



NOVEMBER 12–15, 2015  
**PROGRAM**



# WELCOME TO THE 20TH ANNUAL ABVP SYMPOSIUM

## GENERAL INFORMATION

### LOCATION OF LECTURES

Please note all lectures, labs, luncheons, and social sessions are at the New Orleans Marriott unless otherwise noted. Specific room numbers and locations are noted throughout the schedule grid.

### 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.

### CONTINUING EDUCATION CREDITS

This program was reviewed and approved by the AAVSB RACE program for 119 hours of continuing education for veterinarians and 133 hours of continuing education for veterinary technicians. The maximum any one veterinarian or veterinary technician can earn is 27 hours. Participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education. Please contact the AAVSB RACE program if you have any comments/concerns regarding this program's validity or relevancy to the veterinary profession.



ABVP is also an approved sponsor of continuing education in the state of New York for veterinarians and veterinary technicians.



### CONTINUING EDUCATION CERTIFICATES

CE certificates will be emailed to you Sunday, Nov. 15. You may request a hard copy of the certificate be mailed to you following the Symposium.

### REGISTRATION DESK HOURS

Tuesday, Nov. 10	5 - 7 pm
Wednesday, Nov. 11	7:30 am - 5 pm
Thursday, Nov. 12	7:30 am - 5 pm
Friday, Nov. 13	6:30 am - 5 pm
Saturday, Nov. 14	6:30 am - 5 pm
Sunday, Nov. 15	6:30 am - 1 pm

### EXHIBIT HALL HOURS

Friday, Nov. 13	12:50 - 7 pm
Saturday, Nov. 14	8:50 am - 4:25 pm
Sunday, Nov. 15	8:50 - 11:10 am

### PROCEEDING NOTES

The Veterinary Information Network (VIN) has proceedings available online at their cyber café. If you purchased a paper copy of the proceedings, please pick it up at the registration desk. Copies are not for sale onsite.

### CANCELLATIONS

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

### 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 wait staff, please see an ABVP staff member for assistance.

## FEATURED EVENTS

Events are listed in the order they will occur.

### ABVP/AAHA KICK-OFF SEMINAR

Thursday, November 12, 1:00PM-4:50PM, Galerie 6

#### **Giving Clients What They Really Want: Understanding and Working with Today's Clients I and II** Karen Felsted and Karyn Gavzer

Pet visit growth continues to be anemic at many practices and, according to a new pet owner study from the Partners for Healthy Pets, pet owners are more concerned about cost and more comfortable stretching the space between visits than they were four years ago. In Part 1 of this four-part program, you will learn techniques to gain client commitment to pet care and how to give clients what they want, not what we want them to want. In Part 2 of this four-part program, you will learn how to improve both the value you offer pet owners and the perception of that value as well as new ideas to encourage commitment to regular pet preventive health care.

#### **Giving Clients What They Really Want: Sometimes it Really is About the Money** Karen Felsted and Karyn Gavzer

In Part 3 of this four-part program, you will learn techniques for making veterinary care more affordable by offering payment options - because sometimes it really is about the money.

#### **Giving Clients What They Really Want: How to Take on Dr. Google and Win!** Karen Felsted and Karyn Gavzer

In Part 4 of this four-part program, you will learn techniques to gain client commitment to pet care; how to work with the Internet and take on Dr. Google and win!

### AAFP WELCOME SESSION

Thursday, November 12, 1:00PM-4:50PM, Galerie 4-5

#### **Analgesia and Anesthesia for the Very Young and Much Older Cat** Sheilah Robertson

The very young and very old cat represent a vulnerable population that poses challenges when they require anesthesia and/or analgesia. This lecture will explain age related physiology and how it impacts on anesthetic and analgesic management.

#### **What's New Pussycat? New Therapies for Feline Analgesia and Anesthesia** Sheilah Robertson

Alfaxalone and Simbadol™ (buprenorphine injection) are now available in North America. These agents have expanded the options available to practitioners for feline anesthesia and analgesia. The pharmacology and clinical application of these agents will be discussed in depth.

#### **Assessing and Treating Chronic Pain. How "Meowch" do They Hurt?** Sheilah Robertson

Degenerative joint disease is common in cats. Because of their nature this disease is often difficult to assess but objective tools are being developed. Treatment can be successful although challenging because of comorbidities including renal disease.

# FEATURED EVENTS

## AAFP WELCOME SESSION, CONT.

### Anesthesia for Patients with Cardiac and Renal Disease

Sheilah Robertson

Renal and cardiac disease are common. Anesthesia in cats with one, or both of these diseases is challenging. With an understanding of the underlying abnormal physiology, anesthetic choices can be made to mitigate the risks in these patients.

### Bovine Foot Care Lab J. K. Shearer

Thursday, November 12, 1:00PM-5:00PM, Studio 9

This lab will include trimming and corrective trimming techniques, proper use of angle grinders to make the task easier, knife sharpening, and proper application of foot blocks in lame cows. We will also review IV regional and ring block anesthesia techniques and do surgical procedures such as surgical approaches to retro-articular space abscesses and localized digital sepsis conditions. We will also do facilitated ankyloses and claw amputation. Fee is \$200. Limited attendance. Lab will be held onsite.

### Regents' Reception



Thursday, November 12, 5:15PM-6:15PM,  
Riverview Room, 41st Floor

All attendees are welcome to attend this reception hosted by ABVP's Regents. It is the first opportunity of the Symposium to network with colleagues.

### Volunteer for ABVP

Thursday, November 12, 6:30PM-7:30PM, Studio 7

Are you an ABVP Diplomate and interested in being more involved in YOUR organization? Maybe you are interested in chairing a committee or serving on the Council of Regents? If you are interested and willing to devote time to your organization, please consider attending as we discuss getting more involved in YOUR organization.

### Committee Meetings

Thursday, November 12, 6:30PM-8:30PM

ABVP Outreach Committee, Studio 4

ABVP Foundation Board, Studio 3

### Cross Species



Friday, November 13, 8:00AM-11:50AM, Galerie 4-6

### Re-Thinking Pain: New Concepts in Neurobiology and Neuropharmacology of Prevention and Treatment

Mark Epstein

This session will drill deeply into current and emerging concepts of adaptive and maladaptive pain pathophysiology, with an exploration of therapeutic targets and modalities. Species differentiations will be addressed insofar as possible. Current and future applications for prevention and treatment of pain will be discussed.

### Welcome Reception

Friday, November 13, 5:00PM-6:30PM, Preservation Hall & Foyer

We invite everyone in attendance to join us in the exhibit hall for this annual event. Drinks will be available and exhibit booths will be open during this time.

### Maintenance of Certification Workshop

Friday, November 13, 6:30PM-7:30PM, Studio 9

Do you have questions about ABVP's maintenance of certification process? Attend this workshop to ask questions and learn suggestions for completing the process.

## SUNRISE SESSIONS

### Nutritional Approach to Chronic Kidney Disease in Dogs and Cats

Melinda Wood

Friday, Nov. 13, 6:45AM-7:45AM, Galerie 4-6

This session is an in-depth discussion of the nutritional management of chronic kidney disease (CKD) in cats and dogs, including relevant scientific literature supporting the use of renal diets in patients with CKD. Additionally, tips for when and how to implement a feeding plan to increase patient acceptance of renal diets will be covered.



### Feline Vaccines & Vaccination: Issues and Controversies

Rich Ford

Saturday, Nov. 14, 6:45AM-7:45AM, Galerie 4-5

Of all the questions surrounding companion animal vaccines and vaccination, nothing rivals the controversy surrounding the Feline Vaccination Protocol. From vaccines that are core (but provide incomplete protection) to vaccines that are non-core (and provide no measurable protection) to vaccines causing cancer...and, yes, even "tail vaccination". This presentation focuses on the current science behind feline vaccination recommendations.



### Update on Selected Infectious Diseases: Hot Topics for 2015

Julia Veir

Sunday, Nov. 15, 6:45AM-7:45AM, Galerie 4-5

Infectious diseases in small animal practice are very common. This presentation will include brief updates on vaccine strategies, diagnostic dilemmas, and treatments for both feline and canine diseases including leptospirosis, influenza, parvovirus, feline leukemia and other common diseases.



### Item Writing Workshop

Friday, November 13, 6:30PM-9:30PM, Studio 8

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 Certification Workshop

Friday, November 13, 6:30PM-9:30PM, Studio 2

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 new online platform? This session is designed to help answer all those questions and more. Any one interested in the certification process is encouraged to attend.

### AVTCP Board Meeting

Friday, November 13, 6:30PM-9:30PM, Studio 4

### ABVP Diplomate Meeting

Saturday, November 14, 4:00PM-4:45PM, Galerie 4-5

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.

*Continued on page 4*

# FEATURED EVENTS, CONT.

## AVTCP Q&A Session

Saturday, November 14, 4:00PM-4:45PM, Studio 4

All technicians are invited to participate in this workshop. Learn about AVTCP certification and the application process.



## Annual Awards Reception and Dinner

Saturday, November 14, 6:00PM Reception Galerie 1-3,

New Orleans Marriott, 6:45PM Depart Reception for

Arnaud's Restaurant, 7:25PM Dinner, Arnaud's Restaurant

We look forward to welcoming all attendees to this annual dinner where we recognize newly certified and recertified Diplomates. The 4th Annual Live Auction will be held following dinner with proceeds benefiting the ABVP Foundation. Reservations are required to attend. No tickets will be sold on-site.

## AFAST and TFAST; Lung Ultrasound the Global FAST for Patient Monitoring and CPR Gregory Lisciandro

Sunday, November 15, 8:00AM-11:50AM

Hands-on scanning of live dogs performing all three abbreviated ultrasound techniques of AFAST, TFAST and Vet BLUE. Lab is SOLD OUT.

