders, as well as pinpoint three ways they can improve in each of these leadership competency categories.

**454 1:30 - 2:30 p.m.**  
**Emotional Intelligence in the Veterinary Workplace, Part IV: Empathy and Social Awareness**  
Michelle Harcha, DVM, M.A.  
In the fourth part of this series, attendees will learn about the key competency of empathy and social awareness, or the ability to sense and respond to others’ feelings and needs. Organizational awareness and the different types of empathy will be defined, and the benefits of each will be explained. By the end of the session, participants will be able to identify strategies for improving their own empathy and awareness to become better leaders.

**455 2:45 - 3:45 p.m.**  
**Emotional Intelligence in the Veterinary Workplace, Part V: Relationship Management**  
Michelle Harcha, DVM, M.A.  
This fifth lecture will discuss the key competency of relationship management and define its components of influence, coaching and mentorship, conflict management, teamwork, and inspirational leadership. Attendees will be able to list three ways they can improve each of these leadership competency categories and understand why doing so will be beneficial to their development as leaders.

**456 4 - 5 p.m.**  
**The Link Between Emotional Intelligence and Mindfulness**  
Michelle Harcha, DVM, M.A.  
Search Inside Yourself by Chade-Meng Tan, one of Google’s earliest engineers, offers a proven method for enhancing mindfulness and emotional intelligence in the workplace. In this final hour, key learnings from the Search Inside Yourself curriculum will be shared, as well as recent scientific research on the neuroscience of positive human qualities and how they can be cultivated through mindfulness. By the end of the session, participants will understand the neuroscience behind meditation, mindfulness, and emotional intelligence and be able to develop their own practices.

**PRACTICE management II**

**457 8 - 9 a.m.**  
**Don’t Make These Pricing Mistakes!**  
Karen E. Felsted, CPA, M.S., DVM, CVPM, CVA  
Most practices experience pushback about the cost of veterinary care. The fees charged for services have a huge impact on practice revenue, and it is all too easy to make pricing mistakes that drive clients away. This session will cover key pricing mistakes and how to better communicate with clients regarding your fees.

**458 9:15 - 10:15 a.m.**  
**What Do Clients Really Want?**  
Karen E. Felsted, CPA, M.S., DVM, CVPM, CVA  
Pet owners want more from their veterinary practices than ever before. Understanding what that is and how to provide it is critical to success. This two-part session will explore the growing demands from clients and how you can meet their expectations.

**459 10:30 - 11:30 a.m.**  
**Hiring the Right Employees**  
Karen E. Felsted, CPA, M.S., DVM, CVPM, CVA  
Creating an efficient, productive, and polished team starts with the interview process: 80 percent of employee turnover is attributed to poor hiring. This session will discuss strategies to improve your talent acquisition process, from finding to interviewing to hiring the best candidates.

**460 1:30 - 2:30 p.m.**  
**Keeping Employees After You Hire Them**  
Karen E. Felsted, CPA, M.S., DVM, CVPM, CVA  
Once you hire those great employees, you need to keep them. Losing an employee is an expensive experience, in terms of both money and time invested, and finding new ones is more difficult than ever. This session will offer ways to retain the employees you’ve invested in—and, if it’s not working out, how to fire them with grace.

**461 2:45 - 3:45 p.m.**  
**What You Must Know About Profitability**  
Karen E. Felsted, CPA, M.S., DVM, CVPM, CVA  
The gold standard of a practice’s financial success is the operating profit margin. Because this drives the value of a practice and is essential to making
good operating decisions, an analysis of true profitability and how to achieve it is essential. In this session, attendees will learn the key components of profitability so that they can make the best choices for their practice.

**PUBLIC HEALTH**

### 463 Salmonella Safety for Pets, Family, and Community
**Kate KuKanich, DVM, Ph.D., DACVIM (SAIM)**
This presentation will discuss both the veterinary and public health aspects of salmonellosis in pets. Being aware of these concerns is critical to keeping our families and communities safe.

### 464 Raw Diets for Pets: Pros, Cons, and Public Health Considerations
**Kate KuKanich, DVM, Ph.D., DACVIM (SAIM)**
This presentation will review the various reasons people choose raw diets for their pets, veterinary literature regarding raw diets, and public health considerations every veterinarian should be aware of when discussing raw diets with clients.

### 465 Bioterrorist Agents with Zoonotic Potential: Veterinarians are the Front Line!
**Kate KuKanich, DVM, Ph.D., DACVIM (SAIM)**
This presentation will discuss bioterrorism from a small animal veterinarian’s point of view, review infectious agents, and explore our role in being prepared.

### 466 Prevention Practices for Livestock Zoonoses Based on Biological Risk Assessment
**Abbey J. Canon, DVM, MPH, DACVPM**
Most infectious diseases cannot be eliminated, but risk can be managed through effective control measures.

### 467 Biological risk management (BRM)
Biological risk management (BRM) educates people about the introduction and spread of infectious diseases through animals. The cornerstone of the BRM plan is effective communication of risk with all stakeholders involved. This two-part session will introduce attendees to the concepts of risk perception and assessment, discuss the various routes of transmission by using livestock zoonoses as examples, and provide tools to manage zoonotic disease risks to personnel. Participants will leave the session able to assess, manage, and communicate biological risk effectively.

### 468 Zoonotic Biowarfare Agents: Where Have We Been, and What’s Next?
**Roy Barnewall, DVM, Ph.D.**
Zoonotic diseases comprise approximately 60 percent of all human infections and 75 percent of emerging and re-emerging diseases. Of great concern are the emerging infectious diseases, which have recently appeared in a population, have existed for some time but are rapidly increasing in incidence or geographic range, or are caused by one of the agents on the National Institute of Allergy and Infectious Diseases’ (NIAID) emerging infectious disease biological agents list. This presentation will provide an overview of major zoonotic biodefense agents used throughout history, their epidemiology and pathogenesis, current medical countermeasures, and what the next threat might be.

### 469 Achoo! Is it the Flu? Recognizing and Responding to CIV in Shelters
**Stephanie Janeczko, DVM, M.S., DABVP, CAWA**
Since its identification more than a decade ago, the canine influenza virus (CIV) has been a major cause of infectious respiratory disease in shelter dogs. This session will provide an overview of the epidemiology of CIV, with a focus on diagnosis, management, and prevention in shelter populations. Considerations regarding flu infections in other species within the shelter setting will also be discussed.

### 470 Reconsidering Retroviruses: Shelter-Based Strategies for Managing FeLV and FIV
**Stephanie Janeczko, DVM, M.S., DABVP, CAWA**
Which animals in your shelter should be tested for feline leukemia virus (FeLV), and when? Once you have the results, what should you do with them? This session will cover recent updates regarding screening and confirmatory testing, management, and adoption in the shelter setting.

### 471 Healing Hearts: Shelter-Based Strategies for Managing Heartworm Disease
**Stephanie Janeczko, DVM, M.S., DABVP, CAWA**
This session will review current practices and challenges of heartworm management in the shelter. Attendees will learn how to design feasible management protocols, including screening and confirmation of heartworm status, treatment options in the shelter, and best practices for minimizing transmission in relocated dogs.

### 472 Rabies: Not Just a Fad
**Lena G. DeTar, DVM, DACVPM, DABVP-SMP**
Canine variant rabies has been virtually eliminated from the United States and Canada, but regulatory control mechanisms, wildlife encounters and transmissions, and foreign animal importation still impact the lives of pets,
owners, shelters, and veterinarians. This interactive talk will explain the enormity of rabies concerns abroad, what interventions are currently underway, why all of this matters to veterinarians practicing in North America, and what you can do to help.

**SMALL ruminants**

**475** 8 – 9 a.m.  
Prevention and Control of Chronic Insidious Diseases of Sheep and Goats  
*Joan S. Bowen, DVM*  
Chronic insidious diseases—such as mycoplasma, caprine arthritis encephalitis, ovine progressive pneumonia, and Johne’s disease—cause significant economic loss to sheep and goat producers through decreased lifespan, growth rate, milk production, and animal sales. These diseases often enter the herd through purchase of asymptomatic carriers. Direct contact transmits these diseases among adults over time, but they are transferred quickly and efficiently from infected adults to neonates through colostrum, milk, and direct contact. Although there is no effective treatment for any of these diseases, adoption of a specific pathogen prevention program will decrease their incidence. This session will cover how to establish such a program and control transmission of chronic insidious diseases in sheep and goats.

**476** 9:15 – 10:15 a.m.  
Practical Treatment of Common Sheep and Goat Diseases  
*Joan S. Bowen, DVM*  
Sheep and goat producers often contact veterinarians for immediate treatment of common life-threatening emergencies—such as neonatal challenges, enterotoxemia, mastitis, pneumonia, and tetanus. These problems may occur due to producers’ lack of knowledge about biosecurity, livestock production, ruminant nutrition, and specific disease prevention strategies. In this session, veterinarians will learn how they are uniquely qualified to diagnose and medically treat these common diseases, as well as how to prevent recurrences through improved management practices and biosecurity.

**477** 10:30 – 11:30 a.m.  
Prevention of Pregnancy Toxemia in Sheep and Goats  
*Joan S. Bowen, DVM*  
Many sheep and goat producers lack a livestock production background and base their herd nutrition program on ingredient availability, internet resources, local feed store recommendations, and traditional feeding practices. Few small-scale producers use nutritionists or quantitative analysis of the total ration, and their feeding practices often lead to metabolic imbalances like pregnancy toxemia, lactational ketosis, and hypocalcemia. This session will explain how the majority of these problems can be treated successfully when recognized early in the course of disease, as well as discuss preventing additional cases through diet correction.

**478** 1:30 – 2:30 p.m.  
Achieving Vaginal Deliveries in Sheep and Goat Dystocia  
*Joan S. Bowen, DVM*  
Inexperienced sheep and goat producers may not recognize when a pregnant female is in labor or if parturition is progressing at a normal pace. Veterinarians help sheep and goat producers markedly improve the outcome of both normal parturition and dystocia by teaching their clients the different stages of labor, how to determine if parturition is progressing normally, and when to intervene. In this lecture, attendees will learn how to reduce the incidence of Caesarian section, increase the incidence of vaginal...
deliveries, and improve both dam and neonatal survival through early intervention in dystocia cases, altering the position of the parturient dam or fetuses, and removal of all fetuses.

479 2:45 – 3:45 p.m.
**Care of Neonatal Lambs and Kids**
Joan S. Bowen, DVM
Management and nutrition practices during the neonatal period have a dramatic impact on health, survivability, growth, and future productivity of kids and lambs. Prepartum vaccination programs and nutrition of the dam will be addressed in this session, as well as the variety of neonate feeding options from colostrum through weaning. Methods and timing of disbudding, dehorning, and castration; vaccination programs; parasite prevention; biosecurity; and unique individual identification required for the mandatory federal scrapie eradication program will also be discussed.

480 4 – 5 p.m.
**Treatment and Control of Coccidiosis in Sheep and Goats**
Joan S. Bowen, DVM
Coccidiosis is a common cause of diarrhea in young sheep and goats between three weeks and five months of age, and its incidence is markedly impacted by overcrowding, stress, fecal contamination of food and water, and cleanliness of the environment. All adult small ruminants harbor coccidia in their small intestines and serve as a reservoir for environmental contamination, but not all species of coccidia cause clinical disease. This session will discuss designing treatment and control programs for young stock to prevent clinical disease, poor long-term growth, and low performance.

