

EVENT PROGRAM

Innovation,
Science +
BEYOND



JUNE 8-10
2017

Specialty Symposium | June 7
ACVIM Forum | June 8-10
Exhibit Hall | June 8-9

Gaylord National Resort
and Convention Center
National Harbor, MD

ACVIM

American College of
Veterinary Internal Medicine

Forum

The New Generation of the One That Started it All...

Introducing Vivid iq Vet

The Premiere Portable for
Cardiology Ultrasound

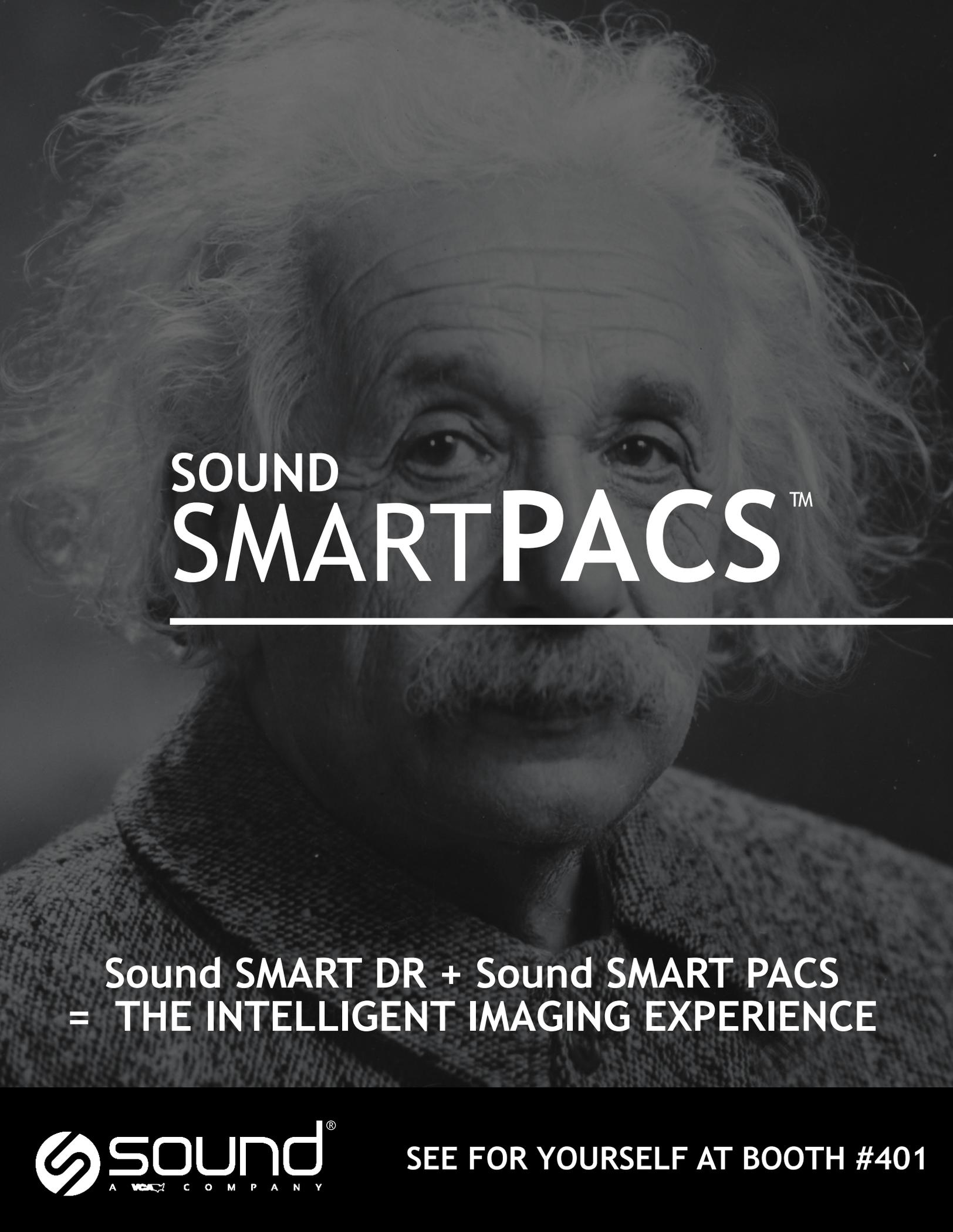


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NEW

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FORMULATED TO IMPROVE MOBILITY IN AS LITTLE AS 21 DAYS

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Introducing **the ONLY renal solution** that also improves mobility with the full strength efficacy of k/d® plus j/d®.

- + Supports the dog's natural ability to **build lean muscle daily**
- + Formulated to **stimulate appetite**
- + Formulated to increase **vitality and alertness** in older dogs

For more information, talk to your Hill's Representative.





ACVIM

2017 FORUM

Specialty Symposium | June 7
 ACVIM Forum | June 8-10
 Exhibit Hall | June 8-9

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Note: The speaker list is available on the mobile app

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CONTACT INFORMATION:

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 Greenwood Village, CO 80111
TELEPHONE 303.231.9933 | **TOLL-FREE** 800.245.9081 | **EMAIL** Forum@ACVIM.org | **WEBSITE** www.ACVIMForum.org

CONNECT:



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 #ACVIMForum

Dear Colleagues,

On behalf of the ACVIM Board of Regents, the members of the ACVIM Forum Program Committee and the ACVIM staff, welcome to the 2017 ACVIM Forum!

The ACVIM Forum is the world's largest conference focusing on veterinary internal medicine. This year more than 3,000 attendees from all over the world are expected: Board-certified veterinary specialists in small and large animal internal medicine, cardiology, neurology and oncology, veterinarians with a strong interest in these areas, residents, interns, graduate and professional students and veterinary technicians. The Forum is the premier event for professional growth, exploration of the latest developments for those interested in veterinary internal medicine, and networking with colleagues.



Be sure to take advantage of this year's comprehensive program including:

- The Specialty Symposium and Reception on Wednesday, June 7 (access limited to ACVIM Diplomates, ACVIM candidates, and invited guests).
- A full selection of scientific and interactive sessions for veterinarians, veterinary researchers and veterinary technicians. Please attend as much as you like in the learning format that benefits you most. More than 460 hours of CE are available!
- The keynote presentation 'From Disney to Dean. Insights and Observations' on Friday, June 9 by Dr. Mark Stetter, Dean of the College of Veterinary Medicine and Biomedical Sciences at Colorado State University.
- Research abstract oral and poster presentations which include a Wine and Cheese Opening Reception and Poster Viewing on Thursday night.
- Opportunities to network with your colleagues during the Big Bash on Friday, luncheons and educational sessions.
- A bustling exhibit hall where you can meet our partners from the industry, learn about new or familiar products, and get hands-on experience with the latest medical devices.

Whether it's your first time at the ACVIM Forum or you have been a regular attendee, you can look forward to wonderful educational opportunities over the next few days. Please enjoy time well spent with new and old friends. Thank you for being part of the 2017 ACVIM Forum!

Harold C. McKenzie, III, DVM, MS, PG Diploma (VetEd), FHEA, Diplomate ACVIM (LAIM)
2017 ACVIM Forum Program Chair

THANK YOU TO THE MEMBERS OF THE 2017 ACVIM FORUM PROGRAM COMMITTEE

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Large Animal Internal Medicine
Chair

Dr. Jana Gordon
Small Animal Internal Medicine
Assistant Chair

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REDUCES SEIZURES IN EPILEPTIC DOGS

WHEN FED AS AN ADJUNCT TO VETERINARY THERAPY

**FIRST & ONLY DIET
TO NUTRITIONALLY MANAGE
DOGS WITH EPILEPSY***



LEARN MORE AT **BOOTH #317**

Law TH, Davies ES, Pan Y, et al. A randomised trial of a medium-chain TAG diet as treatment for dogs with idiopathic epilepsy. *Br J Nutr.* 2015 Nov 14;114(9):1438-47

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**as an adjunct
to veterinary
therapy*

The ACVIM Forum is possible because of the generous support of these industry partners.

PLATINUM



A special thanks to VIN for their support of the Mobile App, Cyber Cafés and Wi-Fi.

GOLD



SILVER



BRONZE



GENERAL



Hope. Elevated.

Changing the way cancer is fundamentally treated.

ELIAS Animal Health is a medical biotechnology company advancing the treatment of cancer in dogs with a novel therapeutic approach that offers the promise of improved clinical outcomes and quality of life. Our approach is profoundly simple: Every patient is unique. Therefore, cancer therapy itself must be unique.

ELIAS Cancer Immunotherapy (ECI™) is a personalized T cell-based treatment platform currently in development that triggers the patient's own immune system to eliminate the individual cancer. We are changing the way cancer is fundamentally treated by developing novel immunotherapies as unique as the patient.

Don't miss these opportunities to learn more:



Visit Booth 334 for an update on clinical studies and ask how you could win a FREE set of Beats® wireless earbuds.



Join Dr. Jeffrey Bryan in the Knowledge Corner on Friday June 9th at 1:20 - 2:00 p.m., lunch voucher provided.



LOCATIONS

All events will be held at the Gaylord National Resort & Convention Center unless otherwise noted.

REGISTRATION DESK HOURS

The Registration Desk is located on the Ballroom Level of the Gaylord National Resort in the Convention Center Pre-function area.

Hours

| | |
|--------------------|-----------------|
| Tuesday, June 6: | 2:00–7:00 pm |
| Wednesday, June 7: | 7:00 am–7:00 pm |
| Thursday, June 8: | 7:00 am–7:00 pm |
| Friday, June 9: | 7:00 am–7:00 pm |
| Saturday, June 10: | 7:00 am–5:00 pm |

FREE WI-FI ACCESS

Provided by



American College of Veterinary Internal Medicine

Stay connected with Wi-Fi access in all of the ACVIM Forum public areas at the Gaylord National Resort & Convention Center. Connect to the ACVIM network and login as follows:

Network: ACVIM

Username: forum

Password: 2017

Log in information is case specific and also can be found on the reverse side of your badge.



AUDIO AND VIDEO RECORDING

Added value for attendees! Many sessions will be video or audio recorded for on-demand access following the ACVIM Forum. As an ACVIM Forum attendee, you will receive access to the recordings available based on your registered days of attendance. Plan your time by making note of icons identifying recorded sessions throughout the program. Instructions for accessing content will be sent to all attendees via email following the conference.



Indicates Video Recording



Indicates Audio Recording

PHOTO DISCLOSURE

ACVIM intends to take photographs and video of this event for use in ACVIM news and promotional materials, in print, electronic and other media, including the website. By participating in this event, you grant ACVIM the right to use any image, photograph, voice, or likeness without limitation, in its promotional materials and publicity efforts without compensation. All media becomes the property of ACVIM. Media may be displayed, distributed or used by ACVIM for any purpose.

BEACON TECHNOLOGY

New this year! Located on the back of your badge, you will find a small, wearable beacon. This device sends a unique signal allowing the ACVIM to track room capacities and determine traffic patterns to enhance the attendee experience. We are excited to see in real time what holds the most value for our attendees and use that in our decision making moving forward.

This tracking does NOT extend outside of the conference area and, rest assured, we will not share your information with others. As always, exhibitors will have devices to scan your badges to receive your contact information at your discretion.

MOBILE APP



The mobile app is the best way to stay connected and up-to-date on all conference activities. To access all the information you need with your smartphone or tablet, search for: 2017 ACVIM Forum in the store list. Through the app, you have access to the following features:

- Create a custom agenda
- Meeting and event schedules
- Latest program and room updates
- Exhibitor and sponsor information
- Proceeding notes
- National Harbor information

PRE-REGISTRATION AND ADDITIONAL FEES

Throughout the ACVIM Forum, there are events or sessions which may require pre-registration, additional fees or both to attend. To help identify these sessions, look for these icons throughout the event program.



Pre-registration and additional fees required



Pre-registration required

PROCEEDINGS

As a conference participant, you have access to the proceedings. Proceedings are available in the following locations:

- › VIN website
- › Cyber Cafés
- › Mobile app

VIN will be at the Cyber Cafés, located near registration and in the Exhibit Hall at booth 137, to provide assistance as needed. All on-site registrants should stop by one of these locations to confirm access to the proceedings.

CYBER CAFÉS *Powered by* VIN

Stay connected while away from the office by visiting one of the Cyber Café locations at the Gaylord National Resort & Convention Center. Check email, print your boarding pass or access the proceedings. Located near registration and in the Exhibit Hall at booth 137.

PRODUCT SHOWCASE

Check out the 2017 ACVIM Forum Product Showcase located near registration and see some of the latest and most innovative products in the veterinary industry. Industry partners showcase their best and newest product ideas in one place for optimal viewing. Stop by and learn more and follow up with them in person at their booth in the exhibit hall.

Featured partners include:

| | |
|---------------------------------|-----------|
| Antech Diagnostics | Booth 401 |
| Dechra Veterinary Products | Booth 501 |
| Elanco Companion Animal Health | Booth 323 |
| ELIAS Animal Health | Booth 334 |
| Karl Storz Veterinary Endoscopy | Booth 723 |
| Purina | Booth 317 |

PROVIDE FEEDBACK, ENTER TO WIN AN APPLE WATCH

We want your feedback! Help us improve your Forum experience by completing session surveys (through the mobile app) and the post-conference survey (post conference email). For every survey you complete, you will be entered into a drawing to win one of two Apple Watches. The more you enter (make sure to include your contact information) the better your chances of winning!

CONTINUING EDUCATION CREDIT

Veterinarians

Earn up to 42.5 Continuing Education (CE) hours in just four days.

Technicians

Earn up to 37 hours of high caliber Continuing Education (CE) with tracks designed just for you.

ATTENTION Texas-Licensed Veterinarians

The 2017 ACVIM Forum meets the requirements of the Texas Veterinary Licensing Act mandated by the 79th Legislature and adopted by the Texas Board of Veterinary Medical Examiners relating to verifying continuing education credit for Texas-licensed veterinarians.

ATTENTION New York-based Veterinarians and Technicians



The 2017 ACVIM Forum meets the requirements for continuing education from the New York State Board of Veterinary Medicine.

RACE Approved

This program 572-29543 is approved by the AAVSB RACE to offer a total of 481.00 CE Credits (42.5 max) being available to any one veterinarian and/or 504.00 Veterinary Technician CE Credits (37 max). This RACE approval is for the subject matter categories of:

- Category One: Scientific
- Category Two: Non-Scientific-Clinical
- Category Three: Non-Scientific-Practice Management/Professional Development using the delivery method of Seminar/Lecture

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

ADDITIONAL INFORMATION

For information about transportation options, parking and child care services, please visit ACVIMForum.org and select "attend."

EXHIBIT HALL HAPPENINGS

The exhibit hall will be a hub of activity with more than 140 companies showcasing the latest in veterinary products and services, as well as many conveniences to experience. Make sure to plan your time accordingly.

See detailed schedule or the Forum mobile app for more information.

EXHIBIT HALL HOURS

Thursday, June 8

9:30 am–4:30 pm, 6:00–7:30 pm

Friday, June 9

9:30 am–4:30 pm

Refreshment breaks daily in the exhibit hall at 9:50–10:30 am and 4:00–4:30 pm.

JOB BOARDS

Looking for a new career opportunity or need to hire? This is the place to look. Be sure to stop by the Job Boards located in the exhibit hall in booth 729.

Sponsored by  **blackwellking**
VETERINARY CHANGE CONSULTANTS

RECHARGE YOUR PHONE AND YOURSELF

We know attending an event can drain your battery. For your ease, charging bars will be located in the exhibit hall, booth 413. Bring your cords and plug in your phone, tablet or laptop to recharge.

Sponsored by  **blackwellking**
VETERINARY CHANGE CONSULTANTS

ACVIM APPAREL

Make sure to stop by the ACVIM apparel store located in booth 136. Show your support for your college with a variety of shirts, fleece jackets and vests, tote bags and water bottles.

POSTERS AND MORE!

View the results of the latest scientific research while more than 200 posters are on display Thursday and Friday in the exhibit hall. During the Wine and Cheese Opening Reception on Thursday from 6:00–7:30 pm you'll have the opportunity to meet the authors, enjoy wine and light snacks and network with your friends and colleagues.

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VETERINARY
DIETS

ACVIM
American College of
Veterinary Internal Medicine

KNOWLEDGE CORNER

Learn without leaving the exhibit hall in booth 801! Visit the Knowledge Corner in the exhibit hall to hear exciting bursts of educational information. Mid-morning sessions include a complimentary beverage and lunch sessions include a beverage and a food voucher.

Thursday, June 8

10:00–10:25 am

Tanovea-CA1: A Novel Advancement for the Treatment of Canine Lymphoma

Dr. Douglas Thamm

Sponsored by



12:30–1:10 pm

Canine and Feline Cystoscopy: How to Advance Diagnostic and Therapeutic Endeavors

Dr. Allyson Berent

Sponsored by



1:20–2:00 pm

Stuck in the Stone Age—Understanding Bladder Stones

Dr. Jody Lulich

Sponsored by



Friday, June 9

10:00–10:25 am

Electrochemotherapy: A Valuable Addition to the Armamentarium of the Cancer Treatment Options

Dr. Joseph Impellizzeri

Sponsored by



12:30–1:10 pm

Flat Faced n' Brachycephalic – What's New?

Dr. Brendan McKiernan

Sponsored by



1:20–2:00 pm

ELIAS Cancer Immunotherapy: Autologous Activated T cell Therapy for Canine Osteosarcoma

Dr. Jeffrey Bryan

Sponsored by



RESEARCH POSTERS

| | | | | | |
|----------------------------|---|-----------------------------------|-----------------------------|---------------------------------------|---------------------------------------|
| ACVIM Apparel Store 136 | Cyber Cafe 137 | NorthStar VETS 239 | Pet Partners 338 | Access Specialty Animal Health 339 | Natus Neurology 438 |
| 134 | Lakeshore Veterinary Specialists 135 | DexDoris Inc. 234 | petMAP 237 | Shelton Pharmacy 337 | Chop Good Veterinary Associate 436 |
| 132 | USHD, Inc. 131 | Best Pet Rx Surprise Event 229 | Best Pet Rx 235 | Equipment Outreach, LLC 335 | Natures Laboratories 434 |
| 130 | Novus Biosciences 128 | Core Imaging 123 | Blue Buffalo Company 223 | Pathway 331 | Chop Good Veterinary Associate 435 |
| 126 | ExoGI Pharma 124 | VEDCO, Inc. 122 | AnimatScan 322 | RAIDOCAT 428 | Timeless Veterinary Systems 538 |
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| 116 | 117 | 216 | SpringSoft, Inc. 221 | Purina 317 | BCP Veterinary Pharmacy 534 |
| 110 | 108 | 106 | Hawaiian Moon 219 | 416 | |
| 104 | 101 | 201 | Merk Animal Health 217 | 417 | |
| 100 | 101 | 300 | 318 | 413 | |
| | 107 | 307 | 316 | 417 | |
| | 207 | 401 | 316 | 509 | |
| | 201 | 301 | 316 | 609 | |
| | 201 | 301 | 316 | 709 | |
| | 201 | 301 | 316 | 801 | |

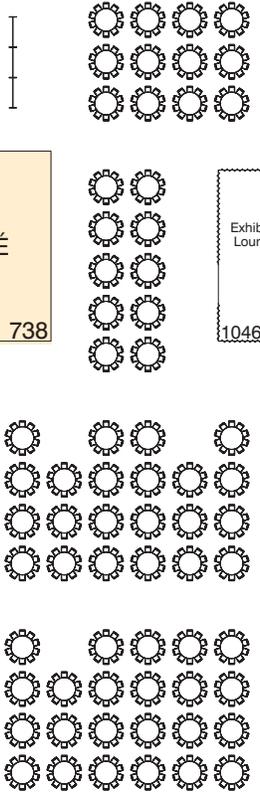
EXHIBIT HALL CAFÉ

Open 11:30 am-2:00 pm

738

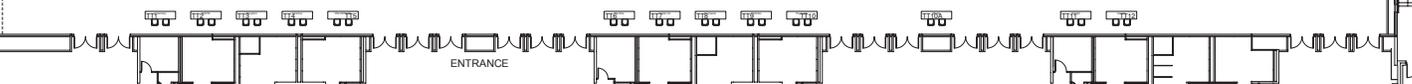
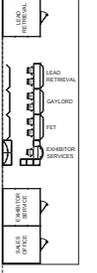
Exhibitor Lounge

1046



KNOWLEDGE CORNER

801



See page 35
for a list of exhibitors
offering prize drawings.
Be sure to visit their
booths to register to win!

Exhibit Hall Café hours
11:30 am-2:00 pm
See page 70 for a list of
all exhibitors.

