

19TH ANNUAL



ABVP
SYMPOSIUM



OCTOBER 30 – NOVEMBER 2, 2014
NASHVILLE, TENNESSEE



ON-SITE BROCHURE

WELCOME TO THE 19TH ANNUAL ABVP SYMPOSIUM

GENERAL INFORMATION

LOCATION OF LECTURES

Please note all lectures, labs, luncheons, and social sessions are at the Music City Center (MCC) 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.

REGISTRATION DESK HOURS

Wednesday, October 29	2:00PM-5:00PM
Thursday, October 30	10:00AM-5:00PM
Friday, October 31	7:00AM-5:00PM
Saturday, November 1	7:00AM-5:00PM
Sunday, November 2	7:00AM-1:00PM

EXHIBIT HALL HOURS

Friday, October 31	12:50PM-7:00PM
Saturday, November 1	8:50AM-4:25PM
Sunday, November 2	8:50AM-11:10AM

CONTINUING EDUCATION CREDITS

This program was reviewed and approved by the AAVSB RACE program for 118.5 hours of continuing education. The maximum any one veterinarian or veterinary technician can earn is 24.5 or 25.0 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 available at the registration desk beginning at 7:00AM on Sunday, November 2. Please pick up your CE certificate prior to leaving the Symposium.

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. No paper copies are 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

ABVP/AAHA KICK-OFF SEMINAR

THURSDAY, OCTOBER 30, 1:00PM-5:00PM, MCC 106 A & B

Life Mastery: Are You Obsessed, Possessed Or Blessed? Rick Griggs

A lively, interactive session aimed at spotting each person's style of accomplishing things in their work and personal life. Two (2) of the styles have negative short and long-term consequences. One style has been followed by great achievers who also enjoy their lives.

Mastery Circle Life Assessment Tool Rick Griggs

A life-changing assessment tool first published in Mr. Griggs' book *Personal Wellness*, Crisp Publications. Combined with life mastery techniques, the tool narrows life priorities to five, diagrams them, and finally scores them. We will also touch on Mr. Griggs' ten achievement factors. A favorite in the Balanced Mastery program, these 10 'Factors' are the top correlations among Olympic athletes, organizational CEO's, and those who sustain their accomplishment over long periods of time. This is where achievement happens!

Cutting the Gordian Knot, a Team Dynamics Simulation Rick Griggs

The lack of good communication is listed in survey after survey as the number one problem among teams in US and global organizations. In other programs we use models and lists to help leaders and team members improve those elusive skills that should result in mutual understanding. Too often the tools and models don't work or need a little extra something to make it stick. The "Cutting the Gordian Knot" team simulation will help make it stick. This exercise 'simulates' how we usually act and react in our day-to-day lives. It is difficult to hide our natural actions and reactions in our personal lives and in the practice. These natural reactions become magnified during the Gordian Knot simulation.

Canine and Feline Nutrition Dry Lab Craig Datz

THURSDAY, OCTOBER 31, 1:00PM-5:00PM, MCC 101 D & E

In this interactive, hands-on session we will discuss practical, relevant information to help increase your awareness and comfort with clinical nutrition. Using a combination of presentations, discussions, and small group activities at rotating stations, the topics will include evaluating pet foods and ingredients, reading labels, calculating and creating feeding plans, and managing multiple nutritional issues. Participants will receive a printed lab manual along with a free copy of the textbook *Applied Veterinary Clinical Nutrition*. Pre-registration is required to attend.



Regents' Reception

THURSDAY, OCTOBER 30, 5:30PM-6:45PM, OMNI HOTEL, BROADWAY WEST PRE-FUNCTION

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.



Committee Meetings

THURSDAY, OCTOBER 30, 7:00PM-8:30PM
ABVP OUTREACH COMMITTEE, MCC 101 B
ABVP FOUNDATION BOARD, MCC 101 C

FEATURED EVENTS

Yoga Classes

FRIDAY, OCTOBER 31 AND SATURDAY, NOVEMBER 1, 6:00AM-7:00AM

Classes may be purchased at the door for \$10.

Classes will be held at the Omni Hotel, 4th floor, Mokara Spa Terrace. In the event of rain, classes will be held at the Omni Hotel, 3rd floor, Old Hickory Room.

Yoga mats will be provided by the Omni Hotel to all attendees.

Taught by a 200 hour Power Vinyassa teacher, these power flow classes will have students flow dynamically between postures, gaining a fun/spontaneous yoga experience.

Running Club

FRIDAY, OCTOBER 31, SATURDAY, NOVEMBER 1 AND SUNDAY, NOVEMBER 2

Meet in the lobby of the Omni Hotel each morning at 6:00AM. We will also have running maps available at the ABVP registration desk if you prefer to run at a different time.

SUNRISE SESSIONS

Companion Animal Vaccines - Practical Risk Assessment

LeMac' Morris

FRIDAY, OCTOBER 31, 6:45AM -7:45AM, MCC 106

AAFP and AAHA vaccine guidelines categorize companion animal vaccines into core and non-core. The guideline's ability to determine vaccine candidates for core vaccines such as distemper, parvo, and adenovirus in dogs is simple: If it is a dog, it is a candidate. The criteria for determining vaccine candidates for non-core vaccines is more complicated and is based on risk of exposure. But, what defines risk at a level that a vaccination is warranted? What are the criteria veterinarians should use to establish risk? Should veterinarians risk assess each pet individually or should risk assessment be done on a population basis? The steps involved in establishing a useful, practical method for risk assessing pets in your practice for non-core antigens is the focus of this presentation.



Flea Control: Expectations and Reality *Ed Loebach*

SATURDAY, NOVEMBER 1, 6:45AM -7:45AM, MCC 106

Pet owners want fleas gone immediately and when they still see fleas on their treated pets they assume the treatment isn't working. This disconnect between flea control expectations and reality leads to client dissatisfaction with flea control products. In this session we will explore the basics of flea biology that explain the duration of time it takes to resolve an existing flea infestation. Next we will discuss two common scenarios wherein normal flea biology will result in fleas being noted even on successfully treated pets. Finally we will discuss steps a veterinary clinic can take to instill more appropriate flea control expectation in clients that ultimately result in better client satisfaction.



Re-Thinking Feline Pain Management *Mark Epstein*

SUNDAY, NOVEMBER 2, 6:45AM-7:45AM, MCC 106

New data and indeed new products specifically with the cat in mind are transforming acute and chronic pain management in this species. This evidence-based session will cover recent literature as well as practical applications of feline pain management, with an emphasis on post-surgical and DJD-related pain.



CROSS SPECIES

FRIDAY, OCTOBER 31, 8:00AM-11:50AM, MCC 106

Veterinary Forensics for Live and Deceased Animals *Melinda Merck*

This lecture will cover common findings in animal abuse, evidence collection and documentation protocols, and forensic testing. Discussion will also cover how the veterinarians should handle suspected abuse and the development of standard operating procedures.

Shelter Medicine Practice: Who We Are and Where We Are Today

Brenda Griffin and Kate Hurley

Shelter medicine is a rapidly emerging area of the veterinary practice. In this session, we will examine the history of this unique and challenging discipline and consider new frontiers as the field continues to evolve.

Large Scale Cruelty Cases: The Veterinarian's Role in Managing and Processing the Animals *Melinda Merck*

This lecture will cover in detail from start to finish the considerations, processes, and roles of the medical team in large scale cruelty cases. This will include the documentation of physical evidence and the examination of animals. The principals also apply to any large scale response such as disaster situations.

Welcome Reception

FRIDAY, OCTOBER 31, 5:45PM-7:00PM, MCC 104 A-E

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, OCTOBER 31, 7:00PM-8:30PM, MCC 101 C

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

Item Writing Workshop

FRIDAY, OCTOBER 31, 7:00PM-10:00PM, MCC 102 A

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.

Certification Workshop: For Those Already in the Process

FRIDAY, OCTOBER 31, 7:00PM-10:00PM, MCC 101 B

Have you applied for ABVP certification 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.

Poultry Necropsy Wet Lab *Cheryl Greenacre*

SATURDAY, NOVEMBER 1, 1:20PM-5:05PM, MCC 101 E

Find out the common, and not so common, diseases that affect backyard poultry. Find out what samples to take, what tests are available, and where to send them. A systems-based approach will be used so you learn practical information you can use the next time you have a chicken necropsy to perform. Pre-registration is required to attend.

Certification: Is It For Me?

SATURDAY, NOVEMBER 1, 5:30PM-6:15PM, MCC 101 A

Are you considering ABVP certification? This session will provide an overview of the application process, study tips, deadlines, fees, and exam structure.

FEATURED EVENTS

ABVP Diplomate Meeting

SATURDAY, NOVEMBER 1, 5:30PM-6:15PM, MCC 106

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, NOVEMBER 1, 5:30PM-6:15PM, MCC 101 D

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

Annual Awards Reception and Dinner

SATURDAY, NOVEMBER 1, 6:45PM-9:30PM, PATRON CLUB AT THE BRIDGESTONE ARENA

We look forward to welcoming all attendees to this annual dinner where we recognize newly certified and recertified Diplomates. The 3rd 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.



Rabbit and Guinea Pig Dentistry: A Practical Approach Wet Lab

Vittorio Capello and Angela Lennox

SUNDAY, NOVEMBER 2, 7:50AM-11:50AM, MCC 101 E

This dentistry lab is focused on standard and intermediate dental procedures performed in rabbits and guinea pigs. For the first time, a useful comparison between the two most common species with elodont teeth is provided. Participants will work in pairs on rabbit and guinea pig cadavers and/or head specimens, performing the following procedures:

- Positioning of the rabbit and the guinea pigs with the mouth gags (standard and table top mouth gags) and cheek dilators
- Inspection of the oral cavity with and without the use of a rigid endoscope
- Coronal reduction of cheek teeth in rabbits and guinea pigs
- Extraction of cheek teeth in rabbits
- Extraction of incisor teeth in rabbits

Pre-registration is required to attend.