481 8 – 9 a.m.
**Be a Superstar in the Exam Room and at the Front Desk**
Robert K. Cartin, DVM
There is no faster way to raise the quality of medicine than to gain better compliance with our recommendations. Why is one doctor, with no more intelligence than another, able to get much greater compliance than another doctor in the same practice? Hint: It is not about giving the pet owner more information; they can easily get that from many other sources, including Dr. Internet. This session will discuss a number of very simple, yet effective, tools that can easily be used by doctors and other staff members in order to get to what we all want: Better care for our patients. The presentation will also include tips for dealing with the number one stressor in the veterinary practice: Difficult or upset clients.

485 2:45 – 3:45 p.m.
486 4 – 5 p.m.
**Your Practice Doesn’t Need to be Sick to Get Better**
Robert K. Cartin, DVM
When asked about the number one challenge facing their practice, most owners and managers cite human resources, while most team members cite everyday stress. With the current work environment, these challenges are greater than ever, and concurrently, mental health issues in our profession—including stress, compassion fatigue, burnout, unhealthy coping behaviors, and suicide—have worsened. The first half of this two-part presentation will focus on leadership, generational differences (with emphasis on successful integration of younger team members into the practice), recruiting, training, and retention of staff. The second half will offer strategies for coping with everyday stress and what everyone can do to promote a culture of wellness in the practice, with the ultimate goal of a more profitable and enjoyable workplace for all.

487 8 – 9 a.m.
**Dental Charting: More than Just “X”s and “O”s**
Vickie Byard, CVT, VTS (Dentistry), CVJ
Take your charting skills to the next level! This lecture will discuss anatomy as it relates to dentistry and explore the need and technique for charting periodontal pocket depths, fracture classification, tooth resorptions, mobility, and more. Technicians will leave with a better grasp on how to chart accurately, properly classify tooth resorptions and fractures, and use dental charts as a plan for future case success.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 9:15 – 10:15 a.m. | **Gaining Compliance: Bringing Dentistry to the Table**  
*Vickie Byard, CVT, VTS (Dentistry), CVJ*  
This lecture will explore how practices can offer dentistry services to small animal clients through improved communication and strategic marketing. Discussion will be aimed at stimulating thought around the art of estimate preparation and ways to increase client compliance regarding dental services. |
| 10:30 – 11:30 a.m. | **Periodontal Disease: The Most Prevalent Disease in Veterinary Medicine**  
*Vickie Byard, CVT, VTS (Dentistry), CVJ*  
This session will discuss the roles of the biofilm, plaque, and tartar as they relate to periodontal disease. Treatment options will also be covered, as well as case management. |
| 1:30 – 2:30 p.m. | **How to Test for Adrenal Glands Gone Rogue**  
*Cynthia R. Ward, VMD, Ph.D., DACVIM (SAIM)*  
This talk will begin with a brief overview of hyper- and hypoadrenocorticism processes. Discussion will then focus on testing dogs for these diseases, including protocols, collection tubes, appropriate stimulatory agents, and urine sampling. |
| 2:45 – 3:45 p.m. | **The Technician’s Role in Managing Diabetes Mellitus in Dogs and Cats**  
*Cynthia R. Ward, VMD, Ph.D., DACVIM (SAIM)*  
Veterinary technicians can have a major impact on how successful diabetes treatment is. This talk will focus on strategies for managing diabetic patients, including appropriate diet recommendations, where to obtain blood samples for monitoring, and optimal monitoring protocols. |
| 9:15 – 10:15 a.m. | **Feline Hyperthyroidism: Testing, Treating, and Monitoring**  
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Feline hyperthyroidism is more commonly being diagnosed earlier in the disease progression. This session will address appropriate testing protocols for hyperthyroidism, whether blood draws need to be timed, available treatment options, how to help pet owners manage this disease, what to monitor in treated cats, and more. |
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| 1:30 – 2:30 p.m. | **Radiographic Interpretation of Heart Disease**  
*Brian A. Scansen, DVM, M.S., DACVIM (Cardiology)*  
This session will provide an overview of radiographic interpretation, with particular attention to detecting abnormalities in the cardiac silhouette, chamber enlargement, and the diagnosis of congestive heart failure. Case examples will be shown to demonstrate these abnormalities. |
| 2:45 – 3:45 p.m. | **Abnormal Heart Rhythms: Recognizing Cardiac Arrhythmias**  
*Brian A. Scansen, DVM, M.S., DACVIM (Cardiology)*  
This session will provide an overview of electrocardiogram analysis and what to look for when monitoring an animal’s heart rhythm. Specific rhythm disturbances and case examples will be shown to illustrate these abnormalities. |
| 4 – 5 p.m. | **Blood Pressure Guidelines and Measurement Techniques**  
*Brian A. Scansen, DVM, M.S., DACVIM (Cardiology)*  
Blood pressure monitoring is useful during anesthesia and other potential hypotensive states, as well as when underlying disease that may cause hypertension is present. This session will discuss recently updated guidelines recommending when animals should have their blood pressure measured, the technical methodology required to obtain an accurate blood pressure recording, and the deleterious effects of hypertension on the target organs of injury. |
| 8 – 9 a.m. | **Tales of a Zoo and Exotic Pet Veterinarian**  
*Timothy A. Reichard, DVM, M.S.*  
This three-part session will discuss preventive medicine, restraint, and treatment of amphibians, reptiles, and fish. |
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The Ohio Veterinary Medical Association is pleased to provide a comprehensive educational program at the Midwest Veterinary Conference. However, please be aware that OVMA does not endorse and cannot be responsible for speakers’ content.

### HANDS-ON labs

**D2** 8 a.m. – 5 p.m.

**Aggression in Dogs: Defensive Handling and Training, Part II (Dog-to-Dog Aggression)**

For a full description of this workshop, please see page 50 or visit www.mvcinfo.org/education.

**F** 8 a.m. – 12 p.m.

**Comprehensive Review of Extracapsular Lateral Fabello-Tibial Suture Stabilization of the Canine Stifle**

**Details:**
- **Speaker:** Matthew Barnhart, DVM, M.S., DACVS
- **Fee:** $425
- **Audience:** Veterinarians
- **Level:** Beginner to Intermediate
- **CE:** 4 hours
- **Max Capacity:** 12
- **Prerequisites:** General knowledge of anatomy of the stifle; thorough knowledge of basic surgical skills and aseptic technique

**Description:**
This course is designed for the veterinarian who wishes to learn or refine the extracapsular lateral fabello-tibial suture stabilization technique for treatment of cranial cruciate ligament (CrCL) rupture and to understand the major advantages of suture crimping systems. The lecture portion will include a comprehensive discussion of CrCL disease pathophysiology, review of the meniscus, extracapsular lateral suture stabilization technique, postoperative management, and potential complications. In the hands-on laboratory, participants will perform the extracapsular suture stabilization technique on canine cadaver limbs under instructor supervision. This laboratory will include arthrotomy for stifle exploration, inspection of the medial meniscus, proper placement of the extracapsular suture, use of a precise crimping system, and critique of your repair.

**G** 1:30 – 4:30 p.m.

**Intraoral Radiology for Technicians**

**Details:**
- **Speaker:** Vickie Byard, CVT, VTS (Dentistry), CVJ
- **Fee:** $150
- **Audience:** Technicians
- **Level:** Beginner to Intermediate
- **CE:** 3 hours
- **Max Capacity:** 20
- **Prerequisites:** None

**Description:**
Complete oral health is more than what meets the eye. An essential part of the oral exam, dental radiographs allow you to see anything that’s going on below the surface. This wet lab is designed to help beginner- to intermediate-level technicians hone their intraoral radiology skills further. Participants will learn positioning and other techniques that will help them obtain diagnostic intraoral radiographs efficiently.
ANIMAL behavior

600  8 – 9 a.m.
History Taking for Canine Cases: Get the Information You Need in the Time You Have
Christopher Pachel, DVM, DACVB, CABC
Taking a thorough history is critical to making an accurate behavioral assessment. This process can be time consuming, especially if you’re not sure what information is relevant or how to gather that information efficiently. This session will focus on tools, strategies, and techniques for getting the information you need in the limited time you have to get it. Video of actual cases will be shown to reinforce important concepts.

601  9:15 – 10:15 a.m.
Lunging, Barking, and Out-of-Control Dogs: Sounds like Leash Reactivity!
Christopher Pachel, DVM, DACVB, CABC
“He really is friendly,” an owner says as their dog lunges toward the other dogs in your lobby, frothing at the mouth. Sound familiar? They may be right, but how do you know for sure? And what if they aren’t right at all? Leash reactivity is one of the most common presenting concerns of dog owners. Many different behavior patterns get conveniently lumped into this diagnosis, without understanding why this behavior occurs or what successful intervention and treatment look like. This presentation will cover the most common reasons for leash reactivity and provide practical strategies that attendees can use with their clients.

602  10:30 – 11:30 a.m.
Risk Assessment for Aggression Cases
Christopher Pachel, DVM, DACVB, CABC
Veterinary staff frequently field questions about aggressive behaviors like biting, scratching, lunging, and threatening postures. As with other behavioral questions, there is rarely a single right answer to such a question or a one-size-fits-all solution. This presentation will discuss risk factors that affect the likelihood of achieving a safe and successful outcome for these patients. Strategies for approaching touchy topics, such as rehoming and humane euthanasia, will also be covered.

603  1 – 2 p.m.
604  2:15 – 3:15 p.m.
605  3:30 – 4:30 p.m.
More Than Good Recommendations: Navigating Difficult Conversations
Christopher Pachel, DVM, DACVB, CABC
For better or worse, achieving a successful outcome to behavior problems is about so much more than merely training an animal! This three-part talk will explore barriers to success using a case-based format that will challenge attendees to think about behavior problems in new ways. Specific topics will include tackling issues of anthropomorphism and anthropocentrism, focusing on client strengths rather than faults, evaluating the physical environment for potential obstacles, and responding appropriately to sensitive client information. Attendees will learn to recognize communication patterns, partner effectively with their clients, develop dialogues for navigating common situations, and empower clients to implement recommendations.

EQUINE

606A  8 – 8:30 a.m.
Nutritional Support of the Neonatal Foal
Laura K. Dunbar, DVM, M.S., DACVIM
The neonatal foal has specific nutritional requirements, which are essential to understanding their management under specific conditions. This half-hour session will cover nutritional requirements of normal neonatal foals, as well as methods of providing nutritional support to orphaned and critically ill foals.

607A  9:15 – 9:45 a.m.
Ultrasoundography of the Neonatal Foal
Laura K. Dunbar, DVM, M.S., DACVIM
Ultrasonographic evaluation of the neonatal foal can help identify problems in specific body systems to aid in treatment, prognosis, and monitoring. In this half-hour session, equine practitioners will hear practical tips on ultrasonographic examination of the neonatal foal—including technique; equipment; normal anatomy; and common pathology in abdominal, thoracic, and umbilical structures.

607B  9:45 – 10:15 a.m.
What’s New with Equine Neonatal Sepsis?
Eric L. Schroeder, DVM, M.S., DACVECC, DACVIM
This 30-minute lecture will focus on new outcomes of clinical discovery and how they have changed medical practice of the equine neonate.

606B  8:30 – 9 a.m.
Clinical Pathology of the Neonatal Foal
Laura K. Dunbar, DVM, M.S., DACVIM
Clinicopathologic findings of the neonatal foal are specifically different from those of the adult horse—differences that are important to the correct interpretation of common laboratory tests. Normal variations in the clinicopathologic findings of the neonatal foal and changes that occur over the first few months of life will be discussed in this half-hour session.
**What’s New with Equine Neonatal Diarrhea?**

*Eric L. Schroeder, DVM, M.S., DACVECC, DACVIM*

New diagnostic principles, dilemmas, and treatments for foal diarrhea will be covered in this 30-minute lecture.