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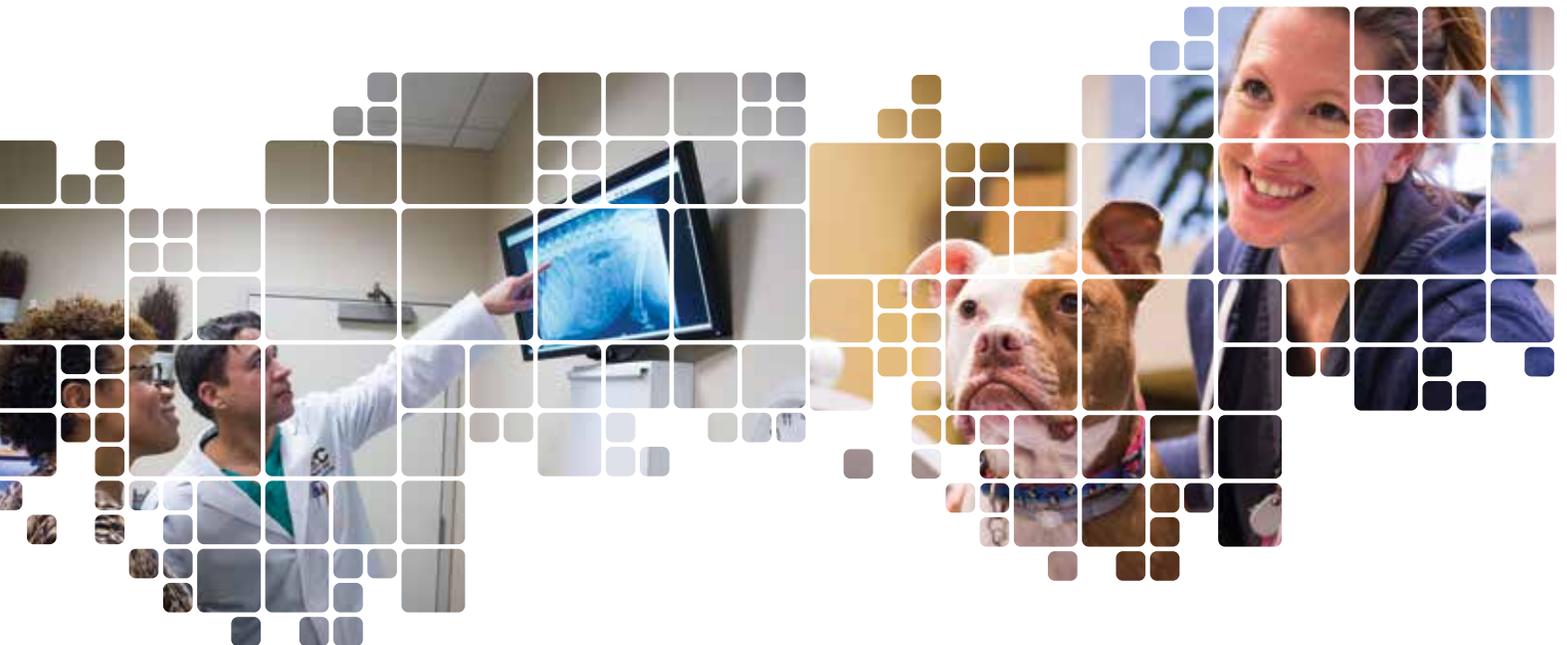
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Until now, there have been limited therapeutic options to restore appetite. That's why we created ENTYCE® (capromorelin oral solution), the only **FDA-approved** therapeutic designed to safely and effectively stimulate appetite in dogs.

ENTYCE works by mimicking the hunger hormone ghrelin. Administered orally once a day, ENTYCE is appropriate to treat inappetence caused by chronic and acute conditions.

Visit Aratana booth #509.


(capromorelin oral solution)



IMPORTANT SAFETY INFORMATION: ENTYCE® (capromorelin oral solution) is for use in dogs only. Do not use in breeding, pregnant or lactating dogs. Use with caution in dogs with hepatic dysfunction or renal insufficiency. Adverse reactions in dogs may include diarrhea, vomiting, polydipsia, and hypersalivation. Should not be used in dogs that have a hypersensitivity to capromorelin. Please see the full Prescribing Information for more detail. A copy of the full Prescribing Information is available at the Aratana booth (#509).

TUESDAY, JUNE 6

| Time | Event | Room |
|------------------|---|--|
| 8:30 am–5:15 pm | General Exam | Riverview Ballroom |
| 8:00 am–12:30 pm | AIMVT & AVNT Examinations | Chesapeake HI |
| 8:00 am–12:00 pm | ACVIM Board of Regents Meeting | Chesapeake 5/6 |
| 8:00 am–12:00 pm | ACVN Certification Exam | Chesapeake 2 |
| 8:00 am–12:00 pm | ACVN Certification Exam #2 | Chesapeake 3 |
| 1:00–5:00 pm | JVIM Editorial Board Meeting | National Harbor 15 |
| 1:30–8:00 pm | ACVN Annual Meeting | Chesapeake DE |
| 1:30–6:00 pm | AIMVT Executive Board Meeting | Chesapeake G |
| 2:00–7:00 pm | Registration | Convention Center Pre-function |
| 2:00–7:00 pm | Speaker Ready Room | Chesapeake JKL |
| 2:00–7:00 pm | Cyber Café <i>(Available other times throughout the conference unmanned)</i> | Convention Center Pre-function |
| 2:00–3:00 pm | Cardiology Forum Subcommittee Meeting | Chesapeake 5/6 |
| 3:00–5:00 pm | Forum Program Committee Meeting (Specialty Subcommittees) | Chesapeake 5/6 |
| 4:00–5:30 pm | Marketing and Communications Committee (MCC) Meeting | National Harbor 9 |
| 5:30–7:30 pm | 💰✔ Candidate Appreciation Reception <i>Sponsored by BlackwellKing</i> | OFFSITE - Sunset Room by Wolfgang Puck |
| 7:00–10:00 pm | ACVN Annual Meeting Dinner | Chesapeake F |
| 7:30–9:30 pm | LAIM Residency Training & Credentials Committee (RTCC) Business Meeting | National Harbor 9 |
| 7:30–9:30 pm | SAIM Residency Training Committee (RTC) Business Meeting | Chesapeake 12 |

WEDNESDAY, JUNE 7

| Time | Event | Room |
|-----------------|--|--------------------------------|
| 6:30–8:00 am | Advanced Continuing Education (ACE) Committee Meeting | Chesapeake F |
| 6:30–8:00 am | International Relations Committee (IRC) Meeting | National Harbor 1 |
| 7:00 am–7:00 pm | Registration | Convention Center Pre-function |
| 7:00 am–7:00 pm | Speaker Ready Room | Chesapeake JKL |
| 7:00 am–7:00 pm | Candidate Lounge <i>Sponsored by BlackwellKing</i> | Chesapeake 2/3 |
| 7:00 am–7:00 pm | Diplomate Lounge <i>Sponsored by VCA</i> | Chesapeake AB |
| 7:00–7:20 am | Moderator Training (Scientific Sessions) | Chesapeake DE |
| 7:20–7:40 am | Moderator Training (Research Abstracts) | Chesapeake DE |
| 7:30 am–6:00 pm | 💰✔ Childcare | Chesapeake 10/11 |
| 7:30 am–6:30 pm | 2017 AAVN Clinical Nutrition & Research Abstract Symposium | Potomac 1-4 |
| 7:30 am–4:30 pm | Cyber Café <i>(Available other times throughout the conference unmanned)</i> | Convention Center Pre-function |
| 8:00 am–5:45 pm | Specialty Symposia (Sessions, Breaks, Lunches, Business Meetings, Candidate Functions, Diplomate Certificate Ceremonies) | See pages 28-31 |
| 8:00 am–5:00 pm | ACVIM Member Benefit: Texas A&M University Medical Sciences Library | Convention Center Pre-function |
| 12:00–1:30 pm | SAIM Credentials and Residency Training Informational Meeting | Chesapeake F |

WEDNESDAY, JUNE 7 *(continued)*

| Time | Event | Room |
|---------------|---|--|
| 1:00–5:00 pm | Technician Case Reports <i>Sponsored by Hill's Pet Nutrition, Inc.</i> | See page 32 |
| 1:00–2:00 pm | Friends of Dr. Bob and Bill W. Meeting | National Harbor 1 |
| 5:00–7:00 pm | Specialty Symposium Reception <i>Sponsored by VCA and ACVIM</i> | Potomac 1 Pre-function |
| 5:30–6:30 pm | AIMVT/AVNT Reception & Technician Cases Presentation Awards <i>Sponsored by Hill's Pet Nutrition, Inc.</i> | National Harbor 5 |
| 6:30–10:00 pm | AIMVT Annual Membership Meeting | National Harbor 4 |
| 7:15–10:30 pm | ✓ Oncology Specialty Dinner and Diplomate Certificate Ceremony <i>Sponsored by BestPet RX</i> | OFFSITE - Sunset Room by Wolfgang Puck |
| 7:30–11:00 pm | ✓ Large Animal Internal Medicine Specialty Reception <i>Sponsored by Boehringer Ingelheim Animal Health</i> | OFFSITE - By invitation only |

THURSDAY, JUNE 8

| Time | Event | Room |
|-----------------|--|-------------------------------------|
| 6:30 am–9:30 pm | Interactive Sessions | See page 39 |
| 6:30–8:30 am | SAIM Credentials Committee Meeting | National Harbor 1 |
| 6:30–8:00 am | ACVIM Education and Research Committee (ERC) Meeting | Eastern Shore 3 |
| 7:00 am–7:00 pm | Registration | Convention Center Pre-function |
| 7:00 am–7:00 pm | Speaker Ready Room | Chesapeake JKL |
| 7:00 am–7:00 pm | Candidate Lounge <i>Sponsored by BlackwellKing</i> | Chesapeake 2/3 |
| 7:00 am–7:00 pm | Diplomate Lounge <i>Sponsored by VCA</i> | Chesapeake AB |
| 7:30 am–4:30 pm | Cyber Café <i>Powered by VIN</i> <i>(Available other times throughout the conference unmanned)</i> | Convention Center Pre-function |
| 7:30–8:45 am | LAIM Resident Chat | Chesapeake 4 |
| 7:40–8:00 am | Moderator Training (Research Abstracts) | Chesapeake 5/6 |
| 7:45 am–6:30 pm | \$ ✓ Childcare | Chesapeake 10/11 |
| 8:00 am–9:30 pm | Technician Program | See page 38 |
| 8:00–8:20 am | Moderator Training (Scientific Sessions) | Chesapeake 5/6 |
| 9:00 am–6:15 pm | Scientific Sessions | See pages 34–38 |
| 9:00 am–6:15 pm | Research Abstracts | See pages 40–44 |
| 9:30 am–4:30 pm | Exhibit Hall & Poster Presentations | Exhibit Hall CDE See pages 62–73 |
| 9:50–10:30 am | Beverage Break | Exhibit Hall CDE |
| 12:30–2:00 pm | Membership Luncheon and Awards Ceremony | Potomac AB |
| 12:30–2:00 pm | Cummings School of Veterinary Medicine Alumni Luncheon | Chesapeake 4 |
| 1:00–2:00 pm | Friends of Dr. Bob and Bill W. Meeting | National Harbor 1 |
| 4:00–4:25 pm | Beverage Break | Exhibit Hall CDE |
| 5:00–6:00 pm | Student Reception | Lower Atrium |
| 6:00–8:00 pm | University of Minnesota ACVIM Alumni Reception | OFFSITE - Cadillac Ranch |

THURSDAY, JUNE 8 *(continued)*

| Time | Event | Room |
|---------------|---|--|
| 6:00-7:30 pm | Wine and Cheese Opening Reception & Poster Viewing <i>Sponsored by Purina and ACVIM</i> | Exhibit Hall CDE |
| 6:00-7:30 pm | Exhibit Hall & Poster Presentations | Exhibit Hall CDE See pages 62-73 |
| 6:30-8:00 pm | Compassion-First Pet Hospitals Alumni and Employee Reception | Potomac 5 |
| 7:30-10:00 pm | \$ ✓ Cardiology Specialty Dinner <i>Sponsored by Boehringer Ingelheim Animal Health and IDEXX</i> | OFFSITE - Sunset Room by Wolfgang Puck |

FRIDAY, JUNE 9

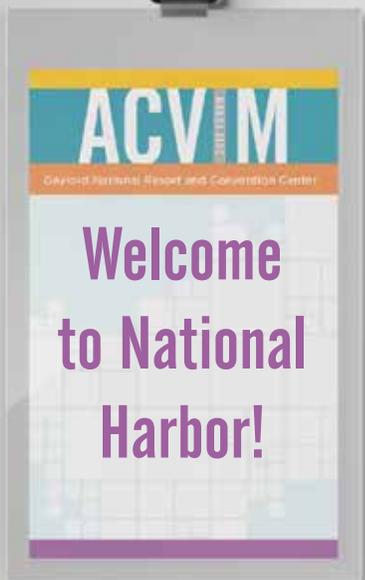
| Time | Event | Room |
|------------------|--|-------------------------------------|
| 6:30-7:50 am | Forum Program Committee Meeting (AASIGs) | National Harbor 1 |
| 6:30 am-9:30 pm | Interactive Sessions | See page 51 |
| 7:00 am-7:00 pm | Registration | Convention Center Pre-function |
| 7:00 am-7:00 pm | Speaker Ready Room | Chesapeake JKL |
| 7:00 am-7:00 pm | Candidate Lounge <i>Sponsored by BlackwellKing</i> | Chesapeake 2/3 |
| 7:00 am-7:00 pm | Diplomate Lounge <i>Sponsored by VCA</i> | Chesapeake AB |
| 7:00-7:20 am | Moderator Training (Research Abstracts) | Potomac 1-4 |
| 7:20-7:40 am | Moderator Training (Scientific Sessions) | Potomac 1-4 |
| 7:30 am-4:30 pm | Cyber Café <i>Powered by VIN</i> <i>(Available other times throughout the conference unmanned)</i> | Convention Center Pre-function |
| 7:45 am-6:30 pm | \$ ✓ Childcare | Chesapeake 10/11 |
| 8:00 am-6:15 pm | Technician Program | See page 50 |
| 8:00 am-6:15 pm | Scientific Sessions | See pages 46-49 |
| 8:00 am-6:15 pm | Research Abstracts | See pages 52-53 |
| 9:30 am-4:30 pm | Exhibit Hall & Poster Presentations | Exhibit Hall CDE See pages 62-73 |
| 9:50-10:30 am | Beverage Break | Exhibit Hall CDE |
| 10:30-11:20 am | Keynote Address <i>Sponsored by Hill's Pet Nutrition, Inc.</i> | Potomac AB |
| 11:30 am-1:00 pm | Consensus Statements | See page 47 |
| 12:20-2:00 pm | ASVNU Business Luncheon <i>Sponsored by Hill's Pet Nutrition, Inc.</i> | Potomac 5 |
| 12:30-2:00 pm | ✓ Comparative Gastroenterology Society (CGS) Luncheon <i>Sponsored by Purina</i> | Eastern Shore 1 |
| 12:30-2:00 pm | LAIM Executive Committee Meeting | Eastern Shore 3 |
| 1:00-2:00 pm | Friends of Dr. Bob and Bill W. Meeting | National Harbor 1 |
| 4:00-4:25 pm | Beverage Break | Exhibit Hall CDE |
| 6:00-10:00 pm | AVHTM Reception, Business Meeting and Presentations | Potomac 5 |
| 6:00-7:30 pm | The Big Bash <i>Sponsored by Hill's Pet Nutrition, Inc. and ACVIM</i> | Potomac AB |
| 7:00-11:00 pm | ✓ Neurology Specialty Dinner <i>Sponsored by AnimalScan</i> | OFFSITE - Bond 45 |

SATURDAY, JUNE 10

| Time | Event | Room |
|-----------------|---|--------------------------------|
| 6:30-7:50 am | VIN Community Breakfast | Potomac 5/6 |
| 7:00 am-5:00 pm | Registration | Convention Center Pre-function |
| 7:00 am-5:00 pm | Speaker Ready Room | Chesapeake JKL |
| 7:00 am-5:00 pm | Candidate Lounge <i>Sponsored by BlackwellKing</i> | Chesapeake 2/3 |
| 7:00 am-5:00 pm | Diplomate Lounge <i>Sponsored by VCA</i> | Chesapeake AB |
| 7:00 am-4:00 pm | Publisher Tables <i>Provided by Elsevier and Servet USA</i> | Convention Center Pre-function |
| 7:00-7:50 am | Christian Veterinary Mission Fellowship Breakfast | National Harbor 14 |
| 7:30 am-3:00 pm | Cyber Café <i>Powered by VIN</i> | Convention Center Pre-function |
| 7:45 am-5:00 pm | \$✓ Childcare | Chesapeake 10/11 |
| 8:00 am-4:50 pm | Technician Program | See page 60 |
| 8:00 am-4:50 pm | Scientific Sessions | See pages 56-59 |
| 8:00 am-2:00 pm | Interactive Sessions | See pages 61 |
| 1:00-2:00 pm | Friends of Dr. Bob and Bill W. Meeting | National Harbor 1 |
| 2:00-5:00 pm | ACVIM Board of Regents Meeting | Eastern Shore 2 |

★ NATIONAL  HARBOR ★

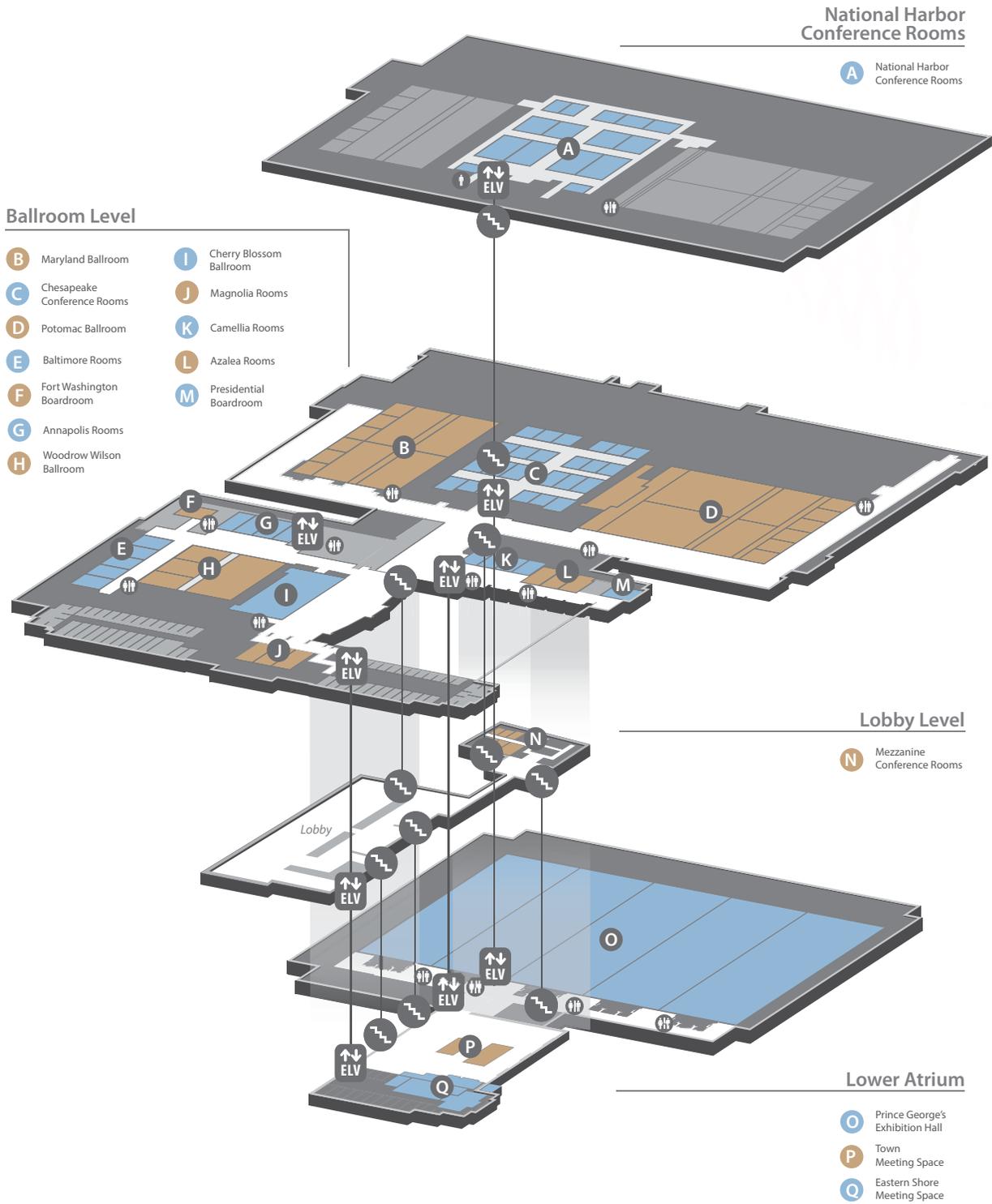
Show your badge at these participating businesses to receive special discounts available to Forum attendees. Pick up a flier at registration for offer details and restrictions.