# SYMPOSIUM SCHEDULE

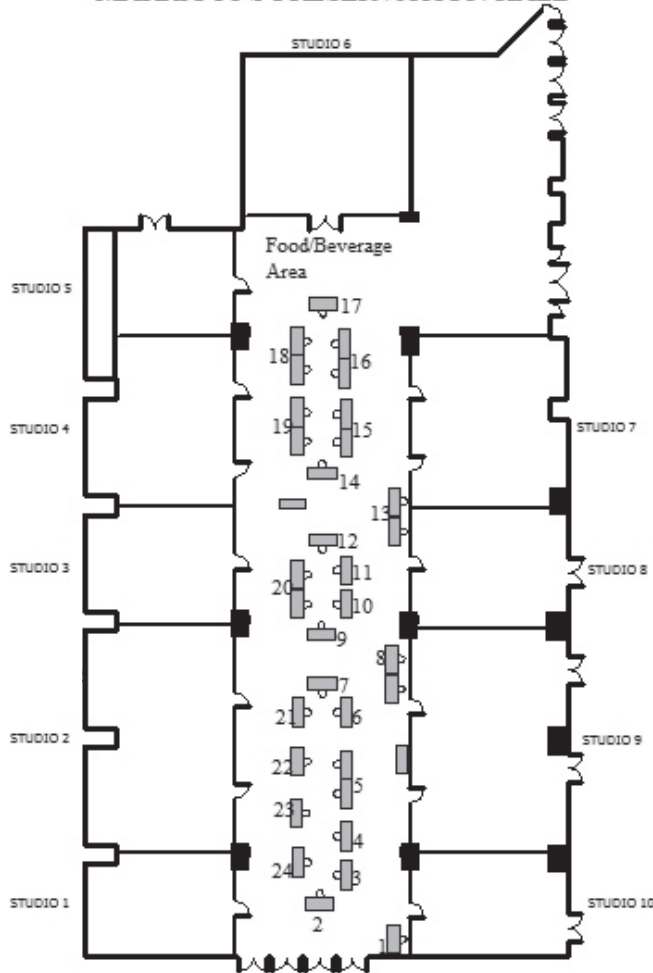
## THURSDAY, NOVEMBER 12

1:00PM-1:50PM	ABVP/AAHA Kick-Off Seminar: Giving Clients What They Really Want: Understanding and Working with Today's Clients I Karen Felsted and Karyn Gavzer (Galerie 6)	
2:00PM-2:50PM	ABVP/AAHA Kick-Off Seminar: Giving Clients What They Really Want: Understanding and Working with Today's Clients II Karen Felsted and Karyn Gavzer (Galerie 6)	
3:00PM-3:50PM	ABVP/AAHA Kick-Off Seminar: Giving Clients What They Really Want: Sometimes it Really is About the Money Karen Felsted and Karyn Gavzer (Galerie 6)	
4:00PM-4:50PM	ABVP/AAHA Kick-Off Seminar: Giving Clients What They Really Want: How to Take on Dr. Google and Win! Karen Felsted and Karyn Gavzer (Galerie 6)	
1:00PM-1:50PM	AAFP Welcome Session: What's New Pussycat? New Therapies for Feline Analgesia and Anesthesia Sheilah Robertson (Galerie 4-5)	
2:00PM-2:50PM	AAFP Welcome Session: Analgesia and Anesthesia for the Very Young and Much Older Cat Sheilah Robertson (Galerie 4-5)	
3:00PM-3:50PM	AAFP Welcome Session: Anesthesia for Patients with Cardiac and Renal Disease Sheilah Robertson (Galerie 4-5)	
4:00PM-4:50PM	AAFP Welcome Session: Assessing and Treating Chronic Pain. How "Meowch" do They Hurt? Sheilah Robertson (Galerie 4-5)	
1:00PM-5:00PM	Bovine Foot Care Lab J. K. Shearer (Limited attendance. Additional fee.) (Studio 9)	
5:15PM-6:15PM	Regents' Reception (Riverview, 41st Floor)	
6:30PM-7:30PM	Volunteer for ABVP (Studio 7)	
6:30PM-8:30PM	Committee Meetings	
6:30PM-8:30PM	Canine Cytology and Hematology Case Challenges A. Rick Alleman (Galerie 4-5)	

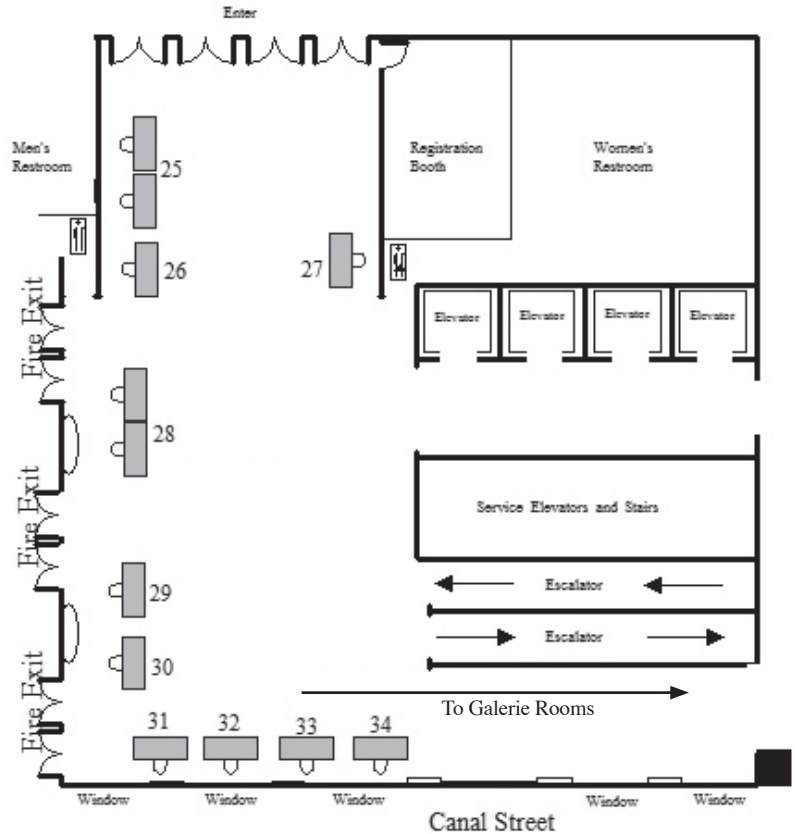


# SYMPOSIUM EXHIBITORS AND SPONSORS

MARRIOTT'S PRESERVATION HALL



MARRIOTT'S PRESERVATION HALL FOYER



**AKC Reunite, Booth 17**

www.akcreunite.org  
800-252-7894

**American Board of Veterinary Practitioners Foundation (ABVP), Booth 19**

www.abvp.com  
800-697-3583

**Anderson Products, Booth 33**

www.anpro.com  
336-376-3000

**Association of Shelter Veterinarians (ASV), Booth 32**

www.sheltervet.org  
609-483-8682

**Academy of Veterinary Technicians in Clinical Practice (AVTCP), Booth 22**

www.avtcp.org

**Bayer Healthcare\*, Booth 5**

www.bayerlivestock.com  
800-633-3796

**Boehringer Ingelheim\*, Booth 18**

www.bi-vetmedica.com  
816-236-8229

**Companion Therapy Laser by**

**LiteCure, Booth 21**

www.companiontherapy.com  
302-709-0408

**CryoProbe, Booth 24**

www.cryoprobe-na.com  
888-248-2838

**Cutting Edge Laser Technologies, Booth 4**

www.celasers.com  
800-889-4184

**Dan Scott & Associates, Booth 10**

www.danscottandassociates.com  
614-890-0370

**Dechra\*, Booth 28**

www.dechra-us.com  
913-327-0015

**Diamondback Drugs, Booth 3**

www.diamondbackdrugs.com  
866-646-2223

**Elanco\*, Booth 9**

www.elanco.com  
318-609-8713

**Ellman, A Cynosure Company, Booth 16**

www.ellman.com  
516-594-3333

**Elsevier, Booth 25**

www.elsevierhealth.com  
215-239-3900

**Emeraid, LLC, Booth 13**

www.emeraid.com  
815-358-2301

**Gulf Coast Veterinary Specialists, Booth 30**

www.gcvss.com  
713-693-1111

**Hot Dog Patient Warming, Booth 14**

www.vetwarming.com  
866-484-3505

**Humane Society Veterinary Medical Association (HSVMA), Booth 11**

www.hsvma.org  
530-759-8106

**Infiniti Medical, Booth 26**

www.infinitimedical.com  
650-327-5000

**Karl Storz, Booth 27**

www.karlstorz.com  
800-955-7832

**Maddie's Shelter Medicine, University of Florida, Booth 23**

www.sheltermedicine.vetmed.ufl.edu/certificate-programs.online/  
813-818-9100

**MDS, Booth 20**

www.mds.net  
813-335-2296

**Merial\*, Booth 8**

www.merial.com  
678-638-0000

**Nutramax Laboratories, Booth 1**

www.nutramaxlabs.com  
800-925-5187

**Ogena Solutions, Booth 7**

www.ogenasolutions.com  
905-664-2125

**Roadrunner Pharmacy, Booth 29**

www.roadrunnerpharmacy.com  
877-518-4589

**Royal Canin\*, Booth 6**

www.royalcanin.com  
310-510-6540

**Servet USA.com, Booth 12**

www.servetusa.com  
720-252-1531

**Sound\*, Booth 2**

www.soundvet.com  
800-268-5358

**Universal Imaging, Booth 34**

www.universalimaginginc.com  
914-666-6200

**VetImmune LLC/Sass & Sass, Inc., Booth 31**

www.vetimmune.com  
209-600-7070



**Wiley, Booth 15**

www.wiley.com  
215-913-0416

\*Denotes Symposium Sponsor

# SYMPOSIUM SCHEDULE

## FRIDAY, NOVEMBER 13

	AVIAN, EXOTIC COMPANION MAMMAL, & REPTILE AND AMPHIBIAN COMBINED <b>STUDIO 2</b>	CANINE <b>GALERIE 4-5</b>	FELINE <b>GALERIE 6</b>
7:00AM-7:50AM	Sunrise Session & Continental Breakfast:Nutritional Approach to Chronic Kidney Disease in Dogs and Cats <i>Melinda Wood (Galerie 4-5)</i> 		
8:00AM-11:50AM	Cross Species: Re-Thinking Pain: New Concepts in Neurobiology and Neuropharmacology of Prevention and Treatment <i>Mark Epstein (Galerie 4-5)</i> 		
11:50AM-12:50PM	Networking Lunch ( <b>Galerie 1-3</b> )		
12:50PM-1:50PM	Exhibit Hall Opening Dessert in Exhibit Hall, ( <b>Preservation Hall and Foyer</b> )		
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	1:30PM-2:50PM Pragmatic Evidence-Based Veterinary Medicine in Private Practice <i>Brennen McKenzie</i>	1:50PM-2:40PM Understanding the Transmission of Tick-Borne Pathogens with Public Health Implications <i>A. Rick Alleman</i>	1:50PM-2:40PM Anesthesia Equipment - Safety Considerations for Feline Patients <i>Heidi Shafford</i>
2:40PM-3:00PM	Break in Exhibit Hall		
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	3:00PM-3:40PM Vaccine Roulette: What do We Know About Ferret Distemper Virus Vaccination? <i>Angela Lennox</i>	2:55PM-3:45PM More Than Just <i>E. canis</i> : The Increasingly Complicated Story of Ehrlichiosis <i>A. Rick Alleman</i>	2:55PM-3:45PM Options for Airway Control in Cats <i>Heidi Shafford</i>
3:40PM-4:00PM	Break in Exhibit Hall		
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	3:50PM-4:30PM Current Drug Therapy in Reptiles <i>Douglas Mader</i>	4:00PM-4:50PM What We Know About <i>Anaplasmosis</i> and <i>Borreliosis</i> and What We do Not <i>A. Rick Alleman</i>	4:00PM-4:50PM Anesthetic and Analgesic Medication Update for Cats <i>Heidi Shafford</i>
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	4:30PM-5:10PM Elevated Liver Enzymes do Not Liver Disease Make: Using Evidence to Make a Diagnosis <i>Angela Lennox</i>		
5:00PM-6:30PM	Welcome Reception ( <b>Preservation Hall and Foyer</b> )		
6:30PM-7:30PM	Maintenance of Certification Workshop <i>Mike Dutton and Craig Datz (Studio 9)</i>		
6:30PM-9:30PM	Item Writing Workshop <i>Dennis French (Studio 8)</i>		
6:30PM-9:30PM	ABVP Certification Workshop <i>Stephen Pittenger, Carondelet Nollner, and Kimberlee Buck (Studio 2)</i>		
6:30PM-9:30PM	AVTCP Board Meeting ( <b>Studio 4</b> )		



