EARN CE IN THE SUN!

ABVP SYMPOSIUM TAMPAG

OCTOBER 11 - 14, 2018 • TAMPA, FL
Tampa Marriott Waterside Hotel & Marina • 700 South Florida Avenue

PROGRAM GUIDE
ABVP.COM
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ON-SITE SYMPOSIUM CONTACTS

Need ABVP Assistance?
+1.352.375.5672 or ABVP@NAVC.COM

Tampa Marriott Waterside Hotel & Marina
+1.813.221.4900

If you need assistance with wheelchair accessible transportation, please visit the ABVP Registration Desk located outside Grand Ballroom Salons C-D of the Tampa Marriott Waterside Hotel & Marina. All meeting rooms are wheelchair accessible in compliance with the Americans with Disabilities Act.
Welcome to our 23rd Annual Symposium and know that we are glad you are here. This conference brings together the brightest and best from our 11 different species groups. It is our hope to provide the best experience in multiple species continuing education possible. The ABVP Symposium is unique in its intimate feel, high caliber continuing education and networking opportunities. This is a place of learning and collaboration and a time to spend with friends and colleagues and a time to welcome those attending for the first time. It is also a collection of some of the finest veterinarians in the world.

As ABVP veterinarians, we do important work. We are committed to excellence for the well-being of animals and their people and promote the highest level of care in the total patient. The symposium is one of the ways we accomplish those goals.

Enjoy the lectures, wet labs, workshops, networking lunches, receptions and the awards dinner on Saturday. Thank you for attending.

Timothy R. Kraabel, DVM, DABVP (Canine and Feline Practice)
President, ABVP

Thank you so much for joining us for the 23nd Annual ABVP Symposium! Whether this is your first ABVP Symposium or you regularly attend year after year, we hope that this year’s program and the schedule of events will exceed your expectations. We have some exceptional things planned this year: small animal wet labs covering AFAST/TFAST ultrasound and loco-regional nerve blocks; an avian critical care procedures wet lab; and, of course, cutting-edge information and education in each of the species tracks. In addition, you will not want to miss the Cross Species Keynote lecture series with Dr. Juan Lubroth. Dr. Lubroth is the Chief of Veterinary Services for the Food and Agriculture Organization (FAO), and he will be speaking about One Health and Global Veterinary Medicine. We are thrilled to have him at the ABVP Symposium this year!

The ABVP Symposium is a fantastic educational experience, and we encourage you to get the most out of the weekend. The Regents Reception on Friday evening is a wonderful kick-off to the weekend, and the networking luncheons are a great opportunity to connect with colleagues. Make sure to stop by the ABVP Foundation Silent Auction tables and tour the exhibit hall to visit with our supportive sponsors and exhibitors. Finally, you do not want to miss our Annual Awards Dinner on Saturday evening at The Florida Aquarium. This very special evening gives us the opportunity and privilege to honor our newest members and our recertifying Diplomates. We strive each year to provide an exceptional educational weekend for our attendees, and we welcome your comments and suggestions. Please feel free to reach out to our management staff throughout the weekend if you need anything – we are so happy you joined us in Tampa this year!

Amy Garrou, DVM, DABVP (Canine and Feline Practice)
Continuing Education Chair, ABVP
General Information

REGISTRATION DESK HOURS
Wednesday, October 10 2:00 - 5:00 PM
Thursday, October 11 9:00 AM - 5:00 PM
Friday, October 12 6:30 AM - 5:00 PM
Saturday, October 13 7:30 AM - 5:00 PM
Sunday, October 14 7:30 AM - 12:00 PM

EXHIBIT HALL BREAKS

**Friday, October 12**
9:50 - 10:20 AM
1:00 - 1:30 PM
3:20 - 4:00 PM
5:00 - 6:00 PM

**Saturday, October 13**
9:50 - 10:20 AM
1:00 - 1:30 PM
3:20 - 4:00 PM

NAME BADGES
Name badges are required for participation in all sessions, luncheons, and the exhibit hall. Replacement badges may be requested at the registration desk.

LOCATION OF LECTURES
Please note all lectures, labs, luncheons and social sessions are at the Tampa Marriott Waterside Hotel & Marina unless otherwise noted. Specific room assignments are noted throughout the schedule grid.

PROCEEDING NOTES
The Veterinary Information Network (VIN) has proceedings available at their cyber cafe. If you purchased a paper copy of the proceedings, please pick it up at the registration desk. Limited copies are available for sale on-site.

CANCELLATIONS
Cancellations and refunds are no longer permitted. If you would like to sell your Annual Awards Reception and Dinner ticket, you can do so by posting a notice on the ABVP bulletin board by the registration desk.

CONTINUING EDUCATION CERTIFICATES
CE certificates will be available at the registration desk beginning at 7:30 AM on Sunday, October 14. Please pick up your CE certificate prior to leaving the Symposium.

CONTINUING EDUCATION CREDITS
This program 755-34153 is approved by the AAVSB RACE to offer a total of 141.00 CE credits (23.00 max) being available to any one veterinarian; and/or 152.00 Veterinary Technician CE credits (23.00 max). This RACE approval is for the subject matter categories of:

**Category One:** Scientific using the delivery method of Seminar/Lecture, Lab/Wet Lab.

This approval is valid in jurisdictions which recognize AAVSB RACE; however, participants are responsible for ascertaining each board’s CE requirements. RACE does not “accredit” or “endorse” or “certify” any program or person, nor does RACE approval validate the content of the program.

ABVP is also an approved provider of continuing education in the State of New York for veterinarians and veterinary technicians/nurses.

ALLERGIES AND DIETARY REQUIREMENTS
We have made every effort possible to meet all allergy and dietary requirements. Please be advised that it is your responsibility to indicate your allergy or dietary requirement to your server. If you cannot find a member of the hotel wait staff, please see an ABVP staff member for assistance.
FEATUERED EVENTS

Events are listed in the order they will occur.

CROSS SPECIES LECTURE SERIES
Thursday, October 11, 1:00 – 4:50 PM • Grand Ballroom Salon E

ONE HEALTH IN THE UNITED NATIONS - GLOBAL AND LOCAL VETERINARY MEDICINE
Juan Lubroth, DVM, Ph.D., ACVPM

“One Health” is a philosophy - from global to local (“glocal”). It requires all of us to do our part, as individuals only have a part of the solution. One Health refers to designing and implementing programs, policies and research across disciplines and sectors to achieve better public and environmental health.

FEATURED EVENTS

CROSS SPECIES LECTURE SERIES

ONE HEALTH IN THE UNITED NATIONS - GLOBAL AND LOCAL VETERINARY MEDICINE
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CRITICAL CARE TECHNIQUES FOR AVIAN WILDLIFE
Thursday, October 11, 1:00 - 5:00 PM • Grand Ballroom Salons I-J
Heather Barron
Fee is $300. Limited attendance. Lab will be held onsite.
This lab will have a one-hour lecture and three-hour practical component to allow practitioners who are presented with critical avian wildlife patients to know how to offer emergent care, including IV and IO catheterization, endotracheal and air sac intubation, gavage feeding, handling and external coaptation. Avian cadavers provided.

CANINE AND FELINE NERVE BLOCK LAB
Thursday, October 11, 1:00 - 5:00 PM • Grand Ballroom Salons G-H
Mark Epstein & Tammy Grubb
Fee is $300. Limited attendance. Lab will be held onsite.
Locoregional anesthesia is now considered a critical component of peri-operative pain management protocols (should be used with every surgical procedure, 2015 AAHA/AAFP Guidelines). This session will introduce local anesthetics with an emphasis on practical applications in any practice setting. The wetlab will allow participants to perform a number of different techniques that will be discussed in didactic portions of the presentation.

DR. LUBROTH

Juan Lubroth, DVM, Ph.D., ACVPM is Chief Veterinary Officer, FAO/United Nations since 2009, and previously held the position as Head of Infectious Diseases. Prior to the United Nations, Dr. Lubroth was at the USDA’s Plum Island, Brazil and Mexico centers. Dr. Lubroth holds a DVM and MS from the University of Georgia, and PhD from Yale University.
MEET & GREET WITH DR. JUAN LUBROTH  
*Thursday, October 11, 5:00 - 6:00 PM • Florida Ballroom IV*  
A light reception will be held in honor of Dr. Lubroth and allow all attendees the ability to meet and ask questions in person.

CHANGING THE CONVERSATION:  
**TAKING NUTRITION TO THE NEXT LEVEL**  
*Thursday, October 11, 6:00 - 9:00 PM • Meeting Rooms 9-10*  
**Craig Datz, Jackie Parr & Allison Wara**  
Fee is $25. Limited attendance. Lab will be held onsite.  
1. Digestibility – What role does digestibility play in overall health? Why is protein digestibility important and how is it measured? This workshop will increase your understanding of this property as it relates to canine and feline nutrition.  
2. Nutrients and Ingredients – This workshop focuses on the importance of considering nutrients over ingredients when evaluating pet foods, using common examples such as byproducts and corn.  
3. Nutritional Assessment – In this workshop, participants practice performing a nutritional assessment using a case-based approach.  
4. Quality and Food Safety – This workshop explores the importance of quality and food safety of commercial pet foods and reviews various methods of establishing them.

COMMITTEE MEETINGS  
*Thursday, October 11, 7:00 - 8:30 PM*  
ABVP Outreach Committee • Meeting Room 8  
ABVP Symposium Committee • Meeting Room 12  
ABVP Foundation Board • Meeting Room 11

SUNRISE SESSION  
**HOW STARTUPS ARE THINKING ABOUT THE VETERINARY SPACE**  
*Friday, October 12, 7:00 – 7:50 AM • Grand Ballroom Salon E*  
The veterinary space has seen an explosion of new technologies and new companies emerging over the past two years, and that pace of change is not slowing down. New companies are looking at innovative ways of helping veterinary professionals adapt to and take advantage of that pace of change. Join us Friday morning for the Sunrise Session as we explore this evolving landscape and help practitioners develop new tactics for upgrading their practices.

AAFP/ABVP SEMINAR  
*Friday, October 12, 8:00 AM – 12:00 PM • Grand Ballroom Salons C-D*  
Étienne Côté  
**ANESTHESIA OF THE FELINE CARDIOLOGY PATIENT**  
Many important clinical questions arise around anesthesia of feline cardiovascular patients. Does the presence of a murmur justify certain precautions or treatments? Does the appearance or disappearance of a murmur under anesthesia correlate to prognosis? These and other questions will be addressed in this seminar.  
**FLUID THERAPY IN FELINE CARDIAC PATIENTS**  
Iatrogenic congestive heart failure can occur if a cat with heart disease receives an excessive parenteral fluid volume. Conversely, any cat can suffer harm if it does not receive the volume of parenteral fluid that it requires. Describing ways of managing this quandary is the basis for this seminar.
UNCOMMON FELINE CARDIOMYOPATHIES
Hypertrophic cardiomyopathy is the most common heart disease of cats, but what about the other cardiomyopathies? This seminar will review their clinical features, diagnostic characteristics, treatment and prognosis.

CARDIAC ARRHYTHMIAS: FELINE SPECIFIC FINDINGS
Beyond basic electrocardiography, there are essential aspects of heart rhythm disturbances that are very different in cats compared to dogs or humans. This seminar will highlight these, with an emphasis on clinically useful approaches.

REGENTS’ WELCOME RECEPTION
*Friday, October 12, 5:00 – 6:00 PM • Exhibit Hall*
All attendees are welcome to attend this reception hosted by ABVP’s Regents.

ABVP MAINTENANCE OF CERTIFICATION WORKSHOP
*Friday, October 12, 6:00 - 8:00 PM • Meeting Room 8*
**Renee Rucinsky**
Do you have questions about ABVP’s maintenance of certification process? Attend this workshop to ask questions and learn suggestions for completing the process.