- Capital Wheel
- Bobby McKey's
- Build-A-Bear
- Cariloha Bamboo
- Carhartt
- Del Sol Color Change
- Granite City Food & Brewery
- Harborside Hotel
- McCormick & Schmick

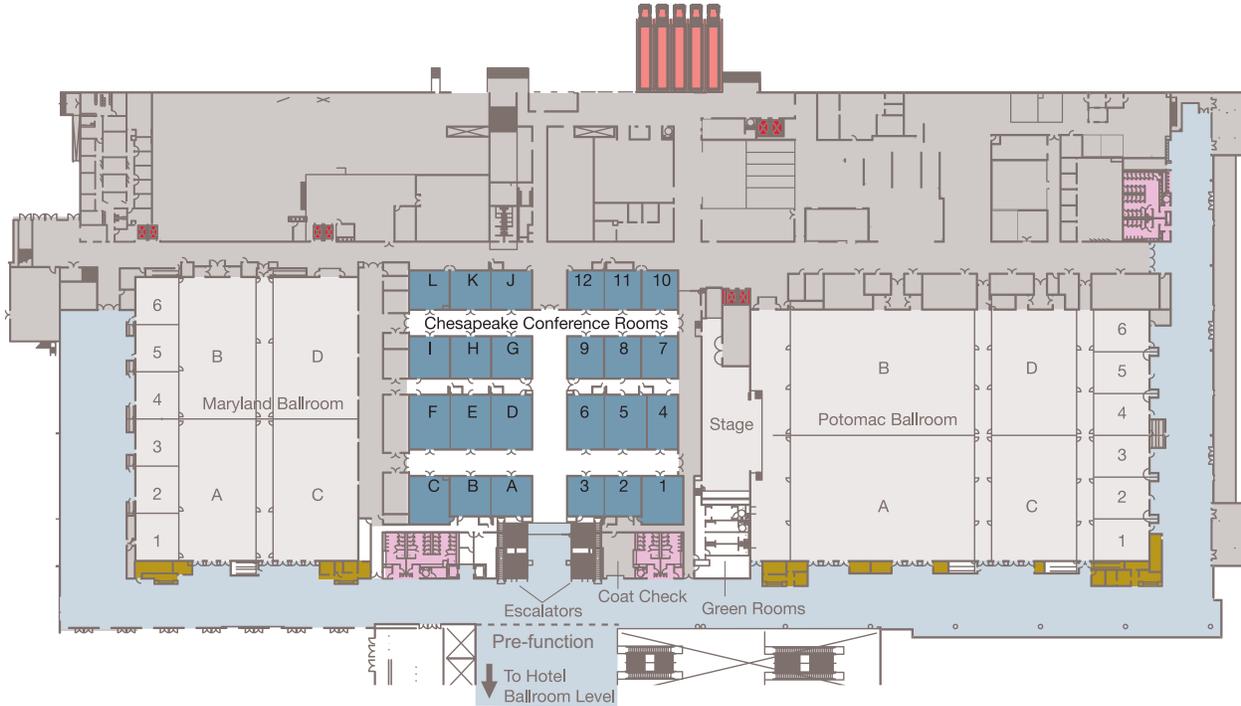
- McLoone's Pier House
- Old Town Trolley
- Peeps & Company
- Redstone Grill
- Upper Cuts Gentlemen's Grooming Place
- Upper Cuts Salon & Spa
- The Westin

Gaylord National Resort & Convention Center

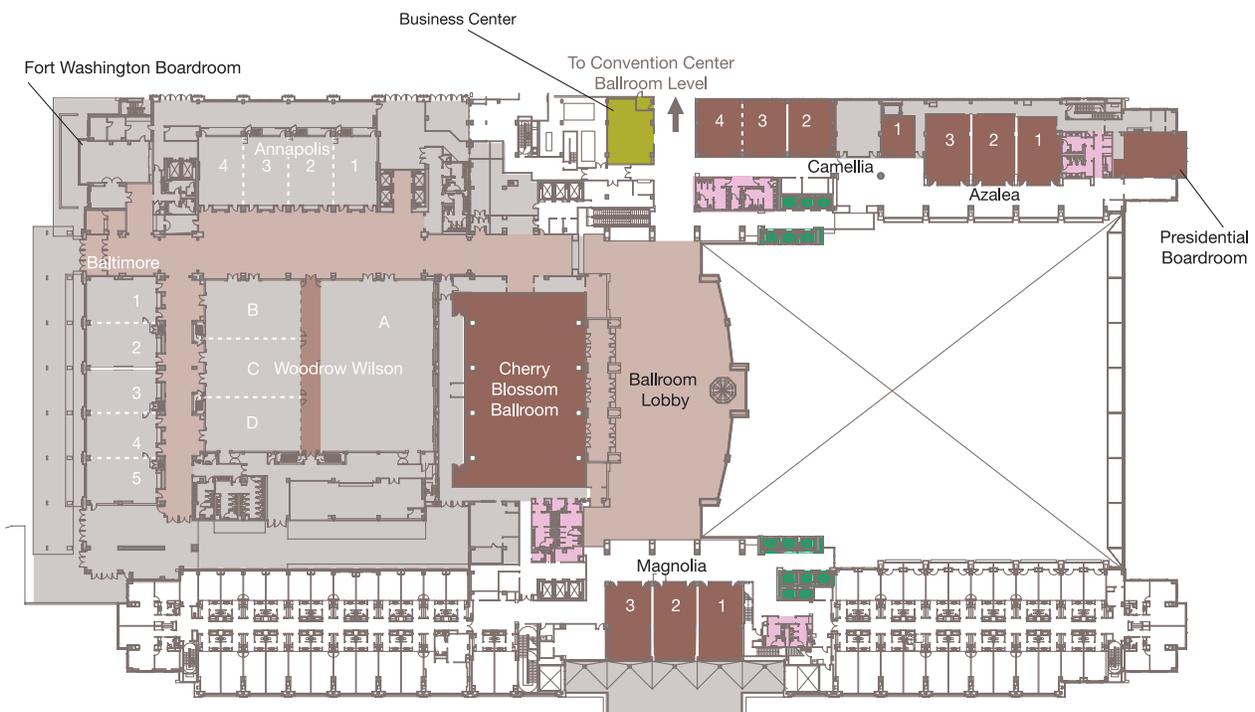


Gaylord National Resort & Convention Center

Ballroom Level - Maryland Ballroom, Chesapeake Rooms & Potomac Ballroom

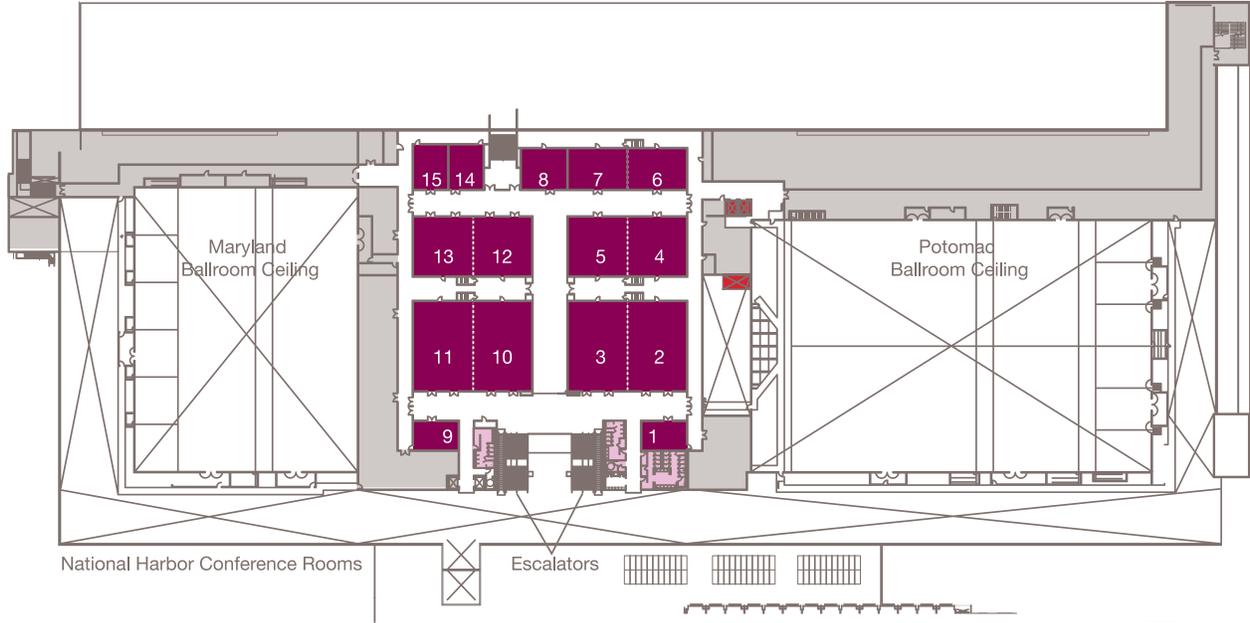


Ballroom Level - Woodrow Wilson (WW) Ballroom, Baltimore and Magnolia Rooms

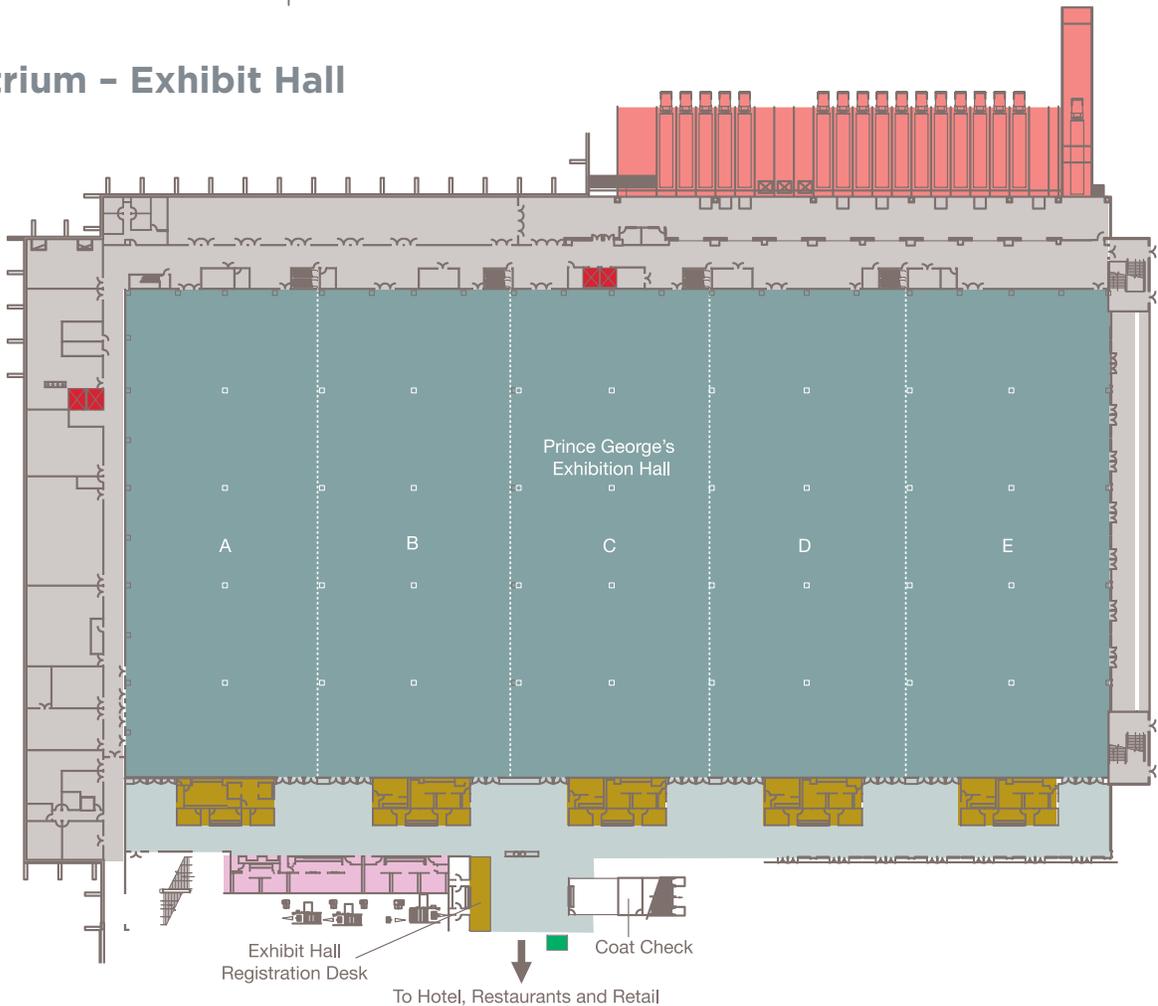


Gaylord National Resort & Convention Center

Ballroom Level - National Harbor Conference Rooms

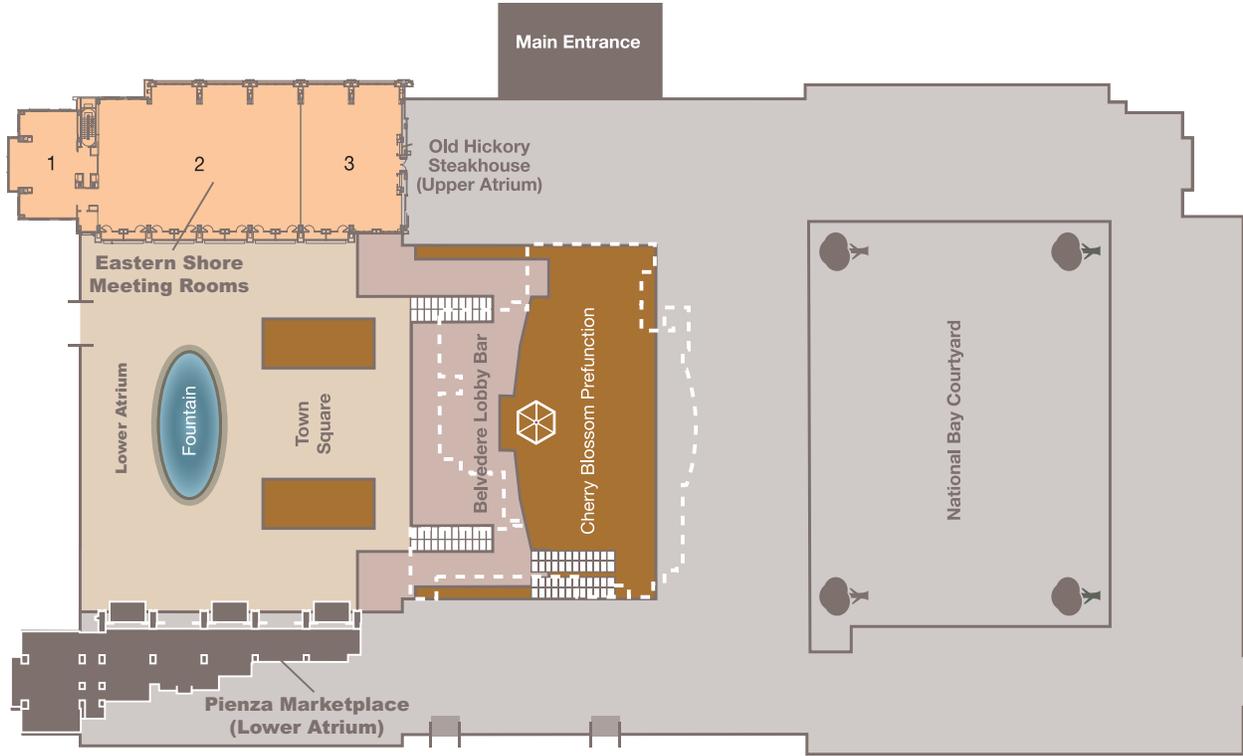


Lower Atrium - Exhibit Hall

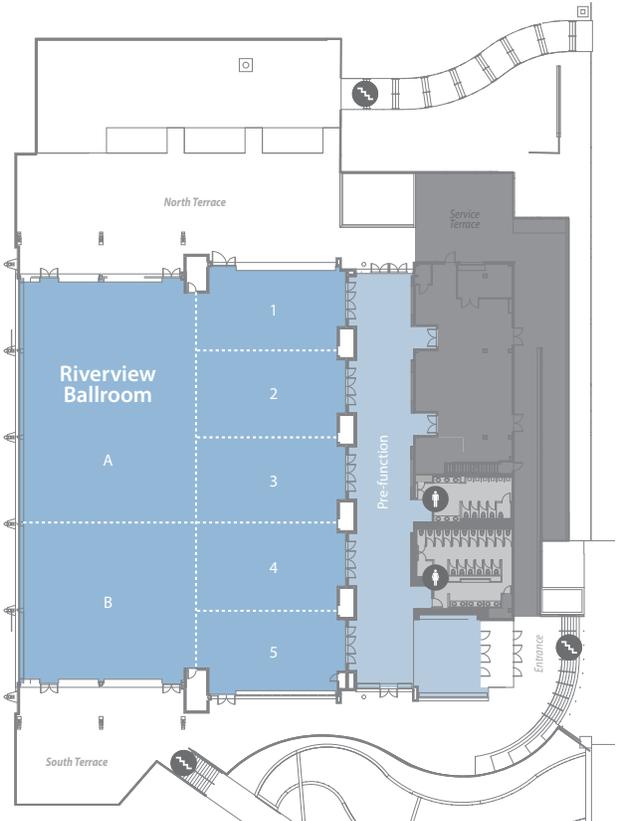


Gaylord National Resort & Convention Center

Lower Atrium - Eastern Shore Meeting Rooms



Lower Atrium - Riverview Ballroom





FROM CELEBRATION

FRIDAY, JUNE 9
6:00 - 7:30 pm
Potomac Ballroom A

The **BIG BASH**

SPONSORED BY



TO EDUCATION



TECHNICIAN LUNCHEON

Thursday, June 8

Potomac Ballroom D
12:30 - 2:00 pm
SPONSORED BY HILL'S PET NUTRITION

**Managing Chronic
Kidney Disease
and Getting Pets
to Eat**

Vicky Ograin
MBA, RVT, VTS (Nutrition)



RESEARCH FOCUS LECTURES

State-of-the-Art (SOTA) presentations are geared for ACVIM Diplomates. The speakers are recognized as experts in their topic areas. During each lecture, information from the last two years is presented and encompasses new material. Background information is minimal in order to provide sufficient time for new material.

Research Report presentations permit active researchers in the field the opportunity to present new findings using an extended abstract format. The findings may be clinical or basic in nature. The majority of each presentation is comprised of cutting-edge research findings.

Research Abstract presentations permit all researchers in the field the opportunity to present new findings in a 15-minute oral or poster presentation. The findings may be clinical or basic in nature. The majority of each presentation is comprised of cutting-edge research findings.

COMPREHENSIVE REVIEW LECTURES

Comprehensive Review lectures cover a review of fundamental principles of disease or an area of applied medicine. The 50-minute lectures provide an extensive, critical, up-to-date overview of a topic that is directly or indirectly applicable to veterinary internal medicine. Content is derived from evidence-based reports and similar sources with minimal inclusion of empirical information. The subject matter goes well beyond an advanced graduate or advanced professional student/ resident lecture in complexity and depth.

CLINICAL WORKSHOPS

Clinical Workshops are interactive lectures with advanced medicine cases or pertinent topics presented and discussed in an informal setting. Clinical examples illustrate the most current diagnostic and treatment methods, and demonstrate a problem-based approach to managing complex disease.

POST-GRADUATE COURSES

Post-Graduate Courses, offered in a mini-course format, are a series of advanced level lectures on a topic of clinical interest. Each course includes a critical current overview but may also incorporate clinical case examples and other case material. Courses may include two, three or four 50-minute consecutive lectures on a thematic topic.

INTERACTIVE SESSIONS

Interactive Sessions are interactive in nature and include Breakfast with the Expert sessions, Special Interest Group (SIG) meetings, Workshops and Case Discussions.

Breakfast with the Expert sessions are limited in size to facilitate the interaction and discussion of ideas in a small group setting.

Special Interest Groups are meetings of people who share a common interest.

Workshops are short courses that demonstrate the practical application of skills and principles using animal models, videotapes, or slides, and/or one that encourages free discussion or exchange of ideas.

Case Discussions are interactive short courses that utilize case materials to illustrate principles of veterinary internal medicine.

COMMERCIAL PRESENTATIONS

Commercial Presentations are educational sessions with information about veterinary products and services that are impacting the veterinary industry. These educational programs are presented by ACVIM Industry Partners who are at the forefront of some of the latest developments in products, services and techniques that impact animal health care.

GRID KEY

| | |
|--|--|
|  BUSINESS MANAGEMENT |  NEUROLOGY |
|  CARDIOLOGY |  ONCOLOGY |
|  EQUINE |  ONE MEDICINE |
|  FOOD ANIMAL |  SMALL ANIMAL INTERNAL MEDICINE |
|  MULTISPECIALTY | |

-  Indicates State-of-the-Art (SOTA) Presentation
-  Indicates ERC Approved Lecture for ACVIM Residency
-  Indicates ACVIM Resident Research Award Eligible
-  Indicates Early Career Clinical Oncology Research Abstract Award Eligibility
-  Indicates Video Recording
-  Indicates Audio Recording
-  Research Abstracts have unique schedules. Refer to presentation schedule.
-  Pre-registration and additional fees required.
-  Pre-registration required.

ACVIM MEETINGS & EVENTS

| Time | Event | Room |
|------------------|--|--|
| 8:30 am–5:15 pm | General Exam | Riverview Ballroom |
| 8:00 am–12:00 pm | ACVIM Board of Regents Meeting | Chesapeake 5/6 |
| 1:00–5:00 pm | JVIM Editorial Board Meeting | National Harbor 15 |
| 2:00–7:00 pm | Registration | Convention Center Pre-function |
| 2:00–7:00 pm | Speaker Ready Room | Chesapeake JKL |
| 2:00–7:00 pm | Cyber Café <i>(Available other times throughout the conference unmanned)</i> | Convention Center Pre-function |
| | <i>Powered by</i>  | |
| 2:00–3:00 pm | Cardiology Forum Subcommittee Meeting | Chesapeake 5/6 |
| 3:00–5:00 pm | Forum Program Committee Meeting (Specialty Subcommittees) | Chesapeake 5/6 |
| 4:00–5:30 pm | Marketing and Communications Committee (MCC) Meeting | National Harbor 9 |
| 5:30–7:30 pm | \$✓ Candidate Appreciation Reception <i>Sponsored by</i>  | OFFSITE - Sunset Room by Wolfgang Puck |
| 7:30–9:30 pm | LAIM Residency Training & Credentials Committee (RTCC) Business Meeting | National Harbor 9 |
| 7:30–9:30 pm | SAIM Residency Training Committee (RTC) Business Meeting | Chesapeake 12 |

OTHER ORGANIZATION MEETINGS & EVENTS

| Time | Event | Room |
|------------------|-------------------------------|---------------|
| 8:00 am–12:30 pm | AIMVT & AVNT Examinations | Chesapeake HI |
| 1:30–8:00 pm | ACVN Annual Meeting | Chesapeake DE |
| 1:30–6:00 pm | AIMVT Executive Board Meeting | Chesapeake G |
| 7:00–10:00 pm | ACVN Annual Meeting Dinner | Chesapeake F |



CONGRATULATIONS

TO THE 2017 CERTIFICATE OF CLINICAL EXCELLENCE STUDENT RECIPIENTS!