Scan to access the 2014 Symposium app.

THURSDAY, OCTOBER 30

1:00PM-5:00PM	Canine and Feline Nutrition Dry Lab <i>Craig Datz</i> (MCC 101 D & E) (Pre-registration is required to attend)	
1:00PM-2:30PM	ABVP/AAHA Kick-Off Seminar: Life Mastery: Are You Obsessed, Possessed or Blessed? <i>Rick Griggs</i> (MCC 106 A & B)	
2:45PM-3:45PM	ABVP/AAHA Kick-Off Seminar: Mastery Circle Life Assessment Tool <i>Rick Griggs</i> (MCC 106 A & B)	
4:00PM-5:00PM	ABVP/AAHA Kick-Off Seminar: Cutting the Gordian Knot, a Team Dynamics Simulation <i>Rick Griggs</i> (MCC 106 A & B)	
5:30PM-6:45PM	Regents' Reception (Omni Hotel, Broadway West Pre-Function)	
7:00PM-8:30PM	Committee Meetings	
7:00PM-9:00PM	Cancer Cytology Interactive Case Series (Canine/Feline) <i>Douglas Thamm</i> (MCC 106)	

TWO FREE PROFESSIONAL TRAINING DVDS AVAILABLE:

**PEDIATRIC
SPAY/NEUTER**



**OVARIO-
HYSTERECTOMY
IN THE LARGE,
OVERWEIGHT DOG
("BIG FAT DOG SPAYS")**

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BOOTH #31

ASSOCIATION OF SHELTER VETERINARIANS

SYMPOSIUM SCHEDULE

FRIDAY, OCTOBER 31













	AVIAN, EXOTIC COMPANION MAMMAL, & REPTILE AND AMPHIBIAN COMBINED MCC 101 A	CANINE MCC 106	FELINE MCC 105 B
6:00AM-7:00AM	Yoga (Omni Hotel, 4th floor, Mokara Spa Terrace. In the event of rain, classes will be held at the Omni Hotel, 3rd floor, Old Hickory Room)		
6:00AM-7:00AM	Running Club (Meet in the lobby of Omni Hotel at 6:00AM)		
6:45AM-7:45AM	Sunrise Session & Continental Breakfast: Companion Animal Vaccines - Practical Risk Assessment LeMac' Morris (MCC 106) 		
8:00AM-9:50AM	Cross Species: Veterinary Forensics for Live and Deceased Animals Melinda Merck (MCC 106)		
10:00AM-10:50AM	Shelter Medicine Practice: Who We Are and Where We Are Today Brenda Griffin and Kate Hurley (MCC 106)		
11:00AM-11:50AM	Cross Species: Large Scale Cruelty Cases: The Veterinarian's Role in Managing and Processing the Animals Melinda Merck (MCC 106)		
12:00PM-12:50PM	Networking Lunch (MCC 103)		
12:50PM-1:40PM	Exhibit Hall Opening Dessert in Exhibit Hall (MCC 104 A-E)		
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	1:20PM-2:20PM Zoonoses Associated with Exotic Pets Marcy Souza	1:40PM-2:40PM  Update on Osteosarcoma - the CSU Experience Douglas Thamm	1:40PM-2:40PM  Diagnosis and Management of Acute Pancreatitis Christopher Byers
2:20PM-3:10PM	Break in Exhibit Hall		
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	2:50PM-3:50PM Emerging Infectious Diseases Marcy Souza	3:10PM-4:10PM Aftershocks of Cancer Chemotherapy - Treating Adverse Effects Douglas Thamm	3:10PM-4:10PM  Localizing Acute Respiratory Distress Christopher Byers
3:50PM-4:40PM	Break in Exhibit Hall		
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	4:20PM-5:20PM Drug Dosing: Are We Making Decisions Based on Science or Hearsay? Marcy Souza	4:40PM-5:40PM Demystifying Mast Cell Tumors Douglas Thamm	4:40PM-5:40PM  An Update on Cardiopulmonary Resuscitation Christopher Byers
5:45PM-7:00PM	Welcome Reception (MCC 104 A-E)		
7:00PM-8:30PM	Maintenance of Certification Workshop Mike Dutton, Craig Datz, Marisa Hackemann (MCC 101 C)		
7:00PM-10:00PM	AVTCP Board Meeting (MCC 101 D)		
7:00PM-10:00PM	Item Writing Workshop Steve Foulke (MCC 102 A)		
7:00PM-10:00PM	Certification Workshop: For Those Already in the Process Carondelet Nollner and Kimberlee Buck (MCC 101 B)		

SHELTER MEDICINE MCC 105 A	EQUINE MCC 102 B	FOOD ANIMAL MCC 102 A	AVTCP (TECHNICIAN) MCC 101 D
Yoga (Omni Hotel, 4th floor, Mokara Spa Terrace. In the event of rain, classes will be held at the Omni Hotel, 3rd floor, Old Hickory Room)			AVTCP Exams
Running Club (Meet in the lobby of Omni Hotel at 6:00AM)			
Sunrise Session & Continental Breakfast: Companion Animal Vaccines - Practical Risk Assessment LeMac' Morris (MCC 106)		 Boehringer Ingelheim	
Cross Species: Veterinary Forensics for Live and Deceased Animals Melinda Merck (MCC 106)			
Shelter Medicine Practice: Who We Are and Where We Are Today Brenda Griffin and Kate Hurley (MCC 106)			
Cross Species: Large Scale Cruelty Cases: The Veterinarian's Role in Managing and Processing the Animals Melinda Merck (MCC 106)			
Networking Lunch (MCC 103)			
Exhibit Hall Opening Dessert in Exhibit Hall (MCC 104 A-E)			
1:40PM-2:40PM  Boehringer Ingelheim The First 60 Minutes: Animal Sheltering's Critical Hour Brian DiGangi	1:30PM-2:30PM Diagnostic Approach to Chronic Weight Loss in the Horse Scott Austin	1:30PM-2:30PM  MERCK Be well Economics of Internal Parasitism in Beef and Dairy Cattle Donald Bliss	1:30PM-2:30PM CANINE AND FELINE - Nutritional Support Ann Wortinger
Break in Exhibit Hall			
3:10PM-4:10PM  Boehringer Ingelheim Managing Heartworm Disease in the Animal Shelter Brian DiGangi	3:00PM-4:00PM Diagnostic Dilemmas: A Guide to Current Challenges in Equine Diagnostics Scott Austin	3:00PM-4:00PM  MERCK Be well Strategic Timed Deworming Strategies for Cow Calf and Stocker Operations Donald Bliss	3:00PM-4:00PM CANINE AND FELINE - The Ins and Outs of Feeding Tubes Ann Wortinger
Break in Exhibit Hall			
4:40PM-5:40PM  Boehringer Ingelheim Applied Animal Behavior for the Shelter Veterinarian Brenda Griffin	4:30PM-5:30PM Management of Endotoxemia and Laminitis Scott Austin	4:30PM-5:30PM  MERCK Be well Strategic Timed Deworming Strategies for Dairy Cattle of All Ages with Emphasis on the Value of Fecal Worm Egg Counts Donald Bliss	4:30PM-5:30PM CANINE AND FELINE - Feeding Tubes Management and Complications Ann Wortinger
Welcome Reception (MCC 104 A-E)			
Maintenance of Certification Workshop Mike Dutton, Craig Datz, Marisa Hackemann (MCC 101 C)			
AVTCP Board Meeting (MCC 101 D)			
Item Writing Workshop Steve Foulke (MCC 102 A)			
Certification Workshop: For Those Already in the Process Carondelet Nollner and Kimberlee Buck (MCC 101 B)			

SYMPOSIUM SCHEDULE




SATURDAY, NOVEMBER 1

	AVIAN MCC 101 C	EXOTIC COMPANION MAMMAL MCC 101 B	REPTILE AND AMPHIBIAN MCC 101 A	CANINE MCC 106
6:00AM-7:00AM	Yoga (Omni Hotel, 4th floor, Mokara Spa Terrace. In the event of rain, classes will be held at the Omni Hotel, 3rd floor, Old Hickory Room)			
6:00AM-7:00AM	Running Club (Meet in the lobby of Omni Hotel at 6:00AM)			
6:45AM-7:45AM	Sunrise Session & Continental Breakfast: Flea Control: Expectations and Reality Ed Loebach (MCC 106)			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	7:50AM-8:50AM Biosecurity of the Backyard Flock Marcy Souza	7:50AM-8:50AM Anesthesia and Analgesia for Dentistry of Rabbits and Rodents Angela Lennox	7:50AM-8:50AM Reptile Clinical Pathology I Vickie Joseph	8:10AM-9:10AM  Receptor Tyrosine Kinases and Canine Cancer - Palladia, Kinavet, and Beyond Douglas Thamm
8:50AM-9:40AM	Break in Exhibit Hall			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	9:20AM-10:20AM Avian Analgesia Marcy Souza	9:20AM-10:20AM Dentistry of Guinea Pigs Vittorio Capello	9:20AM-10:20AM Reptile Clinical Pathology II Vickie Joseph	9:40AM-10:40AM Lymphoma- Diagnostic and Prognostic Advances Douglas Thamm
10:20AM-11:10AM	Break in Exhibit Hall			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	10:50AM-11:50AM Avian Hematology and Chemistry Vickie Joseph	10:50AM-11:50AM Dentistry of Chinchillas Vittorio Capello	10:50AM-11:50AM Protozoal Parasitology in the Reptilian System Adolf Maas	11:10AM-12:10PM Lymphoma - Therapeutic Advances Douglas Thamm
11:50AM-1:40PM	Networking Lunch (MCC 103)			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	1:20PM-2:20PM Poultry Necropsy Lab Cheryl Greenacre (MCC 101 E) (Pre-registration is required to attend)	1:20PM-2:20PM Dentistry of Prairie Dogs and other Squirrel Rodents Vittorio Capello	1:20PM-2:20PM Reptile Dermatological Conditions Adolf Maas	1:40PM-2:40PM Abnormal Liver Enzymes- A Clinical Approach David Twedt
2:20PM-3:10PM	Break in Exhibit Hall			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	2:50PM-3:50PM Poultry Necropsy Lab Cheryl Greenacre (MCC 101 E) (Pre-registration is required to attend)	2:50PM-3:50PM Practical Approach to Dentistry of Pet Rabbits Vittorio Capello	2:50PM-3:50PM Reptile Anesthesia Adolf Maas	3:10PM-4:10PM Common Liver Diseases in the Dog David Twedt
3:50PM-4:25PM	Break in Exhibit Hall			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	4:05PM-5:05PM Poultry Necropsy Lab Cheryl Greenacre (MCC 101 E) (Pre-registration is required to attend)	4:05PM-5:05PM Practical Approach to Dentistry of Pet Rabbits and Rodents Vittorio Capello and Angela Lennox	4:05PM-5:05PM Russian Tortoise Health and Concerns Adolf Maas	4:25PM-5:25PM Chronic Hepatitis- Latest Update in the Dog David Twedt
5:30PM-6:15PM	Certification: Is It For Me? Stephen Pittenger (MCC 101A)			
5:30PM-6:15PM	ABVP Diplomate Meeting (MCC 106)			
5:30PM-6:15PM	AVTCP Question and Answer Session (MCC 101 D)			
6:45PM-9:30PM	Annual Awards Reception and Dinner (Reservation Required) (Patron Club at the Bridgestone Arena)			