ABVP CERTIFICATION WORKSHOP
*Friday, October 12, 6:00 - 8:00 PM • Grand Ballroom Salon B*
**Stephen Pitterger & Kimberlee Buck**
Have you applied for ABVP certification or are you considering applying and have questions about your case report and credentials packet? Are you unsure if you’ve picked the right case to write about? Are you concerned your CE might not be acceptable? Do you need help with the online platform? This session is designed to help answer all those questions and more. Anyone interested in the certification process is encouraged to attend.

AVTCP BOARD MEETING
*Friday, October 12, 6:00 - 8:00 PM • Meeting Room 11*

ABVP ITEM WRITING WORKSHOP
*Friday, October 12, 8:00 - 9:30 PM • Meeting Room 8*
**Michael Dutton**
ABVP Diplomates interested in writing exam items to earn credits toward maintenance of certification must receive training in item writing. This workshop focuses on item style, cognitive levels, situational sets and other item writing basics.

ABVP DIPLOMATE MEETING
*Saturday, October 13, 5:00 - 6:00 PM • Grand Ballroom Salons C-D*
All ABVP Diplomates in attendance are encouraged to attend this annual business meeting. Council of Regents members will be present to address questions, listen to suggestions and offer updates on the status of the organization.
AVTCP Q&A SESSION
Saturday, October 13, 5:00 - 6:00 PM • Meeting Room 11
All technicians are invited to participate in this workshop. Learn about AVTCP certification and the application process.

ANNUAL AWARDS RECEPTION AND DINNER
Saturday, October 13, 7:00 - 10:00 PM
Reservations are required in advance. No tickets will be sold on-site.
The Florida Aquarium is the site of this annual event recognizing newly certified Diplomates and those who have maintained their certification. The reception will be from 7:00 - 8:00 PM in the Coral Reef Panoramic Window room and dinner will take place in the Mosaic Center at the aquarium. The aquarium is within walking distance of the hotel. The address is 701 Channelside Drive. Transportation will also be available to those who prefer to not walk and will leave from the hotel lobby beginning at 6:50 PM.

AFAST, TFAST AND VET BLUE CANINE LAB
Sunday, October 14, 8:00 AM - 12:00 PM
Fee is $375. Limited attendance. Lab will be held offsite.
Hands-on scanning of live dogs performing all three abbreviated ultrasound techniques of AFAST, TFAST and Vet BLUE. You must attend the entire FAST Ultrasound series on Friday, October 12th to be admitted to the lab. Meet in the hotel lobby for departure to the lab at 7:30 AM prompt.
THE SDEP™ STANDARDIZED CLINICAL SONOGRAPHY PROTOCOL
For Small Animal Abdominal Imaging and Echocardiography
BY: ERIC LINDQUIST, DMV, DAVBP, CERT. IVUSS

WHAT IS SDEP™?
SONOGRAPHIC DIAGNOSTIC EFFICIENCY PROTOCOL

SDEP™ is an innovative standardization of the sonographic process designed to maximize the image sets of traditional and alternative approaches and facilitate in-house or telemed evaluation. This protocol is repeatable by any type of sonographer with a rapid learning curve of standard and high-end views as its hallmark.

SDEP™ 17PT ABDOMEN PROGRESSION

The SDEP™ Abdomen progression was developed to image every type of abdominal pathology including the most challenging views. The protocol employs a numbering system which references key points in the abdomen in order to identify certain structures such as the pylorus, portal hilus, pelvic urethra, adrenal glands, etc. This system is a universal tool for direct and remote instruction. Specific positions can be referred to in order to direct optimization of the view for particular pathology.

2019 SDEP™ LABS

SDEP™ ABDOMEN
Feb 15-17, 2019

SDEP™ MINI ECHO
March 16-17, 2019

SDEP™ ABDOMEN
May 17-19, 2019

SDEP™ ABDOMEN
Sep 20-22, 2019

SDEP™ ECHO
Oct 18-20, 2019

ORTH & EVERYTHING
Dec 6-8, 2019

Stop by BOOTH 40 to discuss clinical sonography solutions for your hospital

SDEP™ 7PT ECHO PROGRESSION

The SDEP™ Echo progression also utilizes a numbering system to optimize every region of the heart to evaluate functions, velocities, pressures and chamber sizes. SDEP™ Echo includes three separate left atrial measurements and all standard Doppler velocities. Alternative views image the right atrium and auricle to ensure visualization of heart base masses. This protocol affords the most complete image set for evaluation of the heart from acquired to congenital disease.

HOW TO LEARN THE SDEP™ PROTOCOL?

Sonopath offers 3-day hands-on labs personalized for each attendee to match each person with the right instructor based on their skillset and goals. This approach allows intermediate and advanced attendees to push the pace, while beginners can slow it down to absorb the fundamentals. Verbal “boot camp” exercises and emergency simulations are utilized. All audio recordings of these sessions are provided to lab attendees for practice at home. Post lab, virtual training and support services are available through Sonopath’s educational telemedicine™ services, where attendees can work with Sonopath to remotely perfect their image sets. All 3-day SDEP™ Labs are RACE certified for 22 CE credits.

800.838.4268
www.SonoPath.com
info@SonoPath.com
Meeting Space
Tampa Marriott Waterside Hotel & Marina
700 South Florida Avenue, Tampa, Florida 33602
Program Schedule

WEDNESDAY, OCTOBER 10

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 AM - 12:00 PM</td>
<td>Florida Ballroom</td>
<td>ABVP Exam</td>
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<tr>
<td>2:00 - 6:00 PM</td>
<td>Florida Ballroom</td>
<td>ABVP Exam</td>
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<tr>
<td>6:00 - 7:00 PM</td>
<td>Terrace Pool Deck (Rain Location - Meeting Room 5-6)</td>
<td>Reception for all Examinees</td>
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THURSDAY, OCTOBER 11

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<tr>
<th>Time</th>
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<tr>
<td>8:00 AM - 12:00 PM</td>
<td>Florida Ballroom</td>
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<tr>
<td>1:00 - 1:50 PM</td>
<td>Grand Ballroom Salon E</td>
<td>ABVP Cross Species Lecture Series: One Health in the United Nations - Global and Local Veterinary Medicine Juan Lubroth</td>
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<tr>
<td>2:00 - 2:50 PM</td>
<td>Grand Ballroom Salon E</td>
<td>ABVP Cross Species Lecture Series: One Health in the United Nations - Global and Local Veterinary Medicine Juan Lubroth</td>
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<td>3:00 - 3:50 PM</td>
<td>Grand Ballroom Salon E</td>
<td>ABVP Cross Species Lecture Series: One Health in the United Nations - Global and Local Veterinary Medicine Juan Lubroth</td>
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<tr>
<td>4:00 - 4:50 PM</td>
<td>Grand Ballroom Salon E</td>
<td>ABVP Cross Species Lecture Series: One Health in the United Nations - Global and Local Veterinary Medicine Juan Lubroth</td>
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<tr>
<td>1:00 - 5:00 PM</td>
<td>Grand Ballroom Salons I-J</td>
<td>Critical Care Techniques for Avian Wildlife Heather Barron Limited attendance. Additional fee.</td>
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<tr>
<td>1:00 - 5:00 PM</td>
<td>Grand Ballroom Salons G-H</td>
<td>Canine and Feline Nerve Block Lab Mark Epstein &amp; Tammy Grubb Limited attendance. Additional fee.</td>
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<tr>
<td>5:00 - 6:00 PM</td>
<td>Florida Ballroom IV</td>
<td>Meet &amp; Greet with Juan Lubroth</td>
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<tr>
<td>6:00 - 9:00 PM</td>
<td>Meeting Rooms 9-10</td>
<td>Changing the Conversation: Taking Nutrition Recommendations to the Next Level Limited attendance. Additional fee.</td>
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<tr>
<td>7:00 - 8:30 PM</td>
<td>Meeting Room 8</td>
<td>ABVP Outreach Committee Meeting</td>
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<td>ABVP Foundation Board Meeting</td>
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## Program Schedule

**FRIDAY, OCTOBER 12**

**Sunrise Session 7:00 - 7:50 AM • Grand Ballroom E**

How Startups Are Thinking About the Veterinary Space

<table>
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<tr>
<th>LOCATIONS</th>
<th>EXOTICS COMBINED TRACK</th>
<th>CANINE</th>
<th>FELINE</th>
<th>FAST ULTRASOUND SERIES</th>
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<tr>
<td>MEETING ROOMS 9-10</td>
<td>GRAND BALLROOM SALON E</td>
<td>GRAND BALLROOM SALONS C-D</td>
<td>MEETING ROOM 12</td>
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**SPONSORS**

- E.I. Medical Imaging

<table>
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<tr>
<th>8:00 - 8:50 AM</th>
<th>Emergency Medicine Myths: Fact or Fiction</th>
<th>Anesthesia &amp; Analgesia for Emergency/Critical Care Patients</th>
<th>AAFP/ABVP LECTURE SERIES: Anesthesia of the Feline Cardiology Patient Étienne Côté</th>
<th>Session 1 - Case-Based AFAST Gregory Lisciandro</th>
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<td>Jay N. Gladden</td>
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**EXHIBIT HALL OPEN (9:50 - 10:20 AM)**

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<th>11:20 AM - 12:10 PM</th>
<th>Approach to Fluid Therapy in the Critical Patient</th>
<th>Anesthesia &amp; Analgesia Myth Busters!</th>
<th>AAFP/ABVP LECTURE SERIES: Cardiac Arrhythmias: Feline Specific Findings Étienne Côté</th>
<th>Session 4 - Vet BLUE Gregory Lisciandro</th>
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**Networking Luncheon • 12:10 - 1:00 PM • Grand Ballroom Salons F-J**

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<th>EXHIBIT HALL OPEN (1:00 - 1:30 PM)</th>
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<td>1:30 - 2:20 PM</td>
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**EXHIBIT HALL OPEN (3:20 - 4:00 PM)**

| 4:00 - 4:50 PM | Sepsis & Shock | Management of the Dog with an Incidentally-Detected Heart Murmur | Principles of GI Surgery: Tips to Make it Easier Howard Seim |
|----------------|----------------|-------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------|
| Sharman Hoppes & Jennifer Graham | | Tammy Grubb | | |

**Regents’ Welcome Reception • 5:00 - 6:00 PM**

**Exhibit Hall**

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<tr>
<th>6:00 - 8:00 PM</th>
<th>ABVP Maintenance of Certification Workshop • Meeting Room 8 Renee Rucinsky</th>
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<tr>
<td>6:00 - 8:00 PM</td>
<td>ABVP Certification Workshop • Grand Ballroom Salon B Stephen Pittenger &amp; Kimberlee Buck</td>
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<tr>
<td>6:00 - 8:00 PM</td>
<td>AVTCP Board Meeting • Meeting Room 11 Michael Dutton</td>
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## FRIDAY, OCTOBER 12

**Sunrise Session 7:00 - 7:50 AM • Grand Ballroom E**  
How Startups Are Thinking About the Veterinary Space

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<tr>
<th>EQUINE</th>
<th>FOOD ANIMAL</th>
<th>AVTCP</th>
<th>SHELTER</th>
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<tr>
<td>GRAND BALLROOM SALON B</td>
<td>MEETING ROOM 8</td>
<td>MEETING ROOM 11</td>
<td>GRAND BALLROOM SALON A</td>
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<tr>
<td>Equine Podiatry Principles</td>
<td>Vaccinology: Prime Boost &amp; Antigen Interference</td>
<td>AVTCP Exam</td>
<td>How Do We Know They Hurt? Assessing Acute Pain in Cats</td>
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<td>Ric Redden</td>
<td>Victor Cortese</td>
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<td>Sheilah Robertson</td>
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<td>Obtaining and interpreting the Most Informative Radiographs for the Vet/Farrier Team</td>
<td>Perinatal Programming Workshop</td>
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<td>How Do We Know They Hurt? Assessing Acute Pain in Dogs</td>
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**EXHIBIT HALL OPEN (9:50 - 10:20 AM)**

| Equine Podiatry Principles | Vaccinology: Prime Boost & Antigen Interference | AVTCP Exam | Anesthesia for Pediatric Patients |
| Ric Redden | Victor Cortese |                                     | Sheilah Robertson |
| Reversing the Ill Effects of Imbalance of Internal Forces | Perinatal Programming Workshop | Victor Cortese | Euthanasia: Humane & Human Considerations |
| Ric Redden | New Research on Various Immunology Topics | Victor Cortese | Sheilah Robertson |