**Neonatal Pharmacology and Fluid Therapy: Differences Between Foals and Adults**

*Eric L. Schroeder, DVM, M.S., DACVECC, DACVIM*

This 30-minute session will focus on major changes in drug pharmacology and fluid dynamics of the foal.

**Maximizing Calf Survival**

*Geof W. Smith, DVM, Ph.D., DACVIM*

This session will focus on how to minimize stillbirths and improve calf survival rates through proper management of the cow around calving time. Identification and resuscitation of the neonatal calf after delivery will also be covered.

**Colostrum Management**

*Geof W. Smith, DVM, Ph.D., DACVIM*

This lecture will describe colostrum management in calves and present new information on colostrum replacers.

**Controlling Respiratory Disease in Dairy Calves**

*Geof W. Smith, DVM, Ph.D., DACVIM*

This session will cover diagnosis, treatment, and control of pneumonia in dairy calves.

**Diagnosis and Treatment of Canine Hyperadrenocorticism**

*Cynthia R. Ward, VMD, Ph.D., DACVIM (SAIM)*

This two-hour lecture will focus on choosing the appropriate tests to diagnose canine hyperadrenocorticism (HAC) and how to interpret the results, using case examples to highlight important points. Available treatment modalities for HAC will also be presented, along with tips for effective monitoring.

**Approaching Immunology with Traditional Chinese Veterinary Medicine**

*Gregory Todd, DVM, CVA*

This two-hour lecture will give an overview of the basic concepts in Traditional Chinese Veterinary Medicine (TCVM) and immunology, as well as approaches to conventional immune-mediated diseases with case examples.

**How to Mend a Broken Heart: Traditional Chinese Veterinary Medicine in Cardiac Cases**

*Gregory Todd, DVM, CVA*

This two-hour lecture will discuss some of the basic TCVM concepts in cardiology and their use in the treatment of cardiac cases.

**What’s up with Feline Hyperthyroidism?**

*Cynthia R. Ward, VMD, Ph.D., DACVIM (SAIM)*

In this session, updates on the diagnosis and treatment of feline hyperthyroidism will be presented, with an emphasis on emerging opinions about appropriate monitoring.
disorder. This session will discuss the unique challenges presented by cats with lower urinary tract signs and review case material of the most common causes. A diagnostic plan for approaching these patients will also be presented, as well as ways to make treatment easier on both the clinician and the client.

Feline Dermatology: Common Case Presentations
Natalie Theus, DVM, M.S., DACVD
This session will cover common feline dermatology problems and their treatments, with a focus on conditions frequently seen in practice. The information will be relevant and readily applicable to private clinical practice.

Recent Advances in the Treatment of Pre-Clinical and Symptomatic Feline Cardiomyopathy
Karsten E. Schober, DVM, Dr. med. vet, Ph.D., DECVM-CA (Cardiology)
While medical therapy for congestive heart failure in cats is plainly indicated to restore normal breathing and promote survival, the benefits of treating cats with pre-clinical (asymptomatic) cardiomyopathy remain controversial. This presentation will summarize current standards in the treatment of pre-clinical heart muscle disease and congestive heart failure in cats using a risk-based approach. Topics to be covered include rationale, clinical indication, dosing, monitoring, adverse effects, and results of recent studies on the use of pimobendan, atenolol, spironolactone, plavix, and novel direct factor-Xa inhibitors (rivaroxaban and apixaban) in cats with cardiomyopathy.

Feline Ophthalmic Disease and Therapy
Vanessa Kuonen Cavens, DVM, M.S., DACVO
In this session, common extraocular and intraocular feline diseases will be discussed, along with prognosis, therapeutic options, and surgical techniques when applicable.
Interventional Options for Urinary Tract Obstruction
Brian A. Scansen, DVM, M.S., DACVIM (Cardiology)

Urinary tract diseases such as urolithiasis and neoplasia can result in ureteral or urethral obstruction and debilitating clinical symptoms. While there are surgical options to treat these obstructions, they can be technically difficult (feline ureteral obstruction) or too invasive for a terminal disease (urethral obstruction from urothelial neoplasia). The fields of interventional radiology and endourology can offer alternative, less-invasive treatment solutions for dogs and cats with obstructive disease. This session will discuss the current state of ureteral stenting, ureteral bypass, and urethral interventions, with case examples demonstrating use of these approaches. In addition, recommendations for when to refer and how to manage these patients after intervention will be covered.

Vascular Interventions: Liver Shunts, Invasive Tumors, Epistaxis, and Thrombi
Brian A. Scansen, DVM, M.S., DACVIM (Cardiology)

Interventional radiology is a field of medicine that targets disease via the vasculature, therefore offering minimally invasive options to occlude abnormal blood vessels (portosystemic shunt attenuation), stave non-resectable tumors (chemoembolization), stanch pathologic bleeding, and open thrombosed vessels. This session will present case-based examples of interventional treatment options for a variety of vascular conditions, including congenital portosystemic shunts, tumor embolization, intractable epistaxis, catheter foreign bodies, and vascular thrombosis. Practitioners will gain knowledge of what signs suggest vascular disease, how to work up a patient prior to referral for vascular intervention, and what options are available to treat vascular disease in dogs and cats.

Interventional Cardiology: Patching Holes, Closing Ducts, and Replacing Valves
Brian A. Scansen, DVM, M.S., DACVIM (Cardiology)

The field of structural heart intervention in human medicine has exploded as novel devices are developed to close defects, replace valves, and occlude the left atrial appendage—and structural heart interventions are being performed in animals with increasing frequency as well. This session will highlight recent advances and new data on patent ductus arteriosus occlusion and dilation of stenotic valves. Novel methods of transcatheter valve replacement will be shown, demonstrating the future of cardiac care for dogs. Practitioners will learn how to determine which patients may benefit from structural heart interventions and whom to refer for invasive cardiac procedures.

Cardiology Cases: How Do I Treat Heart Disease?
Brian A. Scansen, DVM, M.S., DACVIM (Cardiology)

This session will present case examples of canine and feline heart disease. Attendees will learn an approach to clinical decision-making that will help them decide how to focus their patient’s physical examination, when to take X-rays, referring a patient out for an echocardiogram, when to start therapy, and what recommended drugs should be used to treat more common cardiovascular diseases. These questions and more will be discussed within the context of real animals suffering from heart disease.

PET ANIMAL urology & nephrology

There’s Nothing Cute About Acute Kidney Injury
Mark J. Acierno, MBA, DVM, DACVIM

This session will present an overview of the pathophysiology of the most common (and a few unusual) causes of acute kidney injury (AKI) and review the diagnostic workup. Emphasis will be placed on treatment strategies and the importance of proper fluid balance, as well as inexpensive but highly accurate ways to monitor fluid balance.

Improving the Quality of Life for Cats with Chronic Kidney Disease
Mark J. Acierno, MBA, DVM, DACVIM

In this session, diagnostic workup and management strategies of chronic kidney disease (CKD) will be discussed. Managing the side effects of CKD—including hydration, hypertension, hypokalemia, hyperphosphatemia, and anemia—will also be covered, with a focus on the importance of diet and feeding strategies.

Feline Lower Urinary Tract Disease: Help, I Can’t Pee!
Mark J. Acierno, MBA, DVM, DACVIM

This session will cover how to work with feline lower urinary tract disease. Diagnostic strategies for patients with this frustrating condition will be explained, as well as which diagnostics clinicians should perform. Latest recommendations will also be presented.

Identifying and Treating Hypertensive Patients
Mark J. Acierno, MBA, DVM, DACVIM

This talk will touch on the pathophysiology and importance of identifying hypertensive patients, with an emphasis
Treatemt steps.
placed on practical diagnostics and
will be reviewed. emphasis will be
grapes, NSAIDS, cholecalciferol, etc.)
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O
Nephrotoxicosis: Ethylene Glycol and Beyond
Mark J. Acierno, MBA, DVM, DACVIM
In this talk, diagnosis, pathophysiol-
ogy, and treatment of common neph-
rotoxins (e.g., ethylene glycol, lilies,
grapes, NSAIDS, cholecalciferol, etc.)
will be reviewed. Emphasis will be
placed on practical diagnostics and
treatment steps.

Canine Incontinence: How Do We Turn Off This Spigot?
Mark J. Acierno, MBA, DVM, DACVIM
In this session, pathophysiology of
canine incontinence will be explored.
Diagnostic algorithms based on breed
and age will be discussed, along with
a variety of tests—from those easily
performed in primary practice to those
available only at specialized practices—
and treatment protocols.

PRACTICE management I

642 8 – 9 a.m.
643 9:15 – 10:15 a.m.
644 10:30 – 11:30 a.m.

Making Cents of Inventory Management
Brandon M. Hess, CVPM, CCFP
How do you create a budget for inven-
tory? How much product should you
order? Where do you even start? There
is a big difference between products
being ordered and sold and actual
inventory management. It may sound
dunting, but it’s easier than you
think. Clear answers to all these ques-
tions and more will be provided dur-
ing this three-part series. Attendees
will learn how to simplify inventory
management, create an efficient
system, and leverage their practice
management software. With a few
simple steps and a few days of work,
practice managers can decrease their
weekly time investment—and increase
practice profitability.

645 1 – 2 p.m.
646 2:15 – 3:15 p.m.
647 3:30 – 4:30 p.m.

Simplifying Product and Service Pricing
Brandon M. Hess, CVPM, CCFP
Pricing products and services shouldn’t
be like throwing a dart at a dart board
and hoping for a bull’s eye. While there
are clear benchmarks to pricing inven-
tory items, services can be much more
challenging. An ineffective pricing
strategy not only stifles revenue, but it
also increases expense percentages.
Less profit equates to less cash for
growth and consequently lower prac-
tice value. This three-part series will
discuss the most recent benchmarks
and approaches to pricing both prod-
ucts and services. Attendees will also
be guided through features of their
software that can be used to stream-
line pricing.

PRACTICE management II

648 8 – 9 a.m.
649 9:15 – 10:15 a.m.

Crushing Compassion Fatigue: Yes, It’s Possible!
Jennifer Quammen, DVM, MPH and Ryan
Smith, M.S.
Veterinary professionals suffering
from compassion fatigue, moral fa-
tigue, or burnout can wind up leaving
the profession altogether or con-
stantly changing jobs looking for the
ever-elusive greener grass. Some self-
soothe the pain with alcohol, drugs, or
other addictive substances, and oth-
ers even take their own lives. During
this two-part presentation, attendees
will learn to recognize compassion
fatigue in themselves and others, and
more importantly, how to combat it.
The tips and tools presented in this
session will be simple, effective, and
immediately implementable.

650 10:30 – 11:30 a.m.

Stress is Not Stress: How to Handle Human Stress
Jennifer Quammen, DVM, MPH and Ryan
Smith, M.S.
What we refer to as stress is actu-
ally an evolutionary mechanism of
defense and safety that is housed in the
“animal” part of our brains. Stress
is also contagious. You give it or get
it from clients, patients, co-workers,
and others. But it can be fixed! In this
session, attendees will learn how their
animal brain works, how to tame their
“inner terrier” to avoid infecting others
with stress, and how to protect them-
selves from stress. Tangible, real-world
techniques for recognizing fear, stress,
and anxiety in yourself and others will
be provided, along with easy, quick
tools for managing stress in seconds.
Attendees will take home effective, ef-
ficient, and simple techniques that can
be used immediately to alleviate stress
and anxiety.