FELINE MCC 105 B	SHELTER MEDICINE MCC 105 A	EQUINE MCC 102 B	FOOD ANIMAL MCC 102 A	AVTCP (TECHNICIAN) MCC 101 D
Yoga (Omni Hotel, 4th floor, Mokara Spa Terrace. In the event of rain, classes will be held at the Omni Hotel, 3rd floor, Old Hickory Room)				
Running Club (Meet in the lobby of Omni Hotel at 6:00AM)				
Sunrise Session & Continental Breakfast: Flea Control: Expectations and Reality Ed Loebach (MCC 106)				
8:10AM-9:10AM  Management of Diabetic Ketoacidosis Christopher Byers	8:10AM-9:10AM What Really Happened? Putting Together the Crime Scene, Investigation, and Exam Findings I Melinda Merck 	8:00AM-9:00AM Fluid and Electrolyte Therapy for All Occasions Scott Austin	8:00AM-9:00AM  The Economics of Parasitism in Sheep and Goats Outlining the Most Common Types of Parasite Problems Found Donald Bliss	8:00AM-9:00AM CANINE AND FELINE - Refeeding Syndrome Ann Wortinger
Break in Exhibit Hall				
9:40AM-10:40AM  Tackling Feline Hypotension Christopher Byers	9:40AM-10:40AM What Really Happened? Putting Together the Crime Scene, Investigation, and Exam Findings II Melinda Merck 	9:30AM-10:30AM Assessment of the Neonatal Foal in an Ambulatory Setting Scott Austin	9:30AM-10:30AM  The Epidemiology of PGE and Strategic Timed Deworming Strategies for Sheep and Goats vs. FAMACHA Donald Bliss	9:30AM-10:30AM CANINE AND FELINE - Hepatic Lipidosis Ann Wortinger
Break in Exhibit Hall				
11:10AM-12:10PM  Analgesia for Critically Ill Cats Christopher Byers	11:10AM-12:10PM Making the Case: Forensic Reports and Testimony Melinda Merck 	11:00AM-12:00PM Management of Common Foal Disorders in the Field Scott Austin	11:00AM-12:00PM  The Shift of Parasitism in Swine to the Large Roundworm and... Donald Bliss	11:00AM-12:00PM CANINE AND FELINE - Ins and Outs of Fluid Therapy Ann Wortinger
Networking Lunch (MCC 103)				
1:40PM-2:40PM Urethral Obstructions in the Male Cat Ronald Bright	1:40PM-2:40PM  The Body of Evidence: What Decomposing Bodies Can Tell Us Melinda Merck	1:30PM-2:30PM Regenerative Medicine – From PRP to Stem Cells Jennifer Barrett	1:30PM-2:30PM Bulk Tank Basics: An Overview of Bulk Milk Bacteriology and Testing Ernest Hovingh	1:30PM-2:30PM EXOTICS - A Frog Hops Into the Practice- Amphibian Medicine and Emerging Diseases Jill Murray
Break in Exhibit Hall				
3:10PM-4:10PM Subtotal Colectomy - Still an Excellent Option Ronald Bright	3:10PM-4:10PM Public Health Hazards of Animal Hoarding Jeanette O'Quin 	3:00PM-4:00PM Current Imaging for Orthopedics in Horses Jennifer Barrett	3:00PM-4:00PM Troubleshooting Milk Quality Issues Ernest Hovingh	3:00PM-4:00PM EXOTICS - Bandaging and Wound Management in Exotic Pets Jill Murray
Break in Exhibit Hall				
4:25PM-5:25PM Omentum - A Viable Soldier for the Surgeon Ronald Bright	4:25PM-5:25PM  Introduction to Outbreak Response Jeanette O'Quin	4:15PM-5:15PM Current Treatments for Synovitis and Osteoarthritis Jennifer Barrett	4:15PM-5:15PM Bulk Milk Testing: What Else Can You Learn? Ernest Hovingh	4:15PM-5:15PM EXOTICS - Nutritional Disorders of Small Mammals Jill Murray
Certification: Is It For Me? Stephen Pittenger (MCC 101A)				
ABVP Diplomate Meeting (MCC 106)				
AVTCP Question and Answer Session (MCC 101 D)				
Annual Awards Reception and Dinner (Reservation Required) (Patron Club at the Bridgestone Arena)				

SYMPOSIUM SCHEDULE

SUNDAY, NOVEMBER 2

	AVIAN MCC 101 C	EXOTIC COMPANION MAMMAL MCC 101 E	REPTILE AND AMPHIBIAN MCC 101 A	CANINE MCC 106
6:00AM-7:00AM	Running Club (Meet in the lobby of Omni Hotel at 6:00AM)			
6:45AM-7:45AM	Sunrise Session & Continental Breakfast: Re-Thinking Feline Pain Management Mark Epstein (MCC 106) 			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	7:50AM-8:50AM Avian Clinical Pathology: Identification and Interpretation I Vickie Joseph	7:50AM-8:50AM Pre-Laboratory Lecture Vittorio Capello and Angela Lennox (MCC 101 E) (Pre-registration is required to attend)	7:50AM-8:50AM Reptile Oral Anatomy and Disease Leigh Ann Clayton	8:10AM-9:10AM Emerging Newer Liver Diseases David Twedt
8:50AM-9:40AM	Break in Exhibit Hall			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	9:20AM-10:20AM Avian Clinical Pathology: Identification and Interpretation II Vickie Joseph	9:20AM-10:20AM Wet Lab: Rabbit and Guinea Pig Dentistry: A Practical Approach Vittorio Capello and Angela Lennox (MCC 101 E) (Pre-registration is required to attend)	9:20AM-10:20AM Amphibian Edema Leigh Ann Clayton	9:40AM-10:40AM  Acute Liver Disease David Twedt
10:20AM-11:10AM	Break in Exhibit Hall			
START TIMES DIFFER BASED ON TRACKS. PLEASE SEE INDIVIDUAL LECTURE FOR TIME.	10:50AM-11:50AM Avian Clinical Pathology: Using Hematology and Chemistries as Diagnostic Tools Vickie Joseph	10:50AM-11:50AM Wet Lab: Rabbit and Guinea Pig Dentistry: A Practical Approach Vittorio Capello and Angela Lennox (MCC 101 E) (Pre-registration is required to attend)	10:50AM-11:50AM Herptile Herpes Leigh Ann Clayton	11:10AM-12:10PM  Acute Pancreatitis in the Dog David Twedt

LECTURE DESCRIPTIONS

Lectures are listed in the order they will be presented.

ABVP/AAHA KICK-OFF SEMINAR

Life Mastery: Are You Obsessed, Possessed or Blessed? Rick Griggs

A lively, interactive session aimed at spotting each person's style of accomplishing things in their work and personal life. Two (2) of the styles have negative short and long-term consequences. One style has been followed by great achievers who also enjoy their lives.

Mastery Circle Life Assessment Tool

Rick Griggs

A life-changing assessment tool first published in Mr. Griggs' book *Personal Wellness*, Crisp Publications. Combined with life mastery techniques, the tool narrows life priorities to five, diagrams them, and

finally scores them. We will also touch on Mr. Griggs' ten achievement factors. A favorite in the Balanced Mastery program, these 10 'Factors' are the top correlations among Olympic athletes, organizational CEO's, and those who sustain their accomplishment over long periods of time. This is where achievement happens!

Cutting the Gordian Knot, a Team Dynamics Simulation Rick Griggs





The lack of good communication is listed in survey after survey as the number one problem among teams in US and global organizations. In other programs we use models and lists to help leaders and team members improve those elusive skills that should result in mutual understanding. Too often the

tools and models don't work or need a little extra something to make it stick. The "Cutting the Gordian Knot" team simulation will help make it stick. This exercise 'simulates' how we usually act and react in our day-to-day lives. It is difficult to hide our natural actions and reactions in our personal lives and in the practice. These natural reactions become magnified during the Gordian Knot simulation.