**Networking Luncheon • 12:10 - 1:00 PM • Grand Ballroom Salons F-J**

**EXHIBIT HALL OPEN (1:00 - 1:30 PM)**

| Value of Venograms | Applied Immunology for the Practicing Veterinarian, Part 1 | CANINE & FELINE: Feline Nursing Care Pearls | CLINICAL ABSTRACT |
| Ric Redden | Victor Cortese | Paula Plummer | Find speakers and titles on page 34. |
| How to Mechanically Manage Club Feet & the Crushed Heel | Applied Immunology for the Practicing Veterinarian, Part 2 | CANINE & FELINE: Not Your Typical Obstruction - Ureteral Obstruction in the Feline Patient | CLINICAL ABSTRACT |
| Ric Redden | Victor Cortese | Paula Plummer | Find speakers and titles on page 34. |

**EXHIBIT HALL OPEN (3:20 - 4:00 PM)**

| Laminitis Revisited | Respiratory & Mucosal Immunity in Perinatal Programming Workshop | CANINE & FELINE: Systemic Fungal Diseases in the Feline Patient | CLINICAL ABSTRACT |
| Ric Redden | Victor Cortese | Paula Plummer | Find speakers and titles on page 34. |

**Regents’ Welcome Reception • 5:00 - 6:00 PM**

| ABVP Maintenance of Certification Workshop • Meeting Room 8 | ABVP Certification Workshop • Grand Ballroom Salon B | AVTCP Board Meeting • Meeting Room 11 | ABVP Item Writing Workshop • Meeting Room 8 |
| Renee Rucinsky | Stephen Pittenger & Kimberlee Buck | Michael Dutton |
# Program Schedule

**SATURDAY, OCTOBER 13**

<table>
<thead>
<tr>
<th>TIME</th>
<th>AVIAN</th>
<th>EXOTIC COMpanion MAMMAL</th>
<th>REPTILE &amp; AMPHIBIAN</th>
<th>CANINE</th>
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Étienne Côté |
| 9:00 - 9:50 AM | Anesthesia & Analgesia for Critical Birds | Diseases of the Urogenital System of Exotic Companion Mammals Part 2 | Management of Renal Disease in Pet Reptiles | Azotemia & Heart Disease: Managing the Catch-22  
Étienne Côté |
Étienne Côté |
| 11:20 AM - 12:10 PM | Avian Geriatric Medicine Part 2 | Respiratory Emergencies in Exotic Companion Mammals Part 2 | Cardiorespiratory Emergencies in Reptiles | Anesthesia of the Canine Cardiology Patient  
Étienne Côté |
| 1:30 - 2:20 PM | Management of Avian Reproductive Emergencies | GI Emergencies in Exotic Companion Mammals Part 1 | Gastrointestinal Emergencies in Reptiles | Overview of Canine Cardiology Drugs  
Étienne Côté |
| 2:30 - 3:20 PM | Avian Gastrointestinal Diseases Part 1 | GI Emergencies in Exotic Companion Mammals Part 2 | Reproductive Tract Emergencies in Reptiles | Surgical Management of Gastric Dilatation Volvulus - The 15 Minute Gastropexy  
Howard Seim |
| 4:00 - 4:50 PM | Avian Gastrointestinal Diseases Part 2 | Management of Integumentary Lesions in the Exotic Companion Mammals | Neurologic Disorders in Reptile Emergencies | Surgical Repair of Diaphragmatic Hernia  
Howard Seim |
| 5:00 - 6:00 PM | ABVP Diplomate Meeting | Management of Infection in the Exotic Companion Mammals Emergency & Critical Care Patient | Neurologic Disorders in Reptile Emergencies | Surgical Repair of Diaphragmatic Hernia  
Howard Seim |

**Networking Luncheon • 12:10 - 1:00 PM • Grand Ballroom Salons F-J**

**EXHIBIT HALL OPEN (9:50 - 10:20 AM)**

- 10:20 - 11:10 AM: Avian Geriatric Medicine Part 1
  - Sharman Hoppes
- 11:20 AM - 12:10 PM: Avian Geriatric Medicine Part 2
  - Sharman Hoppes

**EXHIBIT HALL CLOSING (3:20 - 4:00 PM)**

- 4:00 - 4:50 PM: Avian Gastrointestinal Diseases Part 2
  - Sharman Hoppes
- 5:00 - 6:00 PM: ABVP Diplomate Meeting • Grand Ballroom Salons C-D
- 5:00 - 6:00 PM: AVTCP Question & Answer Session • Meeting Room 11

**Reception • 7:00 - 8:00 PM**

- **The Florida Aquarium**

**Annual Awards Dinner • 8:00 - 10:00 PM**

- **The Florida Aquarium**
**FELINE** | **EQUINE** | **FOOD ANIMAL** | **AVTCP** | **SHELTER**
---|---|---|---|---
**GRAND BALLROOM SALONS C-D** | **GRAND BALLROOM SALON B** | **MEETING ROOM 8** | **MEETING ROOM 11** | **GRAND BALLROOM SALON A**

**Surgery of the Liver & Biliary System**  
Howard Seim

**Equine Dental Morphology**  
Jack Easley

**Understanding Key Concepts of the Bovine Innate & Acquired Immune Systems**  
Paul Rapnicki

**CANINE & FELINE: ICU Boot Camp - What You Should Know on Day 1**  
Paula Plummer

**Introduction to Community & Shelter Assessments**  
Sara Pizano

**Feline Subtotal Colectomy & Perineal Urethrostomy**  
Howard Seim

**Modern Equine Dental Examination Techniques**  
Jack Easley

**Periparturient Immune Suppression in the Dairy Cow**  
Paul Rapnicki

**CANINE & FELINE: In the Trenches of Transfusion Medicine**  
Paula Plummer

**Preparing for a Community & Shelter Assessment**  
Sara Pizano

**EXHIBIT HALL OPEN (9:50 - 10:20 AM)**

**Surgical Repair of Diaphragmatic Hernia**  
Howard Seim

**Dental Maintenance Procedures**  
Jack Easley

**Disease Records for Impactful Decisions During the Vital 90 Days**  
Paul Rapnicki

**CANINE & FELINE: What Every Veterinary Nurse Should Know About Feline Hyperthyroidism**  
Paula Plummer

**Keys to a Successful Shelter Assessment & Follow-Up**  
Sara Pizano

**Managing Nasopharyngeal, Ear Canal & Middle Ear Polyps**  
Howard Seim

**Equine Dental Disease**  
Jack Easley

**Pegbovigrastim Injection – Utilizing Immune Modulation in Clinical Practice**  
Paul Rapnicki

**CANINE & FELINE: Diabetes Medicine & Management**  
Paula Plummer

**Shelter Assessment Case Studies & Conclusions**  
Sara Pizano

**Networking Luncheon • 12:10 - 1:00 PM • Grand Ballroom Salons F-J**

**EXHIBIT HALL OPEN (1:00 - 1:30 PM)**

**Feline Esophagostomy Feeding Tube & Chest Drain Placements**  
Howard Seim

**Equine Dental Imaging**  
Jack Easley

**Pork Production in the U.S., Public Influence & the Role of Industry Veterinarians**  
Jeff Husa

**EXOTICS: Exotic Companion Animal Nursing - More Than Just Oxygen & a Warm Cage**  
Pia Bartolini

**Interactive Practitioner Workshop: Cases, Protocols & Solutions**  
Elizabeth Berliner & Staci Cannon

**Histoplasmosis: An Update on Diagnosis & Management**  
Audrey Cook

**Strangles Outbreaks & How to Manage Them**  
Laurie Beard

**Pork Production Diseases, Current Diagnostic Tools & Preventive Programs**  
Jeff Husa

**EXOTICS: Exotic Companion Animal Emergency & Triage - The Critical First Minutes to Hours**  
Pia Bartolini

**Interactive Practitioner Workshop: Cases, Protocols & Solutions**  
Elizabeth Berliner & Staci Cannon

**EXHIBIT HALL CLOSING (3:20 - 4:00 PM)**

**Diabetes Mellitus: New Strategies for an Old Foe**  
Audrey Cook

**Inflammatory & Immune Mediated Myopathies in Horses**  
Laurie Beard

**Biosecurity & Welfare Considerations for Pork Production**  
Jeff Husa

**EXOTICS: Reptilian & Amphibian Hematology & Cytology With Just a Drop**  
Pia Bartolini

**Interactive Practitioner Workshop: Cases, Protocols & Solutions**  
Elizabeth Berliner & Staci Cannon

**ABVP Diplomate Meeting • Grand Ballroom Salons C-D**

**AVTCP Question & Answer Session • Meeting Room 11**

**Reception • 7:00 - 8:00 PM**  
The Florida Aquarium

**Annual Awards Dinner • 8:00 - 10:00 PM**  
The Florida Aquarium
SUNDAY, OCTOBER 14

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| 8:00 - 8:50 AM | Avian Respiratory Emergencies  
Jennifer Graham | Neurological Emergencies in Exotic Companion Mammals  
Tracey Ritzman | Cardiopulmonary Emergencies in Reptile Emergencies  
James Bogan | Surgical Management of Brachycephalic Syndrome & Salivary Mucocele  
Howard Seim |
| 9:00 - 9:50 AM | Avian Pediatric Medicine  
Sharman Hoppes | Musculoskeletal Disorders in Exotic Companion Mammals Emergencies  
Tracey Ritzman | Septicemia in Reptile Emergencies  
James Bogan | Chest Drain Placement & the Four Ligature Splenectomy  
Howard Seim |
| 10:20 - 11:10 AM | Avian Cardiology  
Sharman Hoppes | Cardiovascular Disorders in Exotic Companion Mammals Emergencies  
Tracey Ritzman | Analgesia in Reptile Emergencies  
James Bogan | Anal Sacculctomy: A Novel Approach and Surgical Management of the Gall Bladder Mucocele  
Howard Seim |
| 11:20 AM - 12:10 PM | Avian Renal Disease  
Jennifer Graham | Ophthalmic Disorders in Exotic Companion Mammals & Critical Care Patients  
Tracey Ritzman | Reptile Emergency Medicine? Case Reports  
James Bogan | Tips for Your Tie-Back (Laryngeal)  
Howard Seim |
**SUNDAY, OCTOBER 14**

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| **Probiotics: Myth Versus Science**  
  Audrey Cook | **Equine Metabolic Syndrome & Pars Pituitary Intermedia Dysfunction in Horses**  
  Laurie Beard | **Caseous Lymphadenitis: Reasonable Treatment Options?**  
  Kevin Washburn | **EXOTICS: Reptilian Anesthesia & Analgesia**  
  Pia Bartolini | **Not Another Blue Dot: Advances in FeLV & FIV Testing**  
  Julie Levy | **AFAST, TFAST and Vet BLUE Canine Lab**  
  Gregory Lisciandro |
| **Chronic Enteropathies Part 1: The Diagnostic Approach**  
  Audrey Cook | **Equine Diseases with Low Vitamin E Concentrations**  
  Laurie Beard | **True Small Ruminant Emergencies**  
  Kevin Washburn | **EXOTICS: Blood Transfusion in Exotic Companion Animals**  
  Pia Bartolini | **FeLV/FIV Testing in Animal Shelters... or Not**  
  Julie Levy | |
| **Chronic Enteropathies Part 2: Treatments**  
  Audrey Cook | **Vestibular Disease in Horses**  
  Laurie Beard | **Are We Any Better Off with Parasite Control in Sheep & Goats**  
  Kevin Washburn | **EXOTICS: Nidovirus - Emerging Respiratory Disease in Pythons**  
  Pia Bartolini | **H3N2 Canine Influenza Virus: Management & Vaccination Strategies for Shelters, Identification & Management of the Individual Patient**  
  Cynda Crawford | |
| **Chronic Kidney Disease: New Options for Unhappy Kidneys**  
  Audrey Cook | **Genetic Diseases in Horses**  
  Laurie Beard | **Small Ruminant Case Presentations**  
  Kevin Washburn | **EXOTICS: Diagnostic Imaging Techniques in Exotic Companion Animals**  
  Pia Bartolini | |