- Awarded to fourth year veterinary students who demonstrate a sincere interest in veterinary internal medicine as well as outstanding clinical expertise
- 29 veterinary institutions participated
- 88 students in the United States and Canada received the awards

ACVIM MEETINGS & EVENTS

| Time | Event | Room |
|-----------------|--|--|
| 6:30-8:00 am | Advanced Continuing Education (ACE) Committee Meeting | Chesapeake F |
| 6:30-8:00 am | International Relations Committee (IRC) Meeting | National Harbor 1 |
| 7:00 am-7:00 pm | Registration | Convention Center Pre-function |
| 7:00 am-7:00 pm | Speaker Ready Room | Chesapeake JKL |
| 7:00 am-7:00 pm | Candidate Lounge <i>Sponsored by</i>  | Chesapeake 2/3 |
| 7:00 am-7:00 pm | Diplomate Lounge <i>Sponsored by</i>  | Chesapeake AB |
| 7:00-7:20 am | Moderator Training (Scientific Sessions) | Chesapeake DE |
| 7:20 -7:40 am | Moderator Training (Research Abstracts) | Chesapeake DE |
| 7:30 am-6:00 pm | ✓ Childcare | Chesapeake 10/11 |
| 7:30 am-4:30 pm | Cyber Café <i>Powered by</i>  <i>(Available other times throughout the conference unmanned)</i> | Convention Center Pre-function |
| 8:00 am-5:45 pm | Specialty Symposiums (Sessions, Breaks, Lunches, Business Meetings, Candidate Functions, Diplomate Certificate Ceremonies) <i>The ACVIM Specialty Symposium content is exclusively dedicated to ACVIM Diplomates and ACVIM candidates. Each of the five specialties (Cardiology, Large Animal Internal Medicine, Oncology, Neurology and Small Animal Internal Medicine) has dedicated specialty content that focus on in-depth topics that are extremely relevant. Each specialty also hosts a luncheon or dinner and Diplomate certificate ceremony to recognize new Diplomates that have achieved their specialty status.</i> | See pages 28-31 |
| 8:00 am-5:00 pm | ACVIM Member Benefit: Texas A&M University Medical Sciences Library | Convention Center Pre-function |
| 12:00-1:30 pm | SAIM Credentials and Residency Training Informational Meeting | Chesapeake F |
| 1:00-2:00 pm | Friends of Dr. Bob and Bill W. Meeting | National Harbor 1 |
| 1:00-5:00 pm | Technician Case Reports <i>Sponsored by</i>  | See page 32 |
| 4:15-5:45 pm | Small Animal Internal Medicine New Diplomate Certificate Ceremony and Reception <i>Sponsored by</i>  | Maryland D |
| 5:00-7:00 pm | Specialty Symposium Reception <i>Sponsored by</i>   | Potomac 1 Pre-function |
| 7:15-10:30 pm | ✓ Oncology Specialty Dinner and Diplomate Certificate Ceremony <i>Sponsored by</i>  | OFFSITE - Sunset Room by Wolfgang Puck |
| 7:30-11:00 pm | ✓ Large Animal Internal Medicine Specialty Reception <i>(RSVP and conference badge required for entry.)</i> <i>Sponsored by</i>  | OFFSITE - By Invitation Only |

OTHER ORGANIZATION MEETINGS & EVENTS

| Time | Event | Room |
|-----------------|--|-------------------|
| 7:30 am-6:30 pm | 2017 AAVN Clinical Nutrition & Research Abstract Symposium | Potomac 1-4 |
| 5:30-6:30 pm | AIMVT/AAVNT Reception & Technician Cases Presentation Awards <i>Sponsored by</i>  | National Harbor 5 |
| 6:30-10:00 pm | AIMVT Annual Membership Meeting | National Harbor 4 |

SPECIALTY SYMPOSIUM

KEY



Open to ACVIM Diplomates, ACVIM Candidates, & Invited Guests Only



Open to ACVIM Diplomates and Invited Guests Only



Open to ACVIM Candidates Only



Breaks / Luncheons / Receptions



Indicates State-of-the-Art (SOTA) Presentation



ERC Approved Lecture for ACVIM Residency Requirements

Cardiology

| Time | Event | Room |
|----------------|--|---------------------------|
| 8:00-8:15 am | Cardiology Specialty President Welcome • <i>J. Rush</i> | National Harbor 2/3 |
| 8:15-8:30 am | SAS Update in Dogs: Who, How and Why • <i>A. Estrada, M. Kleman</i> | |
| 8:30-8:50 am | SAS Update in Dogs: Practical Updates on Palliative Balloon Valvuloplasty • <i>S. Gordon, A. Saunders</i> | |
| 8:50-9:10 am | Cutting and High Pressure Balloon Valvuloplasty for Dysplastic Pulmonary Valve Stenosis in Dogs • <i>B. Scansen, L. Markovic</i> | |
| 9:10-9:50 am | SAS Panel Discussion • <i>S. Gordon, A. Saunders, A. Estrada, M. Kleman</i> | |
| 9:50-10:10 am | BREAK <i>Sponsored by</i>   | National Harbor 2/3 Foyer |
| 10:10-11:00 am | Subaortic Stenosis in Children: Diagnosis, Surgical and Interventional Treatment, and Outcomes • <i>J. Zampi, R. Ohye, A. Mazurek</i> | National Harbor 2/3 |
| 11:00-11:50 am | * Cross-discipline Innovation: Adapting the Interventional Pediatric Cardiologists' Toolbox to Interventional Veterinary Care • <i>J. Zampi</i> | |
| 12:00-1:20 pm | ✓ Specialty of Cardiology Luncheon & Diplomate Certificate Ceremony | National Harbor 4/5 |
| 12:00-1:20 pm | ✓ ACVIM Cardiology Candidate Function: Hemodynamic Assessment and Monitoring in the Cath Lab Lunch • <i>S. Jung</i> | Chesapeake DE |
| 1:30-3:00 pm | Specialty of Cardiology Business Meeting | National Harbor 2/3 |
| 1:30-3:00 pm | ACVIM Cardiology Candidate Function: Update on Congenital Heart Disease: Nomenclature • <i>B. Scansen</i> | Chesapeake DE |
| 3:00-3:15 pm | BREAK <i>Sponsored by</i>   | National Harbor 2/3 Foyer |
| 3:15-4:05 pm | From Bench to Clinic: The Path to Approve Cardiovascular Devices • <i>D. Bianco</i> | National Harbor 2/3 |
| 4:10-5:00 pm | Emerging Surgical and Hybrid Intervention for Canine Structural Heart Disease • <i>C. Orton</i> | |
| 5:00-7:00 pm | Specialty Symposium Reception <i>Sponsored by</i>   | Potomac 1 Pre-function |

SPECIALTY SYMPOSIUM

| Neurology | | |
|------------------|---|-----------------------------|
| Time | Event | Room |
| 8:00-8:05 am | Neurology Specialty President Welcome • <i>C. Vite</i> | National Harbor 12/13 |
| 8:05-9:45 am | * Gene Therapy of CNS Disease • <i>J. Wilson</i> <i>Sponsored by</i>  | |
| 9:45-10:00 am | BREAK <i>Sponsored by</i>  | National Harbor 12/13 Foyer |
| 10:00-11:50 am | Roundtable: Surgical Options for Disc Associated Spondylomyelopathy • <i>M. Podell, F. Adamo, R. Bergman, W. Thomas</i> <i>Sponsored by</i>  | National Harbor 12/13 |
| 11:55 am-1:30 pm | ✓ Specialty of Neurology Luncheon & Diplomate Certificate Ceremony | Maryland D |
| 1:35-2:25 pm | Autophagy in Neurologic Disease • <i>D. O'Brien</i> <i>Sponsored by</i>  | National Harbor 12/13 |
| 2:30-3:20 pm | Scientific Program: Autophagy and Its Therapy in Lysosomal Storage Diseases • <i>C. Vite</i> <i>Sponsored by</i>  | |
| 3:20-3:30 pm | BREAK <i>Sponsored by</i>  | National Harbor 12/13 Foyer |
| 3:30-5:00 pm | Specialty of Neurology Business Meeting <i>Sponsored by</i>  | National Harbor 12/13 |
| 3:30-5:00 pm | ACVIM Neurology Candidate Function: Electrodiagnostics: Review of Basic Concepts and Clinical Applications • <i>C. Alcott, M. Aleman</i> <i>Sponsored by</i>  | Chesapeake DE |
| 5:00-7:00 pm | Specialty Symposium Reception <i>Sponsored by</i>  | Potomac 1 Pre-function |

| Oncology | | |
|----------------|--|---------------------------|
| Time | Event | Room |
| 8:00-8:10 am | Oncology Specialty President Welcome • <i>A. Moore</i> | National Harbor 6/7 |
| 8:10-9:00 am | The Future of Small Animal Oncology Therapeutics • <i>C. Johannes</i> | |
| 9:05-9:55 am | Advances in Our Understanding of Metastasis Biology and Therapy • <i>C. Khanna</i> | |
| 9:55-10:10 am | BREAK <i>Sponsored by</i>  | National Harbor 6/7 Foyer |
| 10:10-11:00 am | Novel Osteosarcoma Therapies • <i>D. Thamm</i> | National Harbor 6/7 |
| 11:05-11:55 am | Epigenetically-active Therapies for Osteosarcoma • <i>J. Bryan</i> | |
| 12:00-1:40 pm | ✓ Specialty of Oncology Business Meeting and Candidate/Diplomate Luncheon <i>Sponsored by</i>  | Chesapeake 4-6 |
| 1:45-2:35 pm | * Osteosarcoma: What We Know, What We Think We Know, and What's Coming • <i>N. Ehrhart</i> | National Harbor 6/7 |
| 2:35-3:25 pm | * Limb Salvage: The Good, The Bad, The Ugly, The Future • <i>N. Ehrhart</i> | |
| 3:25-3:35 pm | BREAK <i>Sponsored by</i>  | National Harbor 6/7 Foyer |

SPECIALTY SYMPOSIUM

| Oncology <i>(continued)</i> | | |
|-----------------------------|--|--|
| Time | Event | Room |
| 3:35-5:15 pm | Biology, Molecular Targets, and Clinical Interventions for Canine Osteosarcoma: A Review for Candidates and Diplomates • <i>T. Fan</i> | National Harbor 6/7 |
| 5:00-7:00 pm | Specialty Symposium Reception <i>Sponsored by</i>   | Potomac 1 Pre-function |
| 7:15-10:30 pm | ✓ Oncology Specialty Dinner and Diplomate Certificate & Ceremony <i>Sponsored by</i>  | OFFSITE - Sunset Room by Wolfgang Puck |

| Large Animal Internal Medicine - Equine/Food Animal | | |
|---|--|---------------------------------|
| Time | Event | Room |
| 8:00-8:15 am | Large Animal Internal Medicine Specialty President Welcome • <i>L. Couetil</i> | National Harbor 10/11 |
| 8:15-9:00 am | Current Approaches and Future Directions in Veterinary Education • <i>J. Moore</i> | |
| 9:00-9:45 am | Simulation in Clinical Teaching Laboratories Applied to Large Animals • <i>M. Long</i> | |
| 9:45-10:00 am | BREAK | National Harbor 10/11 Foyer |
| 10:00-10:50 am | ♦ The Chronic Disease of Needing a Gold Standard for Diagnostic Accuracy: Is There a Simple Cure? • <i>I. Gardner</i> | National Harbor 10/11 |
| 11:00-11:50 am | Point-Counter Point Discussion: Use of Ultrasound to Assess Pulmonic Lesions in Calves vs. Foals • <i>S. Giguere, S. Buczinski</i> | |
| 12:00-1:20 pm | ✓ Specialty of Large Animal Internal Medicine Luncheon & Diplomate Certificate Ceremony | Riverview Ballroom B 4/5 |
| 1:30-3:15 pm | Specialty of Large Animal Internal Medicine Business Meeting • <i>L. Couetil</i> | National Harbor 10/11 |
| 1:30-3:15 pm | ♦ ACVIM LAIM Candidate Function: Exploring Options for Post Residency Careers: Opportunities for Residents to Become Scientists in Industry • <i>R. Hamlin, W. Vaala, M. Figueiredo, R. Tessman</i> | Chesapeake 12 |
| 3:15-3:30 pm | BREAK | National Harbor 10/11 Foyer |
| 3:30-4:20 pm | * The Science Behind the Emerging Field of Regenerative Medicine in Large Animals • <i>L. Boone</i> | National Harbor 10/11 |
| 4:25-5:15 pm | * The Translational Science of the Emerging Field of Regenerative Medicine in Large Animals • <i>J. Peroni</i> | |
| 5:00-7:00 pm | Specialty Symposium Reception <i>Sponsored by</i>   | Potomac 1 Pre-function |
| 7:15-11:00 pm | ✓ Large Animal Internal Medicine Specialty Reception <i>Sponsored by</i>  <i>(RSVP and conference badge required for entry.)</i> | OFFSITE - By Invitation Only |

SPECIALTY SYMPOSIUM

| Small Animal Internal Medicine | | | |
|---|---|--|--|
| Time | Event | | |
| 8:00–8:05 am Maryland C | Small Animal Internal Medicine Specialty President Welcome • <i>W. Morrison</i> | | |
| | Track 1 Hepatology Maryland A | Track 2 Immunology, Hematology Maryland C | Track 3 Education, Research & Communication Maryland 1 |
| 8:10–9:00 am | Bile Acids & Liver Health: Physiology, Diagnostic Utility & Therapeutic Application <i>S. Center</i> | Diagnostics for IMHA <i>U. Giger</i> | ✦ The Placebo Effect in Veterinary Medicine: Interpreting Clinical Study Results In Placebo Controlled Studies <i>L. Rhodes</i> |
| 9:05–9:55 am | The Emerging Role of Bile Acids in Chronic Enteropathies <i>J. Suchodolski</i> | Individualizing Drug Therapy: Advances in the Pharmacodynamic Monitoring of Immunosuppressive Agents <i>A. Mackin</i> | ✦ Big Data Research: What Is It, and What Can It Teach Us? <i>K. Creevy</i> |
| 9:55–10:15 am Maryland Pre-function | BREAK Sponsored by ACVIM | | |
| 10:15–11:05 am | Recent Advances Into the (Patho) Physiology of Cortisol and Bile Acid Metabolism in Critical Illness <i>P. Jamieson</i> | Immunoglobulin Fc Receptors: Linking Humoral Immunity With Immune Cell Function <i>J. Fogle</i> | ✦ A Practitioner's Approach to Critical Reading of Scientific Literature <i>K. Creevy</i> |
| 11:10 am–12:00 pm | Comparative Physiology of Bile Acid Synthesis Pathways in Companion Animals <i>P. Jamieson</i> | Primary Immunodeficiencies and Infections in Small Animals <i>U. Giger</i> | ✦ Reviewing the Evidence: How to Be a Discriminating Reader <i>A. Litster</i> |
| 12:00–1:30 pm Riverview Ballroom A 1-3 | ✓ Hot Topic Luncheon: Making the Diagnosis: It Is Not Always As It First Appears • <i>S. Bennett</i> Sponsored by | | |
| 1:30–2:20 pm | * The Bile Acid Receptor FXR, A New Metabolic Regulator and Therapeutic Target <i>D. Moore</i> | Canine Splenic Disease: An Update <i>A. Lynch</i> | ✦ Limitations and Dangers in Analysis of Retrospective Study Data <i>N. Jeffery</i> |
| 2:20–2:30 pm Maryland Pre-function | BREAK Sponsored by ACVIM | | |
| 2:30–4:15 pm Maryland A | Specialty of Small Animal Internal Medicine Business Meeting • <i>W. Morrison</i> | | |
| 2:30–4:15 pm Maryland C | ACVIM SAIM Candidate Function: Indications and Techniques for Upper/Lower GI Endoscopy in Dogs and Cats • <i>A. Jergens</i> | | |
| 4:15–5:45 pm Maryland D | Small Animal Internal Medicine Specialty New Diplomate Certificate Ceremony and Reception Sponsored by | | |
| 5:00–7:00 pm Potomac 1 Pre-function | Specialty Symposium Reception Sponsored by ACVIM | | |

TECHNICIAN PROGRAM - CASE REPORTS

| Time | Event | | Room |
|--------------|--|---|----------------|
| 1:00-1:20 pm | Paraneoplastic Syndromes Secondary to Renal Lymphoma in a Dog • <i>M. Scobie</i> | <p>Sponsored by</p>  | Chesapeake GHI |
| 1:20-1:40 pm | Anaplasma Phagocytophilum in Abdominal Fluid and Blood From an Adult Dog • <i>J. Wilson-Hess</i> | | |
| 1:40-2:00 pm | Use of Endoscopy to Diagnose and Treat Colonic Vascular Ectasia in a Dog • <i>P. Secoura</i> | | |
| 2:00-2:20 pm | Medical Management of Hydrocephalus in a French Bulldog • <i>L. Price</i> | | |
| 2:20-2:40 pm | "Perf"-ectly Routine Pyo? • <i>M. Matthews</i> | | |
| 2:40-2:55 pm | BREAK | | |
| 2:55-3:15 pm | Management of a Complicated Multi-resistant Urinary Tract Infection • <i>L. George</i> | <p>Sponsored by</p>  | Chesapeake GHI |
| 3:15-3:35 pm | Peritoneal Dialysis Following Urethral Obstruction and Acute Kidney Injury • <i>C. Waxman</i> | | |
| 3:35-3:55 pm | Paraneoplastic Myasthenic Crisis • <i>A. Hart</i> | | |
| 3:55-4:15 pm | Hematemesis, Abdominal Pain and Anemia in an Older Cat • <i>K. Harper</i> | | |
| 4:15-4:35 pm | Peritoneal Dialysis in the Treatment of AKI • <i>F. Kay</i> | | |
| 4:35-4:55 pm | Clinical Progress of Lingual Hemangiosarcoma in a Cat • <i>S. Farfan</i> | | |

MEMBERSHIP LUNCHEON AND AWARDS CEREMONY

Don't miss the presentation of the prestigious Robert W. Kirk Award for Professional Excellence and the ACVIM Distinguished Service Award. These awards are the "Oscars" of the ACVIM and the touching videos are always the highlight of the event. Make sure to bring your drawing ticket for a chance to win an iPad! **Pre-registration required.**

STUDENT RECEPTION

Enjoy a refreshing beverage and chat with industry leaders while playing a fun game with a chance to win a \$100 Amazon Gift Card!

WINE AND CHEESE OPENING RECEPTION & POSTER VIEWING

Join us in the exhibit hall for this signature event. With a full schedule throughout the day, make sure to take advantage of this occasion to meet research abstract poster authors and dedicate some extra time to visit with conference exhibitors and attendees. All this is available while enjoying some wine and cheese.

Sponsored by



ACVIM MEETINGS & EVENTS

| Time | Event | Room |
|-----------------|---|---|
| 6:30-8:30 am | SAIM Credentials Committee Meeting | National Harbor 1 |
| 6:30-8:00 am | ACVIM Education and Research Committee (ERC) Meeting | Eastern Shore 3 |
| 6:30 am-9:30 pm | Interactive Sessions | See page 39 |
| 7:00 am-7:00 pm | Registration | Convention Center Pre-function |
| 7:00 am-7:00 pm | Speaker Ready Room | Chesapeake JKL |
| 7:00 am-7:00 pm | Candidate Lounge | <i>Sponsored by</i>  blackwellking VETERINARY CHANGE CONSULTANTS |
| 7:00 am-7:00 pm | Diplomate Lounge | <i>Sponsored by</i>  VCA |
| 7:30 am-4:30 pm | Cyber Café <i>(Available other times throughout the conference unmanned)</i> | <i>Powered by</i>  VIN |
| 7:30-8:45 am | LAIM Resident Chat | Chesapeake 4 |
| 7:40-8:00 am | Moderator Training (Research Abstracts) | Chesapeake 5/6 |
| 7:45 am-6:30 pm | \$ ✓ Childcare | Chesapeake 10/11 |
| 8:00-8:20 am | Moderator Training (Scientific Sessions) | Chesapeake 5/6 |
| 8:00-9:30 pm | Technician Program | See page 38 |
| 9:00 am-6:15 pm | Research Abstracts | See pages 40-44 |
| 9:30 am-4:30 pm | Exhibit Hall & Poster Presentations | Exhibit Hall CDE See pages 62-73 |
| 9:50-10:30 am | Beverage Break | Exhibit Hall CDE |
| 12:30-2:00 pm | ✓ Membership Luncheon and Awards Ceremony | Potomac AB |
| 1:00-2:00 pm | Friends of Dr. Bob and Bill W. Meeting | National Harbor 1 |
| 4:00-4:25 pm | Beverage Break | Exhibit Hall CDE |
| 5:00-6:00 pm | Student Reception | Lower Atrium |
| 6:00-7:30 pm | Wine and Cheese Opening Reception & Poster Viewing | <i>Sponsored by</i>  PURINA PROPLAN VETERINARY DIETS  ACVIM |
| 6:00-7:30 pm | Exhibit Hall & Poster Presentations | Exhibit Hall CDE See pages 62-73 |
| 7:30-10:00 pm | \$ ✓ Cardiology Specialty Dinner <i>Sponsored by</i>   OFFSITE - Sunset Room by Wolfgang Puck | |

OTHER ORGANIZATION MEETINGS & EVENTS

| Time | Event | Room |
|---------------|--|-----------------------------|
| 12:30-2:00 pm | Cummings School of Veterinary Medicine Alumni Luncheon | Chesapeake 4 |
| 6:00-8:00 pm | University of Minnesota ACVIM Alumni Reception | OFFSITE - Cadillac Ranch |
| 6:30-8:00 pm | Compassion-First Pet Hospitals Alumni and Employee Reception | Potomac 5 |

SCIENTIFIC SESSIONS • MORNING SESSIONS

| | 9:00–9:50 am | 10:30–11:20 am | 11:30 am–12:20 pm |
|--|--|--|--|
| Business Management Maryland 1-3 | Stress and Mental Health In Veterinary Medicine <i>E. Strand</i>  | Veterinary Stress, Conflict and How it Impacts Veterinary Well Being <i>E. Strand</i>  | Stress Management, Neural Integration, and the Health Mind Platter <i>E. Strand</i>  |
| Cardiology Comprehensive Review Maryland C | Advanced ECG Interpretation <i>N. Moise, R. Santilli, R. Pariaut</i>  | Advanced Holter Analysis <i>N. Moise</i>  | Electrophysiology and Ablation of Atrial Flutter <i>R. Santilli</i>  |
| Equine Comprehensive Review National Harbor 10/11 |  The Equine Gut as a Sensory Organ: Entero-endocrine Cells and Incretin Hormones – A Review of Current Understanding <i>P. Johnson</i> |  Biochemical Analysis of Peritoneal Fluid From Horses With Colic <i>C. Cebra</i> |  Nutritional Management of Equine Gastric Ulcers: What Do We Really Know? <i>F. Andrews</i>  |
| Equine Research Reports Chesapeake 5/6 | Clinical and Endocrine Parameters in Horses with Pituitary Pars Intermedia Dysfunction Treated with Pergolide <i>H. Banse</i> Pharmacokinetics, Pharmacodynamics and Clinical Use of Trazodone in the Horse <i>J. Davis</i> | Myelographic Findings at the Cervicothoracic Junction in Non-Neurologic Horses <i>K. Estell</i> A 2.7 kb Deletion Near HOXD3 is Associated with Occipitoatlantoaxial Malformation in an Arabian Horse <i>C. Finno</i> | Evaluation of a Rapid Test Strip for Detection of Salmonella enterica in Equine Fecal Samples <i>B. Burgess</i> Validation of Stall-Side Strangles Diagnosis Using Lamp <i>A. Boyle</i> |
| Equine Research Abstracts Chesapeake DEF | Research Abstracts* | Research Abstracts* | Research Abstracts* |
| Food Animal (FAIM) Comprehensive Review Magnolia 3 | Surgical Management of Urinary Tract Obstructions: A Surgeon's Perspective <i>P. Mulon</i> | Surgical Management of Urolithiasis: An Internist's Perspective <i>R. Callan</i> | Panel Discussion on Management of Urolithiasis in Ruminants <i>P. Mulon, R. Callan</i> |
| Food Animal (FAIM) Research Abstracts Magnolia 1 | Research Abstracts* | Research Abstracts* | Research Abstracts* |
| Oncology Comprehensive Review Chesapeake GHI | Early Phase Translational Studies in Canine Lymphoma <i>W. Kisseberth</i> | Peripheral Blood Stem Cell Transplantation for the Treatment of Canine Hematologic Malignancies <i>S. Suter</i> | DNA Methylation and Lymphoma <i>J. Bryan</i> |
| Oncology Research Abstracts National Harbor 12/13 | Research Abstracts* | Research Abstracts* | |
| Neurology Research Abstracts Potomac C | Research Abstracts* | Research Abstracts* | Research Abstracts* |

VISIT EXHIBIT HALL

SCIENTIFIC SESSIONS • MORNING SESSIONS

| | 9:00–9:50 am | 10:30–11:20 am | 11:30 am–12:20 pm |
|--|---|--|--|
| Small Animal (SAIM) Comprehensive Review Maryland B 4-6 | Subclinical Bacteriuria in Dogs and Cats <i>M. Thompson, J. White</i> | UTI Treatment and Prevention: What You Need to Know to Help <i>G. Oswald</i>  | Urinary Incontinence and OHE <i>J. Byron</i>  |
| ACVCP/AAVPT (SAIM) Maryland A | Pharmacogenetics of Idiosyncratic Drug reactions: Sulfonamide Hypersensitivity and Beyond <i>J. Reinhart</i> | Pharmacogenomics in Human and Companion Animals <i>H. Lohi</i> | Individualizing the Use of NSAIDs in Cats: A Pharmacometabolomics Approach <i>N. Villarino</i> |
| Liver Study Group (SAIM) Maryland D | Ductal Plate Abnormalities <i>S. Center</i> | Understanding Biliary Atresia: A One Health Story <i>R. Wells</i> | Update on Pathogenesis of Gallbladder Mucoceles <i>J. Gookin</i> |
| Small Animal (SAIM) Research Abstracts National Harbor 2/3 | Nutrition/Metabolism Research Abstracts* | Pharmacology Research Abstracts* | Respiratory Research Abstracts* |
| Small Animal (SAIM) Research Abstracts National Harbor 6/7 | Hematology Research Abstracts* | Hematology Research Abstracts* | Hematology Research Abstracts* |
| Small Animal (SAIM) Research Abstracts Potomac 1-4 | Nephrology/Urology Research Abstracts* | Nephrology/Urology Research Abstracts* | Nephrology/Urology Research Abstracts* |

VISIT EXHIBIT HALL

WIN BIG

Visit these exhibitors to register to win amazing giveaways and to find out the date and time of the drawings!