651 1 – 2 p.m.

Becoming a Veterinary Rockstar
trough Self-Care
Jennifer Quammen, DVM, MPH and Ryan
Smith, M.S.
Personal wellness matters just as
much, if not more than, your patients’. If
you aren’t practicing self-care, you
are doing a disservice to your patients,
staff, family, and colleagues—and most
importantly, to yourself. There are six
basic areas of self-care that you need
to master and optimize in order to
achieve veterinary rockstar status. In
this session, attendees will find out
what those six areas are, as well as
learn about a tried-and-true blueprint
for success that can be implemented
right away.
A Tale of Two Dogs: The Importance of Self-Care
Jennifer Quammen, DVM, MPH and Ryan Smith, M.S.
Would you prefer your dog to be healthy, happy, and well fed—or sick, depressed, and malnourished? Without a doubt, we all want our dogs to be like the former. The same is true of people: We would rather work with and rely on colleagues who are healthy and happy. This session will use the metaphor of these two dogs to parallel how many veterinary professionals treat themselves and one another. The audience will learn that self-care isn’t selfish and that, in fact, it is our most critical obligation as part of the veterinary healthcare team.

PUBLIC health

Surviving the Outbreak
Moderated by Maria Belu, DVM, MPH; Megan Halcomb, DVM, MPH; Armando Hoet, DVM, Ph.D., DACVPH; and Jeanette O’Quin, DVM, MPH
In this interactive three-hour session, participants will break into small groups, and each group will be given a different zoonotic disease scenario based on real events. Together, attendees will answer the questions and make decisions to end the outbreak, preventing both human and animal illnesses. All three scenarios will be discussed at the end, so groups can share their take-aways. Note: This session will not follow the normal break schedule.

SHELTER animal

Outbreak! An Interactive Learning Experience
Lena G. DeTar, DVM, DACVP, DABVP-SMP
Do you have what it takes to stop an outbreak before it destroys your entire shelter? This two-hour interactive learning experience, first seen at the HSUS Animal Care Expo and ASPCA Cornell Maddie’s Shelter Medicine Conference, will challenge attendees to manage a disease outbreak in the shelter setting. Will you be able to manage the outbreak before animals die, disease spreads, and the public protests at your doorstep? How will you manage adopters and transport partners? Will you quarantine or isolate sick animals (and what is the difference, anyway)? Choosing the right answers will save the shelter, reassure your donors, and, most importantly, save lives—but a wrong one may have a devastating impact.

Canine Distemper: Management for Individuals, Shelters, and Communities
Lena G. DeTar, DVM, DACVP, DABVP-SMP
Canine distemper virus is a well-known disease that has devastated dogs for hundreds of years. Vaccination is extremely effective in preventing it, but cases still crop up, especially in puppies from rural and underserved communities. This lecture will help shelter veterinarians and staff recognize and manage individual, shelter, and community cases, keeping in mind the limitations of resources and diagnostic testing.

immune-mediated hematologic disorders
Bridget K. Urie, DVM, M.S., DACVIM (Oncology)
This two-part presentation will offer a case-based approach to immune-mediated hematologic disorders in small animals. The first hour will refresh attendees on immunology, and then discuss patient presentation. The second half will deal with diagnosis, treatment, and long-term management.

Potpourri of Feline Cancer: Because Cats are not Small Dogs
Bridget K. Urie, DVM, M.S., DACVIM (Oncology)
Often the forgotten species, cats are sometimes thought of as small dogs—but nothing could be further from the truth, especially when cancer is involved. Feline cancer is quite different from canine cancer, and cats can (and do) develop cancer after receiving injections—not just vaccines. This session will explore a variety of feline oncology topics relevant to veterinary technicians.

Hidden Secrets of the Blood Smear
Bridget K. Urie, DVM, M.S., DACVIM (Oncology)
This two-part lecture will discuss the importance of blood film review and its clinical relevance, with a focus on dog and cat complete blood count results and evaluation. Part one will deal with white blood cells, and part two will cover red blood cells and platelets.
2019 SPEAKERS

ANIMAL behavior

Christopher Pachel, DVM, DACVB, CABCP
Animal Behavior Clinic
Portland, Ore.
Affiliation: Instinct Dog Training

Amy L. Pike, DVM, DACVB
Animal Behavior Wellness Center
Clifton, Va.

AQUACULTURE

Jessie M. Sanders, DVM, CertAQV
Aquatic Veterinary Services
Watsonville, Calif.

EQUINE

Warren L. Beard, DVM, M.S., DACVS
Kansas State University
Olsburg, Kan.

Laura K. Dunbar, DVM, M.S., DACVIM
The Ohio State University
Columbus, Ohio

Ryland B. Edwards III, DVM, Ph.D., DACVS, DACVS/MR
Fairfield Equine Associates
Newtown, Conn.

Rick Martin
Orlando, Fla.

Michael Rossi, DVM, M.N., DACVD
Houston, Texas

Eric L. Schroeder, DVM, M.S., DACVECC, DACVIM
The Ohio State University
Columbus, Ohio

Monique Pairs-Garcia, DVM, Ph.D.
The Ohio State University
Columbus, Ohio

Todd Price, DVM
North Central Veterinary Services
Upper Sandusky, Ohio

Geof W. Smith, DVM, Ph.D., DACVIM
North Carolina State University
Raleigh, N.C.

Alison L. Van Eenennaam, M.S., Ph.D.
University of California, Davis
Davis, Calif.

Anne M. Zajac, DVM, Ph.D., DACVM
(Parasitology)
Virginia Tech
Blacksburg, Va.

PET animal

Turi K. Aarnes, DVM, M.S., DACVAA
The Ohio State University
Columbus, Ohio

Mark J. Acierno, MBA, DVM, DACVIM
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Phoenix, Ariz.

Jamie M. Burkitt, DVM, DACVECC
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Davis, Calif.

Julie K. Byron, DVM, M.S., DACVIM
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Columbus, Ohio

Vanessa Kuonen Cavens, DVM, M.S., DACVO
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Melissa Clark, DVM, Ph.D., DACVCP, DACVIM
MedVet Medical and Cancer Centers for Pets
Columbus, Ohio

Robert M. Dudley, DVM, M.S., DACVS-SA
MedVet Medical and Cancer Centers for Pets
Columbus, Ohio

Andrea J. Fascetti, VMMD, Ph.D., DACVIM (SA), DACVN
University of California, Davis
Davis, Calif.
Affiliation: Mars Petcare, Nestle Purina Petcare Company, Mark Morris Institute

Elizabeth A. Giuliano, DVM, M.S., DACVO
University of Missouri
Fulton, Mo.

Cheryl B. Greenacre, DVM, DABVP (Avian & Exotic)
University of Tennessee
Maryville, Tenn.
Affiliation: Oxbow Animal Health

Tamara Grubb, DVM, Ph.D., DACVAA
Washington State University
Uniontown, Wash.

Andrew Hillier, BVSc, MANZCVS (Canine Medicine), DACVD
Zoetis
Edgewater, N.J.

Stephen C. Jones, MVB, M.S., DACVS-SA
The Ohio State University
Columbus, Ohio

Brook A. Niemiec, DVM, DAVDC, DEVD, FAVD
Veterinary Dental Specialties and Oral Surgery
San Diego, Calif.

FOOD animal

Barbara Bloetscher
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Columbus, Ohio

Stephen L. Boyles, Ph.D.
The Ohio State University
Columbus, Ohio

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Veterinary Molecular Diagnostics, Inc.
Milford, Ohio

Steven J. Moeller, Ph.D.
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Veterinary Molecular Diagnostics, Inc.
Milford, Ohio

Steven J. Moeller, Ph.D.
The Ohio State University
Columbus, Ohio
EDUCATION committees

Committee chair: Ellen Yoakam, DVM

ANIMAL behavior
- Meghan Herron, DVM*
- Susan Barrett, DVM
- Elizabeth S.M. Feltis, DVM
- Andrea Miller, DVM
- Laurie Schulze, DVM
- Traci Shreyer, M.A.
- Allison Shull, DVM

EQUINE
- Bimbo Welker, DVM*
- Ray Hephner, DVM
- Paul Masters, DVM
- Eric Schroeder, DVM
- Daniel Stradley, DVM
- Jonathan Yardley, DVM

FOOD Animal
- Amanda Wagner, DVM*
- Andrew Bowman, DVM
- Leah Dorman, DVM
- Brandon Forshey, DVM
- Eric Gordon, DVM
- Ellen Yoakam, DVM

HOLISTIC & integrative medicine
- Neal Sivula, DVM*
- Ann Bancroft, DVM
- Jim Carlson, DVM
- Debbie Decker, DVM
- Brett Ellis, DVM
- Jon Ellis, DVM
- Carol Gifford, DVM
- Donn Griffith, DVM
- Jamie Klemets, DVM
- Kristen Sherman, DVM
- Karen Spracklen, DVM

PET animal
- Robert Knapp, DVM*
- Robert Shering, DVM*
- William Fraser, DVM
- Symone Niesz-Ent, DVM
- Laurie Millward, DVM
- Terah Webb, DVM

PRACTICE management
- David Haeussler, DVM*
- Jill Dentel, DVM
- Ed Fegan
- William Fraser, DVM
- Robert Knapp, DVM
- Andrea Lukuch

PUBLIC health
- Amber Singh, DVM*
- Jane Bradford-Battig, DVM
- Julie Bilchak, DVM
- Kathryn Campitelli, DVM
- John Gibbins, DVM
- Jeff Hayes, DVM
- Michael Hockman, DVM
- Armando Hoet, DVM
- Mark Lehman, DVM
- Jeanette O’Quin, DVM
- Saba Osloobi, DVM
- Kathy Smith, DVM
- Jason Stull, DVM
- Nicholas Wagner, DVM

SHELTER animal
- Allison Lash, DVM*
- Jeanette O’Quin, DVM*
- Rachel Finney, CAWA
- Robert Fisher, DVM
- Sharon Harvey, M.A.
- Debbie Johnson, DVM
- Mark Kumpf, CAWA

SMALL ruminants
- Eric Gordon, DVM*
- Leah Dorman, DVM
- Brandon Forshey, DVM
- Amanda Wagner, DVM
- Ellen Yoakam, DVM

TECHNICIAN
- Angela Beal, DVM*
- Courtney Beiter, RVT*
- MacKenzie Engle, RVT
- Christie Myers, RVT
- Kimberly Myers, RVT
- Vicki Riley, RVT