SUNRISE SESSIONS

Companion Animal Vaccines - Practical Risk Assessment LeMac' Morris

AAFP and AAHA vaccine guidelines categorize companion animal vaccines into core and non-core. The guideline's ability to determine vaccine candidates for core vaccines such as distemper, parvo, and adeno-

FELINE MCC 105 B	SHELTER MEDICINE MCC 105 A	EQUINE MCC 102 B	FOOD ANIMAL MCC 102 A	AVTCP (TECHNICIAN) MCC 101 D
Running Club (Meet in the lobby of Omni Hotel at 6:00AM)				
Sunrise Session & Continental Breakfast: Re-Thinking Feline Pain Management <i>Mark Epstein (MCC 106)</i>				
8:10AM-9:10AM GI Surgery - Keeping it Simple and Safe <i>Ronald Bright</i>	8:10AM-9:10AM  Tabletop Exercise: Zoonotic Disease Outbreak I <i>Jeanette O'Quin and Brian DiGangi</i>	8:00AM-9:00AM Diagnosis and Treatment of Suspensory Desmitis <i>Jennifer Barrett</i>	8:00AM-9:00AM Dairy Quality Assurance I <i>Michaela Kristula</i>	8:00AM-9:00AM EXOTICS - Avian Cardiology- How Fast Can You Count? <i>Jill Murray</i>
Break in Exhibit Hall				
9:40AM-10:40AM Nutritional Support of The Medically Challenged Cat <i>Ronald Bright</i>	9:40AM-10:40AM  Tabletop Exercise: Zoonotic Disease Outbreak II <i>Jeanette O'Quin and Brian DiGangi</i>	9:30AM-10:30AM Diagnosis and Treatment of Tendon Injury <i>Jennifer Barrett</i>	9:30AM-10:30AM Dairy Quality Assurance II <i>Michaela Kristula</i>	9:30AM-10:30AM EXOTICS - Avian Hematology- What Do Those Results Mean? <i>Jill Murray</i>
Break in Exhibit Hall				
11:10AM-12:10PM Clinical Vignettes <i>Ronald Bright</i>	11:10AM-12:10PM  Tabletop Exercise: Zoonotic Disease Outbreak III <i>Jeanette O'Quin and Brian DiGangi</i>	11:00AM-12:00PM Fractures from the Field – Stabilization, Referral, and Prognosis <i>Jennifer Barrett</i>	11:00AM-12:00PM Dairy Quality Assurance III <i>Billy Smith</i>	11:00AM-12:00PM EXOTICS - Psittacine Viruses- An In-Depth Review <i>Jill Murray</i>

virus in dogs is simple: If it is a dog, it is a candidate. The criteria for determining vaccine candidates for non-core vaccines is more complicated and is based on risk of exposure. But, what defines risk at a level that a vaccination is warranted? What are the criteria veterinarians should use to establish risk? Should veterinarians risk assess each pet individually or should risk assessment be done on a population basis? The steps involved in establishing a useful, practical method for risk assessing pets in your practice for non-core antigens is the focus of this presentation.

Flea Control: Expectations and Reality

Ed Loebach

Pet owners want fleas gone immediately and when they still see fleas on their treated pets they assume

the treatment isn't working. This disconnect between flea control expectations and reality leads to client dissatisfaction with flea control products. In this session we will explore the basics of flea biology that explain the duration of time it takes to resolve an existing flea infestation. Next we will discuss two common scenarios wherein normal flea biology will result in fleas being noted even on successfully treated pets. Finally we will discuss steps a veterinary clinic can take to instill more appropriate flea control expectation in clients that ultimately result in better client satisfaction.

Re-Thinking Feline Pain Management

Mark Epstein

New data and indeed new products specifically

with the cat in mind are transforming acute and chronic pain management in this species. This evidence-based session will cover recent literature as well as practical applications of feline pain management, with an emphasis on post-surgical and DJD-related pain.

CROSS SPECIES

Veterinary Forensics for Live and Deceased Animals *Melinda Merck*

This lecture will cover common findings in animal abuse, evidence collection and documentation protocols, and forensic testing. Discussion will also cover how the veterinarians should handle suspected abuse and the development standard operating procedures.

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LECTURE DESCRIPTIONS

Lectures are listed in the order they will be presented.

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Shelter Medicine Practice: Who We Are and Where We Are Today *Brenda Griffin and Kate Hurley*

Shelter medicine is a rapidly emerging area of the veterinary practice. In this session, we will examine the history of this unique and challenging discipline and consider new frontiers as the field continues to evolve.

Large Scale Cruelty Cases: The Veterinarian's Role in Managing and Processing the Animals *Melinda Merck*

This lecture will cover in detail from start to finish the considerations, processes, and roles of the medical team in large scale cruelty cases. This will include the documentation of physical evidence and the examination of animals. The principals also apply to any large scale response such as disaster situations.

AVIAN, EXOTIC COMPANION MAMMAL, AND REPTILE AND AMPHIBIAN COMBINED

Zoonoses Associated with Exotic Pets *Marcy Souza*

Approximately $\frac{3}{4}$ of today's emerging infectious diseases are zoonotic and many originate in non-domestic animals. Infringement on wildlife habitat and the ownership of "exotic" pets can increase the exposure of humans to novel zoonotic diseases. Although new infectious diseases are constantly emerging, veterinarians should be familiar with more common and better understood zoonoses associated with the animals they are treating. This presentation will review some of the more common zoonoses associated with exotic pets, offer advice on prevention, and provide information regarding diagnosis in animals if available.

Emerging Infectious Diseases *Marcy Souza*

Infectious diseases are constantly changing to evade our defenses and expand their host range. In the last year, a new avian influenza (H7N9) and coronavirus (MERS-CoV) have emerged on the global horizon and led to human mortality. The H7N9 did not lead to high mortality in birds as is typically the case and the animal reservoir for MERS-CoV has yet to be identified. This presentation will discuss infectious diseases that have emerged on the global scene in the past 1-2 years. Implications for human and animal health will be discussed.

Drug Dosing: Are We Making Decisions Based on Science or Hearsay? *Marcy Souza*

Often in veterinary medicine, and especially when dealing with exotic patients, we make drug dosing decisions based on faulty information. Published dosing recommendations are often based on single case reports or "personal communications" instead

of clinical trials and research. This presentation will discuss a few instances when dosing based on faulty information can lead to detrimental effects for the animal and/or the owner.

AVIAN

Biosecurity of the Backyard Flock

Marcy Souza

As the role of backyard poultry becomes more prominent in American culture, companion animal veterinarians are likely to become involved in the health of these birds. Poultry, predominantly laying hens, are being kept in our urban and suburban neighborhoods as a way to produce some of our own food and teach children where food comes from. This presentation will cover biosecurity for the flock and how to keep the poultry, as well as people and pets, safe.

Avian Analgesia *Marcy Souza*

Birds, like other animals, have neuro-anatomy that allows them to detect, transmit, and respond to a painful stimulus, and analgesia has become part of the standard of care for the avian patient. This presentation will review current literature regarding research in avian analgesia. Recommendations for protocols for analgesia will also be discussed.

Avian Hematology and Chemistry

Vickie Joseph

This lecture will review the cell lines of hematology, their purpose and function, and select enzymes for biochemical analysis of the avian patient.

Poultry Necropsy Wet Lab *Cheryl Greenacre*

Pre-registration is required to attend.

Find out the common, and not so common, diseases that affect backyard poultry. Find out what samples to take, what tests are available, and where to send them. A systems-based approach will be used so you learn practical information you can use the next time you have a chicken necropsy to perform.

Avian Clinical Pathology: Identification and Interpretation I and II *Vickie Joseph*

This two-hour lecture will focus on the interpretation of changes in the hematology and biochemistry values and how they reflect disease processes.

Avian Clinical Pathology: Using Hematology and Chemistries as Diagnostic Tools

Vickie Joseph

This lecture will focus on case presentations, diagnostic plans to evaluate the avian patient, and interpretation of the results.

CANINE

Cancer Cytology Interactive Case Series

Douglas Thamm

The first hour of this lecture will discuss cytology sample acquisition/preparation, troubleshooting common problems, and will introduce a simple 4-step algorithm to assist in evaluations of cytology samples. The second hour will employ this algorithm in the evaluation of a series of interactive cytology cases.

Update on Osteosarcoma - the CSU

Experience Douglas Thamm

Over the last 25 years, Colorado State University has pioneered many surgical, medical, and radiation therapy based approaches for the treatment of canine osteosarcoma. This hour will discuss some of the recent advances in the biology and therapy of canine osteosarcoma from the CSU perspective.

Aftershocks of Cancer Chemotherapy - Treating Adverse Effects *Douglas Thamm*

Most chemotherapy protocols in common veterinary use are designed to have a low risk of adverse effects. However, adverse effects can and do occur in a small percentage. Even in practices where chemotherapy is not administered, referring and emergency/critical care practices are often called upon to deal with adverse effects resulting from cancer therapy that may have been administered elsewhere. Having a protocol in place for the treatment of these patients dramatically increases the likelihood of a good outcome should a serious adverse event be encountered. This hour will discuss the basics of chemotherapy side effect treatment in small animals.

Demystifying Mast Cell Tumors

Douglas Thamm

Mast cell tumors (MCT) are extremely common in small animal practice, and are characterized by a very wide variation in biology and behavior. However, 70% of canine MCT and even more feline MCT can be effectively treated with surgery alone, and a relatively straightforward algorithm can be used to appropriately treat the vast majority of MCT encountered in practice. This lecture will cover the basics of diagnostic tests, staging, and surgical, medical, and radiation-based approaches for canine MCT treatment.

Receptor Tyrosine Kinases and Canine Cancer - Palladia, Kinavet, and Beyond

Douglas Thamm

Receptor tyrosine kinases (RTKs), cell signaling molecules on the surface of cancer cells, are one of the most common targets for new human cancer therapeutics. Recently, two RTK inhibitor drugs, Palladia and Kinavet, have been approved for the

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Important PROZINC Safety Information: For use in cats only. The safety and effectiveness of PROZINC insulin in kittens and in breeding, pregnant, and lactating cats has not been evaluated.