*Lab will occur offsite. Meet in the hotel lobby for a prompt 7:30 departure.*
Exhibitor Space
Tampa Marriott Waterside Hotel & Marina
700 South Florida Avenue, Tampa, Florida 33602
Exhibitor Descriptions

AKC REUNITE - BOOTH #25
8051 Arco Corporate Dr., Ste 200
Raleigh, NC 27617
The way home for lost pets! Even the most loved pets can get lost. Combine the power of microchips and collar tags with our nationwide recovery system staffed 24/7/365 by dedicated specialists to help you and your pet. No annual fees!
www.akcreunite.org

ALOHA PET & BIRD HOSPITAL - BOOTH #7
968 E. Eau Gallie Cswy.
Indian Harbour Beach, FL 32937
Specialty/Referral/General Practice looking for potential employees.
www.alohavet.com

BOEHRINGER INGELHEIM ANIMAL HEALTH - BOOTH #30
3239 Satellite Blvd., Bldg. 500
Duluth, GA 30096

COMPANION ANIMAL HEALTH BY LITECURE - BOOTH #14
250 Corporate Blvd., Ste B
Newark, DE 19702
Companion Animal Health brings the most advanced technologies in pain management, rehabilitation, diagnostics, and regenerative medicine. Whether your goals are to heal and reduce pain, regenerate and repair tissues, diagnose and record treatment success, or provide rehabilitative modalities, Companion has a solution that will benefit your patients and your practice.

DOCTOR MULTIMEDIA - BOOTH #32
8070 La Jolla Shores Dr. #528
La Jolla, CA 92037
We are experts in website design and marketing for the medical industry. We provide doctors with internet solutions and marketing techniques that turn the web into an advantage for their practices.

E.I. MEDICAL IMAGING - BOOTH #6
110 12th Street, SW, Unit 102
Loveland, CO 80537
E.I. Medical Imaging® is a world leader and the only US manufacturer of portable ultrasound solutions specifically engineered for veterinary use. For the past 34 years, the Company’s core values have remained intact: putting the customer first and delivering solid, effective ultrasound solutions. EIMI provides the Ibex® portable ultrasound systems.

ELANCO - BOOTH #33
2500 Innovation Way
Greenfield, IN 46140
Elanco Companion Animal Health offers some of the latest product innovations. Elanco’s best-in-class products enable veterinarians to help pets live longer, healthier, higher-quality lives. Our R&D focuses on products that prevent and treat disease, improve and extend quality of life, and improve the type of care that pets receive.

ELLMAN, A CYNOSURE COMPANY - BOOTH #17
5 Carlisle Rd.
Westford, MA 01886
Ellman, A Cynosure Company, offers a full complement of high frequency/low temperature RF Radiosurgery® products that serves the needs of the Veterinary community, including the Surgitron® Surgical RF Systems. Our products are used around the world for precision surgical procedures.

ELSEVIER - BOOTH #10
1600 John F Kennedy Blvd., Ste 1600
Philadelphia, PA 19103
Elsevier is a world-leading provider of information solutions that enhance the performance of science, health, and technology professionals, empowering them to make better decisions, and deliver better care.
FEEL GOOD, INC. - BOOTH #24
1460 Gemini Blvd. #8
Orlando, FL 32837
Feel Good, Inc. provides portable TENS (transcutaneous electrical nerve stimulation) units offering a wide variety of benefits, including alleviating back, nerve and diabetic pain and migraines. Our units can also improve circulation, sleep patterns and have been shown to decrease the use of pain relievers that can cause negative side effects.

FIRST CITIZENS BANK - BOOTH #3
101 E Kennedy Blvd., Ste 4100
Tampa, FL 33602
FCB provides a full range of banking products and services to meet your individual or business financial needs.

INTERNATIONAL VETERINARY POINT-OF-CARE ULTRASOUND SOCIETY, IVPOCUS - BOOTH #22
1049 Lakeshore Dr.
Spicewood, TX 78669
The International Veterinary Point-of-Care Ultrasound Society, IVPOCUS, advocates the global education and advancement of Veterinary Point-of-Care Ultrasound and Global FAST (AFAST, TFAST and Vet BLUE combined) to improve patient care and save lives. IVPOCUS wants all veterinarians to be knowledgeable of the everyday applications of VPOCUS and Global FAST.

KINDREDBIO - BOOTH #29
1555 Bayshore Hwy., Ste. 200
Burlingame, CA 94010
Our core strategy is to modify, improve, and repurpose pre-existing drugs and therapeutics that have already proven to be safe and effective in humans. We are developing therapies for feline, canine and equine patients, using proven human biologics.

LACUNA - BOOTH # 1 START-UP CIRCLE
LAFEBER-EMERAID - BOOTH #15
24981 N 1400 East Rd.
Cornell, IL 61319

MDS INCORPORATED - BOOTH #27
3429 Stearns Rd.
Valrico, FL 33596
MDS Incorporated has been a pioneer in unique and affordable Veterinary-specific endoscopy and lighting equipment since 1972. Come see our featured “Small Mammal Intubation Endoscope”, designed specifically for hard-to-intubate patients. Our small animal video gastroscope delivers high resolution optics at an affordable price.

MICROVET DIAGNOSTICS - BOOTH #20
151 Sellars Dr.,
Inman, SC 29349
MicroVet Diagnostics collaborates with partners at the forefront of technology to bring unique, innovative diagnostic products for in-clinic use in the areas of Hematology, Immunology, Chemistry, Microbiology, Urinalysis, Coagulation and Imaging. Distributing and developing specialized, point-of-care testing that promotes higher standards in diagnostics while containing cost is our primary mission.
MILA INTERNATIONAL, INC. - BOOTH #23
7984 Tanner’s Gate Ln.
Florence, KY 41042
Established 1991. MILA International is an innovative company that has developed veterinary medical products that are otherwise commercially unavailable. MILA is known as the gold standard for venous access catheters, chest tubes, urinary catheters, and feeding tubes for Large/Small Animals.

NUTRAMAX LABORATORIES, INC. - BOOTH #12
946 Quality Dr.
Lancaster, SC 29720
The science behind animal health and wellness starts here. Visit our booth to learn about Panzquin™ pancreatic enzyme concentrate, Proviable™-Forte multi-strain probiotics (ask us about the chewable tablets!), and Quinicarn™ L-carnitine supplement. Other products include the #1 veterinarian recommended joint health brand Dasuquin® and liver support brand Denamarin® (ask us about Dasuquin Advanced and Denamarin Advanced), Solliquin™ behavioral health supplement, Cobalequin® cobalamin tablets (also containing folate), Welactin® omega-3 supplement, Craneridin® for urinary tract health, and Consil® synthetic bone graft putty and particulate.

PETMAP - BOOTH # 4
4920 W. Cypress St., Ste 110
Tampa, FL 33607
Whether you need an accurate BP/HR device for your exam room patients or a flexible/modular multi-parameter monitoring system, there’s a petMAP for you. petMAPs are portable, accurate and easy to use. Choose graphic II for BP/HR or the petMAP +II for monitoring—both are handheld convenient. Made in the USA.

PURINA - BOOTH #34
Checkerboard Square
St. Louis, MO 63164
For over 90 years, Purina has led the way in pet food nutrition and research. Stop by to learn more about our Purina® Pro Plan® Veterinary Diets formulas. For more information, visit www.PurinaProPlanVets.com or call 1-800-222-VETS.

ROYAL CANIN - BOOTH #38
500 Fountain Lakes Blvd., Ste 100
Saint Charles, MO 63301
Royal Canin USA is offers a range of science-based cat and dog health nutrition, based on size, age, breed, lifestyle and therapeucic requirements.

SHEPHERD SOFTWARE - BOOTH #1 START-UP CIRCLE

SONOPATH - BOOTH #40
31 Maple Tree Ln.
Sparta, NJ 07871
SonoPath consists of a world-wide team of boarded specialists and industry professionals who work together to provide a boutique educational teleconsultation™ service, SDEP™ ultrasound training courses, and mobile clinical sonography services in New Jersey and Oregon. SonoPath was founded in 2007 by Dr. Eric Lindquist, DMV, DABVP, Cert. IVUSS.

TAILTRAX - BOOTH #1 START-UP CIRCLE

UNIVERSAL SURGICAL INSTRUMENTS - BOOTH #26
10 Valley Rd.
Glen Cove, NY 11542
For over 30+ years USI has supported the veterinary community by providing top quality surgical instruments at low prices, attended conferences and provided instruments at many wet labs. We offer general and specialty items for your practice including exotic vet, dental, opthalmic, orthopedics and vet tech instruments.

VET RAY TECHNOLOGY BY SEDECAL - BOOTH #5
3190 N. Kennicott Ave.
Arlington Heights, IL 60004
Vet Ray Technology by Sedecal, is the world’s largest manufacturer of Veterinary specific x-ray equipment. Vet Ray Technology has the top selling small animal table for both digital and film applications and supplies a wide variety of large animal products.
VETLAB SUPPLY - BOOTH #19
18131 SW 98th Ct.
Palmetto Bay, FL 33157
Still preferred by dermatologists for fungal culture, the original dual rectangular DermatoPlate Duo® plate is back. For in-clinic culture & sensitivity, we feature our Spectrum™ chromogenic system and our new CultiPlate®-U for fast, easy UTI screening. Our Smart Capture system instantly turns any smartphone into a high-quality microscope camera.

VETRIX - BOOTH #13
PO Box 1892
Cumming, GA 30028
Vetrix is the leading provider of veterinary regenerative medicine. As a world supplier of innovative veterinary products, Vetrix brings the very best in surgical products for superior patient care. Stop by to learn about our new product Healion, a particulate amniotic wound matrix for acute and chronic wound care!

VET SCENE - BOOTH #28
94 East Crogan St.
Lawrenceville, GA 30046
VetScene is an independent company providing cutting-edge marketing tools that work seamlessly with your clinic’s practice management software and will Increase Revenue, Improve Compliance, and Strengthen Client Loyalty.

WILEY - BOOTH #8
200 Locust St., Apt. 19 B
Philadelphia, PA 19106
It’s the knowledge age – and it’s Wiley’s customers who lead the world’s knowledge economy. Our customers drive progress by providing quality education, the right skills to fulfill global demand and scientific research to fuel innovation. Our customers care, their organizations succeed and the world benefits.

Patient Portal, Pet Health ID Cards ™, customized clinic apps, VetScene TV, client loyalty program, websites, reputation management, and full-color reminder postcards
Lecture Descriptions
Courses are listed in the order they occur within the track.

CROSS-SPECIES

ONE HEALTH IN THE UNITED NATIONS - GLOBAL AND LOCAL VETERINARY MEDICINE
Juan Lubroth
‘One Health’ is a philosophy - from global to local (“glocal”). It requires all us to do our part, as individuals only have part of the solution. One Health refers to designing and implementing programs, policies and research across disciplines and sectors to achieve better public and environmental health.

COMBINED EXOTICS

EMERGENCY MEDICINE MYTHS: FACT VS FICTION
Jay N. Gladden
Exotic animal emergencies present a number of challenges to emergency clinicians. The unique anatomy and physiology of many exotics requires a specialized approach. Common ER myths involving the rapid triage/assessment of exotic emergency cases and emergency stabilization efforts will be reviewed.