SHELTER STUDIO 9	EQUINE STUDIO 8	FOOD ANIMAL STUDIO 10	AVTCP (TECHNICIAN) STUDIO 4
Sunrise Session & Continental Breakfast: Nutritional Approach to Chronic Kidney Disease in Dogs and Cats <i>Melinda Wood (Galerie 4-5)</i>			8:00AM-12:00PM
Cross Species: Re-Thinking Pain: New Concepts in Neurobiology and Neuropharmacology of Prevention and Treatment <i>Mark Epstein (Galerie 4-5)</i>			AVTCP Exams
Networking Lunch (Galerie 1-3)			
Exhibit Hall Opening Dessert in Exhibit Hall, (Preservation Hall and Foyer)			
1:50PM-2:40PM Evidence-Based Medicine and Study Design <i>Gary Patronek</i>	1:50PM-2:40PM Pain Recognition and Management in Horses <i>Chris Sanchez</i>	1:50PM-2:40PM From Plate to PGFE <i>Linda Tikofsky</i>	1:50PM-2:40PM CANINE AND FELINE - When There is an ER in Your GP <i>Brandy Sprunger-Helewa</i>
Break in Exhibit Hall			
2:55PM-3:45PM Critical Reading of the Scientific Literature <i>Gary Patronek</i>	2:55PM-3:45PM Top 10 Equine Medicine Papers of 2015 <i>Chris Sanchez</i>	2:55PM-3:45PM Microbe or Monster? <i>Linda Tikofsky</i>	2:55PM-3:45PM CANINE AND FELINE - Instituting Morbidity and Mortality Rounds for Technicians <i>Brandy Sprunger-Helewa</i>
Break in Exhibit Hall			
4:00PM-4:50PM Designing, Writing, and Getting Your Study Published <i>Gary Patronek</i>	4:00PM-4:50PM Equine Gastric Ulcer Syndrome: One Disease or Many? <i>Chris Sanchez</i>	4:00PM-4:50PM Udder Health Risk Assessments: Identifying Opportunities to Prevent Mastitis <i>Linda Tikofsky</i>	4:00PM-4:50PM CANINE AND FELINE - Using Kirby's Rule of Twenty to Create Nursing Care Plans <i>Brandy Sprunger-Helewa</i>
Welcome Reception (Preservation Hall and Foyer)			
Maintenance of Certification Workshop <i>Mike Dutton and Craig Datz (Studio 9)</i>			
Item Writing Workshop <i>Dennis French (Studio 8)</i>			
ABVP Certification Workshop <i>Stephen Pittenger, Carondelet Nollner, and Kimberlee Buck (Studio 2)</i>			
AVTCP Board Meeting (Studio 4)			






SATURDAY, NOVEMBER 14	AVIAN STUDIO 2	EXOTIC COMPANION MAMMAL STUDIO 3	REPTILE AND AMPHIBIAN STUDIO 1	CANINE GALERIE 4-5
7:00AM-7:50AM	Sunrise Session & Continental Breakfast: Feline Vaccines & Vaccination: Issues and Controversies <i>Rich Ford (Galerie 4-5)</i> 			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	8:00AM-9:50AM	8:00AM-9:50AM	8:00AM-8:50AM	8:00AM-8:50AM
8:50AM-9:00AM	Feather Damaging Behavior I: Current Insights on Etiologies and Diagnostic Approach to the Problem <i>Yvonne van Zeeland</i>	The Use of GnRh Analogs to Treat Endocrine and Reproductive Disease in Exotic Companion Mammals. What Works and Why? <i>Lauren Powers</i>	Reptile Anatomy <i>Doug Mader</i>	Canine Bartonellosis: Diagnosis, Treatment, and Public Health Implications <i>A. Rick Alleman</i>
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.			Break in Exhibit Hall	
			9:00AM-9:50AM	9:00AM-9:50AM
			Gout in Reptiles <i>Doug Mader</i>	Rickettsiosis and Babesiosis: New Players in the Field? <i>A. Rick Alleman</i>
9:50AM-10:00AM	Break in Exhibit Hall 			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	10:00AM-11:50AM	10:00AM-10:50AM	10:00AM-10:50AM	10:00AM-10:50AM
		Why so Many Options for Dental Abscesses in Rabbits? <i>Lauren Powers</i>	Clinical Neurology in Reptiles <i>Doug Mader</i>	Case Challenges in Canine Tick-Borne Diseases <i>A. Rick Alleman</i>
10:50AM-11:00AM	Feather Damaging Behavior II: Medicine vs. Management. Therapeutic Considerations for Feather Damaging Behavior <i>Yvonne van Zeeland</i>	Break in Exhibit Hall		
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.		11:00AM-11:50AM	11:00AM-11:50AM	11:00AM-11:50AM
		What is Causing That Ferret Gastrointestinal Disease? <i>Tracey Ritzman</i>	Reptilian Dermatology <i>Doug Mader</i>	Case-Based Applications of Abdominal FAST (AFAST) and its Abdominal Fluid Scoring System for Trauma, Triage, and Tracking I (Pre-Requisite for the AFAST, TFAST and Vet BLUE Lab) <i>Gregory Lisciandro</i>
11:50AM-12:50PM	Networking Lunch			
1:00PM-1:50PM	Cockatoo Prolapse Syndrome - Distinguishing Facts from Fiction <i>Yvonne van Zeeland</i>	Encephalitozoon Cuniculi in Rabbits: What do We Know About Diagnosis and Treatment <i>Tracey Ritzman</i>	Reptilian Gastroenterology <i>Doug Mader</i>	Case-Based Applications of Abdominal FAST (AFAST) and its Abdominal Fluid Scoring System for Trauma, Triage, and Tracking II (Pre-Requisite for the AFAST, TFAST and Vet BLUE Lab) <i>Gregory Lisciandro</i>
1:50PM-2:00PM	Break in Exhibit Hall			
2:00PM-2:50PM	Medical and Surgical Management and Outcomes for Other Oviductal and Ovarian Disorders in Companion Birds <i>Lauren Powers</i>	Encephalitozoon Cuniculi in Rabbits: Treatment Options Continued, Controversies and Preventative Medicine <i>Tracey Ritzman</i>	Evaluating the Renal System in Reptiles <i>Doug Mader</i>	Case-Based Applications of Thoracic FAST (TFAST) for Trauma, Triage, and Tracking (Pre-Requisite for the AFAST, TFAST and Vet BLUE Lab) <i>Gregory Lisciandro</i>
2:50PM-3:00PM	Break in Exhibit Hall			
3:00PM-3:50PM	What do We Think We Know About Atherosclerosis? Older Studies vs. Current Research <i>Lauren Powers</i>	A Case of the Wrong Antibiotic? When Rabbit Respiratory Disease Won't Respond! <i>Tracey Ritzman</i>	Anesthesia and Analgesia in Reptiles: Theory and Case Reviews <i>Javier Nevarez</i>	Lung Ultrasound in Animals, The Vet BLUE (Bedside Lung Ultrasound Exam) for Respiratory Distress (Pre-Requisite for the AFAST, TFAST and Vet BLUE Lab) <i>Gregory Lisciandro</i>
4:00PM-4:45PM	ABVP Diplomate Meeting (Galerie 4-5)			
4:00PM-4:45PM	AVTCP Q&A Session (Studio 4)			
6:00PM-9:00PM	Annual Awards Reception and Dinner Reservation Required (Arnaud's) 			