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LECTURE DESCRIPTIONS

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treatment of canine cancer, and more may be on the way. This hour will discuss the biology and function of RTKs, what is known about their importance in canine cancer, and the data regarding safety and effectiveness of Palladia and Kinavet.

Lymphoma - Diagnostic and Prognostic Advances *Douglas Thamm*

The last few years have brought some interesting and novel discoveries with regard to the diagnosis and prognosis of lymphoma in pets. This hour will discuss the basics of lymphoma diagnosis and staging, and clinical applications of new diagnostic techniques including flow cytometry, PCR for antigen receptor rearrangement, serum thymidine kinase, and multiple novel prognostic factors including MHC class II and survivin expression.

Lymphoma - Therapeutic Advances *Douglas Thamm*

There have been a variety of changes and updates to the treatment of canine and feline lymphoma over the past few years, which are worthy of note. Topics to be covered will include the use of "maintenance" chemotherapy, the utility of asparaginase, practical cyclophosphamide administration, rescue drugs and protocols for canine lymphoma, treatment of "low-grade" or indolent canine and feline lymphoma, and future directions for lymphoma therapy in pets.

Abnormal Liver Enzymes - A Clinical Approach *David Twedt*

Laboratory interpretation and a basic approach of how to work up a case with abnormal liver enzymes will be presented. When is a liver biopsy indicated, how to interpret the results?

Common Liver Diseases in the Dog *David Twedt*

New insights into diagnosis and management of reactive hepatopathies, and other common conditions associated with elevated liver enzymes will be presented.

Chronic Hepatitis - Latest Update in the Dog *David Twedt*

The diagnosis and etiologies of hepatitis will be discussed with emphasis on pathophysiology, diagnosis, and treatment of liver disease.

Emerging Newer Liver Diseases *David Twedt*

A brief review of newer liver problems including cholestatic liver disease, mucocoeles, portal vein hypoplasia, and vacuolar hepatopathies will be presented with current thoughts on diagnosis and management.

Acute Liver Disease *David Twedt*

Acute liver disease is often associated with toxin or drug induced changes. The causes and management of acute liver disease will be presented.

Acute Pancreatitis in the Dog *David Twedt*

An overview of current thoughts on the diagnosis and therapy of acute pancreatitis in the dog. The role of PLI test, pain management, antiemetics, and nutrition will be included.

EQUINE

Diagnostic Approach to Chronic Weight Loss in the Horse *Scott Austin*

A review of a step-by-step approach to diagnosis of chronic weight loss including evaluation of management, nutrition, and the numerous diseases that may be associated with this condition.

Diagnostic Dilemmas: A Guide to Current Challenges in Equine Diagnostics *Scott Austin*

The lecture will cover the basics of evaluating sensitivity and specificity of available diagnostic tests. What does a positive test mean?

Management of Endotoxemia and Laminitis *Scott Austin*

Both endotoxemia and laminitis are common complications of the severely ill horse. Strategies for prevention and management of these deadly complications will be discussed.

Fluid and Electrolyte Therapy for All Occasions *Scott Austin*

The lecture will cover anticipated electrolyte alterations and fluid needs for common clinical situations encountered in practice.

Assessment of the Neonatal Foal in an Ambulatory Setting *Scott Austin*

The lecture will cover the assessment of the potentially sick neonates in the field. Criteria that determine if the foal can be managed in the field or should be referred to a hospital for treatment will be discussed.

Management of Common Foal Disorders in the Field *Scott Austin*

The lecture will discuss management of foals with failure of passive transfer, perinatal asphyxia syndrome, meconium impaction, diarrhea, and local infections in an ambulatory setting.

Regenerative Medicine - From PRP to Stem Cells *Jennifer Barrett*

While stem cell therapy and other regenerative techniques are becoming common, the real value of

these approaches are not widely understood. This lecture will discuss the science behind the therapies, define the different options that are clinically available, and explain what the benefits and disadvantages are to the different approaches.

Current Imaging for Orthopedics in Horses *Jennifer Barrett*

Advanced imaging techniques are becoming commonplace and required for high-level equine athletes. This lecture will review the advantages and disadvantages of different imaging techniques, specifically focusing on ultrasonography and magnetic resonance imaging.

Current Treatments for Synovitis and Osteoarthritis *Jennifer Barrett*

With the advent of IRAP, platelet rich plasma and stem cell therapy treatments for joints, choosing a therapy for osteoarthritis has become more confusing. This lecture will review the currently available choices for treating joint inflammation along with the advantages for specific clinical conditions, based on research studies and clinical experience.

Diagnosis and Treatment of Suspensory Desmitis *Jennifer Barrett*

Diagnosis and treatment of proximal suspensory desmitis has improved, but more work is needed to detect inflammation in its early stages. This lecture will review diagnostic pitfalls and different surgical and medical approaches to treating suspensory desmitis.

Diagnosis and Treatment of Tendon Injury *Jennifer Barrett*

Athletes with tendon injuries are still in danger of being retired due to failure to return to previous level of exercise, or re-injury. This lecture will review diagnostic approaches to identifying tendon injury, treatment options, and prognosis.

Fractures from the Field - Stabilization, Referral, and Prognosis *Jennifer Barrett*

This lecture will review the equine fracture presentation, field stabilization, and prognosis. The goal is to provide clear guidelines for diagnosis of fractures, guidance for owner decisions, stabilization for shipping, and referral to allow the best outcome for the patient.

EXOTIC COMPANION MAMMAL

Anesthesia and Analgesia for Dentistry of Rabbits and Rodents *Angela Lennox*

Dental disease and treatment can produce variable levels of discomfort, depending on severity. Overall patient condition and pre-existing conditions can

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LECTURE DESCRIPTIONS

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influence the planning of anesthesia and analgesia. Optimal anesthetic planning increases survival, while analgesia enhances early return to normal function.

Dentistry of Guinea Pigs *Vittorio Capello*

Dental disease in the guinea pig presents significant differences than that in the rabbit. This session highlights anatomic and clinical differences of this species in regard to dental problems. Discussion includes advanced diagnostic imaging and the therapeutic approach, with special emphasis on intraoral treatment.

Dentistry of Chinchillas *Vittorio Capello*

Like guinea pigs, treatment of dental disease in the chinchilla is not the same as that in the rabbit. This session reviews differences and similarities between these two other more common elodont species. Clinical presentation, diagnostic imaging, and treatment options will be discussed, with special emphasis on intraoral treatment.

Dentistry of Prairie Dogs and other Squirrel Rodents *Vittorio Capello*

Squirrels have well-developed elodont incisor teeth and brachyodont cheek teeth. This session will focus on peculiar aspects of dental disease in prairie dogs and other related species, with special emphasis on pathophysiology, diagnosis, and treatment options of elodontomas and pseudo-odontomas.

Practical Approach to Dentistry of Pet Rabbits *Vittorio Capello*

This session reviews decision making in pet rabbit dentistry. A visual diagnostic and procedural algorithm will guide the practitioner step-by-step from presentation to diagnosis, prognosis, and treatment plan for dental disease.

Practical Approach to Dentistry of Pet Rabbits and Rodents *Vittorio Capello*

This lecture presents case reports of dental disease in selected pet rabbits and rodents using information from the earlier lectures.

Pre-Laboratory Lecture *Vittorio Capello and Angela Lennox*

The introductory lectures will present instrumentation for dentistry, and will review the tasks that students will perform during the lab. Didactic videos will introduce and describe the practical procedures step by step.

Rabbit and Guinea Pig Dentistry: A Practical Approach Wet Lab *Vittorio Capello and Angela Lennox*

Pre-registration is required to attend.

This dentistry lab is focused on standard and inter-

mediate dental procedures performed in rabbits and guinea pigs. For the first time, a useful comparison between the two most common species with elodont teeth is provided. Participants will work in pairs on rabbit and guinea pig cadavers and/or head specimens, performing the following procedures:

- Positioning of the rabbit and the guinea pigs with the mouth gags (standard and table top mouth gags) and cheek dilators
- Inspection of the oral cavity with and without the use of a rigid endoscope
- Coronal reduction of cheek teeth in rabbits and guinea pigs
- Extraction of cheek teeth in rabbits
- Extraction of incisor teeth in rabbits

FELINE

Cancer Cytology Interactive Case Series *Douglas Thamm*

The first hour of this lecture will discuss cytology sample acquisition/preparation, troubleshooting common problems, and will introduce a simple 4-step algorithm to assist in evaluations of cytology samples. The second hour will employ this algorithm in the evaluation of a series of interactive cytology cases.

Diagnosis and Management of Acute Pancreatitis *Christopher Byers*

During this presentation, the clinical approach to diagnosing and managing acute pancreatic inflammation will be reviewed.

Localizing Acute Respiratory Distress *Christopher Byers*

During the presentation, attendees will be exposed to a clinical method of localizing the cause of respiratory distress.

An Update on Cardiopulmonary Resuscitation *Christopher Byers*

During this presentation, the latest findings of the RECOVER project will be reviewed to provide the most up-to-date information regarding CPR in cats.

Management of Diabetic Ketoacidosis *Christopher Byers*

DKA is a life-threatening complication of diabetes mellitus, but with the appropriate interventions, many patients may make meaningful recoveries. We will review the appropriate therapeutic and nutritional interventions for DKA patients.

Tackling Feline Hypotension *Christopher Byers*

During this presentation, we will review an approach to hypotension with an emphasis on maximizing cardiac output and systemic vascular resistance.

Analgesia for Critically Ill Cats

Christopher Byers

During this presentation, attendees will be exposed to current concepts in providing adequate pain relief for patients in the emergency room and intensive care unit.

Urethral Obstructions in the Male Cat

Ronald Bright

Initial management of relieving urethral obstruction will be followed by surgical options including salvage procedures.

Subtotal Colectomy - Still an Excellent Option *Ronald Bright*

Etiopathogenesis of megacolon will be discussed. Medical and surgical options will complement the initial discussion that will include some limited pathophysiology.