CRITICAL CARE TOOLS FOR THE EXOTIC PATIENT? WHAT, HOW & WHEN PART 1 & 2
Jay N. Gladden
Exotic animals offer unique challenges as ER cases, however our expanding diagnostic abilities and treatment options continue to reach new potentials. Point-of-care ultrasound has revolutionized bedside assessment of ER patients, including exotics. Exotic animal emergency and critical care case management, including point-of-care diagnostic assessments and treatment strategies, will be reviewed.

APPROACH TO FLUID THERAPY IN THE CRITICAL PATIENT
Jay N. Gladden
Achieving fluid balance and avoiding fluid overload is key to improving patient outcomes. This presentation will focus on shifting from a “one size fits all” fluid approach to individualized assessments as a means of optimizing fluid balance in critically ill exotic patients.

EXOTIC ANIMAL TOXICOLOGY
Jay N. Gladden
Intoxications represent a large portion of emergency case presentations and include not only companion animals but exotic animal species as well. It is important to know how to manage the unique needs of these patients. This presentation will review common exotic animal poisonings and management techniques.

APPROACH TO RESUSCITATION, INCLUDING EMERGENCY TECHNIQUES, LIFE-SAVING MEASURES & EMERGENCY MEDICATIONS
Jay N. Gladden
A specialized approach including rapid triage and aggressive stabilization are essential to improve outcomes in critically ill exotic animals, given their small size and unique anatomy/physiology. This session is designed to familiarize clinicians with emergency vascular access, airway management, and CPR, along with species specific triage and euthanasia techniques.

SEPSIS & SHOCK
Sharman Hoppes & Jennifer Graham
There are no specific tests that provide a definitive diagnosis of sepsis; a diagnosis of sepsis is achieved based on a constellation of compatible clinical signs and diagnostic testing results. This lecture will overview case examples of sepsis and shock in zoological companion animal species.
CANINE

ANESTHESIA & ANALGESIA FOR EMERGENCY/CRITICAL CARE PATIENTS
Tammy Grubb
Although ‘emergency’ and ‘critical care’ are often lumped together, patients that present in either category can be very different. There are similarities between the two groups, like the need for appropriate triage, provision of physiologic support and assessment/treatment of pain, but choice of techniques and drugs can be very different.

ARE YOU USING ALL YOU’VE GOT? CHRONIC PAIN TREATMENT UPDATES
Tammy Grubb
Chronic pain, which is increasingly common, can be severely debilitating and difficult to treat. Treatment includes a multimodal approach of environmental modification, activity enhancement, pharmaceuticals and non-pharmaceutical therapy. The pharmaceutical options include a mix of traditional and non-traditional drugs, the latter will be the focus of this lecture.

MY FIVE (OR SIX) FAVORITE LOCAL BLOCKS
Tammy Grubb
Local/regional blocks should be a standard component of analgesia protocols—they are effective, inexpensive and easy to do. My favorite blocks may be some that you are using too – but perhaps there are some new blocks that you should try!

ANESTHESIA & ANALGESIA MYTHBUSTERS!
Tammy Grubb
What do we know about the drugs we use every day and what do we just THINK we know? Many of our drugs are ‘misunderstood’ and, thus, misused. Accurate drug information means safer anesthesia, better analgesia, happier clients and more satisfied doctors and technicians.

HOT OFF THE PRESSES: USEFUL TIDBITS FROM RECENT LITERATURE
Tammy Grubb
No time to read the latest anesthesia/analgesia literature? I’ve done it for you! In this lecture, we will peruse recent publications that might have a big impact on the way you practice anesthesia/analgesia. There might be something futuristic to watch for – or might just be interesting.

MONITORING & SUPPORT UPGRADES: WHAT DO YOU NEED NEXT?
Tammy Grubb
Monitoring has been proven to decrease the incidence of anesthesia-related mortality. What should we be monitoring and how do we respond when the parameters are abnormal? It might be time to up the game by getting the next level monitoring and support drug or technique!

MANAGEMENT OF THE DOG WITH AN INCIDENTALLY-DETECTED HEART MURMUR
Étienne Côté
The presentation of a dog for non-cardiovascular reasons can be complicated by the detection of a murmur unexpectedly. Does every such patient require an echocardiogram? What is the optimal sequence to follow? This seminar will present canine-specific approaches to managing this common clinical situation.

CASE STUDIES IN CANINE CARDIOLOGY
Étienne Côté
Managing heart disease patients properly can be challenging. Common difficulties include diagnostic pitfalls, new diseases and treatment approaches. This seminar will present cases with one or more key clinical points underlying each one.

AZOTEMIA & HEART DISEASE: MANAGING THE CATCH-22
Étienne Côté
Internal contradictions are plentiful when considering heart disease and kidney disease in the same patient. Should diuretic doses be increased or decreased? Should fluid therapy be given or withheld? Often, a patient’s outcome could be optimized by better understanding the principles and clinical applications of how these diseases interplay.
PERICARDIAL DISEASE IN THE DOG: CURRENT STATUS & CLINICAL MANAGEMENT
Étienne Côté
Our understanding of pericardial disease in dogs has evolved gradually over the past several years. Recognition and optimal treatment remain the cornerstones of management but can be challenging. This seminar will offer a review of canine pericardial disease in 2018 and clinically-applicable methods for diagnosis and treatment.

ANESTHESIA OF THE CANINE CARDIOLOGY PATIENT
Étienne Côté
General anesthesia carries a risk for cardiovascular detriment, and this risk is logically felt to be increased in patients with pre-existing heart disease. Which precautions can be taken in induction, maintenance and monitoring is an important question, and this seminar will offer several recommendations for addressing this situation.

OVERVIEW OF CANINE CARDIOLOGY DRUGS: 2018
Étienne Côté
Many developments have occurred recently in canine cardiovascular therapeutics. This seminar will review these and place them in the context of established treatment protocols.

SURGICAL MANAGEMENT OF GASTRIC DILATATION VOLVULUS?
THE 15 MINUTE GASTROPEXY
Howard Seim
This seminar will focus primarily on the surgical management of GDV patients. Video of clinical cases during intraoperative decision making will be presented. We will focus on the authors’ preferred method for gastric derotation and the technical aspects of performing a 15-minute incisional gastropexy.

SURGICAL REPAIR OF DIAPHRAGMATIC HERNIA – CANINE
Howard Seim
This session will discuss the three most common types of diaphragmatic hernia: acute traumatic, chronic traumatic and peritoneopericardial. Video of clinical cases will be used to illustrate techniques used to surgically repair each type of hernia. Management of chronic atelectatic lung lobes and the incidence of re-expansion pulmonary edema will be discussed.

SURGICAL MANAGEMENT OF BRACHYCEPHALIC SYNDROME & SALIVARY MUCOCELE
Howard Seim
This session will discuss the management of upper airway obstruction in brachycephalic breeds. Emphasis will be placed on nasoplasty and soft palate resection. A new technique for nasal planum resection will be discussed. Videotape will be used to illustrate surgical techniques.

CHEST DRAIN PLACEMENT & THE FOUR LIGATURE SPLENECTOMY
Howard Seim
This lecture will focus on techniques used to place chest drains in cats. A variety of drain types will be used as well as several different techniques. Videotape of clinical cases requiring ‘emergency’ as well as ‘planned’ chest drains will be used to illustrate the recommended procedures.

ANAL SACCULECTOMY: A NOVEL APPROACH & SURGICAL MANAGEMENT OF THE GALL BLADDER MUCOCELE
Howard Seim
Anal sacculectomy is frequently performed in veterinary practice. A ‘novel’ technique has been suggested that allows the surgeon full control of the anatomy and thus preservation of vital structures during anal sac resection. This technique facilitates complete removal of the anal sac while encouraging protection of caudal rectal nerve.

TIPS FOR YOUR TIE-BACK (LARYNGEAL)
Howard Seim
Laryngeal paralysis generally occurs in old age large breed dogs and can be life threatening. Although surgical management techniques are still controversial, this lecture will discuss the surgical technique currently recommended and give the participants tips on how to ensure a safe and effective tie-back. Videotape of a clinical case will be shown.
FELINE

ANESTHESIA OF THE FELINE CARDIOLOGY PATIENT
Étienne Côté
Many important clinical questions arise around anesthesia of feline cardiovascular patients. Does the presence of a murmur justify certain precautions or treatments? Does the appearance or disappearance of a murmur under anesthesia correlate to prognosis? These and other questions will be addressed in this seminar.

FLUID THERAPY IN FELINE CARDIAC PATIENTS
Étienne Côté
Latrogenic congestive heart failure can occur if a cat with heart disease receives an excessive parenteral fluid volume. Conversely, any cat can suffer harm if it does not receive the volume of parenteral fluid that it requires. Describing ways of managing this quandary is the basis for this seminar.

UNCOMMON FELINE CARDIOMYOPATHIES
Étienne Côté
Hypertrophic cardiomyopathy is the most common heart disease of cats, but what about the other cardiomyopathies? This seminar will review their clinical features, diagnostic characteristics, treatment and prognosis.

CARDIAC ARRHYTHMIAS: FELINE-SPECIFIC FINDINGS
Étienne Côté
Beyond basic electrocardiography, there are essential aspects of heart rhythm disturbances that are very different in cats compared to dogs or humans. This seminar will highlight these, with an emphasis on clinically useful approaches.

BIOMARKERS IN FELINE CARDIOLOGY: CURRENT STATUS & FUTURE DIRECTIONS
Étienne Côté
The idea of assessing the heart through a blood sample has obvious advantages, including availability and low cost to name just two. But how does measuring cardiac biomarkers fit in with echocardiography, radiographs and careful cardiac auscultation? This seminar will address these and related questions.

CASE STUDIES IN FELINE CARDIOLOGY
Étienne Côté
Several important aspects of feline cardiology have emerged recently, and equally, certain worthwhile and time-honored principles are sometimes overlooked. Using a case-based approach, this seminar will identify some of the most useful of these for feline practice.

PRINCIPLES OF GI SURGERY: TIPS TO MAKE IT EASIER
Howard Seim
When performing an intestinal resection and anastomosis by yourself (i.e., no assistant to help!), I have several tips that may make the procedure easier to perform. I will suggest a number of alternative techniques that you can consider incorporating that may make this common procedure easier and more predictably successful.

SURGERY OF THE LIVER & BILIARY SYSTEM
Howard Seim
Occasionally patients require surgical management for disorders of the liver and biliary system. In the cat, the most notable examples are biliary adenocarcinoma and cystadenoma. During this session I will present several cases with hepatobiliary diseases and describe in detail the surgical management used to treat each case.

FELINE SUBTOTAL COLECTOMY & PERINEAL URETHROSTOMY
Howard Seim
Subtotal colectomy for the treatment of megacolon in cats is no longer considered a salvage procedure. This session is designed to describe, in detail, the author’s preferred technique for subtotal colectomy. Video of a clinical case will be used to illustrate the speaker’s tricks.
SURGICAL REPAIR OF DIAPHRAGMATIC HERNIA – FELINE
Howard Seim
This session will discuss the three most common types of diaphragmatic hernia: acute traumatic, chronic traumatic and peritoneopericardial. Video of clinical cases will be used to illustrate techniques used to surgically repair each type of hernia. Management of chronic atelectatic lung lobes and the incidence of re-expansion pulmonary edema will be discussed.

MANAGING NASOPHARYNGEAL, EAR CANAL & MIDDLE EAR POLYPS
Howard Seim
Polyps originating from the naso-pharynx, ear canal and middle ear of young cats are occasionally encountered in practice. This session will include techniques for removing polyps from the nasopharyngeal region, external ear canal and middle ear. Video of clinical cases will be used to illustrate surgical technique.

FELINE ESOPHAGOSTOMY FEEDING TUBE & CHEST DRAIN PLACEMENTS
Howard Seim
Placement of feeding tubes is frequently indicated for the management of nutritionally deficient and critically injured patients. This session will focus on a variety of techniques to place esophagostomy feeding tubes in cats. Because cats tolerate this avenue of feeding so well, it is important that veterinarians are able to implement it.