FELINE GALERIE 6	SHELTER MEDICINE STUDIO 9	EQUINE STUDIO 8	FOOD ANIMAL STUDIO 10	AVTCP (TECHNICIAN) STUDIO 4
Sunrise Session & Continental Breakfast: Feline Vaccines & Vaccination: Issues and Controversies <i>Rich Ford</i> (Galerie 4-5) 				
8:00AM-8:50AM  Serenity Now: Sedation Options for Cats <i>Heidi Shafford</i>	8:00AM-8:50AM  <b>Boehringer Ingelheim</b>  The Human Cost of One of Medicine's Kindest Acts <i>J.K. Shearer</i>	8:00AM-8:50AM  Inflammatory Conditions of the Equine Gastrointestinal Tract <i>Chris Sanchez</i>	8:00AM-8:50AM  Mastitis Therapy: To Treat or not to Treat? <i>Linda Tikofsky</i>	8:00AM-8:50AM  CANINE AND FELINE - Now What? How to Take Your Career from Graduate to Professional <i>Brandy Sprunger-Helewa</i>
Break in Exhibit Hall				
9:00AM-9:50AM  Blood Pressure Monitoring in Anesthetized Cats <i>Heidi Shafford</i>	9:00AM-9:50AM  <b>Association of Shelter Veterinarians</b>  Veterinary Task Force to Advance Spay-Neuter - Revised Spay-Neuter Guidelines <i>Philip Bushby</i>	9:00AM-9:50AM  Equine Cryptorchidism: Should I Cut This Cryptorchid in the Field? <i>P.O. Eric Mueller</i>	9:00AM-9:50AM  The Numbers Have It: Evaluating Udder Health with SCC Records <i>Linda Tikofsky</i>	9:00AM-9:50AM  CANINE AND FELINE - A Little Fat Can be Good! Using Intravenous Lipid Therapy in Toxicities <i>Brandy Sprunger-Helewa</i>
Break in Exhibit Hall 				
10:00AM-10:50AM  Anesthesia for Cats with Heart Disease <i>Heidi Shafford</i>	10:00AM-10:50AM  <b>Association of Shelter Veterinarians</b>  Veterinary Task Force to Advance Spay-Neuter - Revised Spay-Neuter Guidelines Panel Discussion <i>Philip Bushby</i>	10:00AM-10:50AM  Management of Equine Distal Limb Wounds...Practice Builder vs. Non-Practice Builder Wounds <i>P.O. Eric Mueller</i>	10:00AM-10:50AM  Troubleshooting Bacteria Counts <i>Linda Tikofsky</i>	10:00AM-10:50AM  CANINE AND FELINE - What's in the Cupboards? Common Household Toxins <i>Brandy Sprunger-Helewa</i>
Break in Exhibit Hall				
11:00AM-11:50AM  Capnography <i>Heidi Shafford</i>	11:00AM-11:50AM  <b>Boehringer Ingelheim</b>  Clinical Research Abstracts:  Effect of cage size on the behaviors of cats housed in an animal shelter <i>Cristie Kamiya</i>  Evaluation of community risk to canine parvovirus and canine distemper using antibody testing and GIS mapping of animal shelter intakes <i>Matthew Krecic &amp; Miranda Spindel</i>	11:00AM-11:50AM  Management of Equine Skin Tumors... Practice Builder vs. Non-Practice Builder Tumors <i>P.O. Eric Mueller</i>	11:00AM-11:50AM  Apply the Knowledge: Practical Case Studies <i>Linda Tikofsky</i>	11:00AM-11:50AM  CANINE AND FELINE - Not so Cute - Acute Anaphylaxis <i>Brandy Sprunger-Helewa</i>
Networking Lunch				
Diabetes Update I: Insulin Therapy <i>Thomas Graves</i>	Clinical Research Abstracts:  <b>Boehringer Ingelheim</b>  Electromyographic analysis of needle-holder grasps used by HQHVSN veterinarians while suturing <i>Sara White</i>  Peri-operative morbidity associated with routine sterilization surgeries performed on a mobile surgical service <i>Uri Donnett</i>	Rectal Examination: What am I Really Feeling? A Laparoscopic Perspective <i>P.O. Eric Mueller</i>	Practical Dairy Nutrition I <i>Jonathan Townsend</i>	EXOTICS - Nursing Care "Down Below" I <i>Lorelei Tibbetts</i>
Break in Exhibit Hall				
Diabetes Update II: Challenging Cases in Cats <i>Thomas Graves</i>	 <b>Boehringer Ingelheim</b>  The Emotional Brain of Cats <i>Nadine Gourkow</i>	Recent Advances and Prognosis Associated with Surgical Diseases of the Equine Acute Abdomen <i>P.O. Eric Mueller</i>	Practical Dairy Nutrition II <i>Jonathan Townsend</i>	EXOTICS - Nursing Care "Down Below" II <i>Lorelei Tibbetts</i>
Break in Exhibit Hall				
Diabetes Update III: Diabetic Emergencies <i>Thomas Graves</i>	Link Between Emotions and Health <i>Nadine Gourkow</i>	Interactive Clinical Case Discussions Using an Audience Response System <i>P.O. Eric Mueller</i>	Practical Dairy Nutrition III <i>Jonathan Townsend</i>	EXOTICS - Spaying and Neutering of Small Mammals <i>Lorelei Tibbetts</i>
ABVP Diplomate Meeting (Galerie 4-5)				
AVTCP Q&A Session (Studio 4)				
Annual Awards Reception and Dinner Reservation Required (Arnaud's) 				

# SYMPOSIUM SCHEDULE

## SUNDAY, NOVEMBER 15

	AVIAN&EXOTIC COMPANION MAMMAL COMBINED STUDIO 2	REPTILE AND AMPHIBIAN STUDIO 1	CANINE GALERIE 4-5	CANINE LAB SOLD OUT
7:00AM-7:50AM	Sunrise Session & Continental Breakfast: Update on Selected Infectious Diseases: Hot Topics for 2015 <i>Julia Veir (Galerie 4-5)</i> 			
8:00AM-8:50AM	Update on Pharmacology of Therapeutic Agents in Birds and Exotic Companion Mammals <i>Lauren Powers</i>	Clinical Anatomy and Physiology of Amphibians <i>Javier Nevarez</i>	Pathophysiology of Canine Pruritus <i>Candace Sousa</i> 	AFAST, TFAST and Vet BLUE Canine Lab <i>Gregory Lisciandro</i>
8:50AM-9:00AM	Break in Exhibit Hall			
9:00AM-9:50AM	Generating Evidence in Private Practice <i>Brennen McKenzie</i>	How I Approach Respiratory Disease in Reptiles: Anatomy, Physiology, and Case Reviews <i>Javier Nevarez</i>	Nutritional Management of Allergic Dermatoses <i>Craig Datz</i> 	AFAST, TFAST and Vet BLUE Canine Lab <i>Gregory Lisciandro</i>
9:50AM-10:00AM	Break in Exhibit Hall			
10:00AM-10:50AM	EBM Discussion <i>Brennen McKenzie</i>	Introduction to Crocodilians: Unique Anatomy and Diseases <i>Javier Nevarez</i>	Treatment of Canine Pruritus <i>Candace Sousa</i> 	AFAST, TFAST and Vet BLUE Canine Lab <i>Gregory Lisciandro</i>
10:50AM-11:00AM	Break in Exhibit Hall			
11:00AM-11:50AM	Panel Discussion	Animal Welfare of Reptile Species <i>Javier Nevarez</i>	The Science of Monoclonal Antibody Therapy <i>Candace Sousa</i> 	AFAST, TFAST and Vet BLUE Canine Lab <i>Gregory Lisciandro</i>

## LECTURE DESCRIPTIONS

Lectures are listed by track and then in the order they will be presented.

### ABVP/AAHA KICK-OFF SEMINAR

**Giving Clients What They Really Want: Understanding and Working with Today's Clients I and II** *Karen Felsted and Karyn Gavzer*

Pet visit growth continues to be anemic at many practices and, according to a new pet owner study from the Partners for Healthy Pets, pet owners are more concerned about cost and more comfortable stretching the space between visits than they were four years ago. In Part 1 of this four-part program, you will learn techniques to gain client commitment to pet care and how to give clients what they want, not what we want them to want. In Part 2 of this four-part program, you will learn how to improve both the value you offer pet owners and the perception of that value as well as new ideas to encourage commitment to regular pet preventive health care.

**Giving Clients What They Really Want: Sometimes it Really is About the Money** *Karen Felsted and Karyn Gavzer*

In Part 3 of this four-part program, you will learn techniques for making veteri-

nary care more affordable by offering payment options - because sometimes it really is about the money.

**Giving Clients What They Really Want: How to Take on Dr. Google and Win!** *Karen Felsted and Karyn Gavzer*

In Part 4 of this four-part program, you will learn techniques to gain client commitment to pet care; how to work with the Internet and take on Dr. Google and win!

### AAFP WELCOME SESSION

**What's New Pussycat? New Therapies for Feline Analgesia and Anesthesia** *Sheilah Robertson*  
Alfaxalone and Simbadol™ (buprenorphine injection) are now available in North America. These agents have expanded the options available to practitioners for feline anesthesia and analgesia. The pharmacology and clinical application of these agents will be discussed in depth.

**Analgesia and Anesthesia for the Very Young and Much Older Cat** *Sheilah Robertson*

The very young and very old cat represent a vulnerable population that poses challenges when they require anesthesia and/or analgesia. This lecture will explain age related physiology and how it impacts on anesthetic and analgesic management.

**Anesthesia for Patients with Cardiac and Renal Disease**

*Sheilah Robertson*  
Renal and cardiac disease are common. Anesthesia in cats with one, or both of these diseases is challenging. With an understanding of the underlying abnormal physiology, anesthetic choices can be made to mitigate the risks in these patients.

**Assessing and Treating Chronic Pain. How "Meowch" do They Hurt?**

*Sheilah Robertson*  
Degenerative joint disease is common in cats. Because of their nature this disease is often difficult to assess but objective tools are being developed. Treatment can be successful although challenging because of comorbidities including renal disease.

### SUNRISE SESSIONS






**Nutritional Approach to Chronic Kidney Disease in Dogs and Cats** *Melinda Wood*

This session is an in-depth discussion of the nutritional management of chronic kidney disease (CKD) in cats and dogs, including relevant scientific literature supporting the use of renal diets in patients with CKD. Additionally, tips for when and how to implement a feeding plan to increase patient acceptance of renal diets will be covered.

**Feline Vaccines & Vaccination: Issues and Controversies** *Rich Ford*

Of all the questions surrounding companion animal vaccines and vaccination, nothing rivals the controversy surrounding the Feline Vaccination Protocol. From vaccines that are core (but provide incomplete protection) to vaccines that are non-core (and provide no measurable protection) to vaccines causing cancer...and, yes, even "tail vaccination". This presentation focuses on the current science behind feline vaccination recommendations.