AnimalScan Advanced Veterinary Imaging - Booth 322

Giveaway: Apple Watch OR a \$100 Apple Store Gift Card.

BlackwellKing - Booth 728

Giveaway: Adventure Pack that includes GoPro Camera, Eno Hammock, waterproof backpack, Yeti tumbler, sleeping bag and much more. Value \$600+.

Bush Veterinary Neurology Service - Booth 117

Giveaway: Kindle Fire HD 8 with Alexa

Cape Cod Veterinary Specialists - Booth 536

Giveaway: Apple iPad Mini.

Dextronix Inc. - Booth 234

Giveaway: \$2,600 VET-ECG - Wireless resting ECG monitor including software and cables for Apple or Windows PC.

Digicare Animal Health - Booth 439

Giveaway: \$1,231 digiPUMP SR81x-microfusion syringe pump.

LLOYD, Inc. - Booth 605

Giveaway: Daily Drawing of 1 FREE PrednisTab® 5mg 1,000-count bottle and 1 FREE PrednisTab® 20mg, 500-count bottle.

MedVet Medical & Cancer Centers for Pets - Booth 732

Giveaway: iPad.

Purina - Booth 317

Giveaway: Free textbook with viewing of short video-while supplies last!

Sentier - Booth 530

Giveaway: FREE Vetcorder-a multiparameter, Bluetooth connected mobile patient monitor.

Sonoma Pharmaceuticals/MicrocynAH - Booth 337

Giveaway: Case of MicrocynAH wound care products.

Summit Veterinary Referral Center - Booth 818

Giveaway: Daily Raffle of an Alexa, Fitbit and iPad.

The VET Recruiter - Booth 823

Giveaway: Five chances to win a \$100 Amazon Gift Card.

Upright Canine Brigade - Table #11

Giveaway: Brigitta's Basket full of treats and goodies for Man's best friend and a \$50 AMX card for you!

Veterinary Specialty Practice Alliance - Table #1

Giveaway: Pair of BOSE noise cancelling, volume-optimized headphones.

Wedgewood Pharmacy - Booth 633

Giveaway: 100 custom branded pillbones-bone shaped pill dispensers.

SCIENTIFIC SESSIONS • AFTERNOON SESSIONS

| | 2:10–3:00 pm | 3:10–4:00 pm | | 4:25–5:15 pm | 5:25–6:15 pm |
|---|---|---|--------------------|--|---|
| Cardiology Comprehensive Review Maryland B 4-6 | Diagnosis and Treatment of Accessory Pathway-mediated Arrhythmias <i>R. Santilli</i> |  The Use of Three-dimensional Electroanatomic Mapping Systems for the Treatment of Supraventricular Tachycardia <i>S. Tou</i> | VISIT EXHIBIT HALL |  Classification of Congenital Heart Disease: Learning From Pathology <i>D. Spicer</i> |  Vascular Ring Anomalies: Using Cross-sectional Imaging to Guide Surgery <i>B. Scansen, A. Pelosi</i> |
| Cardiology Research Reports Chesapeake DEF | Development of a Standardized, Individual, Submaximal Treadmill Exercise Test in Healthy and CHIEF B1/B2 Dogs <i>L. Wall</i> | Epigallocatechin-3-gallate Recouples Myofilament Calcium Sensitivity to Troponin I Phosphorylation in Feline Hypertrophic Cardiomyopathy <i>D. Connolly</i> | | Use of Moxidectin/Imidacloprid and Doxycycline For Non-Arsenical Heartworm Adulticidal Therapy <i>M. Ames</i> | Influence of Chronic Kidney Disease on Measurements of Cardiac Structure and Function in Dogs <i>M. Hezzell</i> |
| | Implantable Cardiac Loop Recorders: A Novel Diagnostic Tool for Atrial Fibrillation Detection in Horses <i>R. Buhl</i> | Early Experiences With 3D Modeling and Printing of Hearts With Complex Cardiac Disease <i>S. Stieger-Vanegas</i> | | Validation of a Quality of Life (QoL) Survey for Owners of Dogs with Heart Disease <i>L. Freeman</i> | Accuracy of Angiographic Measurements During Transcatheter Procedures: Comparison of Two Calibration Methods in 25 Dogs <i>L. Markovic</i> |
| Cardiology Research Abstracts Baltimore 1/2 | | | | Research Abstracts* | Research Abstracts* |
| Equine Comprehensive Review Maryland D | Panel Discussion on Approaches to Investigating a Salmonella Outbreak on a Breeding Farm <i>A. Chapman, B. Burgess, P. Morley</i> | Pasture Associated Asthma <i>C. Swiderski</i> | | Wearable Devices for Gait Analysis in Ataxic Horses <i>Y. Nout-Lomas</i> | Trigeminal Mediated Headshaking Syndrome <i>J. Madigan, M. Aleman</i> |
| Equine Research Reports Maryland 1-3 | Capsule Endoscopy (ALICAM) in Horses: Assessing Gastrointestinal Tract Transit Time, image Quality and Lesions <i>R. Leguillette</i> | Electroanatomical Cardiac Mapping in an Adult Horse in Sinus Rhythm <i>G. van Loon</i> | | The Effect of p38 MAPK Inhibition on the Inflammatory Response to Bacterial Toxins Horses <i>J. Bauquier</i> | Changes in the Hematological and Biochemical Profile in Foals during the First Year of Life <i>B. Faramarzi</i> |
| | A Pilot Investigation Into the Safety and Efficacy of a Long-acting, Injectable Formulation of Omeprazole <i>B. Sykes</i> | Heart Rate Monitor Derived Heart Rate Variability to Diagnose Atrial Fibrillation in Horses <i>G. van Loon</i> | | Next Generation DNA Sequencing to Identify Bacteria in Equine Transtracheal Aspirate Samples <i>B. Barr</i> | Insulin and Glucose Responses to Pasture in Insulin-Dysregulated and Normal Ponies <i>M. de Laat</i> |
| Food Animal (FAIM) Comprehensive Review/Research Reports Magnolia 1 | Population Medicine Using a New Lens: Investigating Veterinary and Producer Mental Health and Wellbeing <i>J. Hewson</i> | Clinical Listeriosis in Ruminants <i>K. Poulsen</i> | | Algorithm-based Antimicrobial Therapy in Diarrheic Calves: Impact on Antimicrobial Usage, Health and Fecal Microbiota <i>D. Gomez-Nieto</i> | Accuracy of Refractometry for Diagnosis Failure of Passive Transfer in Calves: Systematic Review and Meta-analysis <i>S. Buczinski</i> |
| | | | | Pharmacokinetics of Fentanyl and Fentanyl Transdermal Patches in Healthy and Hospitalized Calves <i>J. Smith</i> | Maternally-Derived BVDV and BHV-1 Antibodies in Calves Born to Dams Vaccinated or Not During Gestation <i>M. Chamorro</i> |
| VCRS (FAIM) Magnolia 3 | Evidence-based Regenerative Medicine for the Internist <i>A. Hoffman</i> | Next-generation Regenerative Medicine (Beyond Stem Cells): Exosomes and Extracellular RNA <i>A. Hoffman</i> | | Beyond Bovine Respiratory Disease Complex: Less Common Diagnoses in Ruminant and Camelid Respiratory Medicine <i>R. Nolen-Walston</i> | Respiratory Distress in Camelids: A Case Based Discussion <i>D. Bedenice</i> |

SCIENTIFIC SESSIONS • AFTERNOON SESSIONS

| | 2:10-3:00 pm | 3:10-4:00 pm | 4:25-5:15 pm | 5:25-6:15 pm |
|--|---|--|---|--|
| Neurology Research Reports Maryland C | Use of 3T Magnetic Resonance Imaging to Analyze Craniocervical Junction Cerebrospinal Fluid Flow in Cats <i>S. Cerda-Gonzalez</i> | Evaluation of Risk Factors in the Development of Inflammatory Brain Disease in Dogs <i>H. Barnes Heller</i> | Experimental Therapies for Canine Krabbe Disease <i>A. Bradbury</i> | AAV Gene Therapy Studies in the Feline Model of Niemann-Pick Type C <i>B. Gurda</i> |
| | Biomechanical Properties of Virgin PEEK, Glass-Fiber PEEK, and Carbon-Fiber-Reinforced PEEK in the Adamo Spinal Disc™ <i>F. Adamo</i> | Serum Levetiracetam Concentrations After Chronic Administration of Once Daily Extended-Release Levetiracetam in Healthy Cats <i>H. Barnes Heller</i> | Gene Therapy in Animal Models of the Gangliosidoses: From Presentation to Human Clinical Trials <i>H. Gray-Edwards</i> | Generating Novel Large Animal Models of Nervous System Disease for Therapeutic Study Using the CRISPR/Cas9 System <i>B. Gurda</i> |
| Oncology SOTA/ Comprehensive Review Potomac 1-4 | 📌🌟 The Principles of Lymphocyte Development and Lymphocyte Trafficking Support the Diagnosis of Lymphoma <i>P. Moore</i> | 📌🌟 The Principles of Lymphocyte Development and Lymphocyte Trafficking Support the Classification of Lymphoma <i>P. Moore</i> | 📌 How Flow Cytometry and Functional Studies Expand Our Understanding of T cell Lymphoma <i>A. Avery</i> | 📌 Chemoimmunotherapy for Canine Lymphoma: Evidence for Efficacy 2017 <i>G. Ogilvie</i> |
| Oncology Research Reports Chesapeake 5/6 | | | Grenadian CTVT: Data From Mitochondrial Genetic Diversity, Selection and Recombination in a Canine Transmissible Cancer <i>A. Corrigan</i> | Lymphoma and Symmetric Dimethylarginine Concentration in Dogs: A Preliminary Study <i>A. Abrams-Ogg</i> |
| | | | In Vitro Macrophage Polarization by Canine Osteosarcoma <i>J. Fogle</i> | Serum Inflammatory Cytokine Values in Cachectic and Non-Cachectic Cats with Cancer and Normal Cats <i>E. Krick</i> |
| Small Animal (SAIM) SOTA/Comprehensive Review Maryland A | 🌟 The Epidemiology of Human Obesity: From Definitions to Policy Examples <i>C. Ogden</i> | 🌟 Panel: The Epidemiology of Human Obesity: From Definitions to Policy Examples <i>C. Ogden, J. Bartges, E. Raffan, C. Ward</i> | CKD: Updates on Diagnosis, Treatment and Prevention of Progression <i>D. Chew</i> | Evidence for Nutritional Treatment of Dogs and Cats With Stage 1 Chronic Kidney Disease <i>J. Hall</i> |
| ISCAID (SAIM) National Harbor 2/3 | Diagnosing FIP: Has Recent Research Made It Any Easier? <i>E. Barker</i> | Chagas Disease at the Canine-wildlife-human-vector Interface <i>S. Hamer</i> |  |  |
| VCRS (SAIM) National Harbor 12/13 |  Bronchiolar Disorders <i>C. Reinero, K. Williams</i> |  How Dysphagia Injures the Lung: An Overview of Cough-swallow Disorders <i>C. Reinero, M. Grobman</i> |  Diagnostics and Management of Pylonephritis <i>J. Westropp</i> |  Viral Discovery in Animals Using a Metagenomics Approach <i>S. VandeWoude</i> |
| ASVCP (SAIM) National Harbor 10/11 |  Bronchiolar Disorders <i>C. Reinero, K. Williams</i> |  How Dysphagia Injures the Lung: An Overview of Cough-swallow Disorders <i>C. Reinero, M. Grobman</i> |  Bronchoalveolar Lavage: Picking Protocols to Match the Case <i>E. Hawkins</i> |  Using Airway Pressures and Lung Function in Clinical Practice <i>E. Rozanski</i> |
| VECCS (SAIM) Potomac C |  Canine Body Cavity Effusions: Classification and Differentials <i>A. Bohn</i> |  Feline Body Cavity Effusions: Classification and Differentials <i>A. Bohn</i> |  Synovial Fluid Review <i>P. Krimer</i> |  CSF Review <i>P. Krimer</i> |
| |  Prothrombotic Mechanisms in Critical Illness <i>A. Lynch</i> |  SIRS, Mods and Sepsis 3.0: Where Are We Now? <i>D. Silverstein</i> |  Antimicrobial Decision Making in Sepsis <i>A. Lynch</i> |  Resuscitation of the Patient With Septic Shock <i>D. Silverstein</i> |

VISIT EXHIBIT HALL

SCIENTIFIC SESSIONS • AFTERNOON SESSIONS

| | 2:10-3:00 pm | 3:10-4:00 pm | VISIT EXHIBIT HALL | 4:25-5:15 pm | 5:25-6:15 pm |
|--|--|--|--------------------|--|--|
| Small Animal (SAIM) Research Abstracts Eastern Shore 1 | Infectious Disease Research Abstracts* | Infectious Disease Research Abstracts* | | Infectious Disease Research Abstracts* | |
| Small Animal (SAIM) Research Abstracts Chesapeake GHI | Endocrinology Research Abstracts*  | Endocrinology Research Abstracts*  | | Endocrinology Research Abstracts*  | Endocrinology Research Abstracts*  |
| Small Animal (SAIM) Research Abstracts National Harbor 6/7 | Gastroenterology Research Abstracts* | Gastroenterology Research Abstracts* | | Gastroenterology Research Abstracts* | Gastroenterology Research Abstracts* |

TECHNICIAN PROGRAM

WW = Woodrow Wilson

| Time | Track | Session Title • Speaker | Room |
|-------------------|------------------|--|---------------|
| 8:00-8:50 am | SAIM | Bartonellosis: One Health Perspectives on an Emerging Infectious Disease • <i>E. Breitschwerdt</i> | WW B |
| 8:00-8:50 am | Oncology | The Incidentalomas: Splenic and Adrenal Masses • <i>S. Bechtel, A. Corrigan</i> | WW CD |
| 9:00-9:50 am | SAIM | PLN: The Technicians Role in Monitoring • <i>D. Terrill</i> | WW B |
| 9:00-9:50 am | Oncology | Cystitis or Transitional Cell Carcinoma? Differentiation of Bacterial Infection and Cancer of the Bladder • <i>S. Bechtel, A. Corrigan</i> | WW CD |
| 10:30-11:20 am | SAIM | Triaditis in the ICU • <i>A. DiPrete</i> | WW B |
| 10:30-11:20 am | Cardiology | Understanding the Development of Arrhythmias • <i>C. Fitzpatrick</i> | WW CD |
| 11:30 am-12:20 pm | SAIM | Discussion of Uncommon Endocrine Diseases and the Technician's Role • <i>C. Ruderman</i> | WW B |
| 11:30 am-12:20 pm | Cardiology | Understanding the Treatment of Arrhythmias • <i>C. Fitzpatrick</i> | WW CD |
| 12:30-2:00 pm | Multispecialty |  ✓ Luncheon: Managing Chronic Kidney Disease and Getting Pets to Eat • <i>V. Ograin</i> <i>Sponsored by</i>  | Potomac D |
| 2:00-4:00 pm | Cardiology | ✓ Workshop: Introduction to Cardiac Catheters and Implants, Techniques for Cardiac and Non-cardiac Procedures • <i>K. Garcia, P. Mueller, K. Antoon</i> | Baltimore 1/2 |
| 2:10-3:00 pm | Neurology | Advanced MRI Safety for Veterinary Professionals • <i>J. Stuppino</i> | WW B |
| 2:10-3:00 pm | SAIM (Nutrition) | Chronic Diarrhea • <i>N. Ackerman</i> | WW CD |
| 3:10-4:00 pm | Neurology | Holistic Epilepsy Management • <i>H. Volk</i> | WW B |
| 3:10-4:00 pm | SAIM (Nutrition) | Food Intolerance • <i>N. Ackerman</i> | WW CD |
| 4:25-5:15 pm | Neurology | Caring for the Down Patient • <i>L. Cook</i> | WW B |
| 4:25-5:15 pm | SAIM (Nutrition) | Prebiotics and Probiotics: What Can They Really Do for You? • <i>A. Wortinger</i> | WW CD |
| 5:25-6:15 pm | Neurology | Feline Neurology in Practice • <i>L. Cook</i> | WW B |
| 5:25-6:15 pm | SAIM | Inappetence in Dogs: Mechanisms and a New Strategy for Treatment • <i>J. Larson</i> | WW CD |
| 7:30-9:30 pm | SAIM (Nutrition) | ✓ Workshop: Achieving VTS Certification-Internal Medicine, Cardiology, Neurology, Oncology or Nutrition • <i>L. Merrill</i> | Baltimore 1/2 |

INTERACTIVE SESSIONS

| Time | Track/ Session Type | Session Title • Speaker | Room |
|------------------|---|--|------------------------------|
| 6:30-8:00 am | Multispecialty/ Commercial Presentation | (IS02) Understanding Fear in Pets and Managing Fear Aggression (<i>Breakfast included</i>) • <i>M. Reich</i> | Potomac D |
| | | <i>Sponsored by</i>  | |
| 6:30-8:00 am | Multispecialty/ Commercial Presentation | (IS63) "Urine Luck" - There Is an Easy Button for the Difficult Urine Sediment Analysis (<i>Breakfast included</i>) • <i>D. DeNicola, J. Ogeer</i> | Eastern Shore 2 |
| | | <i>Sponsored by</i>  | |
| 6:30-8:30 am | Equine/ Breakfast with the Experts | \$ ✓ (IS20) Equine Insurance: Real life Situations and Advice From an Industry Professional • <i>B. Waldrige, R. Ketch</i> | Potomac 6 |
| 6:30-8:30 am | SAIM/Breakfast with the Experts | \$ ✓ (IS05) Cytology and Internal Medicine: A Case-based Interactive Session from the Viewpoint of Two Specialists, ACVIM & ACVP • <i>C. Thompson, J. Veir</i> | Chesapeake 12 |
| 6:30-8:30 am | SAIM/Breakfast with the Experts | \$ ✓ (IS10) Coagulation Conundrums: An Interactive Case-based Approach to Small Animal Hemostasis • <i>D. LeVine, M. Brooks</i> | Chesapeake 7 |
| 6:30-8:30 am | SAIM/Breakfast with the Experts | \$ ✓ (IS15) Gastrointestinal Motility Disorders: A Story That Will Move You • <i>S. Marks, D. Twedt</i> | Potomac 5 |
| 8:00 am-12:00 pm | SAIM/Workshop | \$ ✓ (IS25) Tracheal and Urethral Stenting Laboratory: From Theory to Clinical Practice • <i>A. Berent, C. Weisse, J. Pomrantz</i> | National Harbor 8 |
| | | <i>Sponsored by</i>   | |
| 10:00-10:25 am | Oncology/ Knowledge Corner | Tanovea-CA1: A Novel Advancement for the Treatment of Canine Lymphoma • <i>D. Thamm</i> | Exhibit Hall CDE - Booth 801 |
| | | <i>Sponsored by</i>  | |
| 12:30-2:00 pm | Multispecialty/ Luncheon | ✓ (IS28) Board Certification Challenges Luncheon: Seeking a Pathway Forward (<i>panel and interactive session open to all stakeholders</i>) • <i>J. Larson</i> | Potomac 6 |
| 12:30-1:10 pm | SAIM/ Knowledge Corner Lunch and Learn | Canine and Feline Cystoscopy: How to Advance Diagnostic & Therapeutic Endeavors • <i>A. Berent</i> | Exhibit Hall CDE - Booth 801 |
| | | <i>Sponsored by</i>  | |
| 1:20-2:00 pm | SAIM/ Knowledge Corner Lunch and Learn | Stuck in the Stone Age, Understanding Bladder Stones • <i>J. Lulich</i> | Exhibit Hall CDE - Booth 801 |
| | | <i>Sponsored by</i>  | |
| 2:00-4:00 pm | SAIM/Workshop | \$ ✓ (IS50) Laparoscopy Dry Lab • <i>C. Webb, D. Twedt</i> | National Harbor 8 |
| 7:30-9:30 pm | Equine/SIG | (IS72) Equine Protozoal Myeloencephalitis (EPM): Update on Current Research • <i>S. Witonsky</i> | Chesapeake 5/6 |
| 7:30-9:30 pm | FAIM/SIG | (IS40) FAIM • <i>C. Luby</i> | Eastern Shore 2 |
| | | <i>Sponsored by</i>  | |
| 7:30-9:30 pm | LAIM/ Case Discussion | (IS56) ACVIM LAIM Case Report Session • <i>S. Taylor</i> | Chesapeake 12 |
| 7:30-9:30 pm | SAIM/ Case Discussion | (IS30) The Golden Retriever Lifetime Study: Highlights and Research in Progress • <i>M. Simpson</i> | Woodrow Wilson B |
| 7:30-9:30 pm | SAIM/ Case Discussion | (IS35) Life As An Internist • <i>J. Larson, M. Perez-Gonzalez</i> | Chesapeake 7 |
| 7:30-9:30 pm | SAIM/SIG | (IS45) Hot Topics in Dermatology • <i>R. Rosychuk</i> | Magnolia 1/2 |
| | | <i>Sponsored by</i>  | |
| 7:30-9:30 pm | SAIM/SIG | (IS70) GI Endoscopy: What's Your Diagnosis? • <i>M. Leib, M. Matz, A. Gallagher</i> | Chesapeake DEF |
| 7:30-9:30 pm | SAIM/ Case Discussion | (IS55) Utilizing Cytology in the Real World; A Case-based Discussion • <i>E. Rozanski, L. Garrett</i> | Chesapeake GHI |
| 7:30-9:30 pm | Multispecialty/ SIG | 📶 (IS48) Is Training Veterinary Students Still Feasible in Today's Tertiary Care Veterinary Teaching Hospitals? • <i>S. Marks, J. Taboada</i> | Magnolia 3 |