Omentum - A Viable Soldier for the Surgeon *Ronald Bright*

The anatomical and physiological features of the omentum are discussed. How the surgeon can take advantage of those features to assist in surgery will be detailed.

GI Surgery - Keeping it Simple and Safe *Ronald Bright*

A review of GI surgery will emphasize techniques that will enhance a successful outcome with enterotomies, intestinal biopsies, and reaction and anastomoses. Important predisposing factors contributing to failure of an intestinal wound to heal will be discussed.

Nutritional Support of the Medically Challenged Cat *Ronald Bright*

Several types of placing feeding tubes in cats during post operative rehabilitation in cats with chronic and debilitating disease will be discussed including surgical indications for each method.

Clinical Vignettes *Ronald Bright*

Case discussion will center on abdominal surgery including GI and endocrine disorders.

FOOD ANIMAL

Economics of Internal Parasitism in Beef and Dairy Cattle *Donald Bliss*

Discussion of the role parasitism plays in reducing immune function, milk production, reproduction efficiency, body condition scores, and growth in young animals.

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New from Abbott Animal Health

 **Simbadol™** 
(buprenorphine injection)

Once-daily*



24-hour



surgical pain control



Learn about a novel option in feline surgical pain control

Visit Booth #21

INDICATION: SIMBADOL is indicated for the control of postoperative pain associated with surgical procedures in cats.

IMPORTANT SIMBADOL (buprenorphine injection) SAFETY INFORMATION

WARNINGS, PRECAUTIONS and CONTRAINDICATIONS: Due to serious human safety and abuse concerns, including physical or psychological dependence, life-threatening respiratory depression and additive CNS depressant effects, read the full prescribing information before using this drug, including the complete Boxed Warning. Not for use in humans. Hospital staff should be trained in the handling of potent opioids and should avoid accidental exposure. For subcutaneous (SQ) injectable use in cats. Opioid excitation has been observed up to 8 hours after anesthetic recovery. Use with caution in cats with impaired hepatic function. SIMBADOL has not been evaluated in breeding, pregnant, or lactating cats, in cats younger than 4 months of age or moribund cats. Do not use in cats with known hypersensitivity to buprenorphine hydrochloride or any of the components of SIMBADOL, or known intolerance to opioids.

ADVERSE REACTIONS: In two controlled field studies, the most frequent adverse reactions with SIMBADOL were hypotension, tachycardia, hypothermia, hyperthermia, hypertension, anorexia, and hyperactivity. Less frequent but serious adverse reactions included two deaths following apnea and two reports of presumptive post-anesthetic cortical blindness. See the full prescribing information for a complete list and additional details of adverse reactions for each field study.

See the Brief Summary of full prescribing information, including the complete Boxed Warning for human safety, on the next page.

*Administered subcutaneously once daily for up to 3 days.

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A Promise for Life



1.8 mg/mL

For subcutaneous use in cats

BRIEF SUMMARY: Before using SIMBADOL, please consult the full prescribing information, a summary of which follows.

CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.

HUMAN SAFETY WARNING

Abuse Potential

SIMBADOL contains buprenorphine (1.8 mg/mL), an opioid agonist and Schedule III controlled substance with an abuse potential similar to other Schedule III opioids. Buprenorphine has certain opioid properties that in humans may lead to dependence of the morphine type. Abuse of buprenorphine may lead to physical dependence or psychological dependence. The risk of abuse by humans should be considered when storing, administering and disposing of SIMBADOL. Persons at increased risk for opioid abuse include those with a personal or family history of substance abuse (including drug or alcohol abuse or addiction) or mental illness (suicidal depression).

Life-Threatening Respiratory Depression

Respiratory depression, including fatal cases, may occur with abuse of SIMBADOL.

Additive CNS Depressant Effects

SIMBADOL has additive CNS depressant effects when used with alcohol, other opioids, or illicit drugs that cause central nervous system depression.

Accidental Exposure

Because of the potential for adverse reactions associated with accidental injection, SIMBADOL should only be administered by veterinarians or veterinary technicians who are trained in the handling of potent opioids.

See Human Safety for detailed information.

INDICATION: SIMBADOL is indicated for the control of postoperative pain associated with surgical procedures in cats.

DOSAGE AND ADMINISTRATION: The dosage of SIMBADOL is 0.24 mg/kg (0.11 mg/lb) administered subcutaneously once daily, for up to 3 days. Administer the first dose approximately 1 hour prior to surgery. Do not dispense SIMBADOL for administration at home by the pet owner (see Human Safety).

CONTRAINDICATIONS: SIMBADOL is contraindicated in cats with known hypersensitivity to buprenorphine hydrochloride or any of the components of SIMBADOL, or known intolerance to opioids.

WARNINGS: For subcutaneous (SQ) injectable use in cats.

Human Safety: Not for use in humans. Keep out of reach of children.

Because of the potential for adverse reactions, hospital staff should avoid accidental exposure and contact with skin, eyes, oral or other mucous membrane during administration. SIMBADOL contains buprenorphine, a mu opioid partial agonist and Schedule III controlled substance with an abuse potential similar to other Schedule III opioids. SIMBADOL can be abused and is subject to misuse, abuse, addiction and criminal diversion. SIMBADOL should be handled appropriately to minimize the risk of diversion, including restriction of access, the use of accounting procedures, and proper disposal methods, as appropriate to the clinical setting and as required by law. Abuse of SIMBADOL poses a hazard of overdose and death. This risk is increased with concurrent abuse of alcohol and other substances including other opioids and benzodiazepines. Buprenorphine has been diverted for non-medical use into illicit channels of distribution. All people handling opioids require careful monitoring for signs of abuse. Drug abuse is the intentional non-therapeutic use of a prescription drug for its rewarding psychological or physiological effects. Abuse of opioids can occur in the absence of true addiction. Naloxone may not be effective in reversing respiratory depression produced by buprenorphine. The onset of naloxone effect may be delayed by 30 minutes or more. Doxapram hydrochloride has also been used as a respiratory stimulant.

PRECAUTIONS: Hyperactivity (opioid excitation) has been observed up to 8 hours after anesthetic recovery (see ADVERSE REACTIONS). Safety has not been evaluated in moribund cats. Use in such cases should be based on the risk-benefit assessment of the veterinarian. Use with caution in cats with impaired hepatic function. The use of SIMBADOL has not been evaluated in breeding, pregnant, or lactating cats, or in cats younger than 4 months of age.

ADVERSE REACTIONS: In two controlled field studies, the following adverse reactions were reported.

Adverse Reactions in Two Field Studies

Adverse Reaction ^a	SIMBADOL (N = 224)		Control (N = 226)	
	During Surgery ^b	After Surgery	During Surgery ^b	After Surgery
Hypotension ^c	68 (30.4%)	51 (22.8%)	60 (26.5%)	40 (17.7%)
Tachycardia ^d	55 (24.6%)	73 (32.6%)	30 (13.3%)	44 (19.5%)
Hypothermia ($\leq 98.0^{\circ}\text{F}$)	38 (17.0%)	1 (0.4%)	47 (20.8%)	0
Hyperthermia ($\geq 103.0^{\circ}\text{F}$)	1 (0.4%)	91 (40.6%)	0	33 (14.6%)
Hypertension ^e	10 (4.5%)	40 (17.9%)	17 (7.5%)	18 (8.0%)
Anorexia	0	40 (17.9%)	0	35 (15.5%)
Hyperactivity	0	26 (11.6%)	0	11 (4.9%)
Reduced SpO ₂ ($\leq 90\%$)	8 (3.6%)	1 (0.4%)	11 (4.9%)	0
Bradycardia (≤ 90 beats/min)	5 (2.2%)	1 (0.4%)	4 (1.8%)	1 (0.4%)
Tachypnea (≥ 72 breaths/min)	0	5 (2.2%)	1 (0.4%)	6 (2.7%)
Arrhythmia	1 (0.4%)	1 (0.4%)	2 (0.9%)	0
Blindness	0	2 (0.9%)	0	1 (0.4%)
Apnea/Death	1 (0.4%)	1 (0.4%)	0	0
Ataxia	0	1 (0.4%)	0	0
Hyperesthesia	0	1 (0.4%)	0	0

- a. Cats may have experienced more than one type or occurrence of an adverse reaction. Cats experiencing the same reaction both during and after surgery are presented in both time periods.
- b. During surgery is the time from the administration of the anesthetic induction agent until discontinuation of the gas anesthetic.
- c. Hypotension is defined as a mean blood pressure of ≤ 60 mmHg during surgery and ≤ 90 mmHg after surgery.
- d. Tachycardia is defined as a heart rate of ≥ 180 beats per minute during surgery and ≥ 200 beats per minute after surgery.
- e. Hypertension is defined as a mean blood pressure of ≥ 120 mmHg during surgery and ≥ 160 mmHg after surgery.

To report suspected adverse events, contact Abbott Animal Health at 1-888-299-7416, FDA at 1-888-FDA-VETS or FDA online at <http://www.fda.gov/AnimalVeterinary/SafetyHealth>.

EFFECTIVENESS: The effectiveness of SIMBADOL was demonstrated in two randomized, masked, placebo-controlled, multi-site field studies involving client-owned cats of various breeds. A descriptive, interactive pain assessment system was used by the trained assessor over the 72-hour post-operative period to determine pain control, and treatment success was defined as a cat that completed the 72-hour post-operative period without rescue analgesia. A statistically significant difference ($P \leq 0.005$) in the number of successes in the treatment group over the placebo control group was observed. The results of two field studies demonstrate that SIMBADOL is effective and has an acceptable safety margin for the control of postoperative pain in cats.

HOW SUPPLIED: SIMBADOL (buprenorphine injection) is supplied in a carton containing one 10 mL amber glass vial. Each multidose vial contains 1.8 mg/mL of buprenorphine.