HISTOPLASMOSIS: AN UPDATE ON DIAGNOSIS & MANAGEMENT
Audrey Cook
Histoplasma capsulatum is endemic in many parts of the U.S. and infection causes a range of clinical signs in cats. In this lecture, we will review patient presentation, diagnostic methods, treatment options and monitoring strategies. Clinical cases will be used to highlight key concepts.

DIABETES MELLITUS: NEW STRATEGIES FOR AN OLD FOE
Audrey Cook
Diabetes mellitus is a common issue in feline practice and our understanding of the disease and treatment strategies have shifted substantially over the last decade. In this talk, we will review new options and approaches to cats with preclinical and clinical diabetes and those with diabetic ketoacidosis.

PROBIOTICS: MYTH VERSUS SCIENCE
Audrey Cook
Probiotics are now widely used in small animal practice, but there is little evidence of positive effects in cats and very few products have been adequately evaluated. In this lecture, we will review the literature on this topic and discuss when and how to reach for these products.

CHRONIC ENTEROPATHIES PART 1: THE DIAGNOSTIC APPROACH
Audrey Cook
The diagnostic work-up for cats with chronic diarrhea or other evidence of enteropathy can be costly, and a logical approach is needed. In this lecture, we will review the tests currently available and discuss how to select and interpret tests.

CHRONIC ENTEROPATHIES PART 2: TREATMENTS
Audrey Cook
In this lecture, we will review treatment options for cats with non-infectious enteropathies. When do we try antibiotics versus prednisolone? Which diets make sense? When do we reach for drugs like chlorambucil? These issues will be discussed from an evidence-based approach.

CHRONIC KIDNEY DISEASE: NEW OPTIONS FOR UNHAPPY KIDNEYS
Audrey Cook
Chronic kidney disease is one of the most common conditions in senior cats. In this lecture, we will review emerging therapies for these patients, such as the angiotensin receptor blocking drugs and subcutaneous ureteral bypass systems, and revisit more controversial options such as the routine use of calcitriol.
EQUINE

EQUINE PODIATRY PRINCIPLES
Ric Redden
This session explains the importance of understanding what we see, processing the information by breaking it down into smaller, simpler components and finally making logical sense of the findings. Attendees should plan to bring at least 10 pages of graph paper (1 inch highlighted grid works best) and a protractor.

OBTAINING & INTERPRETING THE MOST INFORMATIVE RADIOGRAPHS FOR THE VET/FARRIER TEAM
Ric Redden
Radiographic images are essential for the vet farrier team. When the task falls upon the farrier to make crucial mechanical decisions with farriers knife, rasp and therapeutic appliances, the farrier must also have working radiographic knowledge relative to their role as a mechanical solution manager. Attendees should plan to bring at least 10 pages of graph paper (1 inch highlighted grid works best) and a protractor.

HOW TO BETTER UNDERSTAND THE MECHANICAL MODEL
Ric Redden
Mechanics is branch of science that deals with energy, forces and their effect on bodies or the functional parts of an activity. Considering the complexity of the equine foot, it is only prudent that we learn all we possibly can about the forces at play and their influence on all components. Attendees should plan to bring at least 10 pages of graph paper (1 inch highlighted grid works best) and a protractor.

REVERSING THE ILL EFFECTS OF IMBALANCE OF INTERNAL FORCES
Ric Redden
This session covers how to develop a treatment protocol designed to reverse the ill effects of imbalance of internal forces. Attendees should plan to bring at least 10 pages of graph paper (1 inch highlighted grid works best) and a protractor.

THE VALUE OF VENOGRAMS
Ric Redden
The venogram has become an invaluable tool that also allows us to define and visualize the ill effects of pathology and to monitor various treatment protocols, making it one of our most valued tools for diagnosis and treatment strategy. Attendees should plan to bring at least 10 pages of graph paper (1 inch highlighted grid works best) and a protractor.

HOW TO MECHANICALLY MANAGE CLUB FEET & THE CRUSHED HEEL
Ric Redden
Club feet are one of the most common deformities throughout the horse world. How to manage the club syndrome and the crushed heel that is typically opposite the club foot. Attendees should plan to bring at least 10 pages of graph paper (1 inch highlighted grid works best) and a protractor.

LAMINITIS REVISITED
Ric Redden
This session will discuss the Differential vs Definitive Diagnosis, the value of radiographs and venograms and when to make the decision to cut the tendon (DDFT). Attendees should plan to bring at least 10 pages of graph paper (1 inch highlighted grid works best) and a protractor.

EQUINE DENTAL MORPHOLOGY
Jack Easley
Equine dental development is unique to the species with a continually changing occlusal surface. This lecture will help demystify the equine tooth and give the clinician a clearer understanding of equine dentition from birth to old age.

MODERN EQUINE DENTAL EXAMINATION TECHNIQUES
Jack Easley
The oral examination is the most important part of equine dental care. Sedation, dental equipment, instrumentation and a systematic approach allow veterinarians to diagnose dental and oral pathology that was almost never recognized clinically only 10 years ago.
DENTAL MAINTENANCE PROCEDURES
Jack Easley
Oral examination is often followed by procedures to help maintain a healthy, comfortable mouth on horses with no true dental pathology. Deciduous tooth care and removal, wolf tooth procedures, biting evaluation, removal of sharp enamel points and scaling tartar from canine teeth are a few of these procedures.

EQUINE DENTAL DISEASE
Jack Easley
Most dental disease in the horse can be grouped into categories based on age. Developmental conditions and traumatic injuries are common in the young growing athlete. Endodontic disease is usually seen in middle-aged horses. Infundibular cemental hypoplasia and dysplasia are developmental conditions often detected later in life.

EQUINE DENTAL IMAGING
Jack Easley
Veterinary imaging has improved vastly over the past century. This technology has become more user-friendly with the development of digital and computerized systems. This lecture will cover all imaging techniques but will concentrate on taking and interpreting equine dental radiographs.

STRANGLES OUTBREAKS & HOW TO MANAGE THEM
Laurie Beard
Streptococcus equi subspecies equi (old name S equi) is a host specific organism resulting in “Strangles.” This session will focus on the clinical signs of Strangles, complications, diagnosis, treatment and outbreak control.

INFLAMMATORY & IMMUNE MEDIATED MYOPATHIES IN HORSES
Laurie Beard
Myositis can be the result in immune mediated diseases and other inflammatory conditions. This lecture will use cases to demonstrate the different causes of inflammatory myopathies.

EQUINE METABOLIC SYNDROME & PARS PITUITARY INTERMEDIA DYSFUNCTION IN HORSES
Laurie Beard
Equine Cushing’s Disease (or PPID) and Equine Metabolic Syndrome are endocrine diseases that can result in similar outcomes. Diagnosis of both conditions can be frustrating. Current recommendations on diagnosis and treatment options will be discussed.

EQUINE DISEASES WITH LOW VITAMIN E CONCENTRATIONS
Laurie Beard
It is common for horses to develop low serum vitamin E concentrations, without access to green grass. There are some horses that will develop diseases associated with low vitamin E concentrations. These diseases and treatment options will be discussed (demonstrated by clinical cases).

VESTIBULAR DISEASE IN HORSES
Laurie Beard
Vestibular disease is a common pathological condition, which is due to many different diseases. Case examples will be used (including diagnosis and treatment).

GENETIC DISEASES IN HORSES
Laurie Beard
Genetic diseases are being much more frequently recognized and diagnosed by use of DNA testing. Common genetic diseases of various breeds will be discussed.

FOOD ANIMAL

VACCINOLOGY: PRIME BOOST & ANTIGEN INTERFERENCE
Victor Cortese
New research on designing vaccination programs for cattle and swine will be discussed.

PERINATAL PROGRAMMING
Victor Cortese
New concepts on perinatal programming will be discussed.
REDEFINING IMMUNOSUPPRESSION  
*Victor Cortese*  
New research on post stress immune suppression and vaccine responses will be discussed.

NEW RESEARCH ON VARIOUS IMMUNOLOGY TOPICS  
*Victor Cortese*  
Several new studies involving utilizing the immune system for improved performance will be presented.

APPLIED IMMUNOLOGY FOR THE PRACTICING VETERINARIAN: PART 1  
*Victor Cortese*  
This lecture will cover basic principles of immunology that will be applied across species with particular emphasis on production medicine (swine and cattle).

APPLIED IMMUNOLOGY FOR THE PRACTICING VETERINARIAN: PART 2  
*Victor Cortese*  
This workshop will build on the first lecture, with clinical applications of immunology in the field.

RESPIRATORY & MUCOSAL IMMUNITY IN PERINATAL PROGRAMMING WORKSHOP  
*Victor Cortese*  
This lecture hour will focus on a case study format that will focus on new advances in mucosal immunity.

UNDERSTANDING KEY CONCEPTS OF THE BOVINE INNATE & ACQUIRED IMMUNE SYSTEMS  
*Paul Rapnicki*  
Learning objectives of this session are to review the two major branches of the immune system, innate immunity and acquired immunity, to assist veterinarians in explaining these concepts to their clients. The session will compare and contrast the various differences between the innate and acquired immune responses, as well as discuss how the two branches of the immune system interact.

PERIPARTURIENT IMMUNE SUPPRESSION IN THE DAIRY COW  
*Paul Rapnicki*  
The session will describe in detail periparturient immune suppression of the innate immune system and its impact on the key phagocytic cell of the innate immune response, the neutrophil. Regulation of neutrophil production, as well as the critical neutrophil functions of migration, phagocytosis and apoptosis will be reviewed.

DISEASE RECORDS FOR IMPACTFUL DECISIONS DURING THE VITAL 90 DAYS  
*Paul Rapnicki*  
The management implications of our current understanding of dairy cow immunology on programs to enhance immunity in the dairy cow will be discussed.

PEGBOVIGRASTIM INJECTION – UTILIZING IMMUNE MODULATION IN CLINICAL PRACTICE  
*Paul Rapnicki*  
The session will then review published research on the pharmacodynamics effects of pegbovigrastim injection on neutrophil function and numbers allowing veterinarians to more fully understand the clinical pharmacology of this recently approved biotherapeutic protein animal health product.

PORK PRODUCTION IN THE U.S., PUBLIC INFLUENCE & THE ROLE OF INDUSTRY VETERINARIANS  
*Jeff Husa*  
We will discuss the evolution of the U.S. pork industry, its contribution to global food supply, synergies between farms of various sizes, changing consumer trends, the role of practitioners and industry veterinarians in the protection of safe food supplies and well-being for pigs and people world-wide.

PORK PRODUCTION DISEASES, CURRENT DIAGNOSTIC TOOLS & PREVENTIVE PROGRAMS  
*Jeff Husa*  
During this seminar, we will discuss the principle diseases currently impacting U.S. pork production, and farms of various sizes. We will provide an update on readily available diagnostic tools and field applications. We will also discuss prevention and treatment programs for each disease.
BIOSECURITY & WELFARE CONSIDERATIONS FOR PORK PRODUCTION  
Jeff Husa  
We'll discuss crucial biosecurity measures on swine farms. These benefit veterinarians and producers regardless of size of operation. We will discuss auditing and new research to aid the health and well-being of the U.S. pig herd. We will also discuss key animal welfare topics, including the role of DVMs in ensuring sound science and responsible stewardship.

CASEOUS LYMPHADENITIS: ARE THERE ANY REASONABLE TREATMENT OPTIONS?  
Kevin Washburn  
We will cover some of the antimicrobial research I have been doing over the past few years and discuss our findings. There should be new data out for treating these with oxytetracycline intralesionally, in addition to what we have done with tulathromycin.

TRUE SMALL RUMINANT EMERGENCIES  
Kevin Washburn  
The true small ruminant emergencies will be discussed including severe anemia, ruminal acidosis, urolithiasis, dystocia and severe pneumonia.

ARE WE ANY BETTER OFF WITH PARASITE CONTROL IN SHEEP & GOATS?  
Kevin Washburn  
We will discuss practical things veterinarians can do to help keep their sheep and goat producers in business.