FELINE GALERIE 6	SHELTER MEDICINE STUDIO 9	EQUINE STUDIO 8	FOOD ANIMAL STUDIO 10	AVTCP (TECHNICIAN) STUDIO 4
Sunrise Session & Continental Breakfast: Update on Selected Infectious Diseases. Hot Topics for 2015 <i>Julia Veir</i> (Galerie 4-5) 				
Hyperthyroidism 2015 <i>Thomas Graves</i>	Assessing Mental Health in Cats I <i>Nadine Gourkow</i> 	Catastrophic Equine Limb Failure: The Case for Amputation and Prosthesis I <i>Ted Vlahos</i>	Practical Dairy Nutrition IV <i>Jonathan Townsend</i>	EXOTICS - Spaying and Neutering of Birds and Reptiles <i>Lorelei Tibbetts</i>
Break in Exhibit Hall				
Calcium Disorders in Cats <i>Thomas Graves</i>	Assessing Mental Health in Cats II <i>Nadine Gourkow</i> 	Catastrophic Equine Limb Failure: The Case for Amputation and Prosthesis II <i>Ted Vlahos</i>	Practical Dairy Nutrition V <i>Jonathan Townsend</i>	EXOTICS - How to Prepare for the Unexpected I <i>Lorelei Tibbetts</i>
Break in Exhibit Hall				
Feline Adrenal Disease <i>Thomas Graves</i>	Emotions, Immunity, and Respiratory Health <i>Nadine Gourkow</i> 	Regenerative Medicine: Stem Cell Therapy in Equine Clinical Practice <i>Ted Vlahos</i>	Practical Dairy Nutrition VI <i>Jonathan Townsend</i>	EXOTICS - How to Prepare for the Unexpected II <i>Lorelei Tibbetts</i>
Break in Exhibit Hall				
Diabetic Remission: An Evidence- Based Approach <i>Thomas Graves</i>	Interactive Talk on the Assessment of Cats in Animal Shelters <i>Nadine Gourkow</i> 	Regenerative Medicine: Plasma Therapies in Equine Clinical Practice <i>Ted Vlahos</i>	Practical Dairy Nutrition VII <i>Jonathan Townsend</i>	EXOTICS - How to Utilize Technicians for Maximum Profit <i>Lorelei Tibbetts</i>

## Update on Selected Infectious Diseases. Hot Topics for 2015

*Julia Veir*

Infectious diseases in small animal practice are very common. This presentation will include brief updates on vaccine strategies, diagnostic dilemmas, and treatments for both feline and canine diseases including leptospirosis, influenza, parvovirus, feline leukemia and other common diseases.

## CROSS SPECIES

### Re-Thinking Pain: New Concepts in Neurobiology and Neuropharmacology of Prevention and Treatment *Mark Epstein*

This session will drill deeply into current and emerging concepts of adaptive and maladaptive pain pathophysiology, with an exploration of therapeutic targets and modalities. Species differentiations will be addressed insofar as possible. Current and future applications for prevention and treatment of pain will be discussed.

## AVIAN, EXOTIC COMPANION MAMMAL, AND REPTILE AND AMPHIBIAN COMBINED

### Pragmatic Evidence-Based Veterinary Medicine in Private Practice *Brennen McKenzie*

The basic steps of the EBVM process will be reviewed, and examples of how these can be applied in real time to common clinical situations will be discussed. Useful tools and shortcuts will also be presented to allow busy practitioners to integrate relevant research evidence more explicitly and consistently in their practice.

### Vaccine Roulette: What do We Know About Ferret Distemper Virus Vaccination? *Angela Lennox*

Distemper in ferrets is associated with very high mortality. Despite overall low incidence, vaccination is recommended, but complicated by the current absence of an approved vaccine. Alternatives include vaccination with a non-approved vaccine, and delaying

re-vaccination based on recent information on post-vaccination distemper titers.

### Current Drug Therapy in Reptiles

*Douglas Mader*

A review of several Pk studies on reptile therapeutics will be presented. The strengths and weaknesses of these studies will be discussed.

### Elevated Liver Enzymes do Not Liver Disease Make: Using Evidence to Make a Diagnosis

*Angela Lennox*

Diagnosis of liver disease can be challenging in birds and should not be limited to the appearance of elevated so-called "liver enzymes". Evidence suggests liver disease is varied and common, and requires a thorough approach, often including liver biopsy.

## AVIAN

### Feather Damaging Behavior I: Current Insights on Etiologies and Diagnostic Approach to the Problem *Yvonne van Zeeland*

Feather damaging behavior is a common behavior problem in captive psit-

tacines, for which many etiologies have been proposed. This lecture will provide an in-depth discussion on the hypothesized causes, including their scientific evidence and diagnostic approach.

### Feather Damaging Behavior II: Medicine vs. Management. Therapeutic Considerations for Feather Damaging Behavior *Yvonne van Zeeland*

Determining the best therapeutic strategy for a feather damaging parrot can be challenging. This lecture focuses on the current (and future) medical and management options to treat and prevent feather damaging behavior, including the evidence to support their efficacy.

### Cockatoo Prolapse Syndrome – Distinguishing Facts from Fiction *Yvonne van Zeeland*

As suggested by its name, cockatoo prolapse syndrome is common in cockatoos. Many causes have been proposed, but what is really known, and where is the evidence supporting the assumptions? These and other questions will be discussed during the lecture.

*continued on page 12*

# LECTURE DESCRIPTIONS

Lectures are listed in the order they will be presented.

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## **Medical and Surgical Management and Outcomes for Other Oviductal and Ovarian Disorders in Companion Birds** Lauren Powers

Reproductive diseases are common in the female companion bird, especially in smaller avian species such as cockatiels, budgerigars, and lovebirds. Obtaining a definitive diagnosis for ovarian diseases and some oviductal diseases can be challenging at best. Many ovarian and oviductal diseases are difficult to treat, such as chronic egg laying, oviductal rupture or torsion, and yolk peritonitis.

## **What do We Think We Know About Atherosclerosis? Older Studies vs. Current Research**

Lauren Powers

Several avian species are used as research models for human atherosclerosis, such as domestic chickens and white Carneau pigeons. Much is known about the pathophysiology of the disease in these species. However, very little is known about atherosclerosis in other avian species commonly kept as companion birds such as parrots. Clinical signs are often vague and a definitive premortem diagnosis is challenging

at best. Treatment will likely not resolve atherosclerotic lesions or reverse the vascular damage. Prevention of disease is preferred, but little evidence is available to help the clinician guide clients on how to prevent atherosclerosis in their pet bird.

## **CANINE**

### **Canine Cytology and Hematology Case Challenges** A. Rick Alleman

Case illustrations will be used to recognize the cytological and hematological changes present in various neoplastic processes and disorders of the blood.

### **Understanding the Transmission of Tick-Borne Pathogens with Public Health Implications**

A. Rick Alleman

The process of tick feeding is a complex interaction between the tick and the mammalian host. During this process pathogens may be acquired by the tick or transmitted from the tick. The factors affecting pathogen acquisition and transmission will be discussed along with the clinical manifestations of tick-borne illnesses and how to prevent disease transmission.

### **More Than Just *E. canis*: The Increasingly Complicated Story of Ehrlichiosis** A. Rick Alleman

For decades, *Ehrlichia canis* has long been recognized as the cause of canine ehrlichiosis. However, recent advances have resulted in knowledge that may be contrary to this belief. This presentation will discuss the various *Ehrlichia* species that infect dogs, some of which are zoonotic pathogens. The clinical manifestations of these infections and how to diagnose and treat disease will also be reviewed.

### **What We Know About Anaplasmosis and Borreliosis and What We do Not** A. Rick Alleman

Anaplasma and Borrelia may cause clinical disease or subclinical infections in dogs. This presentation will review the clinical manifestations of these infections, how to diagnose infection, and the treatment options that need to be considered when confronted with both clinical and carrier states.

### **Canine Bartonellosis: Diagnosis, Treatment, and Public Health Implications** A. Rick Alleman

The impact of infection with Bartonella

species goes far beyond the traditional concept of cat scratch disease. Bartonella infections can have an insidious onset of a myriad of clinical manifestations that can be challenging to diagnose. This presentation reviews the potential problems associated with canine Bartonellosis, the difficulties in diagnosing infection, the impact on co-infections, and the occupational risks of veterinarians and veterinary health care workers.

### **Rickettsiosis and Babesiosis: New Players in the Field?** A. Rick Alleman

For decades, *Rickettsia rickettsia* and *Babesia canis* have long been recognized as the causative agents of Rocky Mountain spotted fever and canine Babesiosis, respectively. However, recent advances have resulted in knowledge that may be contrary to this belief. This presentation will discuss the various *Rickettsia* and *Babesia* species that infect dogs, some of which are zoonotic pathogens. The clinical manifestations of these infections and how to diagnose and treat disease will also be reviewed.

continued on page 14

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## SUNRISE SESSION

### INFECTIOUS DISEASE

*Update on Selected Infectious Diseases:  
Hot Topics for 2015*

With Dr. Julia Veir, DVM

**Sunday, November 15, 2015**

**7:00 am – 7:50 am • Galerie 4-5**



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# LECTURE DESCRIPTIONS

Lectures are listed in the order they will be presented.

continued from page 12

## Case Challenges in Canine Tick-Borne Diseases A. Rick Alleman

Using case illustrations, this presentation reviews the clinical manifestations and potential for misdiagnosis of selected tick-borne infections in the dog.

## Case-Based Applications of Abdominal FAST (AFAST) and its Abdominal Fluid Scoring System for Trauma, Triage, and Tracking I and II (Pre-Requisite for the AFAST, TFAST and Vet BLUE Lab)

Gregory Lisciandro

The lecture will cover the evolution of FAST, its advantages over radiography for the detection of free fluid, and AFAST and its fluid scoring system's application to dogs and cats with blunt and penetrating trauma (trauma), with undifferentiated hypotension and collapse including anaphylaxis, non-traumatic hemoabdomen, pericardial effusion (triage), and post-interventionally including the intra-abdominal bleed, uroabdomen, septic abdomen (tracking [monitoring]) in helping make more expedient diagnoses and evidence-based decisions regarding medical vs. surgical management of cases.

## Case-Based Applications of Thoracic FAST (TFAST) for Trauma, Triage, and Tracking (Pre-Requisite for the AFAST, TFAST and Vet BLUE Lab) Gregory Lisciandro

The lecture will cover how to perform TFAST and case-based applications of TFAST to trauma, triage, and tracking including pleural effusion, different subsets of pericardial effusion, and pneumothorax and lung contusions.

## Lung Ultrasound in Animals, The Vet BLUE (Bedside Lung Ultrasound Exam) for Respiratory Distress (Pre-Requisite for the AFAST, TFAST and Vet BLUE Lab) Gregory Lisciandro

The lecture will cover basic lung ultrasound findings (dry vs. wet lung [ultrasound lung rockets]) and more advanced lung ultrasound findings (Shred Sign, Tissue Sign, and Nodule Sign), which are easily teachable lung ultrasound findings. The ultrasound probe is the new modern stethoscope and effectively rules out and rules in rapidly, with minimal patient restraint, the most common causes of respiratory distress in dogs and cats expediting diagnosis and directing therapy, especially regarding diuretic usage.

## AFAST, TFAST and Vet BLUE Canine Lab (SOLD OUT. Offsite.)

Gregory Lisciandro

Hands-on scanning of live dogs performing all three abbreviated ultrasound techniques of AFAST, TFAST and Vet BLUE.

## Pathophysiology of Canine Pruritus Candace Sousa

Understanding the pathophysiology of any disease is the first step in deciding which are the most effective therapies. The past decade has produced new science around the immune mechanisms involved in allergic skin disease that has changed the way we approach these conditions.