*Subcommittee chair
### 2019 Speakers

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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</thead>
<tbody>
<tr>
<td>Meghan E. Herron, DVM, DACVB</td>
<td>The Ohio State University, Columbus, Ohio</td>
</tr>
<tr>
<td>Brandon M. Hess, CVPM, CCFP</td>
<td>VetSupport, Liberty Township, Ohio. Affiliation: Patterson Veterinary University</td>
</tr>
<tr>
<td>Cynthia D. Kidd, DVM</td>
<td>Mt. Zion Animal Clinic &amp; Boarding, Inc., Jackson, Ohio. Affiliation: Ohio Veterinary Medical Licensing Board</td>
</tr>
<tr>
<td>Charlotte Lacroix, DVM, J.D.</td>
<td>Veterinary Business Advisors, Inc, Whitehouse Station, N.J.</td>
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<tr>
<td>Cameron J. McNamee, MPP</td>
<td>Ohio Board of Pharmacy, Columbus, Ohio</td>
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<tr>
<td>Melissa Moser</td>
<td>Ohio Department of Natural Resources, Columbus, Ohio</td>
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<tr>
<td>Nina Mouledous, DVM</td>
<td>AVMA PLIT, Downers Grove, III.</td>
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<tr>
<td>Jennifer Quammen, DVM, MPH</td>
<td>High Performance Living, LLC, Walton, Ky.</td>
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<tr>
<td>Kimberly A. Riker-Brown, DVM</td>
<td>Shoreland Animal Hospital, Toledo, Ohio. Affiliation: Ohio Veterinary Licensing Board, AAVSB</td>
</tr>
<tr>
<td>Amber Singh, DVM, MPH</td>
<td>Ohio Department of Health, Columbus, Ohio</td>
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<tr>
<td>Ryan Smith, M.S.</td>
<td>High Performance Living, LLC, Walton, Ky.</td>
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<tr>
<td>Matthew Verbsky, DVM, M.S.</td>
<td>MedVet Medical and Cancer Center for Pets, West Liberty, Ohio</td>
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<tr>
<td>Tony M. Forshey, DVM</td>
<td>Ohio Department of Agriculture, Reynoldsburg, Ohio</td>
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<tr>
<td>Carrie L. Freed, MLAS, DVM, DACLAM</td>
<td>The Ohio State University, Columbus, Ohio</td>
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<tr>
<td>Kelly J. Gambino-Shirley, DVM, MPH</td>
<td>United States Air Force, Springboro, Ohio</td>
</tr>
<tr>
<td>Vanessa L. Hale, MAT, DVM, Ph.D.</td>
<td>The Ohio State University, Columbus, Ohio</td>
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<tr>
<td>Kate KuKanich, DVM, Ph.D., DACVIM (SAIM)</td>
<td>Kansas State University, Manhattan, Kan.</td>
</tr>
<tr>
<td>Joshua N. Lorbach, DVM</td>
<td>The Ohio State University, Columbus, Ohio</td>
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<tr>
<td>Antoinette Marsh, M.S., Ph.D., J.D.</td>
<td>The Ohio State University, Columbus, Ohio</td>
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<td>Amber Singh, DVM, MPH</td>
<td>Ohio Department of Health, Columbus, Ohio</td>
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<tr>
<td>Susan M. Skorupski, M.S., DVM</td>
<td>USDA, APHIS, Veterinary Services, Pickerington, Ohio</td>
</tr>
<tr>
<td>Vaughn K. Taylor-Lehman, DVM, SPHV</td>
<td>USDA Food Safety and Inspection Service, Lombard, Ill.</td>
</tr>
<tr>
<td>Nelson D. Weaver, DVM</td>
<td>Ohio Department of Agriculture, Reynoldsburg, Ohio</td>
</tr>
</tbody>
</table>

### RECENT graduates

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>David S. Biller, DVM, DACVR</td>
<td>Kansas State University, Manhattan, Kan.</td>
</tr>
<tr>
<td>Howard B. Seim III, DVM, DACVS</td>
<td>Colorado State University, Fort Collins, Colo.</td>
</tr>
</tbody>
</table>

### Public Health

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roy Barnewall, DVM, Ph.D.</td>
<td>Battelle, Columbus, Ohio</td>
</tr>
<tr>
<td>Abbey J. Canon, DVM, MPH, DACVPM</td>
<td>Center for Food Security and Public Health, Stanhope, Iowa</td>
</tr>
<tr>
<td>Matthew S. Flenner, EIAO</td>
<td>Ohio Department of Agriculture, Reynoldsburg, Ohio</td>
</tr>
</tbody>
</table>

### Small Ruminants

<table>
<thead>
<tr>
<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Joan S. Bowen, DVM</td>
<td>Bowen Mobile Veterinary Practice, Wellington, Colo. Affiliation: American Association of Small Ruminant Practitioners</td>
</tr>
<tr>
<td>C. Austin Hinds, DVM, M.S., DACVIM-LA</td>
<td>The Ohio State University, Columbus, Ohio</td>
</tr>
</tbody>
</table>

### Shelter Animal

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jeff Adney</td>
<td>PermaTek Coatings, Valparaiso, Ind.</td>
</tr>
<tr>
<td>Lena G. DeTar, DVM, DACVPM, DABVP-SMP</td>
<td>Cornell University, Ithaca, N.Y.</td>
</tr>
<tr>
<td>Rachel D.K. Finney, CAWA</td>
<td>Columbus Humane, Hilliard, Ohio</td>
</tr>
<tr>
<td>Stephanie Janeczko, DVM, M.S., DABVP, CAWA</td>
<td>ASPCA, New York, N.Y.</td>
</tr>
<tr>
<td>Cynthia L. Karsten, DVM, DABVP (Shelter Medicine Practice)</td>
<td>University of California, Davis, Sacramento, Calif.</td>
</tr>
<tr>
<td>Richard J. Meadows III, MCI, MET</td>
<td>Ohio Peace Officer’s Training Academy, Richfield, Ohio</td>
</tr>
<tr>
<td>Elyssa D. Rathbone</td>
<td>Columbus Humane, Hilliard, Ohio</td>
</tr>
<tr>
<td>Aimee Sadler</td>
<td>Dogs Playing for Life, Longmont, Colo.</td>
</tr>
<tr>
<td>Greg N. Taylor, B.A., MBA</td>
<td>The Mason Company, LLC, Leesburg, Ohio</td>
</tr>
</tbody>
</table>
Margaret A. Masterson, DVM, M.S., DACVP
The Ohio State University College of Vet. Med. Large Animal Services
Plain City, Ohio
Affiliation: American Association of Small Ruminant Practitioners, American Association of Bovine Practitioners

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Vickie Byard, CVT, VTS (Dentistry), CVJ
PetED Veterinary Education and Training Resources
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Jennifer F. Johnson, VMD, CVPP
International Veterinary Academy of Pain Management
Fountain Hills, Ariz.

Tasha Mc Nerney, CVT, CVPP, VTS (Anesthesia)
Veterinary Anesthesia Nerds
Glenaside, Pa.

Eric J. Miller, DVM, M.S., DACVO
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Grove City, Ohio

Danielle Provost, CVT, VTS (ECC)
Veterinary Specialty Hospital of the Carolinas
Fuquay Varina, N.C.
Affiliation: Academy of Veterinary Emergency & Critical Care Technicians

Timothy A. Reichard, DVM, M.S.
Dr. Tim’s Wildlife and Exotics Care, LLC
Toledo, Ohio

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Fort Collins, Colo.

Joshua A. Stern, DVM, Ph.D., DACVIM (Cardiology)
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Trish McMillan, M.Sc., CPDT-KA, CDBC
Loehr Animal Behavior
Mars Hill, N.C.

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Veterinary Dental Specialties and Oral Surgery
San Diego, Calif.

Aimee Sadler
Dogs Playing for Life
Longmont, Colo.

Michael Shikashio, CDBC
Complete Canines LLC
Mystic, Conn.

Learn more about this year’s speaker lineup online at www.mvcinfo.org/education.
## HOTEL BLOCKS FOR MVC ATTENDEES

<table>
<thead>
<tr>
<th>Property</th>
<th>Address</th>
<th>Nightly Rate ¹</th>
<th>Phone ²</th>
<th>Code</th>
<th>Block Close ³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hyatt Regency Headquarters</td>
<td>350 N. High St. Columbus, Ohio 43215</td>
<td>Single: $169 · Double: $179&lt;br&gt;Triple: $189 · Quad: $199</td>
<td>888-421-1442</td>
<td>VM19</td>
<td>1/23/19</td>
</tr>
<tr>
<td>Crowne Plaza Connected to GCCC</td>
<td>33 E. Nationwide Blvd Columbus, Ohio 43215</td>
<td>Single: $180 · Double: $190&lt;br&gt;Triple: $200 · Quad: $210</td>
<td>877-283-1700</td>
<td>OVM</td>
<td>1/29/19</td>
</tr>
<tr>
<td>Hilton Connected to GCCC</td>
<td>401 N. High St. Columbus, Ohio 43215</td>
<td>Single/Double: $166</td>
<td>855-380-9591</td>
<td>OVMA19</td>
<td>1/21/19</td>
</tr>
<tr>
<td>Drury Inn &amp; Suites Connected to GCCC</td>
<td>88 E. Nationwide Blvd. Columbus, Ohio 43215</td>
<td>Single/Double: from $144&lt;br&gt;Triple/Quad: from $154</td>
<td>800-325-0720</td>
<td>2311626</td>
<td>1/29/19</td>
</tr>
<tr>
<td>Hampton Inn Across from GCCC</td>
<td>501 N. High St. Columbus Ohio 43215</td>
<td>Single: $149 · Double: $159</td>
<td>614-559-2000</td>
<td>MVC</td>
<td>1/22/19</td>
</tr>
<tr>
<td>Staybridge Suites 5.5 miles from GCCC⁺</td>
<td>3121 Olentangy River Rd. Columbus, Ohio 43202</td>
<td>Single/Double: $134.99</td>
<td>614-262-6900</td>
<td>Ohio Vet Conference</td>
<td>1/20/19</td>
</tr>
<tr>
<td>Holiday Inn Express 5.5 miles from GCCC⁺</td>
<td>3045 Olentangy River Rd. Columbus, Ohio 43202</td>
<td>Single/Double: $129.99</td>
<td>614-447-1212</td>
<td>Ohio Vet Conference</td>
<td>1/20/19</td>
</tr>
</tbody>
</table>

¹ Rates do not include current tax of 17.5% ² Or book online at www.mvcinfo.org/travel ³ Or until sold out. Visit MVC website for overflow hotels. ⁴ Shuttle available within 2-mile radius of hotel; no shuttle to GCCC.

## AREA PARKING

Visit [www.parkingpanda.com](http://www.parkingpanda.com) to reserve and pay for parking in advance.

## GCCC PARKING

1. East Surface Lot<br>80 E. Nationwide Blvd. Close to Red Roof Inn, Crowne Plaza, and Drury Inn
2. South Garage<br>88 E. Nationwide Blvd. Attached to Hyatt/GCCC; sky bridge to Drury Inn, Crown Plaza
3. Vine Street Garage<br>45 Vine St. Connected to Hilton
4. Goodale Street Garage<br>70 E. Goodale St. Across from GCCC
5. North Surface Lot<br>50 E. Goodale St. Across from GCCC

## NATIONWIDE & ARENA GARAGES

6. 44 E Chestnut St.<br>Sky bridge to Hyatt and Crowne Plaza
7. 245 Marconi Blvd.
8. 285 N. Front St.
9. 438 Brodbelt Lane
GENERAL MVC DETAILS

Where is the MVC held?
The MVC is held at the Greater Columbus Convention Center, Hall A (400 N. High St., Columbus, Ohio 43215) and the Hyatt Regency Hotel (350 N. High St.).

What is the dress code?
Attire for the MVC is business casual. You may wish to dress in layers, as Convention Center and hotel meeting rooms can vary in temperature.

What should I bring?
• **Session notes**, if you prefer to have a hard copy, as there are no printing stations on site. Conference proceedings will be available online beginning Feb. 1, 2019. Check your confirmation for log-in instructions.
• **Confirmation packet and badge.** There is a $5 replacement fee for lost badges.
• **Smartphone or tablet** with MVC mobile app installed. Visit www.mvcinfo.org/app to learn more.
• Health codes prohibit pets on site. In keeping with the law, only service dogs are permitted.