RESEARCH ABSTRACTS

| Equine | | | | |
|----------|-----|----------------|---|-----------------------|
| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
| 9:00 am | E01 | Chesapeake DEF | ◆ Quantification of Left Atrial Wall Motion in Healthy Horses Using Two Dimensional Speckle Tracking | <i>C. Eberhardt</i> |
| 9:15 am | E02 | | Effect of Flecainide on Atrial Fibrillatory Rate in Horses with Induced Atrial Fibrillation | <i>E. Hesselkilde</i> |
| 9:30 am | E03 | | Reduced Exercise Capacity in Horses Due to Atrial Fibrillation | <i>F. Buhl</i> |
| 9:45 am | E04 | | Antiarrhythmic Effects of Flecainide on Experimentally Induced Atrial Fibrillation of Different Duration in Horses | <i>T. Hesselkilde</i> |
| 10:30 am | E05 | | Beat-to-Beat Heart Rate Variability During Ridden Exercise in Healthy Horses | <i>E. Egli</i> |
| 10:45 am | E06 | | Corticotropin Releasing Hormone in Foals with Adrenocortical Insufficiency | <i>I. Dembek</i> |
| 11:00 am | E07 | | Immunohistochemical Expression of Insulin, Glucagon and Somatostatin in Pancreatic Islets from Insulin Resistant Horses | <i>N. Frank</i> |
| 11:15 am | E08 | | Equine Breed Specific Insulin/Glucose Dynamics During Frequently Sampled Intravenous Glucose Tolerance and Oral Sugar Tests | <i>K. Manfredi</i> |
| 11:30 am | E09 | | Equine Breed Histologic Differences in Adipocytes and Muscle Related to Insulin Dynamics and Body Fat | <i>L. Manfredi</i> |
| 11:45 am | E10 | | Shared Genetic Loci Underlying Equine Metabolic Syndrome in Welsh Ponies and Morgan Horses | <i>S. Norton</i> |
| 12:00 pm | E11 | | Effect of Age and Diet on Insulin and Glucose Dynamics in Horses | <i>L. Jacob</i> |
| 12:15 pm | E12 | | ◆ Fecal Bile Acids, Sterols and Fatty Acid Concentrations in Healthy and Obese Horses | <i>C. Madrigal</i> |

| Food Animal (FAIM) | | | | |
|--------------------|-----|------------|--|----------------------------|
| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
| 9:00 am | F01 | Magnolia 1 | ◆ Comparison of Oral, Intravenous and Subcutaneous Fluid Therapy for Resuscitation of Calves with Diarrhea | <i>J. Dore</i> |
| 9:15 am | F02 | | ◆ Variability of Bovine Leukemia Virus Bulk Tank Milk Antibody Levels over Different Sample Collection Intervals | <i>N. John</i> |
| 9:30 am | F03 | | Comparison of Six On-Farm Tests to Estimate Somatic Cell Count at Dry-Off in Dairy Cattle | <i>S. Kandeel</i> |
| 9:45 am | F04 | | Ability of Milk pH to Predict Increased Somatic Cell Count at Dry-Off in Dairy Cattle | <i>S. Kandeel</i> |
| 10:30 am | F05 | | Clinical Utility of Four Point-of-Care Enzymatic Tests in Predicting Somatic Cell Count in Dairy Cattle | <i>K. Kandeel</i> |
| 10:45 am | F06 | | ◆ Persistence of Coagulase Negative Staphylococcal Intramammary Infection in Dairy Goats | <i>G. Bernier Gosselin</i> |
| 11:00 am | F07 | | ◆ Use of a Minimally Invasive Tube Cystostomy for the Management of Obstructive Urolithiasis in Goats | <i>G. Wagner</i> |
| 11:15 am | F08 | | Clinical Utility of Measuring Plasma Fructosamine Concentration During Early Lactation in Dairy Cattle | <i>E. Megahed</i> |
| 11:30 am | F09 | | Evaluation of a Portable Ion-Selective Electrode Meter for Measuring Sodium Concentration in Cattle Body Fluids | <i>L. Megahed</i> |
| 11:45 am | F10 | | Ultrasonographic Determination of Longissimus Dorsi Muscle Thickness and Intramuscular Fat Percentage in Periparturient Dairy Cattle | <i>M. Megahed</i> |
| 12:00 pm | F11 | | Plasma Potassium-Lowering Effect of Different Hypertonic Infusion Solutions in Hyperkalemic Neonatal Diarrheic Calves | <i>C. Trefz</i> |
| 12:15 pm | F12 | | Effect of Age on Distribution of Danofloxacin and Tulathromycin in Dairy Calves | <i>C. Mzyk</i> |

◆ Indicates ACVIM Resident Research Award Eligibility

▲ Indicates Early Career Clinical Oncology Research Abstract Award Eligibility

RESEARCH ABSTRACTS

Cardiology (SAIM)

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|-----|------------------|--|----------------------|
| 4:30 pm | C01 | Baltimore 1/2 | ◆ Right Ventricular Systolic Function in Dogs with Preclinical and Clinical Myxomatous Mitral Valve Disease | <i>E. Chapel</i> |
| 4:45 pm | C02 | | ◆ High-Pressure Balloon Valvuloplasty for Severe Pulmonic Stenosis: A Prospective Observational Study in 25 Dogs | <i>C. Belanger</i> |
| 5:00 pm | C03 | | ◆ Exit Block as a Mechanism of Sinus Node Dysfunction Evidenced by Geometric Heart Rate Variability | <i>F. Giacomazzi</i> |
| 5:15 pm | C04 | | ◆ Is the Left Atrium Prothrombotic in Cats with Aortic Thromboembolism? | <i>T. Kurosawa</i> |
| 5:30 pm | C05 | | ◆ Characterization of Gene Expression Profiles Linked to Degenerative Mitral Valve Disease in Small Breed Dogs | <i>E. Oxford</i> |
| 5:45 pm | C06 | | ◆ Prognostic Value of MAPSE and TAPSE in Feline Hypertrophic Cardiomyopathy | <i>I. Spalla</i> |
| 6:00 pm | C07 | | ◆ Echocardiographic Assessment of Aortic Root Rotation in Dogs with Congenital Heart Disease | <i>N. Wyatt</i> |

Neurology (SAIM)

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|----------|-----|-----------|---|----------------------|
| 9:00 am | N01 | Potomac C | ◆ Common Cytogenetic Alterations Define Choroid Plexus Tumors in Dogs | <i>D. Ancona</i> |
| 9:15 am | N02 | | ◆ Pullout Properties of Monocortical and Bicortical Pins and Screws in Canine Lumbar Vertebral Bodies | <i>D. Ancona</i> |
| 9:30 am | N03 | | ◆ Pharmacokinetic Analysis of Single Dose Extended Release Levetiracetam Per OS in Healthy Cats | <i>L. Barnard</i> |
| 9:45 am | N04 | | ◆ Surgical Decompression, with or without Adjunctive Therapy, for Treatment of Primary Vertebral Osteosarcoma in Dogs | <i>S. Dixon</i> |
| 10:30 am | N05 | | ◆ The Effects of Stabilizing Agents, Fetal Calf Serum and Vetstarch, on Canine Cerebrospinal Fluid Analysis | <i>L. Peterson</i> |
| 10:45 am | N06 | | GM2 Gangliosidosis in Shiba Inu Dogs with an In-Frame HEXB Deletion and Autofluorescent Storage Granules | <i>N. Villani</i> |
| 11:00 am | N07 | | Exosome-Associated Integrins as Liquid Biopsy Biomarkers for Canine Glioma | <i>C. Li</i> |
| 11:15 am | N08 | | Investigation of Immune or Infectious Etiologies in Canine Meningitis/Meningoencephalitis/Meningoencephalomyelitis | <i>G. Moore</i> |
| 11:30 am | N09 | | Imaging Findings at 3T and Clinical Outcome in Deep-Pain Negative Dogs with Intervertebral Disc Herniation | <i>A. Otamendi</i> |
| 11:45 am | N10 | | Efficacy of a Therapeutic Diet on Dogs with Signs of Cognitive Dysfunction Syndrome | <i>Y. Pan</i> |
| 12:00 pm | N11 | | Cognitive Impairment, Health Status and Overall Adaptation in Aged Dogs: An Epidemiological Study | <i>A. Salas Mani</i> |

Oncology (SAIM)

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|----------|-----|-----------------------------|---|-------------------------|
| 9:00 am | O01 | National Harbor 12/13 | Systematic Optimization of Therapy for Canine Intracranial Neoplasia Using PAC-1, a Novel and Potent Procaspase-3 Activator (<i>VCS Award Winner</i>) | <i>L. Schlein</i> |
| 9:15 am | O02 | | Development of a Histopathologic and Flow Cytometric Subclassification System in Canine B-Cell Lymphoma (<i>VCS Award Winner</i>) | <i>A. Wolf-Ringwall</i> |
| 9:30 am | O03 | | ◆▲ Incidence and Prognostic Significance of HER2/neu Expression in Canine Osteosarcoma | <i>M. MaloneyHuss</i> |
| 9:45 am | O04 | | ◆ MicroRNA-34a Regulates the Invasive Capacity of Canine Osteosarcoma Cell Lines | <i>C. Lopez</i> |
| 10:30 am | O05 | | ◆▲ Outcome of Cats with Intermediate or Large Cell Gastrointestinal Lymphoma Treated with Surgical Mass Resection | <i>K. Tidd</i> |
| 10:45 am | O06 | | Retrospective Evaluation of Toceranib Phosphate (Palladia®) Use in the Treatment of Canine Gastrointestinal Stromal Tumors | <i>E. Berger</i> |
| 11:00 am | O07 | | Association of Tumor-Infiltrating Regulatory T Cells With Adverse Outcome in Dogs With Solid Tumors | <i>K. Sakai</i> |
| 11:15 am | O08 | | Adoptive T Cell Transfer in Healthy Dogs, and Dogs with Osteosarcoma | <i>J. Bryan</i> |
| 11:30 am | O09 | | Dysregulation of Healthy Osteoblasts by Canine Osteosarcoma Exosomes | <i>A. Schlueter</i> |

RESEARCH ABSTRACTS

Small Animal (SAIM) - Endocrinology

| TIME | # | ROOM | ABSTRACT TITLE | SPONSORED BY | PRESENTING AUTHOR |
|---------|------|----------------|---|---|-------------------|
| 2:15 pm | EN01 | | Molecular Analyses of Pituitary Somatostatin and Dopamine Receptors in Feline Hypersomatotropism (<i>ESVE Award Winner</i>) | | C. Scudder |
| 2:30 pm | EN02 | | ◆ Comparison of Two Doses for ACTH Stimulation Testing in Dogs Suspected of Hypoadrenocorticism |  | A. Botsford |
| 2:45 pm | EN03 | | ◆ Performance Evaluation of a Veterinary-Specific Enzyme-Linked Immunosorbent Assay for Measurement of Canine Serum Cortisol Concentrations | | M. Lane |
| 3:00 pm | EN04 | | ◆ Investigation of a Novel Modified Fixed Dose Determination Protocol for Radioiodine Treatment of Feline Hyperthyroidism | | W. Morre |
| 3:15 pm | EN05 | | Comparison Between Glucose Measurements in Canine Whole Blood, Serum and Plasma |  | E. Behrend |
| 3:30 pm | EN06 | | Stereotactic Irradiation of Canine ACTH-Secreting Pituitary Tumors: Clinical and MRI Time-Related Response Evaluation | | M. Dolera |
| 3:45 pm | EN07 | Chesapeake GHI | ◆ Pharmacodynamics of Insulin Detemir and Insulin Glargine (300 U/ml) in Healthy Dogs | | H. Fink |
| 4:30 pm | EN08 | | Impact of an Auditory Stimulus on Baseline Cortisol Concentrations in Clinically Normal Dogs |  | T. Gin |
| 4:45 pm | EN09 | | Diabetic Remission in Cats Examined in UK Primary-Care Veterinary Practices: Occurrence and Risk Factors | | R. Gostelow |
| 5:00 pm | EN10 | | One-Year Prospective Randomized Trial Comparing Efficacy of Glargine and Protamine Zinc Insulin in Diabetic Cats | | R. Gostelow |
| 5:15 pm | EN11 | | Biochemical Markers of Bone Turnover in Dogs with Naturally Occurring Hyperadrenocorticism |  | E. Gunn |
| 5:30 pm | EN12 | | A Comparison of Intact Parathyroid Hormone Assays for Use in Dogs | | E. Gunn |
| 5:45 pm | EN13 | | Predicted Ionized Calcium Can Accurately Confirm Hypo/Hypercalcemia in Dogs, Even with Missing Biochemistry Values |  | K. Le Boedec |
| 6:00 pm | EN14 | | Serum Symmetric Dimethylarginine Concentrations in Hyperthyroid Cats with and without Azotemic Chronic Kidney Disease | | T. Williams |

Small Animal (SAIM) - Gastroenterology

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|------|---------------------|---|-------------------|
| 2:15 pm | GI01 | | ◆ Relationship of the Mucosal Microbiota to Inflammation and Disease Activity in Cats with Intestinal Lymphoma | K. Garraway |
| 2:30 pm | GI02 | | ◆ Effects of Akkermansia muciniphila Supplementation on Markers of Intestinal Permeability in Dogs Following Antibiotic Treatment | M. Jugan |
| 2:45 pm | GI03 | | ◆ The Impact of Oral Tylosin on the Fecal Microbiota of Healthy Dogs | A. Manchester |
| 3:00 pm | GI04 | | ◆ Prognostic Indicators in Dogs with Extrahepatic Bile Duct Obstruction Secondary to Pancreatitis | S. Palermo |
| 3:15 pm | GI05 | | IL-1beta Protein Expression is Increased in Biopsies of Dogs with Severe Inflammatory Bowel Disease | K. Allenspach |
| 3:30 pm | GI06 | | Histologic Findings in Endoscopically Derived Intestinal Biopsies from Clinically Healthy Cats | S. Marsilio |
| 3:45pm | GI07 | National Harbor 6/7 | Effect of the Bile Acid Sequestrant Cholestyramine on Fecal Bile Acid Concentrations in Healthy Dogs | B. Guard |
| 4:30 pm | GI08 | | Fecal Fatty Acid Concentrations in Dogs with Exocrine Pancreatic Insufficiency Receiving Enzyme Supplementation | J. Honneffer |
| 4:45 pm | GI09 | | Ki-67/CD3 Index in Canine Inflammatory Bowel Disease | S. Karlovits |
| 5:00 pm | GI10 | | Videofluoroscopic Swallow Study Features of Obstructive Lower Esophageal Sphincter Disorders in Dogs | M. Grobman |
| 5:15 pm | GI11 | | Effect of an Extruded Vegetable Diet on Fecal Microbiota of Dogs with Food-Responsive Enteropathy | Y. Minamoto |
| 5:30 pm | GI12 | | Evaluation of Hydromorphone and Dexmedetomidine for Emesis Induction in Cats | M. Nystrom |
| 5:45 pm | GI13 | | Identification of Jejunal Lesions in Dogs Using Capsule Endoscopy | J. Pomrantz |
| 6:00 pm | GI14 | | Platelet Function and Endoscopic Changes after Clopidogrel, Aspirin, Prednisone, or Combination Therapy in Dogs | J. Whittimore |

RESEARCH ABSTRACTS

Small Animal (SAIM) - Hematology

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|----------|------|---------------------|--|-----------------------|
| 9:00 am | HM01 | National Harbor 6/7 | ◆ Serum IL-17 in Dogs with Immune-Mediated Hemolytic Anemia | <i>B. Cucq</i> |
| 9:15 am | HM02 | | ◆ Glutathione Peroxidase, Total Antioxidant Capacity, and Urinary F2-isoprostane Concentrations in Anemic Dogs | <i>A. Kendall</i> |
| 9:30 am | HM03 | | ◆ The Effect of Yunnan Baiyao on the Kinetics of Hemostasis in Healthy Dogs | <i>R. MacRae</i> |
| 9:45 am | HM04 | | ◆ Prestorage Leukoreduction Attenuates Neutrophil Extracellular Trap Formation in Canine Stored Packed Red Blood Cell Units | <i>E. McQuinn</i> |
| 10:30 am | HM05 | | ◆ Retrospective Analysis of Length of Glucocorticoid Treatment in 77 Cases of Canine Autoimmune Blood Disorders | <i>N. Puza</i> |
| 10:45 am | HM06 | | ◆ Erythrocyte Damage and In-Line Pressure Changes Associated with Transfusion of Canine Blood Through Microaggregate Filters | <i>K. Cooley-Lock</i> |
| 11:00 am | HM07 | | Analytical Validation of a Flow Cytometric Protocol for Circulating Platelet Microparticle Quantification in Dogs | <i>S. Cremer</i> |
| 11:15 am | HM08 | | Flow Cytometric Platelet Microparticle Quantification in Cats with Mild Cardiomyopathy | <i>S. Cremer</i> |
| 11:30 am | HM09 | | Diagnosis and Clinical Outcome Associated with a Leukemoid Response in Dogs: 81 cases (2006-2016) | <i>B. Janacek</i> |
| 11:45 am | HM10 | | Immediate Post-Transfusion Survival of Biotinylated Canine Red Blood Cells with Various Transfusion Techniques | <i>P. Martin</i> |
| 12:00 pm | HM11 | | Markers of Oxidative Damage during Storage of Feline Packed Red Blood Cells | <i>J. Reinhart</i> |
| 12:15 pm | HM12 | | Adherence to Human Guidelines for Plasma Transfusions in Dogs and Cats: 154 Cases | <i>T. Taney</i> |

Small Animal (SAIM) - Infectious Disease

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|------|-----------------|---|---------------------|
| 2:15 pm | ID01 | Eastern Shore 1 | ◆ Bartonella Seroepidemiology in Dogs from North America, 2008-2014 | <i>E. Lashnits</i> |
| 2:30 pm | ID02 | | ◆ Impact of Immune Suppression on Dogs with Treated Select Vector Borne Disease Agents | <i>M. Sato</i> |
| 2:45 pm | ID03 | | Immune Complex Dissociation Methods for Detecting Heartworm Antigen and Their Utility in Assessing Patient Samples | <i>R. Alleman</i> |
| 3:00 pm | ID04 | | Fecal Shedding of Parvovirus Following Modified Live Feline Panleukopenia Virus Vaccination in Adult Healthy Cats | <i>M. Bergmann</i> |
| 3:15 pm | ID05 | | Effects of a Liposome-TLR Mucosal Immune Stimulant on Kittens Infected with Feline Herpesvirus 1 | <i>E. Contreras</i> |
| 3:30 pm | ID06 | | Cell Block Cytology Applied to Sporotrichosis Diagnosis | <i>F. Gonsales</i> |
| 3:45 pm | ID07 | | A Rapid In-Clinic Test Detects IgM Antibodies to Four Different Leptospira Serovars | <i>J. Lizer</i> |
| 4:30 pm | ID08 | | Relationship Between Histoplasma Capsulatum Urine EIA Results and Outcome in Cats Treated for Histoplasmosis | <i>J. McGill</i> |
| 4:45 pm | ID09 | | Prevalence and Phylogeography of Methicillin Resistant Staphylococcus spp. Carriage in Companion Animals in Brisbane, Australia | <i>E. Meler</i> |
| 5:00 pm | ID10 | | Prevalence of Vector-borne Diseases in Healthy Dogs in Oklahoma | <i>E. Rupert</i> |

Small Animal (SAIM) - Nephrology/Urology

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|----------|------|-------------|--|--------------------|
| 9:00 am | NU01 | Potomac 1-4 | ◆ Fluorescent in Situ Hybridization in Tissues from Dogs with Proliferative Urethritis | <i>M. Borys</i> |
| 9:15 am | NU02 | | ◆ Vitamin D Metabolism in Dogs with Calcium Oxalate Urolithiasis | <i>E. Groth</i> |
| 9:30 am | NU03 | | ◆ Risk Factors for Urinary Tract Infections in Cats After Ureteral Stent and Ureteral Bypass Placement | <i>L. Kopecny</i> |
| 9:45 am | NU04 | | ◆ Concentrated Alkaline Urine is Hostile to Uropathogenic E. coli Growth | <i>L. Thornton</i> |
| 10:30 am | NU05 | | Correlation Between Canine Urine Cortisol-Creatinine and Protein-Creatinine Ratios Collected at Home and in Hospital | <i>L. Citron</i> |
| 10:45 am | NU06 | | Application of Peritoneal Dialysis in Companion Animals in Turkey | <i>N. Keskin</i> |