## Nutritional Management of Allergic Dermatoses Craig Datz

Cutaneous adverse food reaction and atopic dermatitis are examples of skin disorders that have the potential to be managed nutritionally. A discussion of diets, nutrients, and supplements that may help dogs with these and similar conditions will be presented.

## Treatment of Canine Pruritus Candace Sousa

Pruritus is one of the most common reasons owners seek veterinary help for their dog. Deciding how to treat depends on the reason for the itch and the mode of action and the side effects of the medication.

## The Science of Monoclonal Antibody Therapy Candace Sousa

Monoclonal antibodies are a new therapeutic area in both human and veterinary medicine. What they are, how they're made, how targets are selected, how they're metabolized and what the future holds will be discussed.

## EQUINE

### Pain Recognition and Management in Horses Chris Sanchez

This talk will cover recognition of subtle painful behavior in horses. The pros and cons of various agents within each class of drugs used for equine analgesia will be discussed, focusing on relevant recent research.

### Top 10 Equine Medicine Papers of 2015

Chris Sanchez

Ten research reports will be presented in a "news hour" fashion. These papers are, in the lecturer's opinion, extremely relevant to the practice of equine medicine.

## Equine Gastric Ulcer Syndrome: One Disease or Many?

Chris Sanchez

Equine gastric ulcer syndrome (EGUS) is a disease of many faces. The difference in clinical presentation and response to treatment between glandular and non-glandular ulceration as well as gastroduodenal ulcer disease in foals will be discussed.

## Inflammatory Conditions of the Equine Gastrointestinal Tract

Chris Sanchez

Many commonly encountered gastrointestinal conditions in horses have an inflammatory component. Important diagnostic testing and principles of treatment will be discussed for acute colitis, proximal enteritis, and inflammatory bowel diseases in horses.

## Equine Cryptorchidism: Should I Cut This Cryptorchid in the Field?

P.O. Eric Mueller

A discussion regarding diagnostic tests, history, and decision making when presented with a cryptorchid horse. Do you attempt the surgery at your practice, or refer it to a surgical facility?

## Management of Equine Distal Limb Wounds...Practice Builder vs. Non-Practice Builder Wounds

P.O. Eric Mueller

A discussion regarding the diagnosis, treatment, and prognosis of distal limb wounds, including those involving osseous and synovial structures.

## Management of Equine Skin Tumors... Practice Builder vs. Non-Practice Builder Tumors

P.O. Eric Mueller

A discussion regarding the diagnosis, various treatments, and associated recurrence rates of common equine tumors.

## Rectal Examination: What am I Really Feeling? A Laparoscopic Perspective P.O. Eric Mueller

Interactive animations and laparoscopic videos will be utilized to demonstrate technique and interpretation of rectal examination for the horse with the acute abdomen. The practitioner will be able to actually see what he is feeling during the rectal examination.

## Recent Advances and Prognosis Associated with Surgical Diseases of the Equine Acute Abdomen P.O. Eric Mueller

Learn firsthand what happens once the horse is admitted to the referral center

continued on page 16



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<sup>1</sup>Compared with dry diet alone.

**References:** 1. Data on file, Merial, Inc. 2. Steinberg D, Beeman D, Bowen W. The effect of delmopinol on glucosyltransferase adsorbed on to saliva-coated hydroxyapatite. *Archs Oral Biol.* 1992;37:33-38. 3. Vassilakos N, Arnebrant T, Rundergren J. In vitro interactions of delmopinol hydrochloride with salivary films adsorbed at solid/liquid interfaces. *Caries Res.* 1993;27:176-182.

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# LECTURE DESCRIPTIONS

Lectures are listed in the order they will be presented.

*continued from page 14*

as far as evaluation, client discussions, available treatments, and prognosis.

## **Interactive Clinical Case Discussions Using an Audience Response System** *P.O. Eric Mueller*

A variety of clinical cases will be presented that highlight the topics and concepts that were presented through the day. Attendee participation will be encouraged and facilitated through the use of the popular Turning Point® interactive software program.

## **Catastrophic Equine Limb Failure: The Case for Amputation and Prosthesis I and II** *Ted Vlahos*

In cases of severe injury to the equine limb where fracture configuration, sepsis, or vascular injury render traditional means of repair impossible, amputation and prosthesis provide the equine patient with a viable option for long-term success. Indications, procedures, and long-term patient care will be discussed.

## **Regenerative Medicine: Stem Cell Therapy in Equine Clinical Practice** *Ted Vlahos*

This lecture will discuss current research and treatment modalities for the use of adult stem cells.

## **Regenerative Medicine: Plasma Therapies in Equine Clinical Practice** *Ted Vlahos*

This lecture will discuss current research and treatment modalities for PRP, ACP, and IRAP plasma products.

## **EXOTIC COMPANION MAMMAL**

### **The Use of GnRH Analogs to Treat Endocrine and Reproductive Disease in Exotic Companion Mammals. What Works and Why?**

*Lauren Powers*

GnRH agonists such as leuprolide acetate and deslorelin acetate induce an initial surge in FSH and LH and subsequent down regulation and suppression of reproductive hormone release. GnRH agonists are most commonly used for the medical management of adrenocortical disease in domestic ferrets, although other clinical uses of these agents in exotic companion mammals have been reported.

### **Why so Many Options for Dental Abscesses in Rabbits?**

*Lauren Powers*

Chronic dental disease and odontogenic abscesses are very common in domestic rabbits. Although a variety

of medical and surgical treatment options for odontogenic abscesses have been described in the peer-reviewed veterinary literature, there is an overall lack of evidence-based data and multi institutional studies regarding treatment outcomes. This lack of data can easily confound the practitioner when attempting to select the best treatment option for individual rabbits.

### **What is Causing That Ferret Gastrointestinal Disease?** *Tracey Ritzman*

Ferrets often experience gastrointestinal disease. Clinical signs often include abnormal fecal production, change in appetite or body condition, and rarely vomiting. This presentation will review current information on ferret gastrointestinal diseases, diagnostic options, and optimal treatment.

### **Encephalitozoon Cuniculi in Rabbits: What do We Know About Diagnosis and Treatment**

*Tracey Ritzman*

Encephalitozoon Cuniculi is an infectious disease of rabbits that can lead to neurological, renal, or other symptoms. This presentation will review the disease in pet rabbits, present current information in regards to the clinical signs, and diagnosis of this condition.

### **Encephalitozoon Cuniculi in Rabbits: Treatment Options Continued, Controversies and Preventative Medicine** *Tracey Ritzman*

Encephalitozoon Cuniculi is an infectious disease of rabbits that can lead to neurological, renal, or other symptoms. This presentation will review the treatment options, statistics in regards to treatment success, controversies in regards to treatment, prognosis, and preventative medicine options.

### **A Case of the Wrong Antibiotic? When Rabbit Respiratory Disease Won't Respond!**

*Tracey Ritzman*

This presentation will review clinical signs, diagnostic options, and how to formulate a treatment plan for the rabbit patient with respiratory disease. Prognosis and emerging trends with respiratory disease will be discussed and will include an evidence-based medicine approach.

## **FELINE**

### **Anesthesia Equipment - Safety Considerations for Feline Patients** *Heidi Shafford*

The following safety concerns will be addressed in this lecture: 1) minimizing exposure to anesthetic waste

gases, 2) ensuring appropriate delivery of oxygen and inhaled anesthetic, 3) elimination of carbon dioxide from the patient circuit, and 4) preventing physical harm to patients.

### **Options for Airway Control in Cats** *Heidi Shafford*

This lecture will compare and contrast options for securing the feline airway during anesthesia, including traditional endotracheal tubes and newer supraglottic airway devices. Tools and tips for difficult intubation will be covered.

### **Anesthetic and Analgesic Medication Update for Cats** *Heidi Shafford*

Newer anesthetic and analgesic medications will be reviewed, including, Simbadol, Alfaxan, Onsiar, and Propofol 28.

### **Serenity Now: Sedation Options for Cats**

*Heidi Shafford*

Medication options for relieving stress and anxiety in cats will be discussed in the context of pre-clinic, in-clinic, and pre-anesthesia.

### **Blood Pressure Monitoring in Anesthetized Cats** *Heidi Shafford*

Options for monitoring blood pressure in anesthetized cats will be compared and contrasted. Approach to management of low blood pressure will be discussed.

### **Anesthesia for Cats with Heart Disease**

*Heidi Shafford*

Anesthetic screening, support, monitoring, and medication strategies for feline patients will be discussed. Case examples will be used to illustrate instructor's approach to anesthesia for medically-fragile cats.

### **Capnography** *Heidi Shafford*

The use and value of capnography in monitoring anesthesia will be discussed.

### **Diabetes Update I: Insulin Therapy** *Thomas Graves*

This is the first of three hours on feline diabetes. The latest information on insulin formulations and indications for their use will be discussed, as well as information on diabetic remission in cats.

### **Diabetes Update II: Challenging Cases in Cats** *Thomas Graves*

This session will feature challenging cases of diabetes in cats. Knowledge of recent trends in diabetes will be used to make critical choices on the

diagnosis and treatment of diabetes in domestic and wild cats. This will be presented in a case-based interactive format.

### **Diabetes Update III: Diabetic Emergencies** *Thomas Graves*

An interactive case-based approach will be used to understand the clinical problems of ketoacidosis and hyperosmolar syndrome in diabetic cats. An evidence-based approach will be used to formulate diagnostic and treatment plans, including fluid therapy, insulin therapy, and the interpretation of electrolyte panels and blood gases.

### **Hyperthyroidism 2015**

*Thomas Graves*

Important concepts about hyperthyroidism will be reviewed, including disease prevalence, risk factors, and possible causes of the disease. Recently published new information on thyroid scintigraphy, dietary therapy, hypertension, and the effects of iatrogenic hypothyroidism on renal function and survival in cats will be presented.

### **Calcium Disorders in Cats**

*Thomas Graves*

The pathophysiology and calcium/phosphorus disorders in cats will be reviewed, followed by an interactive problem-solving discussion of a difficult case of hypercalcemia in a cat.

### **Feline Adrenal Disease**

*Thomas Graves*

Adrenal diseases are considered uncommon in cats, but they may be more common than we think. This session will provide an update on the most current knowledge of Cushing's syndrome, hormone-secreting adrenal tumors, and Addison's disease in cats.