Are meals or refreshments served?
The MVC offers complimentary beverages in the Exhibit Hall (water, coffee, hot tea) and session rooms (water) throughout the day. Attendees may purchase food in the Exhibit Hall during the two-hour midday break, and there are a number of nearby restaurants as well.

ADA ACCOMMODATIONS

I require special assistance under the Americans With Disabilities Act. How do I make this request?
Simply list your needs in the “ADA Accommodations” field of the paper or online registration form. Requests should be made no later than Feb. 8, 2019.

ATTENDEE BADGES

What information does my badge show?
Badges (see right) show an attendee’s first name or nickname, full name, location, and attendee type. When registering, please type/print your name exactly as you would like it to appear on your badge.

When do I need to wear my badge?
Badges are required for entry into all MVC sessions, labs, events and the Exhibit Hall.

What if I lose my badge?
There is a $5 replacement fee for lost or forgotten badges. You can pick up a replacement at the Attendee Assistance counter on site.

CONTINUING EDUCATION

Are the MVC’s sessions approved for continuing education credit?
All sessions and labs are approved for CE credit by the Ohio Veterinary Medical Licensing Board, and most other states recognize this approval.

How many hours of CE can I earn?
Attendees can earn up to 6 CE hours per day and 24 hours for the full MVC.

How can I keep track of my sessions?
• Sign up for sessions during registration. This ensures you always have a record of the sessions you selected;
• Add sessions to your personal schedule in the MVC mobile app; and/or
• Fill out the record for continuing education in the on-site program given to each attendee upon arrival.

Can I modify my schedule after registration if I change my mind?
Yes. Refer to your confirmation email or www.mvcinfo.org/FAQs for instructions.

How can I obtain a CE certificate?
If your state requires verification by the hosting organization (check with your state’s licensing board; Ohio does not), present your completed record of CE to an OVMA staff member on site for signature.

Can I purchase recordings of sessions I’m not able to attend?
No, sessions will NOT be audio or video recorded at the 2019 MVC.

EXHIBIT HALL

Can I bring an unregistered guest with me into the Exhibit Hall?
Yes, visitors may purchase Exhibit Hall-Only passes in advance or on site for $20 per person per day. Children under 18 are admitted at no charge, but they still need a badge and must be accompanied by a guardian at all times.

What information can exhibitors obtain by scanning my badge?
Your name, individual type, company, mailing and email addresses, and phone number (if provided)—are encoded in the QR code on your badge.

Continued on next page »
What if I don’t want to share my information?
If you do not wish to share your contact information, simply decline to have your badge scanned.

HOTELS & TRAVEL
What hotels are nearby?
See page 72 for a list of reserved room blocks at nearby hotels. Be advised, OVMA does not handle lodging requests, so attendees will need to contact the hotel directly to book, change, and/or cancel a reservation. Visit www.mvcinfo.org/travel for links to each hotel’s online reservation system.

Where can I park? How much does it cost?
See page 72 or check with your hotel to find out about their parking and/or valet services. Visit https://www.parkingpanda.com/columbus-convention-center-parking to view rates and reserve a parking spot in advance.

MOBILE APP
What devices is the app compatible with?
The app works on Apple and Android devices. You can also access it in a web browser on your smartphone, tablet, or computer.

When will the app be available? How do I download it?
The app is scheduled for release in early January. All registered attendees will receive an email invitation at that time, or you may search for “Midwest Veterinary Conference” in your phone’s app store.

I downloaded last year’s app and still have it installed on my device. Will I have to download it again?
This year, the MVC is moving to a standalone app, rather than the Attendee Hub used last year—which means that you will need to install a new app. However, you can delete the Attendee Hub app; you will be able to access 2018 content alongside the 2019 information in the new app. In the future, all MVC apps will be housed within this app, so you won’t have to download anything else!

Do I have to create an account and log in to access the app?
No, but you will not be able to access all of the app’s features—including personalizing your schedule, attendee networking, the passport game, note taking, rating sessions, and accessing session notes—if you do not log in.

How do I use the app to network with other attendees?
First, you will need to opt in to attendee networking during registration. Once you have downloaded the app, follow these instructions:
• After logging in, tap the Attendees icon to browse registrants.
• When you find someone you want to connect with, tap their name, then tap Add Contact to send a contact request.
• If they accept, the two of you will exchange info.
You are encouraged to connect with fellow attendees not only during the Conference, but in advance too. The app makes it easy to find colleagues, send messages, and set up meetings, so you can make the most of your time on site!

For more mobile app help, please visit www.mvcinfo.org/app.

VOLUNTEERING
Does the MVC need volunteers to help with the Conference?
Yes! The MVC staff needs registered attendees to serve as moderators for each session. (See page 83 for more information on moderator duties.)

OVMA Members are also needed to act as short-term "mentors" to veterinary students at the Connection Corner luncheon on Friday.

Who can volunteer as a moderator?
All MVC attendees are invited to moderate on the day(s) they are registered to attend. Please note, you may not moderate on days you are not registered.

How do I volunteer to moderate?
Attendees may volunteer online after completing their MVC registration. Instructions and access information will be included in the confirmation email.

I’m an OVMA Member. How do I sign up for the networking lunch?
Members may RSVP for the event during online registration (see page 4) or by contacting event coordinator Krysten Bennett at kdb@ohiovma.org.

What if I don’t want to share my information?
If you do not wish to share your contact information, simply decline to have your badge scanned.
CANCELLATIONS & TRANSFERS
How can I cancel my registration if I’m unable to attend?
You may cancel your registration by one of the following methods:
- Via your online account prior to the conference;
- By submitting a written refund request to info@mvcinfo.org; or
- By completing the cancellation form on the MVC website.

More information and instructions can be found on the MVC website at www.mvcinfo.org/FAQ.

Will I receive a refund?
Yes, OVMA will refund a portion of your registration fees if you are unable to attend, provided your request is received by March 7, 2019. The full cancellation policy can be found on the registration forms.

Can I transfer my registration to someone else on my staff?
Yes. Transfer a registration by:
- Each registrant must have their own email address to register online. See “Online Registration” for details.
- To register a group by mail/fax, please use a separate form for each veterinarian (p. 77). You may register up to four staff members on the staff registration form (p. 79), as well as purchase Hospital Staff Passes and add guests. Make copies of the forms as needed.
- Send all forms together with one payment. If faxing, please include a cover sheet denoting the number of pages being sent and write the company name at the top of each page.
- Note: If registering by mail/fax, an email address for each attendee is not required. However, you will not receive an email confirmation if you opt not to provide a unique email.

We’ve had changes in staff since the last MVC. How can we update our staff roster?
Before registering, please contact us at info@mvcinfo.org. If you have new employees, be sure to include first and last names, a unique email address for each person, and their individual types (veterinarian, technician, etc.). If anyone has left your employ, only their full name is required.

HOSPITAL STAFF PASSES
What is a Hospital Staff Pass?
- Hospital Staff Passes allow support staff to attend the MVC without CE verification.
- Passes may be NOT be used by veterinarians or technicians/nurses.
- The Pass is shareable among support staff, eliminating the need to register everyone individually.
- Each Pass can be used for a maximum of 24 hours of sessions on any day(s).
- The hospital’s contact information will be embedded in the badge QR code (rather than each individual staff member).
- Passes can be picked up on site and will be filed under the hospital name.

GROUP REGISTRATION
Can I register multiple employees from my practice/organization at the same time?
Yes. Be advised of the following when registering multiple individuals:
- Each registrant must have their own email address to register online. See “Online Registration” for details.
- To register a group by mail/fax, please use a separate form for each veterinarian (p. 77). You may register up to four staff members on the staff registration form (p. 79), as well as purchase Hospital Staff Passes and all the forms in a single envelope.

ONLINE REGISTRATION
I’m not very tech savvy. Can someone guide me through online registration?
We can help! Visit the MVC website at www.mvcinfo.org/registration to find detailed, step-by-step instructions that will walk you through the entire process.

MUST-KNOW DETAILS: EMAIL ADDRESSES
Do I need an email address to register online?
Yes, an email address is required. Please keep the following in mind:
- Each registrant MUST have his/her own UNIQUE email address to register online.
- Email addresses may not be shared among attendees, as they link to your personal record and are how MVC staff keep track of your attendance, credits, payments, etc.

I can’t remember what email address I used to register last year, or I have a new email address. What should I do?
Contact us at info@mvcinfo.org to retrieve the correct email address prior to starting your registration. Please DO NOT create a new account, as this will result in duplicate records and prevent you from accessing previous registrations and discounted registration rates (if you are an OVMA member). You will also receive duplicate mailings in the future.

How do I update my email address?
Should you wish to change your email address, please email us at the address above before registering, as only OVMA staff can make this change to your record.

Can I register more than one person through online registration?
Yes, group registration works the same way as individual registration, except you will click the “Add Another Attendee” link on the individual summary page instead of clicking the “Next” button. You may repeat the process as many times as needed.

Continued on next page
## FEES & DEADLINES

<table>
<thead>
<tr>
<th>Tier I</th>
<th>Tier II</th>
<th>Tier III</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Through 1/8/19</strong></td>
<td><strong>1/9 – 2/8/19</strong></td>
<td><strong>2/9 – 2/17 – online only</strong>&lt;br&gt;<strong>2/20 – 2/24 – on site</strong></td>
</tr>
</tbody>
</table>

### Veterinarian – OVMA Member or Out of State
- **One Day**<br>$160 online • $170 mail/fax<br>$190 online • $200 mail/fax<br>$230
- **Full MVC**<br>$270 online • $285 mail/fax<br>$315 online • $330 mail/fax<br>$360

### Veterinarian – OVMA Life Member¹<br>**One Day**<br>$100 online • $105 mail/fax<br>$110 online • $115 mail/fax<br>$125
- **Full MVC**<br>$150 online • $155 mail/fax<br>$170 online • $175 mail/fax<br>$190

### Veterinarian – Non-Member in Ohio<br>**One Day**<br>$340 online • $350 mail/fax<br>$370 online • $380 mail/fax<br>$410
- **Full MVC**<br>$450 online • $465 mail/fax<br>$495 online • $510 mail/fax<br>$540

### Veterinarian – Resident or Intern<br>**OVMA Member**<br>$80 online • $90 mail/fax<br>$90 online • $100 mail/fax<br>$100
- **Out of State**<br>$80 online • $90 mail/fax<br>$90 online • $100 mail/fax<br>$100
- **Non-Member in Ohio**<br>$130 online • $140 mail/fax<br>$140 online • $150 mail/fax<br>$150

### Technicians<br>**One Day**<br>$105 online • $115 mail/fax<br>$125 online • $135 mail/fax<br>$145
- **Full MVC**<br>$160 online • $170 mail/fax<br>$180 online • $190 mail/fax<br>$205

### Hospital Staff<br>**One Day**<br>$105 online • $115 mail/fax<br>$125 online • $135 mail/fax<br>$145
- **Full MVC**<br>$160 online • $170 mail/fax<br>$180 online • $190 mail/fax<br>$205

### Hospital Staff Pass²<br>**One Day**<br>$290 online • $300 mail/fax<br>$310 online • $320 mail/fax<br>$345

### Students<br>**Member³**<br>$0 online • $0 mail/fax<br>$0 online • $0 mail/fax<br>$0
- **Non-Member**<br>$20 online • $20 mail/fax<br>$20 online • $20 mail/fax<br>$20
- **Pre-Vet⁴**<br>$20 online • $20 mail/fax<br>$20 online • $20 mail/fax<br>$20

### Spouses & Guests⁵<br>**One Day**<br>$90 online • $95 mail/fax<br>$100 online • $105 mail/fax<br>$120
- **Full MVC**<br>$120 online • $130 mail/fax<br>$130 online • $140 mail/fax<br>$150

### Exhibit Hall Visitors<br>**Per Day**<br>$20 online • $20 mail/fax<br>$20 online • $20 mail/fax<br>$20

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1. OVMA Board approved • 2. Non-veterinarian, non-technician/nurse only. No CE credit issued for this registration type. • 3. Member of OVMA (vet students) or SCNAVTA (tech students) • 4. Not attending the Veterinary Exploration Conference • 5. Non-veterinary professionals only, age 18+. No CE credit issued for this registration type.