NADA 141-434, Approved by FDA
SIMBADOL is a trademark of Abbott Laboratories.
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Product of United Kingdom

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LECTURE DESCRIPTIONS

Lectures are listed in the order they will be presented.

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Strategic Timed Deworming Strategies for Cow-Calf and Stocker Operations

Donald Bliss

Discussion of the epidemiology of parasitic gastroenteritis in grazing cattle of all ages and how strategic timed dewormings can prevent economic loss.

Strategic Timed Deworming Strategies for Dairy Cattle of All Ages with Emphasis on the Value of Fecal Worm Egg Counts

Donald Bliss

Using science to determine deworming strategies for dairy cattle of all ages.

The Economics of Parasitism in Sheep and Goats Outlining the Most Common Types of Parasite Problems Found

Donald Bliss

Extrapolating data from thousands of fecal samples provides a great resource on the types of parasite problems found in sheep and goats across the US.

The Epidemiology of PGE and Strategic Timed Deworming Strategies for Sheep and Goats vs. FAMACHA

Donald Bliss

The development of parasitism in pastured sheep and goats follow similar patterns to those of cattle. Depending upon stocking rates small ruminants tend to have higher levels of pasture contamination earlier in the season than cattle. Strategic timed deworming is the only way to control parasitism in sheep and goats.

The Shift of Parasitism in Swine to the Large Roundworm and How Strategic Timed Dewormings Can Prevent the Spread of this Parasite in Confined Operations

Donald Bliss

Parasitism in swine has changed in the past 20 years to where *Ascaris* is the prime parasite affecting production. Strategic timed deworming is necessary to control this parasite. Fecal monitoring becomes very important in finding and treating this parasite.

Bulk Tank Basics: An Overview of Bulk Milk Bacteriology and Testing

Ernest Hovingh

Bulk milk bacteriological quality on a dairy farm can be monitored using various tests. This session will provide an overview of these tests, focusing on the bacterial populations that can be found in the tank, as well as interpreting test results.

Troubleshooting Milk Quality Issues

Ernest Hovingh

This session will utilize case study farms to demonstrate a systematic approach to troubleshooting bulk milk quality issues on dairy farms, so that the different factors can be ruled in or ruled out as potential areas of concern.

Bulk Milk Testing: What Else Can You Learn?

Ernest Hovingh

This session will provide an overview of the utility and interpretation of some of the commonly-used bulk milk tests. Guidelines will be discussed to help a veterinarian assess the value and usefulness of new tests in a herd health monitoring and surveillance program.

Dairy Quality Assurance I

Michaela Kristula

This session will introduce the concepts of treatment protocols and treatment recordkeeping and the importance of a valid veterinary client - patient relationship (VCPR). The responsibility of the dairy industry in the production of quality products both dairy and dairy beef by avoidance of drug residue violations will be discussed.

Dairy Quality Assurance II

Michaela Kristula

This session will introduce the development of treatment protocols to explicitly define diseases and provide instruction for treatment. The use of protocols on different dairy production units while also providing valid options for recordkeeping will be discussed.

Dairy Quality Assurance III

Billy Smith

A discussion of dairy farm pharmacology specifically focusing on drug identity, extra-label drug usage (ELDU), and drug and chemical control will be presented along with an introduction to the use of drug guides as tools to reduce the occurrence of drug residue violations.

REPTILE AND AMPHIBIAN

Reptile Clinical Pathology I and II

Vickie Joseph

An overview of cell lines of hematology and enzymes used for biochemical analysis of select reptile patients will be presented. Interpretation of the hematology and biochemistry values and how they reflect the disease processes will be discussed in detail.

Protozoal Parasitology in the Reptilian System

Adolf Maas

Parasitism is one of the most common health issues in reptile medicine. However, when dealing with these species, is it not as simple as a matter of presence equating disease. All aspects of the health of these animals must be considered, as well as a review of the more common organisms of concern.

Reptile Dermatological Conditions

Adolf Maas

Reptile skin health is rarely only a sign of a localized condition; dermatological condition is a reflection of the overall health of the animal. To treat these diseases, the pathologic processes need to be

considered so that an etiology can be determined and an effective treatment plan developed.

Reptile Anesthesia

Adolf Maas

Snakes, lizards and chelonians all have unique physiologies, and these factors must be considered when planning anesthetic events. Methods, pharmacological agents and specific concerns will be discussed.

Russian Tortoise Health and Concerns

Adolf Maas

As one of the more commonly seen chelonians in private practice today, Russian Tortoises have requirements for their husbandry as well as specific disease concerns. A brief review of current literature pertaining to this species will also be included.

Reptile Oral Anatomy and Disease

Leigh Ann Clayton

Review of comparative oral anatomy for the practitioner with discussion of major disease categories and relevant common diagnostic and treatment modalities. Interactive components for audience participation.

Amphibian Edema

Leigh Ann Clayton

Review clinically relevant anatomy and physiology of amphibian integument, urinary tract, and lymphatic systems in relation to osmoregulation with discussion of diseases associated with abnormal fluid accumulation and relevant diagnostic and treatment methods.

Herpetile Herpes

Leigh Ann Clayton

Review of herpesvirus-related diseases in reptiles and amphibians with discussion of major clinical differentials and management options.

SHELTER MEDICINE

The First 60 Minutes: Animal Sheltering's Critical Hour

Brian DiGangi

Participants will learn the importance of the first sixty minutes in an animal shelter in maximizing an animal's chances of a healthy, happy stay that ends in a live release. The importance of sound intake protocols and their impact on the stress response in dogs and cats will be addressed. Participants will gain familiarity with standard medical health protocols including physical examination, vaccination, deworming, and diagnostic disease testing as well as tools to identify behavioral needs and ensure good mental health in the shelter environment. Emphasis will be placed on the importance of preventive healthcare for the individual animal as a means to ensure overall population health and well-being in light of published guidelines for standards of care.

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LECTURE DESCRIPTIONS

Lectures are listed in the order they will be presented.

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Managing Heartworm Disease in the Animal Shelter *Brian DiGangi*

Balancing the safety and feasibility of canine heartworm disease management presents unique challenges to the shelter practitioner. This session will discuss practical recommendations for the successful management of this disease in light of ever-changing guidelines and availability of treatment modalities.

Applied Animal Behavior for the Shelter Veterinarian *Brenda Griffin*

Do you know what the animals are “saying” and how they are processing their experiences in the shelter? In order to provide for the behavioral needs of dogs and cats and monitor their welfare, the veterinary clinician **MUST** be well versed in the language and learning of dogs and cats. In other words, he/she must be able to accurately interpret their body language and vocalizations and understand “how they think”. The surprising truth is that even experienced veterinarians frequently misinterpret or fail to recognize what an animal is trying to express - and when we do, we miss an opportunity to provide that animal with proper care. Become more fluent in dog and cat and more savvy as to why they do what they do in the shelter!

What Really Happened? Putting Together the Crime Scene, Investigation, and Exam Findings I and II *Melinda Merck*

This lecture will cover how to analyze the crime scene findings and investigation findings to interpret the exam findings of the animal. Several cases will be presented to illustrate the importance of working with investigators and obtaining the context in order to properly analyze the veterinary findings.

Making the Case: Forensic Reports and Testimony *Melinda Merck*

This lecture will discuss the considerations for structuring a forensic report and key elements that are expected for legal reports. The expectations of testimony along with tips on providing testimony will be covered.

The Body of Evidence: What Decomposing Bodies Can Tell Us *Melinda Merck*

This lecture will discuss the varying degrees of decomposition and the potential types of evidence that may be obtained from examination. This will include buried bodies, frozen bodies, and skeletal remains.

Public Health Hazards of Animal Hoarding

Jeanette O'Quin

Following a brief introduction of animal hoarding response, this session will discuss physical, chemi-

cal, and biological hazards found in environments where animals are being hoarded. Procedures for mitigating human health risks and recommendations for personal protective equipment will be provided.

Introduction to Outbreak Response

Jeanette O'Quin

Infectious disease outbreaks can occur in any shelter despite ongoing efforts to prevent them. Early detection and response can minimize the duration and impact of an outbreak and provide information that may prevent similar occurrences. This session will cover outbreak management including planning, investigation, and control measures.

Tabletop Exercise: Zoonotic Disease

Outbreak I, II, and III *Jeanette O'Quin and Brian DiGangi*

Participants in this session will take part in one of three shelter-related disease outbreak scenarios. Guided group discussions will follow each scenario from recognition and diagnosis through response and management. Participants will be able to make decisions and assess their impact on both animal and public health in a safe environment with real-life practical applications.

AVTCP

CANINE AND FELINE

Nutritional Support *Ann Wortinger*

With all the advances in veterinary medicine, do we still need to pay attention to nutrition? Nutrition is more than just a source of calories for fuel to run the machine. Learn how the best medicine and surgical techniques can't overcome poor nutrition and how excellent nutrition can provide the best outcome for our patients.

CANINE AND FELINE

The Ins and Outs of Feeding Tubes *Ann Wortinger*

With the wide array of feeding tubes available and the multiple options for placement, how do you decide which tube is best for which animal and which problem? Learn the differences between the various tube type, placement options, and diet considerations.

CANINE AND FELINE

Feeding Tubes Management and Complications *Ann Wortinger*

We've finally gotten a feeding tube in that anorexic patient. What challenges are yet in store for you? We'll cover typical management issues as well as common complications. Learn how to treat and more importantly how to avoid many of these issues encountered in feeding tube use.

CANINE AND FELINE

Refeeding Syndrome *Ann Wortinger*

Does this really exist outside the research arena? If you work with diabetics, hepatic lipidosis cats or Cushing's dogs, you've seen this syndrome. Learn how refeeding syndrome develops, how to recognize it and how to treat it.