### **Diabetic Remission: An Evidence-Based Approach** *Thomas Graves*

## **FOOD ANIMAL**

### **Bovine Foot Care Lab (Limited attendance. Additional fee. Onsite.)**

*J. K. Shearer*

This lab will include trimming and corrective trimming techniques, proper use of angle grinders to make the task easier, knife sharpening, and proper application of foot blocks in lame cows. We will also review IV regional and ring block anesthesia techniques and do surgical procedures such as surgical approaches to retro-articular space abscesses and localized digital sepsis conditions. We will also do facilitated ankyloses and claw amputation.

**From Plate to PGFE** *Linda Tikofsky*  
Mastitis diagnostics are evolving rapidly beyond the simple blood agar plate. We will review currently available diagnostics and what is on the horizon and discuss opportunities and limitations with each of these technologies.

**Microbe or Monster?** *Linda Tikofsky*  
Diagnostics discussed in session one have blurred the lines between the categories of contagious and environmental and identified new pathogens. We'll look at common presentations of select mastitis pathogens and exceptions to the rules, as well as understanding the emerging pathogens.

**Udder Health Risk Assessments: Identifying Opportunities to Prevent Mastitis** *Linda Tikofsky*

Creating excellent quality milk is more than treating mastitis. To ensure our dairies remain profitable and consumer confidence in our products high, our focus needs to be on mastitis prevention and best management practices. We will walk through a thorough udder health risk assessment on a 'virtual' dairy.

**Mastitis Therapy: To Treat or not to Treat?**

*Linda Tikofsky*  
Cow factors (parity, mastitis severity, chronicity), pathogen factors (genus/species, virulence, location of infection), and treatment factors (drug choice, distribution, and pharmacokinetics) should all be reviewed prior to instituting mastitis therapy. Culture based treatment protocols will be discussed to improve treatment outcomes and to practice judicious use of antimicrobials on the dairy. Culture based treatment protocols will be discussed to improve treatment outcomes and to practice judicious use of antimicrobials on the dairy.

**The Numbers Have It: Evaluating Udder Health with SCC Records**

*Linda Tikofsky*  
Clinical mastitis is just one part of the milk quality puzzle. Improving udder health involves a deeper look into somatic cell count dynamics using Dairy Comp 305. Feel free to bring your laptop to load an example herd and work along with the group. We'll also review some easy commands to quickly evaluate udder health.

**Troubleshooting Bacteria Counts**

*Linda Tikofsky*  
As our export market grows and processors are dictating standards for milk quality, veterinarians' responsibilities go beyond assessing bulk milk somatic cell counts. A review of bacteria counts commonly evaluated by processors, organisms responsible for elevated counts, and troubleshooting resources will be discussed.

**Apply the Knowledge: Practical Case Studies** *Linda Tikofsky*

This interactive session will allow attendees to evaluate three dairies with milk quality issues, identify risk factors for mastitis, and create management plans to improve udder health.

**Practical Dairy Nutrition I, II, III, IV, V, VI, VII** *Jonathan Townsend*

These lectures will provide attendees a solid foundation in understanding dairy nutrition. Topics that will be covered include basics in intake regulation, requirements for fiber, energy, protein, macrominerals, trace minerals, and vitamins. The use and evaluation of additives will also be discussed. Additional time will be spent on hands-on ration formulation and troubleshooting herd

nutritional issues. Questions and on-farm examples are greatly encouraged.

**REPTILE AND AMPHIBIAN**

**Reptile Anatomy** *Doug Mader*

A combination of diagrams, dissections, and radiographs will be used to demonstrate the most salient features of clinical reptilian anatomy.

**Gout in Reptiles** *Doug Mader*

Gout, one of the most common metabolic diseases seen in captive herpetofauna, is a complicated disease. Although extensively studied in human medicine, little is known about the condition in herps. This hour will review all that is known regarding diagnosis and treatment.

**Clinical Neurology in Reptiles**

*Doug Mader*  
A review of reptilian neurology will be done which will be followed by common diseases seen in captivity. The hour will be concluded with a series of videos demonstrating how to perform a proper neurological examination.

*continued on page 18*



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# LECTURE DESCRIPTIONS

Lectures are listed in the order they will be presented.

continued from page 17

**Reptilian Dermatology** *Doug Mader*  
Normal skin will be covered followed by the most common causes of dermatopathology. Diagnostic techniques and therapy will be discussed.

## **Reptilian Gastroenterology**

*Doug Mader*

This rarely discussed topic will review the normal GI anatomy and function of the reptilian patient. Common disorders and treatments will be discussed. The presentation is image heavy concentrating on microscopic and endoscopic evaluation.

## **Evaluating the Renal System in Reptiles**

*Doug Mader*

The lecture will review the common renal diseases found in reptilian patients and then discuss the diagnostic approaches available to help make those diagnoses.

## **Anesthesia and Analgesia in Reptiles: Theory and Case Reviews**

*Javier Nevarez*

This presentation will review the most up to date information on anesthesia and analgesia of reptiles. Actual case presentations will be discussed to showcase the application of the principles learned.

## **Clinical Anatomy and Physiology of Amphibians**

*Javier Nevarez*

This presentation will provide an in depth review of the anatomy and physiology of amphibians while highlighting clinical application of the concepts discussed.

## **How I Approach Respiratory Disease in Reptiles: Anatomy, Physiology, and Case Reviews**

*Javier Nevarez*

This presentation will discuss the diagnosis and treatment of respiratory diseases in reptiles based on an understanding of their respiratory anatomy and physiology.

## **Introduction to Crocodilians: Unique Anatomy and Diseases**

*Javier Nevarez*

This presentation will introduce basic concepts of crocodilian anatomy, physiology, and their diseases.

## **Animal Welfare of Reptile Species**

*Javier Nevarez*

The presentation will review behaviors of reptile species and their consideration during physical examination and husbandry. Welfare considerations for euthanasia of reptiles will also be reviewed.

## **AVIAN AND EXOTIC COMPANION MAMMAL COMBINED**

### **Update on Pharmacology of Therapeutic Agents in Birds and Exotic Companion Mammals**

*Lauren Powers*

This lecture will review research updates in pharmacology of therapeutic agents in birds and exotic companion mammals, including antimicrobial agents, analgesics, cardiovascular drugs, anticonvulsants, psychoactive medications, and other drugs.

### **Generating Evidence in Private Practice**

*Brennen McKenzie*

This lecture will discuss the different types of research evidence that can be generated in private practice and how this can be produced and disseminated to build the evidence base and encourage more evidence-based clinical practice.

### **EBM Discussion**

*Brennen McKenzie*  
The development of EBM within the avian and exotic practice, not academia, will be discussed. Focus will also be given to controlled trials in private practice.

### **Panel Discussion**

This will be a panel discussion to answer questions and begin the process of formulating specific goals and initiatives to promote greater implementation of EBVM among ABVP specialists and to encourage the generation of high-quality evidence in private practice.

## **SHELTER MEDICINE**

### **Evidence-Based Medicine and Study Design**

*Gary Patronek*

Strengths and limitations of various types of studies in the "pyramid of causation" (e.g., expert opinion, case study, case series, non-randomized observational studies, randomized trials, systematic reviews and meta-analyses), as well as studies typically considered 'outside' of the chain of causation, will be presented and discussed using examples from the clinical literature.

### **Critical Reading of the Scientific Literature**

*Gary Patronek*

Using extensive examples from published papers, indications for further probing of claims and/or evidence from citations will be illustrated. Topics covered include understanding the difference between statistical and clinical significance, detecting 'magnifying'

effects arising from sample size and/or presentation of data, relevance of choice of outcomes assessed, identifying population of inference and assessing generalizability of results, standardized tracking participants, role of subgroup analysis, and data mining issues.

### **Designing, Writing, and Getting Your Study Published**

*Gary Patronek*

This lecture will cover how you select a journal that best matches your study design, how existing guidelines (CONSORT, STROBE, REFLECT) can be used to improve a study at the design stage, and will provide tips for optimizing the structure and writing of each section of a paper.

### **The Human Cost of One of Medicine's Kindest Acts**

*J.K. Shearer*

The motivation for most that apply to veterinary school is to save lives and improve the well-being of animals. The idea of ending life in animals doesn't figure into the equation of what veterinary students presume they must learn, nor do most veterinary curriculums offer sufficient instruction in euthanasia techniques or how to cope with the emotional issues that accompany these tasks. The human toll can be great.

### **Veterinary Task Force to Advance Spay-Neuter - Revised Spay-Neuter Guidelines**

*Philip Bushby*

In 2008 the Association of Shelter Veterinarians (ASV) developed and published Veterinary Care Guidelines for Spay-neuter Programs. The intent was to ensure a consistent high quality level of care for patients in high-volume spay-neuter clinics. In 2014 the ASV reconvened a task force for the specific purpose of revising the guidelines to meet current standards.

### **Veterinary Task Force to Advance Spay-Neuter - Revised Spay-Neuter Guidelines Panel Discussion**

*Philip Bushby*

A panel consisting of members of the ASV task force to advance spay-neuter will answer specific questions related to the revisions to the ASV Veterinary Medical Care Guidelines for Spay-neuter Programs.

### **Clinical Research Abstracts**

"Effect of cage size on the behaviors of cats housed in an animal shelter"

*Cristie Kamiya*

The purpose of this study is to document the behavior differences in adult cats admitted to a shelter and housed in two different cage types.

"Clinical Research Abstract: Evaluation of community risk to canine parvovirus and canine distemper using antibody testing and GIS mapping of animal shelter intakes" *Matthew Krecic & Miranda Spindel*

The purpose of this study is to (1) assess antibody titers against canine parvovirus and canine distemper virus in the dog population entering a large municipal shelter and (2) evaluate the association between intake of dogs with clinical signs of canine parvovirus and distemper with areas in the community where canines have low titer immunity.

"Electromyographic analysis of needle-holder grasps used by HQHSN veterinarians while suturing"

*Sara White*

The purpose of this study was to examine variations in muscular force and muscle use patterns between surgeons using different grasps while suturing.

"Peri-operative morbidity associated with routine sterilization surgeries performed on a mobile surgical service"

*Uri Donnett*

The purpose of this study was to determine the peri-operative morbidity rate for animals receiving sterilization services through the Humane Ethics and Animal Welfare program at Mississippi State University, a mobile surgical service established in 2007.

### **The Emotional Brain of Cats**

*Nadine Gourkow*

Overview of research on neural network of emotions in cats spanning from early 1900's to today.

### **Link Between Emotions and Health**

*Nadine Gourkow*

Overview of research in psychoneuro-immunology with a focus on cats.