RESEARCH ABSTRACTS

Small Animal (SAIM) – Nephrology/Urology *(continued)*

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|----------|------|----------------|--|----------------------|
| 11:00 am | NU07 | Potomac 1-4 | Predicted Ionized Calcium Better Reflects Calcium Homeostasis Than Total Calcium in Dogs with Renal Azotemia | <i>K. Le Boedec</i> |
| 11:15 am | NU08 | | Urine Protein to Creatinine Ratios of Proteinuric Canine Urine Samples Stored in Multiple Container Types | <i>P. Moyle</i> |
| 11:30 am | NU09 | | Evaluation of Gastric pH and Serum Gastrin Concentrations in Cats with Chronic Kidney Disease | <i>M. Tolbert</i> |
| 11:45 am | NU10 | | Effect of High Sodium Diet on Urine Characteristics in Healthy Adult Dogs | <i>H. Xu</i> |
| 12:00 pm | NU11 | | SDMA is a More Reliable Marker for Kidney Function in Cats and Dogs with Cancer | <i>M. Yerramilli</i> |
| 12:15 pm | NU12 | | Increased Water Intake and Hydration in the Domestic Cat Ingesting a Nutrient-Enriched Water | <i>B. Zanghi</i> |

Small Animal (SAIM) – Nutrition/Metabolism

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|------|---------------------------|--|-------------------|
| 9:00 am | NM01 | National Harbor 2/3 | ◆ Effect of Antioxidant Supplementation on Markers of Oxidative Stress and Clinical Outcome in Hospitalized Dogs | <i>D. Hagen</i> |
| 9:15 am | NM02 | | Voluntary Food Ingestion in Dogs Following Intestinal Surgery | <i>C. Kennedy</i> |
| 9:30 am | NM03 | | Measurement of Body Composition and Body Water Using Quantitative Magnetic Resonance in Prewearing Puppies | <i>J. Spears</i> |

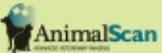
Small Animal (SAIM) – Pharmacology

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|----------|-----|---------------------------|---|--------------------|
| 9:45 am | P01 | National Harbor 2/3 | ◆ Effect of Corticosteroids on Plasma Protein Binding of Mycophenolic Acid in Dogs and Cats | <i>A. Morassi</i> |
| 10:30 am | P02 | | ◆ Assessment of Safety, Toxicity, and Pharmacokinetics of Cannabidiol in Healthy Dogs | <i>L. Bartner</i> |
| 10:45 am | P03 | | Concentration-Dependent Effects of Mycophenolic Acid on Canine Lymphocytes | <i>C. Mulligan</i> |
| 11:00 am | P04 | | Pharmacokinetics of Mycophenolic Acid after Multi-Oral Dose Administration of Mycophenolate Mofetil in Healthy Cats | <i>J. Slovak</i> |

Small Animal (SAIM) – Respiratory

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|----------|-----|---------------------------|---|--------------------------|
| 11:15am | R01 | National Harbor 2/3 | ◆ Effect of Oral Yunnan Baiyao on Periprocedural Hemorrhage and Coagulation in Dogs Undergoing Nasal Biopsy | <i>L. Adelman</i> |
| 11:30am | R02 | | ◆ Bacterial Infection in Canine Tracheal Collapse Syndrome Patients Prior to, and Following, Tracheal Stent Placement | <i>S. Lesnikowski</i> |
| 11:45 am | R03 | | ◆ Oral Probiotic Bacterial Species Can Colonize the Healthy Feline Airway Microbiota | <i>A. Vientos Plotts</i> |
| 12:00 pm | R04 | | Thoracic Radiograph Findings in Feline Histoplasmosis | <i>L. Kuzimski</i> |

ACVIM MEETINGS & EVENTS

| Time | Event | Room |
|------------------|---|---|
| 6:30 am–9:30 pm | Interactive Sessions | See page 51 |
| 6:30–7:50 am | Forum Program Committee Meeting (AASIGs) | National Harbor 1 |
| 7:00 am–7:00 pm | Registration | Convention Center Pre-function |
| 7:00 am–7:00 pm | Speaker Ready Room | Chesapeake JKL |
| 7:00 am–7:00 pm | Candidate Lounge | <i>Sponsored by</i>  blackwellking VETERINARY CHANGE CONSULTANTS |
| 7:00 am–7:00 pm | Diplomate Lounge | <i>Sponsored by</i>  VCA |
| 7:00–7:20 am | Moderator Training (Research Abstracts) | Potomac 1-4 |
| 7:20–7:40 am | Moderator Training (Scientific Sessions) | Potomac 1-4 |
| 7:30 am–4:00 pm | Cyber Café <i>(Available other times throughout the conference unmanned)</i> | <i>Powered by</i>  VIN |
| 7:45 am–6:30 pm | ✓ Childcare | Chesapeake 10/11 |
| 8:00 am–6:15 pm | Technician Program | See page 50 |
| 9:00 am–6:15 pm | Research Abstracts | See pages 52-53 |
| 9:30 am–4:30 pm | Exhibit Hall & Poster Presentations | Exhibit Hall CDE See pages 62-73 |
| 9:50–10:30 am | Beverage Break | Exhibit Hall CDE |
| 10:30–11:20 am | Keynote Address Don't miss keynote speaker, Dr. Mark Stetter, Dean of the College of Veterinary and Biomedical Sciences at Colorado State University and former Director of Animal Operations for the Walt Disney Company, as he shares his unique experiences in veterinary medicine and his desire to "help solve major world problems." | <i>Sponsored by</i>  Hills |
| 11:30 am–1:00 pm | Consensus Statements | See page 47 |
| 12:30–2:00 pm | LAIM Executive Committee Meeting | Eastern Shore 3 |
| 1:00–2:00 pm | Friends of Dr. Bob and Bill W. Meeting | National Harbor 1 |
| 4:00–4:25 pm | Beverage Break | Exhibit Hall CDE |
| 6:00–7:30 pm | The Big Bash Join ACVIM and Hill's Pet Nutrition to celebrate the last big night of the conference. Enjoy the entertainment, get a bite to eat and enjoy a cocktail. Stop in or stay for the entire event. | <i>Sponsored by</i>  Hills  ACVIM |
| 7:00–11:00 pm | ✓ Neurology Specialty Dinner | <i>Sponsored by</i>  AnimalScan |

OTHER ORGANIZATION MEETINGS & EVENTS

| Time | Event | Room |
|---------------|---|---|
| 12:20–2:00 pm | ASVNU Business Luncheon | <i>Sponsored by</i>  Hills |
| 12:30–2:00 pm | Comparative Gastroenterology Society (CGS) Luncheon | <i>Sponsored by</i>  PURINA PRO PLAN VETERINARY DIETS |
| 6:00–10:00 pm | AVHTM Reception, Business Meeting and Presentations | Potomac 5 |

SCIENTIFIC SESSIONS • MORNING SESSIONS

| | 8:00–8:50 am | 9:00–9:50 am |
|---|---|--|
| Cardiology Comprehensive Review Maryland A | The Valve Study: Is Triple Therapy Superior to Double Therapy <i>G. Wess</i> | The Longitudinal Outcome of Canine Mitral Valve Disease (look-mitral) Study. Preliminary Results <i>M. Borgarelli</i> |
| Equine Comprehensive Review from Europe National Harbor 2/3 | Atrial Ectopic Rhythms in Horses <i>G. van Loon</i> | Selection of Research Abstracts of the 9th ECEIM Congress, Helsinki, FI <i>G. van Loon</i> |
| Equine Research Abstracts National Harbor 12/13 | Research Abstracts* | Research Abstracts* |
| Food Animal (FAIM) SOTA Magnolia 1 | ☀ Challenges of Trace Mineral Diagnosis <i>H. Guyot</i> | ☀ The Use of Inflammatory Markers in Field Cattle Medicine <i>H. Guyot</i> |
| Neurology SOTA Potomac 1-4 | ☀ Overstimulation of the Inhibitory Nervous System Plays a Role in the Pathogenesis of Neuromuscular and Neurological Diseases: A Novel Hypothesis <i>B. Tuk</i> | ☀ A Novel Treatment Paradigm for Neuromuscular and Neurological Diseases <i>B. Tuk</i> |
| Oncology Comprehensive Review National Harbor 6/7 | Diverse DNA Damage Response Mechanisms in Cancer: From Tumor Suppression to Therapeutic Targets <i>K. Hume</i> | Molecular Diagnostics in Oncology <i>C. Khanna</i> |
| Oncology Research Reports Chesapeake DEF | Efficacy and Safety of Electrochemotherapy in the Treatment of Soft Tissue Sarcomas in Dogs <i>G. Lubas</i> | Surviving Inhibition with EZN-3042 for Canine Lymphoma Therapy: Phase-I Investigation <i>D. Thamm</i> |
| | Evaluation of Chimeric Antigen Receptor T Cell Therapy in Dogs with B Cell Lymphoma <i>N. Mason</i> | |
| Small Animal (SAIM) Comprehensive Review Maryland D | 📶 Anti-platelet Therapy: What Is New? <i>J. Thomason</i> | 📶 Altered Fibrinolysis in the Clinical Setting <i>A. deLaforcade</i> |
| Small Animal (SAIM) Research Reports National Harbor 10/11 | Evaluation of Serum Thyroxine, Free Thyroxine, and Thyrotropin Concentrations for Diagnosis of Feline Latrogenic Hypothyroidism <i>M. Peterson</i> | Expanded Panel of Cytometric Markers for Canine Immune Thrombocytopenia (ITP) <i>M. Brooks</i> |
| | Evaluation of Fecal Canine Calprotectin as a Biomarker in Dogs with Chronic Inflammatory Enteropathies <i>R. Heilmann</i> | Cell-free DNA, a Potential Thrombosis Trigger, is Increased in Canine Immune-Mediated Hemolytic Anemia <i>D. LeVine</i> |
| CAPC (SAIM) Maryland C | Giardia, Hookworms, Pythium and Other Small Bowel Parasites of the Dog and Cat <i>D. Bowman, K. Simpson</i> | Tritrichomonas, Whipworms, and Other Large Bowel Associated Parasites of Dogs and Cats <i>D. Bowman, K. Simpson</i> |
| ISCAID (SAIM) Maryland B 4-6 | Best of 2016 ISCAID Symposium, Bristol UK <i>A. Litster</i> | Crosstalk Among Pathogens and How the Microbiome and Virome Can Modify Disease <i>P. Pesavento, C. Mansfield</i> |
| Small Animal (SAIM) Research Abstracts Chesapeake GHI | Gastroenterology Research Abstracts* | Gastroenterology Research Abstracts* |
| Small Animal (SAIM) Research Abstracts Chesapeake 5/6 | Hepatology Research Abstracts* | Hepatology Research Abstracts* |
| Small Animal (SAIM) Research Abstracts Maryland 1-3 | Other Research Abstracts* | Immunology Research Abstracts* |

VISIT EXHIBIT HALL



KEYNOTE ADDRESS

10:30-11:20 am

Dr. Mark Stetter,
*Dean of the College of Veterinary and
Biomedical Sciences at Colorado State University*



Potomac AB

Sponsored by



Don't miss keynote speaker, Dr. Mark Stetter, Dean of the College of Veterinary and Biomedical Sciences at Colorado State University and former Director of Animal Operations for the Walt Disney Company, as he shares his unique experiences in veterinary medicine and his desire to "help solve major world problems." As the world's population explodes, there is both a need to feed the planet as well as consider sustainable agriculture and welfare concerns. The veterinary role in biomedical research and a greater understanding of One Health and natural animal models will help bring new medical discoveries.

CONSENSUS
STATEMENT
PRESENTATIONS

11:30 am-12:10 pm

**Large Animal
Internal Medicine
Consensus Statement**
Maryland A

Lyme Disease in Horses
*T. Divers (Chair), R. Gardner,
A. Johnson,
E. Swinebroad,
S. Witonsky*

11:30 am-1:00 pm

**SAIM
Consensus Statement**
Maryland B 4-6

11:30-11:50 am

Degenerative Valve Disease
*B. Keene (Chair), C. Atkins,
J. Bonagura,
P. Fox, J. Haggstrom,
V. Luis Fuentes, J. Rush, R. Stepien*

11:55 am-12:35 pm

**Chronic Hepatopathies
in Dogs**
*C. Leveille-Webster (Chair),
S. Center, J. Cullen,
K. Richter, D. Twedt,
P. Watson*

12:40-1:00 pm

Hypertension
*M. Acierno (Chair), S. Brown,
R. Jepsen, M. Papich,
R. Stepien, H. Syme*

SCIENTIFIC SESSIONS • AFTERNOON SESSIONS

| | 2:10–3:00 pm | 3:10–4:00 pm | 4:25–5:15 pm | 5:25–6:15 pm |
|--|--|--|---|--|
| Business Management Maryland 1-3 | Everyone's a Critic: Dealing with Negative Reviews and Cyberbullying <i>K. May</i>  | Preventative Care for your Online Reputation <i>K. May</i>  | Q&A on Cyberbullying and Reputation Management <i>K. May</i>  | Primary Care Veterinary-Specialist Collaborative Care: Research Update, VetSOAP <i>S. Willis</i>  |
| Cardiology Comprehensive Review Maryland A | Feline Cardiomyopathy: New Perspectives <i>P. Fox</i> | Epidemiology, Incidence, and Risk Factors for Preclinical Hypertrophic Cardiomyopathy and Clinically Normal Cats <i>P. Fox</i> | An Update and Paradigm Shift on Heartworm Resistance to Macrocytic Lactones: Where Have All the LOEs Gone? <i>C. Atkins</i> | Cardiovascular Anesthesia <i>L. Pablo</i> |
| Cardiology Research Reports/Research Abstracts National Harbor 6/7 | | INSPECT Survey: An Initiative for Simple Pragmatic End-Point Clinical Trials in Veterinary Cardiology <i>B. Scansen</i> | Research Abstracts* | Research Abstracts* |
| Equine SOTA / Comprehensive Review Potomac 1-4 |   Ataxia is Not the Inly Clinical Manifestation of Neck Injuries <i>J. Denoix</i> |   Diagnosis of Low Back (Lumbar and Lumbosacral) Pain in Equine Athletes <i>J. Denoix</i> |  The Use of Angiotensin-converting Enzyme Inhibitors for the Management of Heart Failure in Horses <i>T. Afonso</i> |  Effect of AF on Exercise Performance <i>D. Trachsel</i> |
| Equine Research Abstracts Chesapeake 5/6 | Research Abstracts* | Research Abstracts* | Research Abstracts* | Research Abstracts* |
| Food Animal (FAIM) Comprehensive Review Magnolia 1 | Exploiting Salmonella Biology to Reduce Disease Burden <i>J. Effenbein</i> | National Strategy on Antimicrobial Resistance in Switzerland: A Global Approach <i>M. Meylan</i> | Medical Management of Parturition and Dystocia for the Livestock Internist <i>R. Callan</i> | BVD - Eradication Programmes in Europe <i>I. Lorenz</i> |
| Food Animal (FAIM) Research Reports/ACVCP/AAVPT (FAIM) Magnolia 3 | A Comparative Evaluation of Diagnostic Findings and Mortality Risks in Hospitalized Neonatal Camelids and Foals <i>D. Bedenice</i> | Mycobacterium Cell Wall Fraction as an Aid in Reduction of Antibiotic Use in Young Calves <i>A. Masic</i> | Integrating Diagnostic Test Results for the Large Animal Internist Using Bayesian Thinking <i>S. Buczinski</i> | Intramammary Therapy: Impact of Cow and Farm Management Factors <i>T. Whittem</i> |
| | Changes in the Fecal Microbiota of Calves Experimentally Infected with Mycobacterium avium subsp. Paratuberculosis <i>M. Fecteau</i> | Comparing Salmonella enterica Detection in Feces using Aerobic Culture, Targeted Molecular Tests, and Shotgun Metagenomics <i>P. Morley</i> | | |
| Neurology Comprehensive Review National Harbor 10/11 | Recognition and Therapy of Movement Disorders <i>D. O'Brien</i> | Applications of C Reactive Protein in the Diagnosis and Monitoring of Diskospondylitis <i>W. Bush</i> | Corticosteroid Induced Pu/pd: Pathophysiology and Management <i>J. Berg</i> | I Want to Be a Veterinary Neurologist/neurosurgeon: An In-depth Look at Working in Academia vs. Private Practice <i>S. Thomovsky, B. Comito</i> |
| Oncology Comprehensive Review Chesapeake GHI |  Clinical Impact and Management of Chemotherapy-induced Vomiting and Inappetence <i>C. Johannes</i> |  Panel: The Economics of Veterinary Oncology: Opportunities and Challenges <i>C. Johannes, P. Bergman, G.S. Price, C. Clifford</i> |  Just Because We Can Doesn't Mean We Should: Anecdote vs. Evidence in Current Clinical Oncology <i>C. Henry</i> | |

VISIT EXHIBIT HALL

SCIENTIFIC SESSIONS • AFTERNOON SESSIONS

| | 2:10–3:00 pm | 3:10–4:00 pm | 4:25–5:15 pm | 5:25–6:15 pm |
|--|--|--|--|--|
| Small Animal (SAIM) Comprehensive Review National Harbor 2/3 | CT Angiography of Portal Venous Anomalies in Dogs & Cats <i>B. Scansen</i> IDEXX | High Resolution Computed Tomography in the Diagnosis of Idiopathic Pulmonary Fibrosis <i>B. Corcoran</i> | When to Consider Abdominal Computed Tomography (CT) Over Abdominal Ultrasound? <i>A. Marolf</i> | Imaging in GI Disease: Beyond Radiographs and Ultrasound <i>J. Pomrantz</i> |
| Small Animal (SAIM) Post Graduate Course Chesapeake DEF | Vector-borne Disease of the Cat <i>R. Lobetti</i> | Canine Leptospirosis: Prime Suspect <i>A. Litster</i> | Non-antibiotic Therapies for Infection Treatment and Prevention <i>J. Granick</i> | Enterococcal Infections in Dogs and Cats <i>M. Thompson</i> |
| AAVN/ACVN (SAIM) National Harbor 12/13 | Dietary Supplement Regulations in the United States <i>B. Bookout</i> | The Impact of Food Processing on Nutrients <i>M. Slavin</i> | Immunologic, Structural and Functional Response to Intestinal Abstinence <i>K. Saker</i> | The Intestinal Microbiome: The Potential and the Promise <i>M. Koci</i> |
| ASVNU (SAIM) Maryland C | New Insights Into the Mechanisms of Kidney Stone Formation: From Mice and Men <i>F. Knauf</i> | Feline Calcium Oxalate Urolithiasis: What We Do – Can We Do Better? <i>J. Bartges</i> Significance of Unique and Rare Uroliths <i>J. Lulich</i> | USMI or Urethral Dyssynergia in Male Dogs: Are We Misdiagnosing Them? <i>J. Byron</i> Diagnosis of TCC: A New Era <i>S. Vaden</i> | Fluid Therapy for AKI: Lessons From Animal Models and Humans <i>J.D. Foster</i> Biofilms in the Urinary Tract <i>E. Wolff</i> |
| CGS (SAIM) Maryland B 4-6 | Nutritional Management of Chronic Enteropathies <i>A. Kathrani</i> | Adopting Best Practices: Rational Therapy for Gastrointestinal Ulceration and Erosion <i>K. Tolbert</i> | Indications and Emerging Therapies for Use of Anti-emetics and Appetite Stimulants <i>C. Johannes, D. Twedt</i> | Animal Models of Human Disease <i>J. Fox</i> |
| ASVCP (SAIM) Maryland D | Hematology, Biochemistry and Iron of Aging <i>L. Radakovich</i> | Effects of Paraneoplastic Syndromes on Complete Blood Counts and Serum Chemistry Profiles <i>A. MacNeill</i> | Biochemical Abnormalities with Cytologic/Hematologic Correlations in Dogs <i>R. Raskin</i> | Biochemical Abnormalities with Cytologic/Hematologic Correlations in Cats <i>R. Raskin</i> |

VISIT EXHIBIT HALL

Journal of Veterinary Internal Medicine

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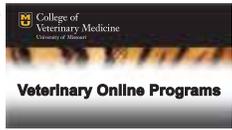
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TECHNICIAN PROGRAM

WW = Woodrow Wilson

| Time | Track | Session Title • Speaker | Room |
|-------------------|--------------------|--|---------------|
| 8:00–8:50 am | SAIM (Transfusion) | Alternative Use of Blood Products • <i>K. Yagi</i> <i>Sponsored by</i> | WW CD |
| | |  | |
| 8:00–8:50 am | Multispecialty | The Nursing Process • <i>L. Rudolph</i> | WW B |
| 8:00–10:00 am | Cardiology | ✓ Workshop: ECG Interpretation • <i>A. Myers, B. Brewer</i> | Baltimore 1/2 |
| 9:00–9:50 am | SAIM (Transfusion) | Evan's Syndrome: A Technician's Role • <i>Y. Brandenburg</i> | WW CD |
| 9:00–9:50 am | Multispecialty | Acquisition and Analysis of Joint Fluid • <i>C. Pratt</i> | WW B |
| 11:30 am–12:20 pm | SAIM | Introduction to Transfusion Medicine • <i>J. Karalunas</i> | WW CD |
| 11:30 am–12:20 pm | Multispecialty | Antibiotics: Pearls for the Veterinary Technician • <i>D. Spann</i> | WW B |
| 12:30–2:00 pm | Multispecialty |  ✓ Luncheon: Addison's: The Crisis and Beyond • <i>A. Cook</i> <i>Sponsored by</i> | Potomac D |
| | |  | |
| 2:00–4:00 pm | Multispecialty | ✓ Workshop: Diabetes Mellitus • <i>R. Poulin, K. Burns</i> | Baltimore 1/2 |
| 2:10–3:00 pm | Cardiology | Reflection of the Heart: Basic Echocardiography • <i>H. Durham</i> | WW CD |
| 2:10–3:00 pm | LAIM | Targeted Nutritional Management of Horses at Risk of Laminitis • <i>H. Carslake</i> | WW B |
| 3:10–4:00 pm | Cardiology | How Fast Is Fast: Doppler Echocardiography • <i>H. Durham</i> | WW CD |
| 3:10–4:00 pm | Equine | A Technicians Guide to Radiography in Equine Medicine • <i>R. Hepburn</i> | WW B |
| 4:25–5:15 pm | Oncology | Prevention, Management and Treatment of Chemotherapy Induced Gastrointestinal Toxicity in Veterinary Medicine • <i>E. Warry</i> | WW CD |
| 4:25–5:15 pm | Equine | Biosecurity Measures to Prevent the Spread of Equine Infectious Diseases to Equine Patients and People • <i>A. Schoster</i> | WW B |
| 5:25–6:15 pm | Oncology | Bronchoscopy for the Endoscopy Technician • <i>S. Cox</i> | WW CD |
| 5:25–6:15 pm | LAIM | Common Clinical Presentations and Diseases of Neonatal Ruminants and Camelids • <i>M. Ackerman</i> | WW B |