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**MORE QUESTIONS?**
Visit [www.mvcinfo.org/FAQs](http://www.mvcinfo.org/FAQs) or contact info@mvcinfo.org with specific questions.

**REGISTRATION TIERS & CONFIRMATIONS**
- Attendees who register during Tier I and Tier II will receive confirmation packets in the mail.
- Once Tier II registration ends, mail and fax registrations will not be processed.
- However, you may register online at Tier III pricing until Feb. 17. OVMA will not mail confirmation packets for anyone registering during Tier III; attendees may pick up their materials on site.
- All registrants who register online or provide a unique email address will receive an email receipt once their registration is processed.
- Confirmation packets and badges will not be mailed until the week of Feb. 4, 2019. Each attendee will receive his/her own packet, even if registered as part of a group.

- If you register by the Tier II cut-off date of Feb. 8 but do not receive your packet, visit the attendee assistance counter upon arrival.

**MUST-KNOW DETAILS:**

### REGISTERING FOR SESSIONS & LABS

**Do I have to select my sessions when I register?**
Attendees are **strongly encouraged** to list each session they plan to attend, for the following reasons:
- Knowing how many people plan to attend each session allows OVMA to assign rooms and determine the appropriate amount of seating to accommodate everyone.
- It also ensures you have a record of sessions should you be audited by the licensing board in the future.
- Your selections will automatically transfer over to the MVC mobile app once you download it and log in, so you will have easy access to your schedule.

**Can I modify my schedule after registration if I change my mind?**
Yes. Refer to your confirmation email or [www.mvcinfo.org/FAQs](http://www.mvcinfo.org/FAQs) for instructions.

**Do I need to pre-register for labs?**
Yes, hands-on labs require advance registration. Please check the MVC website at [www.mvcinfo.org/education](http://www.mvcinfo.org/education) prior to registering to make sure the programs you wish to attend still have space; if capacities are met, a notice will be posted.
# ATTENDEE INFORMATION

Please clearly print your name exactly as it should appear on your badge.

**Full Name** _______________________________  
**Nickname (if any)** __________________________

**Area of Practice**
- [ ] Academic  
- [ ] Corp/Assn  
- [ ] Equine  
- [ ] Exotic  
- [ ] Food  
- [ ] Govt/Military  
- [ ] Mixed/General  
- [ ] Pet  
- [ ] Research/Lab  
- [ ] Shelter

OVMA uses this information internally to ensure you receive educational alerts specific to your area of practice. You can unsubscribe from this email list at any time.

**Preferred Address**

This address will be encoded into your attendee badge and is where we will send your confirmation packet.

**City** ________________________________  
**State** __________  
**ZIP** __________

**Email** ________________________________  
**Phone** ________________________________

*Required for email confirmation once registration is processed. Must be a unique address not shared with anyone else registering for the MVC.

How would you like to receive future MVC Programs?

**Registration Program:**  
- [ ] Email and/or  
- [ ] Hard copy  

**On-Site Program:**  
- [ ] Mobile app and/or  
- [ ] Hard copy

Opt in to attendee networking feature of mobile app?  
You can modify at any time. Learn more online at www.mvcinfo.org/app.

**Emergency Contact Name & Number (optional)**

ADA Special Accommodations (if any)

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# OVMA MEMBERSHIP: JOIN OR RENEW!

- [ ] Active Member: $180 (practicing in Ohio)
- [ ] Affiliate Member: $60 (out of state)
- [ ] New Graduate Member: $120 (graduated in 2017 or 2018)
- [ ] Post-Graduate Resident/Intern: $60
- [ ] Life Member: No Charge* (Board Approved)

*Life Members must: (1) have been an OVMA active Member in good standing for 30 years, which need not be consecutive; AND (2) either have retired from the practice of veterinary medicine or reached age 70.

NEW members, please provide:  
**Vet School Attended** ________________________________  
**Graduation Year** __________

Payments and dues paid to the OVMA are not deductible for federal tax purposes as charitable contributions. They may be deductible as an ordinary and necessary business expense, except the portion related to representation on legislative issues, estimated to be 20%.

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# REGISTRATION CATEGORY

<table>
<thead>
<tr>
<th>OVMA MEMBERS</th>
<th>Tier I (Through 1/8/19)</th>
<th>Tier II (1/9 – 2/8/19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Veterinarian</td>
<td>$285</td>
<td>$330</td>
</tr>
<tr>
<td>Post-Grad Resident/Intern</td>
<td>$90</td>
<td>$100</td>
</tr>
<tr>
<td>Life Member</td>
<td>$155</td>
<td>$175</td>
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</table>

<table>
<thead>
<tr>
<th>NON-MEMBER IN OHIO</th>
<th>Tier I (Through 1/8/19)</th>
<th>Tier II (1/9 – 2/8/19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular Veterinarian</td>
<td>$465</td>
<td>$510</td>
</tr>
<tr>
<td>Post-Grad Resident/Intern</td>
<td>$140</td>
<td>$150</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OUT-OF-STATE VETERINARIAN</th>
<th>Tier I (Through 1/8/19)</th>
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<tbody>
<tr>
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<tr>
<td>Post-Grad Resident/Intern</td>
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<tbody>
<tr>
<td>Regular Veterinarian</td>
<td>$170</td>
<td>$200</td>
</tr>
<tr>
<td>Post-Grad Resident/Intern</td>
<td>$90</td>
<td>$100</td>
</tr>
<tr>
<td>Life Member</td>
<td>$105</td>
<td>$115</td>
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<tr>
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<tr>
<td>Post-Grad Resident/Intern</td>
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</thead>
<tbody>
<tr>
<td>Regular Veterinarian</td>
<td>$170</td>
<td>$200</td>
</tr>
<tr>
<td>Post-Grad Resident/Intern</td>
<td>$90</td>
<td>$100</td>
</tr>
</tbody>
</table>

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# SPOUSE OR PARTNER

Only individuals who do not work in the veterinary or animal care field may attend as guests. No CE verification is provided.

**Full Name (as it should appear on badge)** ________________________________

**Full MVC: $150 (Tier I) - $140 (Tier II)**

**One Day: $95 (Tier I) - $105 (Tier II)**

**Exhibit Hall Only: $20/day**

**Thur 2/21**  
**Fri 2/22**  
**Sat 2/23**

---

**Page 1 total: $________**
Attendee Name (Please fill out if faxing) ____________________________________________

SESSIONS & HANDS-ON LABS

Please write the session numbers and select any hands-on labs you wish to attend. Lab capacities are limited; therefore, pre-registration is required and awarded on a first-come, first-served basis. See page 76 for additional details on selecting your sessions.

Thurs 2/21

☐ B. Equine Lameness: $400
  1:30–4:30 p.m.

Fri 2/22

☐ C. Dental Extraction Made Easier: $325
  8 a.m. – 1 p.m.

☐ D1. Aggression in Dogs (Dog-Human): $100
  8 a.m. – 5 p.m.

☐ D2. Aggression in Dogs (Dog-Dog): $100
  8 a.m. – 5 p.m.

☐ E. DPFL Shelter Visit: $125
  12:45 – 5 p.m.

Sat 2/23

☐ F. Canine Stifle Stabilization: $425
  8 a.m. – 12 p.m.

☐ D. Aggression in Dogs (Dog-Dog): $100
  8 a.m. – 5 p.m.

Sun 2/24 ____________________________________________

CHARITABLE contributions

As part of the 5 for 5 for the Future program, OVMA earmarks $5 from every veterinarian and technician registration for student scholarships. Since the program’s inception in 2012, $131,391 has been awarded to veterinary and technician students.

☐ YES! I would like to donate an additional $_________ to the 5 for 5 for the Future program.

PAYMENT information

Payment Type: □ Visa □ MasterCard □ Discover □ American Express □ Check #________ made payable to OVMA

Cardholder Name ___________________________ Exp. Date ____________

Card Number ___________________________ CVV ____________

Billing Address: If different from address provided on previous page, please provide billing address as it appears on your statement.

Address ____________________________________________

City ___________________________ State ___________ ZIP ___________

Total from Side 1: $ _____________ Total from Side 2: $ _____________ Grand Total Due: $ _____________

Cardholder Signature ____________________________

By submitting this form and registering for the MVC, you acknowledge that you have read and agree to the following terms:

Cancellation Policy. If personal or professional circumstances prevent a registrant from attending the Conference, the OVMA will refund your Conference registration fees, less a $20 administrative fee plus 10% of fees paid, provided a written request is received before 6 p.m. EST on March 7, 2019. Conference refunds will not be granted after this date. Refunds will be granted for specialty programs and functions (including wet labs) in accordance with the above cancellation fee, providing the participant’s space can be filled by another attendee and/or no charges are assessed the OVMA as a result of the cancellation.

Consent to be Photographed. Registration for the Midwest Veterinary Conference and attendance at any events, educational sessions and/or wet labs held in conjunction with the MVC constitutes an agreement by the registrant to OVMA’s use and distribution of his/her image or voice in photographs, videotapes, electronic reproductions and audiotapes of such events and activities.

Privacy Disclosure. The OVMA will not release your contact information to non-exhibiting companies. Please be aware that the contact information you provide will be encoded into your attendee badge and may be obtained by Exhibitors.

Hands-On Lab Policy. By registering for a Hands-On Lab, Registrant acknowledges and agrees that some labs involve working with live animals, cadavers, specimens, equipment and other unique learning materials which may expose the registrant to the risk of injury or disease in the same manner as a veterinary professional would be exposed to these risks in carrying out the same or similar procedures in a clinical setting. The registrant, by registering for these Hands-On Labs and completing this registration form, agrees to assume this risk and hereby waives and releases the OVMA and any faculty or other participants from any and all damage or injury arising out of or related to registrant’s participation in the Hands-On Labs.
2019 MVC REGISTRATION: technicians, staff, managers, & students

CONTACT information

Please type/print your preferred address below. For group registration, all confirmation packets will be sent to this address, and each attendee will receive his/her own.

Company/Clinic ____________________________________________________________

Mailing Address ____________________________________________________________

City __________________________ State __________________________ ZIP __________

Phone __________________________ Fax _______________________

☐ *Shelter Animal Medicine & Care Scholarship Applicants: Please check here if you are applying for a scholarship. If checked, your registration will NOT be processed until after awards are made. For more information and an application, see page 82 or visit www.mvcinfo.org/shelter.

HOSPITAL STAFF passes

- A Hospital Staff Pass may be used by and transferred among non-veterinarian / non-technician staff members.
- Each Pass can be used for 24 hours worth of sessions.
- CE verification is **not** included.