### **Assessing Mental Health in Cats I and II**

*Nadine Gourkow*

Overview of the development of a validated tool to measure emotional states of cats. Assessment protocols for assessing emotional health of cats in animal shelters, veterinary clinics, and catteries.

### **Emotions, Immunity, and Respiratory Health**

*Nadine Gourkow*

Overview of various treatments to enhance mental health of cats and their effect on immunity and health.

### **Interactive Talk on the Assessment of Cats in Animal Shelters**

*Nadine Gourkow*

This talk will present a science-based



tool for the assessment of emotional states and associated stress in shelter cats followed by an interactive discussion and practice of assessment with workshop participants.

## AVTCP

### **CANINE AND FELINE - When There is an ER in Your GP**

*Brandy Sprunger-Helewa*

Emergency patients can present to general practices in any number of ways. Having a prepared staff and an appropriately equipped facility can help stabilize or save a patient. Many of the things needed in emergency situations are already in general practices and are used every day. There are also several medications and supplies that could easily be purchased to have ready for emergencies that may come in, most of which are fairly reasonable in cost.

### **CANINE AND FELINE - Instituting Morbidity and Mortality Rounds for Technicians**

*Brandy Sprunger-Helewa*

This will be a lecture on the history of Morbidity & Mortality (M&M) Rounds and how they are used in the veterinary profession. We will also discuss how to set up M&M rounds in the hospital, how to get employees to attend, and ways to present cases. We will also go over how M&M rounds can be important for receptionists and other veterinary team staff as a way to capture charges, improve client communication, and employee retention.

### **CANINE AND FELINE - Using Kirby's Rule of Twenty to Create Nursing Care Plans**

*Brandy Sprunger-Helewa*

This lecture will be on the use of Kirby's Rule of Twenty to develop a plan to ensure all parameters are being met in our critical patients. This will include a rule-by-rule discussion on different ways to monitor those parameters with and without equipment. Discussion of how each parameter is necessary for the next one to be correctly monitored will also be included.

### **CANINE AND FELINE - Now What? How to Take Your Career from Graduate to Professional**

*Brandy Sprunger-Helewa*

This will be a discussion on the many paths veterinary technicians can take in their careers. It will include strategies to become a VTS, lecturer or instructor as well as some discussion on interpersonal communications, goal setting, and networking. We will also discuss the topic of salary and how to boost technician income.

### **CANINE AND FELINE - A Little Fat Can be Good! Using Intravenous Lipid Therapy in Toxicities**

*Brandy Sprunger-Helewa*

A discussion on the history, studies done, and use of intravenous lipid emulsion (ILE) therapy in toxicities including which toxins its use is ideal for. Includes discussion on the availability, administration, contraindications, and potential side effects of ILE use.

### **CANINE AND FELINE - What's in the Cupboards? Common Household Toxins**

*Brandy Sprunger-Helewa*

This will be a discussion of the most common toxicities seen from common household items and the basics for how to treat them. These include human medications, cleaners, insecticides, human food, and more. We will also go over decontamination, common antidotes, and new treatment modalities currently being studied.

### **CANINE AND FELINE - Not so Cute - Acute Anaphylaxis**

*Brandy Sprunger-Helewa*

A discussion on the differences between true anaphylaxis and allergic reactions as well as defining the term anaphylactic shock. A basic lesson on immunology is included along with causes for anaphylaxis and allergic reactions. We will also discuss the pathophysiology that leads to potential death as well as treatments and prevention methods.

### **EXOTICS - Nursing Care "Down Below" I**

*Lorelei Tibbetts*

Part one will focus on exotic mammals. It will include commonly treated problems such as urine scalding, dystocia, diarrhea, papillomatosis, trauma, parasite infestation, syphilis, and more. It will cover the etiology of these problems and how to address the nursing concerns technicians are faced with.

### **EXOTICS - Nursing Care "Down Below" II**

*Lorelei Tibbetts*

Part two will focus on birds and reptiles. Topics will include egg binding, tumors, prolapses (oviductal, cloacal, and colon), hemipene issues, impactions, abscesses, and more. Etiology of disease and how technicians can best address their nursing concerns will be covered.

### **EXOTICS - Spaying and Neutering of Small Mammals**

*Lorelei Tibbetts*  
This presentation will cover all aspects of why and how we spay and neuter pet

exotic mammals. It will discuss reasons for spaying and neutering as well as the differences in how technicians should handle this common procedure. It will include analgesia, anesthesia, and peri-operative nursing techniques.

### **EXOTICS - Spaying and Neutering of Birds and Reptiles**

*Lorelei Tibbetts*  
This presentation will include reasons for emergency or necessary surgery vs. the idea of preventative spaying and neutering. It will include the special peri-operative concerns of these patients, including pain management, setting up of the surgical suite, and how to recover some of these delicate animals.

### **EXOTICS - How to Prepare for the Unexpected I**

*Lorelei Tibbetts*  
Part one will focus on issues such as obtaining a urine sample from a bird, when a rabbit screams, reptiles that won't wake up, and even how to manage panicking owners. It will cover many of the unexpected and challenging situations technicians are often faced with and how to make them right.

### **EXOTICS - How to Prepare for the Unexpected II**

*Lorelei Tibbetts*  
Part two of this series will continue preparing exotics technicians for the unexpected things that often happen when routine things end up not being very routine. What to do when exotic pets stop breathing, putting catheters in pets with unique anatomy, and how to handle the bizarre client communications exotic technicians often have to deal with.

### **EXOTICS - How to Utilize Technicians for Maximum Profit**

*Lorelei Tibbetts*

Through the presenter's personal experience managing an exclusively exotic practice, these ideas are meant to maximize the abilities of well-trained licensed veterinary technicians in order to not only create profit, but also to give better customer service and allow technicians to be used to their fullest extent.

## SPEAKERS

A. Rick Allemann, DVM, PhD, DABVP (Canine and Feline Practice), DACVP  
Philip Bushby, DVM, MS, DACVS  
Craig Datz, DVM, MS, DABVP (Canine and Feline Practice, Feline Practice), DACVN  
Mark E. Epstein, DVM, DABVP (Canine and Feline Practice), CVPP  
Karen Felsted, CPA, MS, DVM, CVPM, CVA  
Rich Ford, DVM, DACVIM, DACVPM (Hon)  
Karyn Gavzer, MBA, CVPM  
Nadine Gourkow, DVM, MSc (Animal Welfare), PhD (Veterinary Science)  
Thomas K. Graves, DVM, MS, PhD, DACVIM  
Liz Hughston, MEd, RVT, CVT, VTS (SAIM ECC)  
Angela Lennox, DVM, DABVP (Avian Practice, Exotic Companion Mammal Practice)  
Gregory R. Lisciandro, DVM, DABVP (Canine and Feline Practice), DACVECC  
Douglas Mader, MS, DVM, DABVP (Canine and Feline Practice, Reptile and Amphibian Practice), DECZM (Herpetology), FRSM  
Brennen McKenzie, MA, VMD  
P.O. Eric Mueller, DVM, PhD  
Javier G. Nevarez, DVM, PhD, DACZM, DECZM (Herpetology)  
Gary J. Patronek, VMD, PhD  
Lauren V. Powers, DVM, DABVP (Avian Practice, Exotic Companion Mammal Practice)  
Tracey K. Ritzman, DVM, DABVP (Avian Practice, Exotic Companion Mammal Practice)  
Sheilah A. Robertson, BVMS (Hons), PhD, DACVAA, DECVA, DACAW, DECAWBM (WSEL), MRCVS  
Chris Sanchez, DVM, PhD, DACVIM  
Heidi L. Shafford, DVM, PhD, DACVAA  
J.K. Shearer, DVM, MS, DACAW  
Candace A. Sousa, DVM, DABVP (Canine and Feline Practice), DACVD  
Lorelei Tibbetts, LVT, VTS (Clinical Practice-Exotics)  
Linda Tikofsky, DVM  
Jonathan Townsend, DVM, PhD, DABVP (Dairy Practice)  
Yvonne van Zeeland, DVM, MVR, PhD, DECZM (Avian, Small Mammal)  
Julia Veir, DVM, PhD, DACVIM (SAIM)  
Ted P. Vlahos, DVM, MS, DABVP (Equine Practice)  
Melinda Wood, DVM, DACVIM (SAIM)

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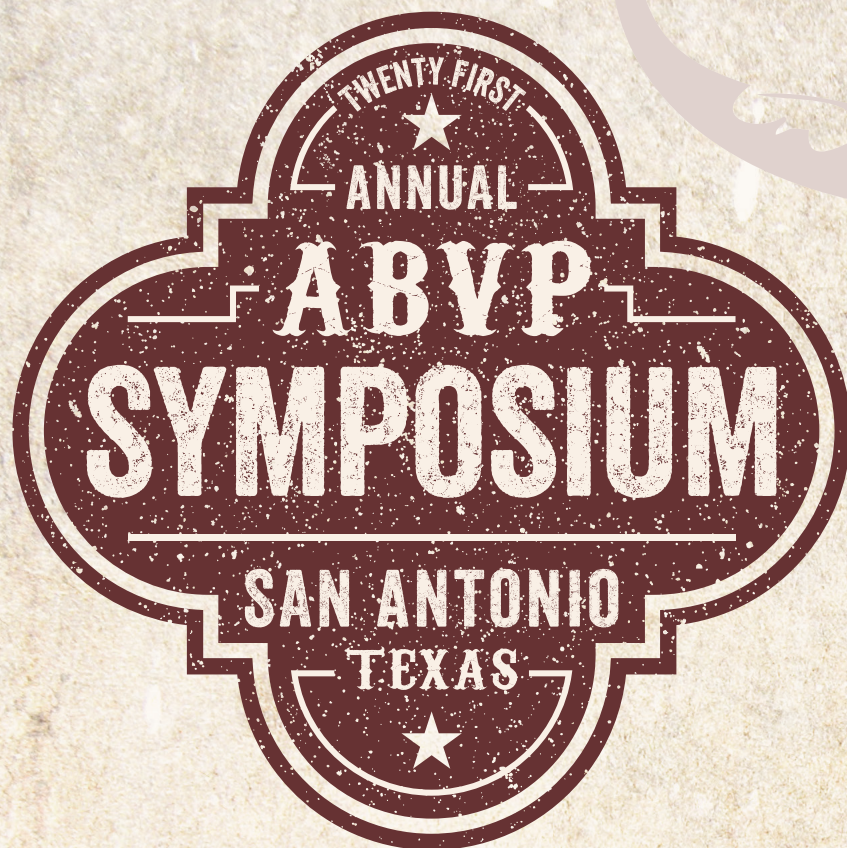
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