SMALL RUMINANT CASE PRESENTATIONS  
Kevin Washburn  
Various cases we have seen will be presented in the form of a signalment, history and physical examination findings. To follow will be an audience interactive portion where we discuss diagnostics, findings, diagnosis and treatment.

AVTCP

CANINE AND FELINE
FELINE NURSING CARE PEARLS  
Paula Plummer  
The feline patient requires different nursing care techniques compared to their canine counterpart. Friendly feline handling, obtaining accurate blood pressures and ways to improve venipuncture are valuable in the day to day role of a veterinary nurse.

NOT YOUR TYPICAL OBSTRUCTION: URETERAL OBSTRUCTION IN THE FELINE PATIENT  
Paula Plummer  
Ureteral obstruction in the feline patient is becoming more common recently. This session will review anatomy and physiology of ureteral blockage and then move onto traditional versus new interventional methods of correcting a ureteral blockage. The subcutaneous ureteral bypass system and patient care will be reviewed in its entirety.

SYSTEMIC FUNGAL DISEASES IN THE FELINE PATIENT  
Paula Plummer  
Systemic fungal diseases can be seen if our feline patients live in the correct environment. Come to this lecture to learn if they are in a supportive environment for fungal infections, how to diagnose, treat and provide supportive care for patients with this type of infectious disease.

ICU BOOT CAMP: WHAT YOU SHOULD KNOW ON DAY 1!  
Paula Plummer  
The basic knowledge that an ICU nurse should know to have a successful career will be reviewed. This will include; dosage calculations, continuous rate of infusions, patient assessment, proper CPR techniques and how to deal with burnout.

IN THE TRENCHES OF TRANSFUSION MEDICINE  
Paula Plummer  
Whether you are at the ivory tower, at an emergency clinic or somewhere between, you are still considered to be in the trenches if your clinic is administering blood products to your patients. Come to this lecture and learn the ins and outs of canine and feline transfusion medicine.
WHAT EVERY VETERINARY NURSE SHOULD KNOW ABOUT FELINE HYPERTHYROIDISM
Paula Plummer
Occurrence of hyperthyroidism in the feline patients is common. Nurses should understand basic physiology, clinical signs, exam findings, different diagnostic methods, treatment options and client education. With a better understanding, veterinary nurses can become better patient advocates.

DIABETES MEDICINE & MANAGEMENT
Paula Plummer

EXOTICS

EXOTIC COMPANION ANIMAL NURSING: MORE THAN JUST OXYGEN & A WARM CAGE
Pia Bartolini
The purpose of this lecture will give technicians a guide to species specific consideration in exotic companion animal nursing. Starting from basic care to the more advance critical care of the avian, reptile and exotic mammal patients.

EXOTIC COMPANION ANIMAL EMERGENCY & TRIAGE: THE CRITICAL FIRST MINUTES TO HOURS
Pia Bartolini
This course will cover topics of initial triaging and hands-on nursing care of the critical avian, reptilian and exotic mammal patients. Technicians will be exposed to multiple hands-on techniques for common exotic companion animal emergencies.

REPTILIAN & AMPHIBIAN HEMATOLOGY AND CYTOLOGY: WITH JUST A DROP...
Pia Bartolini
Hematology and cytology has critical benefits in reptilian and amphibian patients. The beauty of hematology and cytology is one drop of blood, one drop of fluid, and/or one piece of tissue can give you rapid diagnostic results for a tailored treatment plan.

REPTILIAN ANESTHESIA & ANALGESIA
Pia Bartolini
Reptiles can provide as a challenging anesthetic candidate. This lecture will review species specific anatomy and physiology consideration for anesthesia, current analgesia and local blocks.

BLOOD TRANSFUSION IN EXOTIC COMPANION ANIMALS
Pia Bartolini
Transfusion medicine in exotic companion animals can be lifesaving, but there are many unknowns. This lecture will review cross-matching, storing, acquiring, and administering blood products in exotic mammals, avian and reptilian species.

NIDOVIRUS: EMERGING RESPIRATORY DISEASE IN PYTHONS
Pia Bartolini
Nidovirus is a newly discovered severe respiratory virus affecting primarily ball pythons and green tree pythons. This lecture will discuss the current information about this virus as well as diagnostic testing, quarantine protocols, and supportive care.

DIAGNOSTIC IMAGING TECHNIQUES IN EXOTIC COMPANION ANIMALS
Pia Bartolini
Diagnostics imaging is a frequently utilized modality in exotic animal medicine. A technician's radiology techniques are imperative for good diagnostic images. This lecture will review radiology and CT scan techniques and positioning for technicians working with exotic companion mammals, avian and reptile species.

SHELTER MEDICINE

HOW DO WE KNOW THEY HURT? - ASSESSING ACUTE PAIN IN CATS
Sheilah Robertson
Pain is a complex multidimensional experience with both sensory and emotional components. Lord Kelvin said “if you cannot measure it you cannot improve it;” this applies to pain assessment. Animals cannot self-report so we depend on observing behavioral changes. Videos based on validated pain tools will be discussed.
HOW DO WE KNOW THEY HURT? - ASSESSING ACUTE PAIN IN DOGS
Sheilah Robertson
Pain is a complex multidimensional experience with both sensory and emotional components. Lord Kelvin said “if you cannot measure it you cannot improve it;” this applies to pain assessment. Animals cannot self-report so we depend on observing behavioral changes. Videos based on validated pain tools will be discussed.

ANESTHESIA FOR PEDIATRIC PATIENTS
Sheilah Robertson
Risks faced by pediatric patients undergoing anesthesia include hypothermia, hypoglycemia, stress and pain. Because of their size, monitoring of vital signs can be challenging. However, choosing the correct combinations of anesthetics and analgesics, adapting monitoring equipment and being proactive with thermal strategies they can sail through the process.

EUTHANASIA: HUMANE & HUMAN CONSIDERATIONS
Sheilah Robertson
The welfare of both the animals whose life is to end and the people performing the task must be considered. The process must be humane and meet legal standards but we must understand the complex feelings of the person performing the act which can occur before during and after euthanasia.

ACCESS TO VETERINARY CARE: A SURVEY OF PET OWNERS ATTENDING OUTREACH CLINICS
Rachel Kreisler

USE OF NALBUPHINE AS A SUBSTITUTE FOR BUTORPHANOL IN COMBINATION WITH DEXMEDETOMIDINE AND TILETAMINE/ZOLAZEPAM: A RANDOMIZED NON-INFERIORITY TRIAL
Rachel Kreisler

EVALUATION OF COMPLICATION RATES IN MALE DOGS FOLLOWING A SINGLE BILATERAL INTRATESTICULAR INJECTION OF A 20% CALCIUM CHLORIDE SOLUTION IN ETHANOL FOR CHEMICAL CASTRATION
Kim Carter

DESCRIPTIVE EPIDEMIOLOGY, TEST CHARACTERISTICS, AND OUTCOMES OF CATS DIAGNOSED WITH M. CANIS IN A NORTHWESTERN ANIMAL SHELTER
Lena DeTar

FOSTER CARE IMPROVES SHELTER DOG BEHAVIOR AND WELL-BEING
Sheila D’Arpino

THE USE, SAFETY AND PERCEPTION OF DOG PLAYGROUPS IN ANIMAL SHELTERS
Sheila D’Arpino

INTRODUCTION TO COMMUNITY & SHELTER ASSESSMENTS
Sara Pizano
Learn why assessments to ensure Best Practices are so crucial with community programs and at the shelter level, and which decision makers are most important in the process. A review of some historical and available consulting companies will be presented, along with a discussion of MOUs, payment structure and fees.

PREPARING FOR A COMMUNITY & SHELTER ASSESSMENT
Sara Pizano
Preparing appropriately for a community and shelter assessment prior to the onsite visit will result in the most comprehensive recommendations. Information gathered prior to the visit will help build a framework and foundation for recommendations which often includes ordinance revisions.

KEYS TO A SUCCESSFUL SHELTER ASSESSMENT & FOLLOW UP
Sara Pizano
From the first point of contact, communication with stakeholders must be positive to encourage a sense of trust with the assessment team. This session will outline several ways to maximize the onsite visit, ensure accurate information sharing, how to engage staff/leaders/elected officials and the importance of asking the right questions.
SHELTER ASSESSMENT CASE STUDIES & CONCLUSIONS
Sara Pizano
In the final session, successful case studies will be reviewed highlighting the benefits of strategic programming that results in sustainable resolution.

INTERACTIVE PRACTITIONER WORKSHOP 1-3: CASES, PROTOCOLS, SOLUTIONS
Elizabeth Berliner & Staci Cannon
Attendees will be challenged with shelter cases that impact individual and population health in an animal shelter, and work through methods by which to preserve health and welfare of shelter animals from a veterinary perspective. Cases will illustrate key concepts in the provision of medical and behavioral care in shelters.

NOT ANOTHER BLUE DOT: ADVANCES IN FELV & FIV TESTING
Julie Levy
Is it “one and done” or does diagnosis of retroviral infections in cats require a more nuanced approach? This session will share the latest discoveries about retroviral diagnosis, selecting the most reliable test, sorting out test result discrepancies. Bring your own testing horror stories and we’ll work through them together.

FELV/FIV TESTING IN ANIMAL SHELTERS . . . OR NOT
Julie Levy
Should all cats be tested, or are there times when a greater good comes from spending those resources on something else? This session will navigate the sometimes controversial topic of FeLV and FIV testing in animal shelters and what to do when that dreaded blue dot appears.

H3N2 CANINE INFLUENZA VIRUS: MANAGEMENT & VACCINATION STRATEGIES FOR SHELTERS
Cynda Crawford
The H3N2 canine influenza virus is an emerging novel pathogen that caused nationwide epidemics in the U.S. in 2015 and 2017, including animal shelters. This presentation provides new information about management of influenza virus in shelters and implementation of vaccine strategies to mitigate risk of viral transmission.

H3N2 CANINE INFLUENZA VIRUS: IDENTIFICATION & MANAGEMENT OF THE INDIVIDUAL PATIENT
Cynda Crawford
The H3N2 canine influenza virus is an emerging novel pathogen that caused nationwide epidemics in the U.S. in 2015 and 2017. This presentation focuses on new information about virus properties, diagnostic testing, clinical signs, and treatment options for individual patients while managing risk for infection in a population setting.

AVIAN

THE CRITICAL BIRD: APPROACH & DECISION MAKING
Jennifer Graham
As a prey species, birds hide their signs of illness to avoid predation. This presentation will overview the approach and decision-making process for critical avian patients. Essentials of initial history taking, physical examination, and stabilization will be discussed along with common stabilization procedures and emergency presentations.

ANESTHESIA & ANALGESIA FOR CRITICAL BIRDS
Jennifer Graham
Many birds with emergency presentations have painful conditions and may benefit from the use of analgesics. Even though differences exist between birds and mammals, many of the same principles apply. This presentation overviews the basics of anesthesia and analgesia for critical birds.

AVIAN GERIATRIC MEDICINE: PARTS 1 & 2
Sharman Hoppes
Special needs of the geriatric avian patient will be discussed. Improved nutrition, husbandry and veterinary care has led to avian patients living longer. Along with increasing age comes geriatric health issues and diseases. Common health conditions, diagnostics and treatment protocols will be discussed.
MANAGEMENT OF AVIAN REPRODUCTIVE EMERGENCIES
Tracey Ritzman
Reproductive disease is a common cause of acute presentation of the avian patient. Egg retention, malformed eggs, ovarian disease and cloacal prolapse will be discussed. Diagnostic and treatment options for reproductive disease will be presented. How to make the decision of when to consider surgical care will be included.

AVIAN GASTROINTESTINAL DISEASES: PARTS 1 & 2
Sharman Hoppes
The avian gastrointestinal tract differs from the mammalian and these unique anatomical and physiological differences will be discussed along with common diseases that occur in the avian patient. This lecture will discuss the common viral and bacterial gastrointestinal diseases of the avian patient, the diagnostic work up and treatment protocols.