Quantity of Passes you wish to purchase: ___________ x $300 (through 1/8/19) · $320 (1/9 - 2/8/19) = TOTAL: $___________

*If you are purchasing a Hospital Pass ONLY (i.e., not registering any individuals), please provide an administrator (practice manager, owner, staff member, etc.) name and email below. This person will receive the email confirmation and other event emails.*

Name __________________________________________ Email __________________________________

ATTENDEE #1

Name __________________________________________ Nickname (if any) __________________________

Individual Type ☐ Technician ☐ Practice Manager ☐ Hospital Staff ☐ Shelter Staff ☐ Student ☐ Other __________________________

Email* __________________________________ ADA Accommodations (if any) __________________________

*Required for email confirmation once registration is processed. Must be a unique address not shared with anyone else registering for the MVC.

Emergency Contact Name & Number (optional) __________________________ __________________________

How would you like to receive MVC programs? ☐ Email and/or ☐ Hard copy ☐ Digital and/or ☐ Hard copy

REGISTRATION type

☐ FULL MVC: $170 (thru 1/8/19) · $190 (1/9-2/8/19) ☐ PRE-VET STUDENT: $20

☐ ONE DAY: $115 (thru 1/8/19) · $135 (1/9-2/8/19) ☐ LAB A1/A2 ONLY: $75

☐ TECH STUDENT: ☐ SCNAVTA Mem: $0 ☐ Non-Mem: $20

☐ VET STUDENT: ☐ OVMA Member: $0 ☐ Non-Mem: $20

☐ Latex allergy

SPOUSE or PARTNER

*Only individuals who do not work in the veterinary or animal care field may attend as guests. No CE verification is provided.*

☐ FULL MVC: $120 (thru 1/8/19) · $130 (1/9 – 2/8/19) ☐ EXHIBIT HALL ONLY: $20/day

☐ ONE DAY: $85 (thru 1/8/19) · $95 (1/9 – 2/8/19) ☐ Thu 2/21 ☐ Fri 2/22 ☐ Sat 2/23 ☐ Sun 2/24

Full Name (as it should appear on badge) ________________________________________________

SESSIONS & HANDS-ON LABS (See page 76 for details on selecting sessions.)

<table>
<thead>
<tr>
<th>Thirs 2/21</th>
<th>Fri 2/22</th>
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<tr>
<td>Sat 2/23</td>
<td>Sun 2/24</td>
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Page 1 total: $_________
Company Name (Please fill out if faxing) ________________________

ATTENDEE #2

Name ____________________________________________________________

Individual Type  □ Technician  □ Practice Manager  □ Hospital Staff  □ Shelter Staff  □ Student  □ Other________________________

Email* __________________________________________________________

Emergency Contact Name & Number (optional) __________________________

How would you like to receive MVC programs?  Registration Program  On-Site Program  Opt in to attendee networking feature of mobile app?  □ Yes  □ No

□ FULL MVC: $170 (thru 1/8/19) · $190 (1/9-2/8/19)  □ PRE-VET STUDENT: $20  □ LAB A1/A2 ONLY: $75
□ TECH STUDENT: □ SCNAVTA Mem: $0  □ Non-Mem: $20  □ VET STUDENT: □ OVMA Member: $0  □ Non-Mem: $20

SPOUSE or PARTNER

Only individuals who do not work in the veterinary or animal care field may attend as guests. No CE verification is provided.

□ FULL MVC: $120 (thru 1/8/19) · $150 (1/9-2/8/19)  □ ONE DAY: $85 (thru 1/8/19) · $95 (1/9-2/8/19)  □ EXHIBIT HALL ONLY: $20/day
□ Thu 2/21  □ Fri 2/22  □ Sat 2/23

Full Name (as it should appear on badge) ____________________________

SESSIONS & HANDS-ON LABS (See page 76 for details on selecting sessions.)

Thurs 2/21 ____________________________________________________
Sat 2/23 ____________________________________________________

□ Thu 2/21  □ Fri 2/22  □ Sat 2/23

ATTENDEE #3

Name ____________________________________________________________

Individual Type  □ Technician  □ Practice Manager  □ Hospital Staff  □ Shelter Staff  □ Student  □ Other________________________

Email* __________________________________________________________

Emergency Contact Name & Number (optional) __________________________

How would you like to receive MVC programs?  Registration Program  On-Site Program  Opt in to attendee networking feature of mobile app?  □ Yes  □ No

□ FULL MVC: $170 (thru 1/8/19) · $190 (1/9-2/8/19)  □ PRE-VET STUDENT: $20  □ LAB A1/A2 ONLY: $75
□ TECH STUDENT: □ SCNAVTA Mem: $0  □ Non-Mem: $20  □ VET STUDENT: □ OVMA Member: $0  □ Non-Mem: $20

SPOUSE or PARTNER

Only individuals who do not work in the veterinary or animal care field may attend as guests. No CE verification is provided.

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Full Name (as it should appear on badge) ____________________________

SESSIONS & HANDS-ON LABS (See page 76 for details on selecting sessions.)

Thurs 2/21 ____________________________________________________
Sat 2/23 ____________________________________________________

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**Emergency Contact Name & Number (optional)**

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<th>On-Site Program</th>
<th>Opt in to attendee networking feature of mobile app?</th>
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**REGISTRATION type**

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<th>☐ PRE-VET STUDENT: $20</th>
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<tbody>
<tr>
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<td>☐ VET STUDENT: ☐ OVMA Member: $0 ☐ Non-Mem: $20</td>
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**PAYMENT information**

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<tr>
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<tr>
<th>Cardholder Signature</th>
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**By submitting this form and registering for the MVC, you acknowledge that you have read and agree to the following terms:**

- **Cancellation Policy.** If personal or professional circumstances prevent a registrant from attending the Conference, the OVMA will refund your Conference registration fees, less a $20 administrative fee plus 10% of fees paid, provided a written request is received before 6 p.m. EST on March 7, 2019. Conference refunds will not be granted after this date. Refunds will be granted for specialty programs, functions (including wet labs), and/or no charges are assessed the OVMA as a result of the cancellation.

- **Consent to be Photographed.** Registration for the Midwest Veterinary Conference and attendance at any events, educational sessions and/or wet labs held in conjunction with the MVC constitutes an agreement by the registrant to OVMA’s use and distribution of his/her image or voice in photographs, videotapes, electronic reproductions and audiotapes of such events and activities.

- **Privacy Disclosure.** The OVMA will not release your contact information to non-exhibiting companies. Please be aware that the contact information you provide will be encoded into your attendee badge and may be obtained by Exhibitors.

- **Hands-On Lab Policy.** By registering for a Hands-On Lab, Registrant acknowledges and agrees that some labs involve working with live animals, cadavers, specimens, equipment and other unique learning materials which may expose the registrant to a risk of injury or disease in the same manner as a veterinary professional would be exposed to these risks in carrying out the same or similar procedures in a clinical setting. The registrant, by registering for these Hands-On Labs and completing this registration form, agrees to assume this risk and hereby waives and releases the OVMA and any faculty or other participants from any and all damage or injury arising out of or related to registrant’s participation in the Hands-On Labs.

Submit completed form and payment by one of the following methods:

- **Mail:** OVMA, 1472 Manning Pkwy, Powell OH 43065 • **Fax:** 614.436.1301 • **Or register online:** www.mvcinfo.org

Deadline to register by mail or fax is Feb. 8, 2019. After this date, please register online through Feb. 17 (see page 6) or on site.
SHELTER scholarships

Most shelters work hard to stretch limited funds to care for as many animals as possible—and little is left over for anything else, including staff education. Through support from the Ohio Animal Health Foundation, MVC is able to offer a limited number of scholarships to help offset these costs so shelter workers can gain valuable training.

ELIGIBILITY
Any veterinary professional who works in an animal shelter can apply for a scholarship, including:
- Veterinarians
- Technicians
- Staff and volunteers
- Dog wardens
- Humane society personnel

Please note, students are not eligible to apply, as they are able to attend the MVC at a highly discounted rate.

STIPULATIONS
- A shelter may apply for and be awarded a maximum of two awards.
- Awards are $300 each.
- You may use your award(s) in either of the following ways:
  - Apply each scholarship you are awarded to one individual’s registration and use the remainder for travel expenses; or
  - Divvy up the funds toward multiple registrations (guests and students excluded).
- Any leftover funds may be used to cover other MVC-related expenses. Stipend checks, which are issued to the organization (not the individual attendee), can be picked up on site at the attendee assistance counter.
- Be advised that you are responsible for covering any expenses beyond the award amount.

AWARD DETERMINATION
Scholarships will be awarded based on financial need, statement, and prior receipt of this award.

DEADLINE
The application deadline is Dec. 28, 2018.

APPLICATION INSTRUCTIONS
- Apply online at www.mvcinfo.org/shelter.
- You will be required to supply an administrator email address; please use an address you check often.
  - Be advised, you will also be asked to provide your organization’s annual budget.
- Please DO NOT register online until after scholarships are awarded (with one exception, below). If you do not receive a scholarship, you will be able to take advantage of Tier I prices, even if the deadline has passed.
- If you wish to attend a hands-on lab, we encourage you to register as soon as you know you want to attend, as these programs have limited capacity and are available on a first-come, first-serve basis. Be advised, however, that payment is due up front to reserve your place.

NOTIFICATION OF AWARD
Winners will be notified via email the week of Jan. 7, 2019. If you are awarded a scholarship, you are required to respond and accept the award within two weeks of notification, or you will forfeit the funds to another applicant.

Special thanks to Silver Sponsor Ohio Animal Health Foundation for supporting the MVC shelter animal program.

QUESTIONS & APPLICATION: www.mvcinfo.org/shelter
VOLUNTEER opportunities

Want to take your MVC experience to the next level? Volunteer to be a Session Moderator! Not only will you help execute one of the largest veterinary conventions on the continent, but you’ll also be able to meet your favorite speakers!

WHAT IS A SESSION MODERATOR?
A Session Moderator is essentially a speaker’s assistant who ensures his or her sessions run smoothly.

WHAT DOES A MODERATOR DO?
Duties include:
- Introducing the speaker using a prepared script
- Troubleshooting any issues that arise, such as room problems or audio/visual difficulties
- Monitoring how much time remains in the session to keep the speaker on schedule

WHY SHOULD I VOLUNTEER?
Other than being instrumental in a successful conference, benefits include:
- Complimentary lunch and parking on the day(s) you volunteer
- The opportunity to network with experts in your field (you may even be able to eat lunch with your speaker!)
- The chance to win a raffle for a Columbus sports package, compliments of Experience Columbus

Online volunteer sign-up begins Dec. 1; check your registration confirmation email for an access code. Only one moderator is needed per session, so be sure to sign up early to have the best chance of choosing the sessions you want!

LEARN MORE & SIGN UP: www.mvcinfo.org/volunteer

GO BEYOND YOUR DVM

Explore our accelerated AVMA\textsuperscript{1} accredited Doctor of Veterinary Medicine program or one of our graduate programs.

- **DOCTOR OF VETERINARY MEDICINE**
- **MASTER OF SCIENCE BY COURSEWORK IN ONE HEALTH**
- **MASTER OF SCIENCE BY RESEARCH**
- **PHD BY RESEARCH**

Ross Vet is committed to research, because we know it’s through discovery that we shape the world of tomorrow. Using a One Health trans-disciplinary approach, Ross Vet celebrates our unique location in the Caribbean, structure, and diversity to foster intellectual curiosity, and deliver scholarly research that is reputable, relevant, and rewarded.

Stop by booth #231 to learn more! veterinary.rossu.edu

\textsuperscript{1} Ross University School of Veterinary Medicine’s DVM degree program is accredited by the American Veterinary Medical Association Council on Education (AVMA COE).

1931 N. Meacham Road, Suite 100, Schaumburg, IL 60173 | Tel: 800.248.2862 | Email: MMaresh@avma.org

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