CANINE AND FELINE

Hepatic Lipidosis *Ann Wortinger*

Hepatic lipidosis is the most common form of liver disease seen in cats. Just because it's common doesn't mean it isn't serious or that it can't be treated. Learn what changes occur in the liver to cause lipidosis, common complications, and what treatments provide the best outcome for our patients.

CANINE AND FELINE

Ins and Outs of Fluid Therapy *Ann Wortinger*

Fluid therapy is something we should all be doing on a daily basis, but what exactly are we doing? Learn about fluid distribution within the body, indications for fluid therapy, how to calculate for hydration deficits, maintenance requirements, and replacement losses. Also addressed will be routes of administration and types of fluids that can be used.

EXOTICS

A Frog Hops Into the Practice - Amphibian Medicine and Emerging Diseases *Jill Murray*

Pet amphibians are increasing in pet popularity and subsequently in the veterinary hospital. Amphibian medicine and knowledge of emerging diseases affecting these species is becoming increasingly important.

EXOTICS

Bandaging and Wound Management in Exotic Pets *Jill Murray*

Traumatic and post-surgical wounds can present many challenges in the exotic pet. Different bandaging and wound management techniques and modifications for these unique species will be discussed.

EXOTICS

Nutritional Diseases of Small Mammals

Jill Murray

You are what you eat, or maybe what you don't eat! Nutritional deficiencies are all too often causes of illness in exotic pet animals.

EXOTICS

Avian Cardiology - How Fast Can You Count?

Jill Murray

The avian heart although structurally similar to the mammalian heart has some unique details. This session will include a discussion and in-depth review

LECTURE DESCRIPTIONS

Lectures are listed in the order they will be presented.

of the avian cardiovascular system and common presentations of cardiac disease in pet birds.

EXOTICS

Avian Hematology - What Do Those Results Mean? *Jill Murray*

You've managed to get the blood sample from the bird, and now you have the results but what do they mean?

EXOTICS

Psittacine Viruses - An In-Depth Review *Jill Murray*

Having an in-depth knowledge of the viral diseases affecting our pet psittacines is important and often complicated. A comprehensive review of these viruses and their clinical applications will be discussed.

SPEAKERS

Scott M. Austin, DVM, MS, DACVIM (LAIM)

Jennifer G. Barrett, DVM, PhD, DACVS, DACVSMR

Donald H. Bliss, PhD

Ronald M. Bright, DVM, MS, DACVS

Christopher G. Byers, DVM, DACVECC, DACVIM (SAIM)

Vittorio Capello, DVM, DECZM (Small Mammals), DABVP (Exotic Companion Mammal Practice)

Leigh Ann Clayton, DVM, DABVP (Reptile and Amphibian Practice), DABVP (Avian Practice)

Craig Datz, DVM, MS, DABVP (Canine and Feline Practice), DABVP (Feline Practice), DACVN

Brian A. DiGangi, DVM, MS, DABVP (Canine and Feline Practice)

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

Cheryl Greenacre, DVM, DABVP (Avian Practice), DABVP (Exotic Companion Mammal Practice)

Brenda Griffin, DVM, MS, DACVIM

Rick Griggs, MA

Kate F. Hurley, DVM, MPVM

Ernest Hovingh, DVM, PhD

Vickie Joseph DVM, DABVP (Avian Practice)

Michaela A. Kristula, DVM, MS

Angela M. Lennox, DVM, DABVP (Avian Practice), DABVP (Exotic Companion Mammal Practice)

Ed Loebach, DVM, DABVP (Canine and Feline Practice)

Adolf K. Maas, DVM, DABVP (Reptile and Amphibian Practice)

Melinda D. Merck, DVM

LeMac' Morris, DVM, MPH, DACVPM

Jill Murray, RVT, VTS (Exotic Companion Mammals)

Jeanette O'Quin, DVM, MPH

Billy I. Smith, DVM, MS, DABVP (Food Animal Practice)

Marcy J. Souza, DVM, MPH, DABVP (Avian Practice), DACVPM

Douglas H. Thamm, VMD, DACVIM (Oncology)

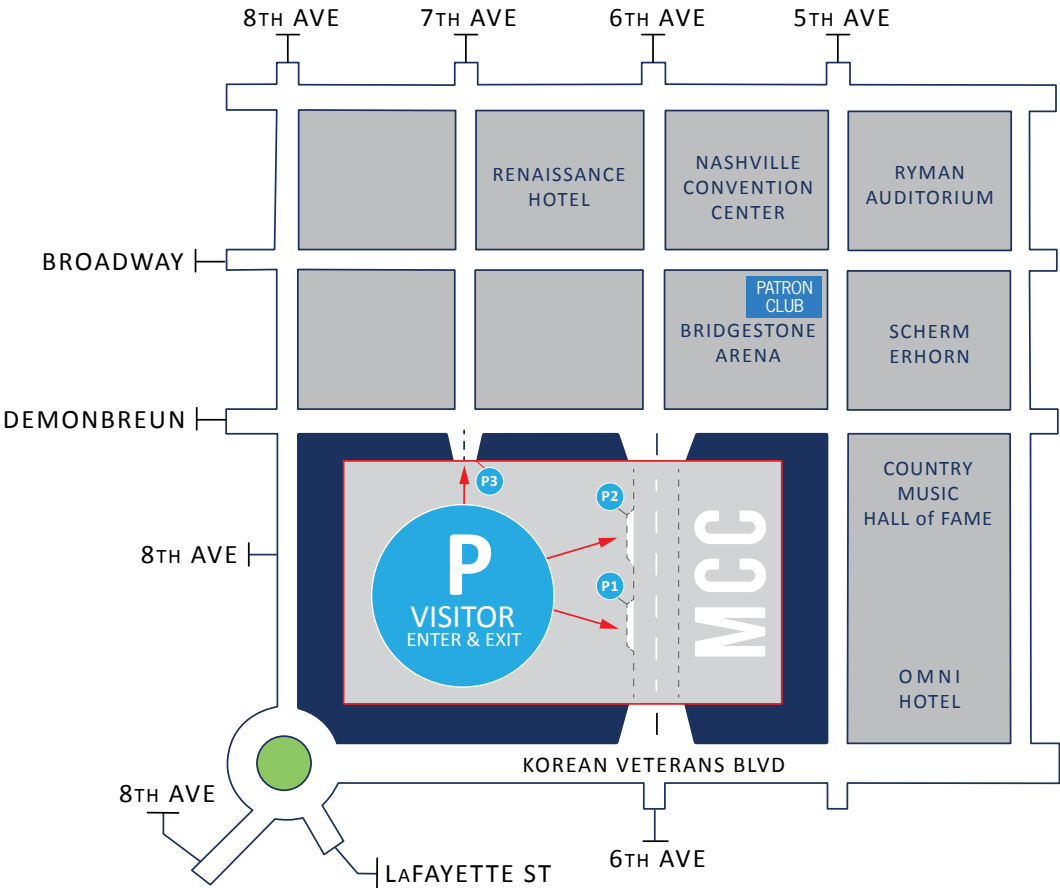
David C. Twedt, DVM, DACVIM

Ann Wortinger BIS, LVT, VTS (ECC, SAIM, Nutrition)

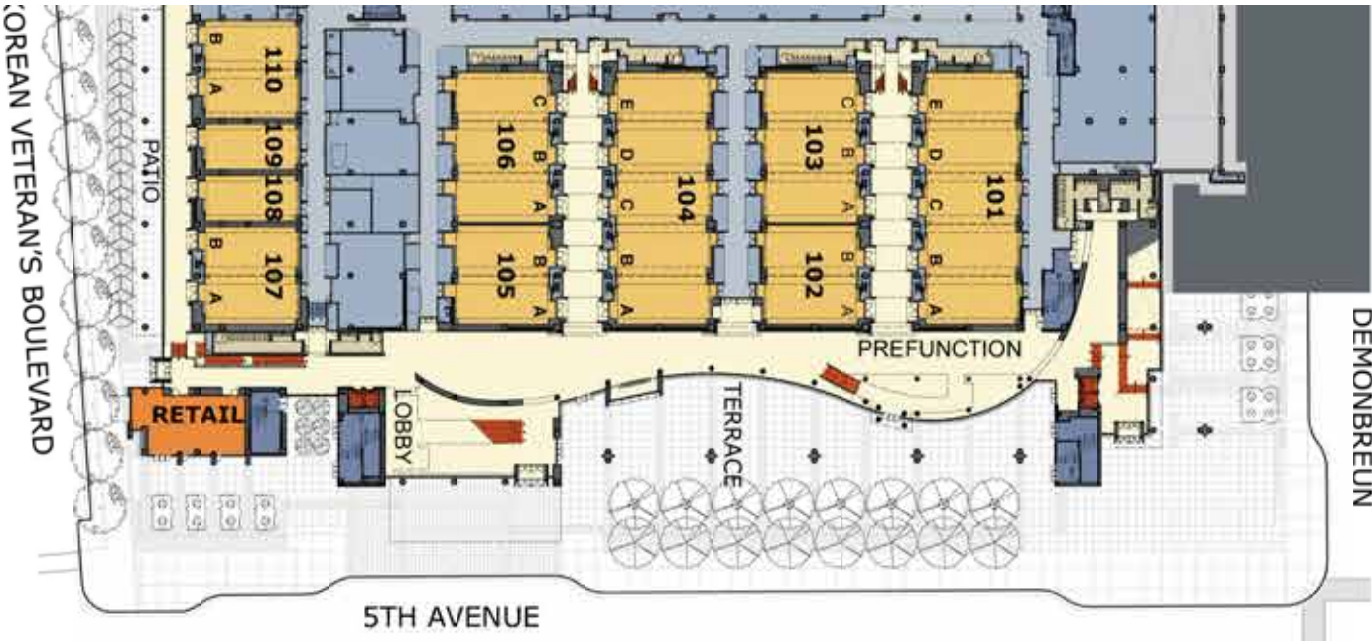


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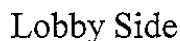
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