AVIAN RESPIRATORY EMERGENCIES
Jennifer Graham
After a description of anatomy and physiology of the avian respiratory system, an approach to the dyspneic patient is discussed. Diagnostics include radiographic imaging, ultrasound, cytology of sinus or tracheal flushes, and endoscopy. Essentials of patient evaluation, common stabilization procedures, and management of birds with respiratory emergencies will be discussed.

AVIAN PEDIATRIC MEDICINE
Sharman Hoppes
Special needs of the pediatric avian patient will be discussed. Young birds often have different nutritional and husbandry needs leading to different disease processes occurring in the pediatric patient. Common disease processes, diagnostics and treatment protocols will be addressed and age related changes in the diagnostic work up discussed.

AVIAN CARDIOLOGY
Sharman Hoppes
This lecture will discuss the common cardiac diseases in the avian patient along with the pertinent anatomy and physiology. Common presentations both in the day practice and emergency will be presented along with diagnostics and treatment protocols. Specific risk factors and actions to reduce those risk factors will be discussed.

AVIAN RENAL DISEASE
Jennifer Graham
The differences in avian and mammalian renal systems are important to consider when addressing renal disease in avian species. Renal disease is common in avian species, reported in up to 29.6% of disease conditions in poultry. Some sources of renal pathology include bacterial, viral, parasitic, toxic, neoplastic, and nutritionally-related causes.

EXOTIC COMPANION MAMMAL

DISEASES OF THE UROGENITAL SYSTEM OF EXOTIC COMPANION MAMMALS: PARTS 1 & 2
Sharman Hoppes
This lecture will cover the basic anatomy and physiology of the urogenital tract of the exotic companion mammal. Common urogenital diseases of the rabbit, rodent and ferret will be discussed along with diagnostics, treatment protocols and preventative care.

RESPIRATORY EMERGENCIES IN EXOTIC COMPANION MAMMALS: PARTS 1 & 2
Jennifer Graham
Exotic companion mammals may present with a variety of respiratory emergencies. Common ECM respiratory emergency presentations include pneumonia, cardiovascular disease, neoplasia, and others. This discussion will review unique anatomic and physiologic characteristics of the ECM respiratory tract followed by the stabilization, diagnostic, and management recommendations for common emergency respiratory presentations.
GI EMERGENCIES IN ECM: PARTS 1 & 2
Jennifer Graham
Common ECM gastrointestinal emergency presentations include RGIS (Rabbit Gastrointestinal Syndrome), dental disease, foreign body ingestion, gastrointestinal obstruction, diarrhea, among others. This discussion will highlight unique anatomic and physiologic characteristics of the ECM gastrointestinal tract followed by the stabilization, diagnostic, and management recommendations for common emergency GI presentations.

MANAGEMENT OF INTEGUMENTARY LESIONS IN THE EXOTIC COMPANION MAMMAL EMERGENCY & CRITICAL CARE PATIENT
Tracey Ritzman
Dermatological conditions can become urgent when a compromise in the dermal integrity leads to the potential for infection, hemorrhage or loss of function for the patient. This presentation will review the most common integumentary lesions in rabbits, ferret, guinea pigs, chinchillas and rodents. Primary and secondary dermatological conditions will be discussed. Emerging treatment modalities will be reviewed.

NEUROLOGICAL EMERGENCIES IN EXOTIC COMPANION MAMMALS
Tracey Ritzman
Acute presentation for neurological symptoms will be reviewed in this presentation. Topics will include traumatic etiologies, non-infectious conditions such as neoplasia or degenerative changes as well as infectious causes such as Encephalitozoonosis, viral and bacterial disease. Species specific conditions will be discussed.

MUSCULOSKELETAL DISORDERS IN EXOTIC COMPANION MAMMAL EMERGENCIES
Tracey Ritzman
This presentation will review the most common urgent/emergency musculoskeletal conditions of exotic companion mammals. Traumatic injuries such as fractures or luxation are a leading cause of musculoskeletal problems in exotic mammal patients. Geriatric patients can present with acute onset of chronic conditions such as age-related osteoarthritis and spondylosis.

CARDIOVASCULAR DISORDERS IN EXOTIC COMPANION MAMMAL EMERGENCIES
Tracey Ritzman
Cardiovascular disease is well documented in many exotic mammal species such as rabbits and ferrets. Acute presentation of cardiovascular collapse may reveal more chronic underlying cardiac or vascular disease. This presentation will review the most common types of emergent cardiovascular conditions in exotic mammals and how to best diagnose and treat.

OPHTHALMIC DISORDERS IN THE EXOTIC COMPANION MAMMAL EMERGENCY & CRITICAL CARE PATIENT
Tracey Ritzman
This presentation will review the most common emergency ocular conditions in rabbits, ferrets, guinea pigs, chinchillas and rodents. Ophthalmic emergencies include ocular trauma, proptosis, and foreign body injury to the eye, retrobulbar disease (abscess or neoplasia). Current diagnostic and treatment options will be discussed, including options for palliative care.

REPTILE & AMPHIBIAN

PHYSICAL EXAMINATION, TRIAGE & STABILIZATION OF THE CRITICAL REPTILE PATIENT
Stacey Leonatti Wilkinson
True emergencies may not be common, but do exist in reptile patients. More often acute manifestations of chronic conditions are seen. This lecture will outline the physical exam, triage, and stabilization of the critical patient, sometimes delaying treatment and diagnostics until the patient is more tolerant of handling or stress.

MANAGEMENT OF RENAL DISEASE IN PET REPTILES
Stacey Leonatti Wilkinson
Renal disease is extremely common in reptiles, and can present as an emergency even though it is more often an acute presentation of a chronic illness. Anatomy and physiology will be discussed along with current recommendations for diagnosis, stabilization, and treatment of renal disease in reptiles.
MUSCULOSKELETAL & DERMATOLOGIC EMERGENCIES IN REPTILES

Stacey Leonatti Wilkinson

Traumatic conditions involving the integument and the musculoskeletal system in pet reptiles are common reasons for presentation to the emergency veterinarian. Conditions such as bites or other wounds, burns, infections, dysecdysis, fractures, and shell injuries will be discussed along with proper triage, stabilization, and treatment.

CARDIORESPIRATORY EMERGENCIES IN REPTILES

Stacey Leonatti Wilkinson

Respiratory infections are a common cause of illness in reptiles and represent a majority of presentations to the veterinarian. Respiratory difficulty can be caused by other conditions of respiratory or cardiac origin as well. This lecture will cover causes of cardiorespiratory disease in reptiles along with their diagnosis and treatment.

GASTROINTESTINAL EMERGENCIES IN REPTILES

Stacey Leonatti Wilkinson

Gastrointestinal symptoms are a common reason pet reptiles are presented on emergency to the veterinarian. Common presenting complaints include regurgitation, constipation, diarrhea, or anorexia. Multiple causes for these symptoms can exist. These causes will be discussed in detail, along with the diagnosis and treatment of reptiles with gastrointestinal disease.

REPRODUCTIVE TRACT EMERGENCIES IN REPTILES

Stacey Leonatti Wilkinson

Reproductive tract disease is common in pet reptiles, and these patients commonly present on emergency. Pre- and post-ovulatory egg stasis, egg yolk coelomitis, and cloacal prolapses are commonly seen in all species. Anatomy and physiology of the reproductive tract, along with diagnosis and various treatment options will be discussed.

NEUROLOGICAL DISORDERS IN REPTILE EMERGENCIES

James Bogan

This presentation will review common neurological disorders seen in reptile emergency medicine. Neurological emergencies will often arise from trauma, infection, and nutritional deficiencies. A review of common presentations and disorders will be discussed.

CARDIOPULMONARY DISORDERS IN REPTILE EMERGENCIES

James Bogan

This presentation will review common cardiovascular disorders seen in reptile emergency medicine. Cardiovascular disorders are usually congenital anomalies or degenerative disorders. A review of common presentations and disorders will be discussed.

SEPTICEMIA IN REPTILE EMERGENCIES

James Bogan

A common disorder seen in herpetological medicine is septicemia. This is syndrome has been seen in all taxa. Identification and management of sepsis in reptiles will be reviewed.

ANALGESIA IN REPTILE EMERGENCIES

James Bogan

Trauma is a common presentation in reptile emergencies and control of pain associated with trauma and other painful disorders should be addressed. Pain and proper analgesia selection in reptiles will be reviewed.

REPTILE EMERGENCY MEDICINE? CASE REPORTS

James Bogan

This lecture includes a collection of challenging cases in reptile emergencies. Discussion includes signalment, history, diagnostic work-up, and case management.
Speakers

Heather Barron, DVM, DABVP (Avian Practice)

Pia Bartolini, CVT, VTS (CP-Exotics)

Laurie Beard, DVM, MS, DACVIM (LAIM)

Elizabeth Berliner, DVM, DABVP (Shelter Medicine Practice), DABVP (Canine and Feline Practice)

James Bogan, Jr., DVM, DABVP (Canine and Feline Practice), DABVP (Reptile and Amphibian Practice), CertAqV

Staci Cannon, DVM, MPH, DACVPM, DABVP (Shelter Medicine Practice)

Kim Carter

Audrey Cook, BVM&S, MRCVS Diplomate ACVIM-SAIM, ECVIM-CA, DABVP (Feline Practice), PG Dip Vet Ed

Victor Cortese, DVM, PhD, DABVP (Dairy Practice)

Étienne Côté, DVM, DACVIM (Cardiology), DACVIM (SAIM)

Cynda Crawford, DVM, PhD

Shelia D’Arpino, DVM, DACVB

Lena DeTar, DVM, DACVP

Jack Easley, DVM, MS, DABVP (Equine Practice), DAVDC (Eq)

Mark Epstein, DVM, DABVP (Canine and Feline Practice), CVPP

Jay N. Gladden, DVM, DACVECC

Jennifer Graham, DVM, DABVP (Avian Practice), DABVP (Exotic Companion Mammal Practice), DACZM

Tamara Grubb, DVM, PhD, DACVAA

Sharman Hoppes, DVM, DABVP (Avian Practice)

Jeff Husa, DVM, DABVP (Swine Health Management)

Rachel Kreisler, VMD, MSCE, DACVP

Stacey Leonatti Wilkinson, DVM, DABVP (Reptile and Amphibian Practice)

Julie Levy, DVM, PhD, DACVIM (SAIM), DABVP (Shelter Medicine Practice)

Gregory Lisciandro, DVM, DACVECC, DABVP (Canine and Feline Practice)

Juan Lubroth, DVM, MSc, PhD, MPhil, ACVPM - Chief of Veterinary Services for the United Nations

Sara Pizano, DVM, MA

Paula Plummer, LVT, VTS (ECC, SAIM)

Paul Rapnicki, DVM, MBA

R.F. "Ric" Redden, VMD, PhD, DABVP (Equine)

Tracey Ritzman, DVM, DABVP (Avian Practice), DABVP (Exotic Companion Mammal Practice)

Sheilah Robertson, BVMS (Hons), PhD, DACVAA, DECVAA, DACAW, DECAWBM (WSEL), MRCVS

Howard B. Seim III, DVM, DACVS

Kevin Washburn, DVM, DACVIM (LAIM), DABVP (Food Animal Practice)
SILENT AUCTION
Your support will assist with the call for abstracts as well as the awarding of clinical research grants, along with continuing to support the Denny French Fellowship.

CALL FOR ABSTRACTS
We invite veterinary students (under mentorship), practitioners, academicians and researchers interested in submitting abstracts of novel studies in practical and scientific topics related to one of the eleven recognized veterinary specialties within ABVP.

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ADDITIONAL SUPPORT RECEIVED FROM
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UNIVERSAL SURGICAL INSTRUMENTS

A special thank you to VIN for providing all the proceedings online and for hosting the cyber cafe.

ABVP SYMPOSIUM 2019

October 10-13, 2019 | Hilton Denver City Center

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