INTERACTIVE SESSIONS

| Time | Track/ Session Type | Session Title • Speaker | Room |
|---------------------------|---|---|---------------------------------|
| 6:30-8:00 am | SAIM/ Commercial Presentation | ✓ (IS03) Kidney Disease in Dogs and Cats: How to Make the Most Out of an Early Diagnosis <i>(Breakfast included)</i> • J. Robertson <i>Sponsored by</i>  | Eastern Shore 2 |
| 6:30-8:00 am | SAIM/ Case Discussion | (IS62) Strategies for Management Loss and Cachexia in Cats <i>(Breakfast included)</i> • J. Quimby <i>Sponsored by</i>  | Potomac D |
| 6:30-8:00 am Potomac C | Multispecialty/ Commercial Presentation | (IS04) Dealing With Dysrexia <i>(Breakfast included)</i> • A. Cook <i>Sponsored by</i>  | Potomac C |
| 10:00-10:25 am | Multispecialty/ Knowledge Corner | Electrochemotherapy: A Valuable Addition to the Armamentarium of the Cancer Treatment Options • J. Impellizeri <i>Sponsored by</i>  | Exhibit Hall CDE - Booth 801 |
| 12:30-1:10 pm | SAIM/ Knowledge Corner Lunch and Learn | Flat Faced n' Brachycephalic - What's New? • B. McKiernan <i>Sponsored by</i>  | Exhibit Hall CDE - Booth 801 |
| 12:30-2:00 pm | Business Management/ Lunch and Learn | ✓ (IS64) Values and Wellbeing: A Lifemap for Healthy Decision Making • E. Strand <i>Sponsored by</i>  | Eastern Shore 2 |
| 12:30-2:00 pm | Equine/SIG | ✓ (IS65) Equine Emerging/Re-emerging Diseases Luncheon • F. Andrews, G. Perkins <i>Sponsored by</i>  | Potomac C |
| 1:20-2:00 pm | Multispecialty/ Knowledge Corner Lunch and Learn | ELIAS Cancer Immunotherapy: Autologous Activated T cell Therapy for Canine Osteosarcoma • J. Bryan <i>Sponsored by</i>  | Exhibit Hall CDE - Booth 801 |
| 2:00-4:00 pm | SAIM/ Workshop | ✓ (IS60) Minimally Invasive Urinary Interventions • T. Hill <i>Sponsored by</i>   | National Harbor 8 |
| 7:30-8:30 pm | Business Management/SIG | (IS80) Navigating Student Loan Repayment • P. Pion, A. Bartels | Chesapeake 4 |
| 7:30-8:30 pm | SAIM/ Case Discussion | (IS75) Vet-LIRN's Role in Investigating Potential Animal Food Issues • J. Jones | Chesapeake 7 |
| 7:30-9:30 pm | Multispecialty/ SIG | (IS92) SIG: Equine/Cardiology: Ultrasound to Guide Invasive Cardiovascular Procedures: Tips and Tricks • G. van Loon Population Specific Clinical Management of Equine Atrial Fibrillation • C. Marr, I. Comyn Exercise-associated Arrhythmias in Thoroughbred Racehorses • C. Marr, I. Comyn | Chesapeake DEF |
| 7:30-9:30 pm | Cardiology/ Workshop | ✓ (IS110) ECG Rounds: Diagnosis and Management of Common Arrhythmias in Small Animal General Practice • G. Rapoport, W. Rausch | Magnolia 3 |
| 7:30-9:30 pm | Equine/SIG | (IS105) Equine Endocrinology • F. Bertin, E. Tadros <i>Sponsored by</i>  | Magnolia 1 |
| 7:30-9:30 pm | Neurology/ Case Discussion | ✓ (IS115) Challenging Neurolocalization Cases: Discussing the Ins and Outs of Neurolocalization Using Case Examples • S. Thomovsky, B. Comito | Chesapeake 12 |
| 7:30-9:30 pm | SAIM/ Case Discussion | (IS85) Upper Urinary Tract • G. Grauer | Eastern Shore 1 |
| 7:30-9:30 pm | SAIM/ Case Discussion | (IS87) Small Animal Rotating Internships: Steps We Need to Take to Assure Program Quality and Graduate Competency • R. Goldstein | Chesapeake 8 |
| 7:30-9:30 pm | SAIM/SIG | ✓ (IS90) ISCAID Panel Discussion: Management of Chronic and Antimicrobial Resistant Infections in Companion Animals • J. Sykes, J. Granick, M. Papich, D. Bemis <i>Sponsored by</i>  | Eastern Shore 2 |
| 7:30-9:30 pm | SAIM/SIG | (IS95) Liver Study Group • C. Leveille-Webster, M. Hitt <i>Sponsored by</i>  | Chesapeake GHI |
| 7:30-9:30 pm | SAIM/SIG | (IS100) Society of Comparative Endocrinology (SCE) • T. Schermerhorn <i>Sponsored by</i>  | Chesapeake 5/6 |

RESEARCH ABSTRACTS

Cardiology (SAIM)

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|-----|---------------------|---|------------------------------|
| 4:30 pm | C08 | National Harbor 6/7 | Echocardiographic Right Atrial Volumes in Cats with Cardiac Disease and Pleural Effusion Versus Pulmonary Edema | <i>K. Scollan</i> |
| 4:45 pm | C09 | | Reader Performance of Radiographic Left Atrial Enlargement in Dogs and Comparison to Echocardiographic Left Atrial Assessment | <i>L. Duler</i> |
| 5:00 pm | C10 | | ◆ Echocardiographic Effects of Butorphanol and Atenolol in Dogs with Pulmonary Valve Stenosis | <i>S. Nishimura</i> |
| 5:15 pm | C11 | | Prospective Clinical Trial Evaluating Spironolactone in Dobermans with Congestive Heart Failure due to Dilated Cardiomyopathy | <i>L. O'Sullivan</i> |
| 5:30 pm | C12 | | Heart-Fatty Acid Binding Protein - A Potential Marker for Canine Cardiac Diseases | <i>C. Lam</i> |
| 5:45 pm | C13 | | Non-Gated Computed Tomography Angiography for Evaluation of Coronary Artery Anomalies in Bulldogs with Pulmonic Stenosis | <i>C. Gunther-Harrington</i> |
| 6:00 pm | C14 | | Ventricular Remodelling Marker Levels Differ in Cats with Hypertrophic Cardiomyopathy with and without Atrial Thrombus | <i>S. Fonfara</i> |

Equine

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|-----|---|--|------------------------|
| 8:00 am | E13 | National Harbor 12/13 | ◆ Eosinophilic Peritonitis in 8 Horses (1995-2015) | <i>C. Smith</i> |
| 8:15 am | E14 | | The Effects of Metronidazole on the Equine Cecal and Fecal Microbiome and Metabolome | <i>S. Arnold</i> |
| 8:30 am | E15 | | ◆ Effect of Age and Cortisol on Equine Dendritic Cells after Exposure to Bacteria Ex Vivo | <i>R. Gorham</i> |
| 8:45 am | E16 | | ◆ Blood Neutrophil Activation Markers in Equine Asthma Syndrome and Impact of Dexamethasone | <i>C. Herteman</i> |
| 9:00 am | E17 | | ◆ Use of Serum amyloid A to Differentiate Between Infectious and Non-Infectious Diseases in Horses | <i>E. Wensley</i> |
| 9:15 am | E18 | | ◆ Fecal Shedding Prevalence of Equine Coronavirus In Hospitalized Horses | <i>E. Kwon</i> |
| 9:30 am | E19 | | ◆ Investigation of an Experimental Infection Model of Equine Coronavirus in Adult Horses | <i>P. Schaefer</i> |
| 9:45 am | E20 | | ◆ Investigation of Shedding Frequency of Respiratory Pathogens in Horses Recently Imported to the United States | <i>K. Smith</i> |
| 2:15 pm | E21 | | Does Vaccinating Mares Prior to Parturition Increase Colostral Antibody Transfer to Foals? | <i>N. Haffner</i> |
| 2:30 pm | E22 | | ◆ Utility of Acute Phase Proteins in Equine Protozoal Myeloencephalitis and Other Equine Nervous System Diseases | <i>J. Mittelman</i> |
| 2:45 pm | E23 | Expression and Sequence of Calcium Regulatory Micropeptides in Equine Skeletal Muscle: Implications for Exertional Rhabdomyolysis | <i>J. Valberg</i> | |
| 3:00 pm | E24 | Identification of Candidate Genes for Recurrent Exertional Rhabdomyolysis in Thoroughbreds and Standardbreds | <i>E. Beeson</i> | |
| 3:15 pm | E25 | Foal Survival Score Can Predict Disease Severity in Neonatal Foals | <i>S. Dembek</i> | |
| 3:30 pm | E26 | ◆ Pharmacokinetic and Biochemical Profiles After Single Administration of Oral Torsemide in Healthy Horses | <i>G. Ferlini Agne</i> | |
| 3:45 pm | E27 | ◆ Pharmacodynamic Properties of Oral Torsemide in Healthy Horses | <i>G. Ferlini Agne</i> | |
| 4:30 pm | E28 | Chesapeake 5/6 | ◆ Diarrhea in Horses Treated for Lower Respiratory Tract Disease with Macrolides Versus Other Antimicrobials (2000-2015) | <i>C. John</i> |
| 4:45 pm | E29 | | ◆ Pharmacokinetics of Intravenous Lithium Chloride and Agreement Between Two Methods of Lithium Measurement in Horses | <i>N. Martin</i> |
| 5:00 pm | E30 | | ◆ Ocular Tissue Concentrations and Safety after Subconjunctival Injection of a Voriconazole Thermogel in Horses | <i>F. Mora Pereira</i> |
| 5:15 pm | E31 | | ◆ Comparison of Respiratory Inductive Plethysmography and Forced Oscillatory Mechanics to Measure Airway Hyperreactivity in Horses | <i>B. Dixon</i> |
| 5:30 pm | E32 | | ◆ Effect of Valacyclovir on EHV-5 Viral Kinetics in Horses Diagnosed with Equine Multinodular Pulmonary Fibrosis | <i>S. Easton-Jones</i> |
| 5:45 pm | E33 | | ◆ Relationship Between Tracheobronchoscopic EIPH Score and Bronchoalveolar Lavage Erythrocyte Count in Horses | <i>E. Lopez</i> |
| 6:00 pm | E34 | | Prevalence of Exercise-Induced Pulmonary Hemorrhage in Barrel Racing Horses in the Pacific Northwest | <i>F. Gold</i> |

RESEARCH ABSTRACTS

Small Animal (SAIM) - Gastroenterology

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|------|-------------------|--|---------------------------|
| 8:00 am | GI15 | Chesapeake GHI | Prevalence of Hypoadrenocorticism in Dogs with Chronic Gastrointestinal Signs | <i>S. Unterer</i> |
| 8:15 am | GI16 | | Oral Cobalamin Supplementation in Dogs with Exocrine Pancreatic Insufficiency | <i>L. Toresson</i> |
| 8:30 am | GI17 | | Development of a Canine Intestinal Organoid Model | <i>A. Meneses</i> |
| 8:45 am | GI18 | | Administration of Enterococcus faecium NCIMB 10415 to Normal Dogs Does Not Change Their Fecal Microbiota | <i>L. Matthewman</i> |
| 9:00 am | GI19 | | Comparison of Maropitant to Metoclopramide Prior to Orogastic Administration of Polyethylene Glycol Solution in Dogs | <i>D. Grant</i> |
| 9:15 am | GI20 | | The Role of Pore-Forming Toxins in Dogs with Acute Hemorrhagic Diarrhea Syndrome | <i>K. Busch</i> |
| 9:30 am | GI21 | | Serum 3-Bromotyrosine Concentrations in Dogs with Chronic Enteropathy | <i>P. Sattasathuchana</i> |
| 9:45 am | GI22 | | Eosinophil Peroxidase Monoclonal Antibody Labels Intact and Degranulated Eosinophils in the Gastrointestinal Tract | <i>R. Washabau</i> |

Small Animal (SAIM) - Hepatology

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|------|-------------------|--|---------------------------|
| 8:00 am | HP01 | Chesapeake 5/6 | ◆ Biomarkers of Oxidative Stress and Redox Status of the Liver in Dogs with Liver Disease | <i>C. Barry-Heffernan</i> |
| 8:15 am | HP02 | | ◆ Canine Cholangitis/Cholangiohepatitis: A Descriptive Study in 54 Dogs (2004-2014) | <i>J. Harrison</i> |
| 8:30 am | HP03 | | Hepatic Fibrosis is Associated with Shortened Survival Times in Dogs with Chronic Hepatitis | <i>C. Dolan</i> |
| 8:45 am | HP04 | | Proteomic Analysis of Liver Tissue from Dogs with Chronic Hepatitis | <i>Y. Lawrence</i> |
| 9:00 am | HP05 | | Characterization of the Urine Metabolome of Dogs with Chronic Hepatitis | <i>Y. Lawrence</i> |
| 9:15 am | HP06 | | Hepatic Leptospiral Infections without Prominent Renal Involvement | <i>K. McCallum</i> |
| 9:30 am | HP07 | | ◆ Demographics and Histological Changes in a Cohort Group of Dogs with Abnormal Hepatic Copper Concentrations | <i>T. Ullal</i> |
| 9:45 am | HP08 | | Coagulation Abnormalities and their Correlation to Use of Gelfoam® to Aid in Hemostasis During Laparoscopic Liver Biopsy In Dogs | <i>S. Wennogle</i> |

Small Animal (SAIM) - Immunology

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|------|--------------|---|--------------------|
| 9:00 am | IM01 | Maryland 1-3 | ◆ In Vitro Effects of Vitamin D on Phagocytosis, TLR4, and Cytokine Production in Healthy Dogs | <i>J. Jaffey</i> |
| 9:15 am | IM02 | | Urban Environment and Odds of Canine Immune-Mediated Disease | <i>U. Jeffery</i> |
| 9:30 am | IM03 | | Immune Cells in the Nose and Oropharynx of Cats and Response to Mucosal Immune Stimulation | <i>S. Dow</i> |
| 9:45 am | IM04 | | The Use of a Combination-Drug Protocol Versus Glucocorticoids Alone for Treatment of Idiopathic Immune-Mediated Polyarthritis | <i>S. Ravicini</i> |

Small Animal (SAIM) - Other

| TIME | # | ROOM | ABSTRACT TITLE | PRESENTING AUTHOR |
|---------|------|--------------|--|-------------------|
| 8:00 am | OT01 | Maryland 1-3 | Factors in Successful IV Catheterization of Patients by Veterinary Students in the Emergency Room | <i>S. Babyak</i> |
| 8:15 am | OT02 | | Vasopressor Use in Critically Ill Cats 41 Cases (2007- 2015) | <i>N. Licht</i> |
| 8:30 am | OT03 | | Evaluation of Middle Ear in Cats with Eustachian Tube Obstruction | <i>N. Keskin</i> |
| 8:45 am | OT04 | | Radial and Coccygeal Artery Indirect Doppler Systolic Blood Pressure Measurements in Privately-Owned, Conscious Dogs | <i>A. Mooney</i> |

◆ Indicates ACVIM Resident Research Award Eligibility

▲ Indicates Early Career Clinical Oncology Research Abstract Award Eligibility

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ACVIM MEETINGS & EVENTS

| Time | Event | Room |
|-----------------|--|---|
| 7:00 am-5:00 pm | Registration | Convention Center Pre-function |
| 7:00 am-5:00 pm | Speaker Ready Room | Chesapeake JKL |
| 7:00 am-5:00 pm | Candidate Lounge | <i>Sponsored by</i>  blackwellking VETERINARY CHANGE CONSULTANTS Chesapeake 2/3 |
| 7:00 am-5:00 pm | Diplomate Lounge | <i>Sponsored by</i>  VCA Chesapeake AB |
| 7:00 am-4:00 pm | Publisher Tables | Convention Center Pre-function |
| 7:30 am-3:00 pm | Cyber Café | <i>Powered by</i>  VIN Convention Center Pre-function |
| 7:45 am-5:00 pm | \$ ✓ Childcare | Chesapeake 10/11 |
| 8:00 am-6:00 pm | Interactive Sessions | See page 60 |
| 8:00 am-4:50 pm | Technician Program | See page 60 |
| 1:00-2:00 pm | Friends of Dr. Bob and Bill W. Meeting | National Harbor 1 |
| 2:00-5:00 pm | ACVIM Board of Regents Meeting | Eastern Shore 2 |

OTHER ORGANIZATION MEETINGS & EVENTS

| Time | Event | Room |
|--------------|---|--------------------|
| 6:30-7:50 am | VIN Community Breakfast | Potomac 5/6 |
| 7:00-7:50 am | Christian Veterinary Mission Fellowship Breakfast | National Harbor 14 |

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Social Media • Media Outreach



SCIENTIFIC SESSIONS • MORNING SESSIONS

| | 8:00–8:50 am | 9:00–9:50 am | 10:00–10:50 am | 11:00–11:50 am |
|---|--|--|--|---|
| Business Management Chesapeake 5/6 | Growing Leaders in your Practice: What is a Leader? <i>W. Hauser</i>  | Growing Leaders in your Practice: How to Cultivate Leadership <i>W. Hauser</i>  | You're a Skilled Veterinarian...What's Next? <i>W. Hauser</i>  | What Motivates You? <i>W. Hauser</i>  |
| Cardiology Comprehensive Review/ Clinical Workshop Chesapeake DEF | Echocardiography vs. Radiography for the Diagnosis and Management of Heart Disease <i>D. Fine-Ferreira</i> | Point-of-care Thoracic Ultrasound in the Emergency Diagnosis of Congestive Heart Failure in Dogs and Cats <i>J. Ward</i> | Unusual Causes and Complicated Clinical Courses in Congestive Heart Failure Patients <i>R. Stepien, H. Kellihan</i> | Unusual Causes and Complicated Clinical Courses in Pulmonary Hypertension Patients <i>R. Stepien, H. Kellihan</i> |
| Equine Clinical Workshop National Harbor 12/13 | Case-based Discussion of the Science and Practice of Equine Neurology <i>R. Hepburn, M. Furr</i> | Panel Discussion on Diagnosis and Management of Equine Spinal Cord Disease <i>M. Furr, S. Reed, M. Aleman, C. Finno</i> | Advanced Equine Cardiology: Case Discussions <i>K. Mitchell, C. Schwarzwald</i> | Report of the Fourth Havemeyer Workshop on Infection Control in Equine Populations <i>B. Burgess, P. Morley</i> |
| AAVN/ACVN (Equine)/ Equine Post Graduate Course Chesapeake GHI | The Equine Microbiome in Adults and Foals <i>J. Weese</i> | Role of the Equine Microbiota in Health and Disease <i>J. Weese</i> | The Old Horse: Medical Management With a Focus on PPID and Insulin Dysregulation <i>H. Schott, E. Tadros</i>  | The Old Horse: Life Stage Nutrition to Maximize Health <i>P. Harris</i> |
| Food Animal (FAIM) Comprehensive Review Magnolia 1 |  Bovine Respiratory Coronavirus <i>S. Kapil</i> |  Mucosal Immune System: Concepts and Applications <i>S. Kapil</i> |  The Use of Acupuncture in Livestock <i>M. Heller</i> |  Diagnosis and Health Consequences of Subacute Ruminant Acidosis in Cattle <i>E. Garrett</i> |
| Food Animal (FAIM) Post Graduate Course Magnolia 3 | Impact of Antimicrobial Use on Resistance in Mannheimia Haemolytica <i>B. Credille</i> | Molecular Mechanisms of Resistance in Mannheimia Haemolytica <i>B. Credille</i> | Impact of Drug Selection and Dosing Regimens on GI Tract Concentrations and Antimicrobial Resistance <i>M. Papich</i> | Impact of Antimicrobial Drug Concentrations on Resistance in Fecal Bacteria <i>M. Jacob</i> |
| Neurology Research Reports National Harbor 6/7 | The Molecular Etiology of Hansen's Type I Disc Disease Provides a Framework for Disease Elimination <i>D. Bannasch</i> | Volumetric Modulated Arc Radiotherapy of Canine Trigeminal Nerve Tumors <i>M. Dolera</i> | Electrophysiologic Quantification of Motor Neuron Pool Excitability in Chronically Paralyzed Dogs and Association with Gait <i>M. Lewis</i> | The Effect of Post-Operative Rehabilitation on Recovery from Acute Thoracolumbar Intervertebral Disc Herniations <i>N. Olby</i> |
| | Cochlear Changes in Dogs with Hereditary Deafness <i>I. Gul Sancak</i> | Frameless Stereotactic Volumetric Modulated Arc Radiotherapy of Brachial Plexus Tumors in Dogs: 10 Cases <i>M. Dolera</i> | Diffusion Tensor Imaging Analysis of Severe Thoracolumbar Spinal Cord Injury in Chronically Paralyzed Dogs <i>M. Lewis</i> | |
| Oncology Comprehensive Review National Harbor 2/3 | Canine Non-hematopoietic Gastrointestinal Tumors <i>A. Frimberger</i> | Adrenal Tumors in Dogs: Update on Medical and Surgical Treatment <i>C. Souza</i> | The Node Knows: Importance of Lymph Node Status in Canine Mast Cell Tumors <i>E. Krick</i> | The Role of Radiation Therapy in the Management of Cardiac Tumors <i>S. LaRue</i> |

SCIENTIFIC SESSIONS • MORNING SESSIONS

| | 8:00–8:50 am | 9:00–9:50 am | 10:00–10:50 am | 11:00–11:50 am |
|--|---|---|--|---|
| Small Animal (SAIM) Comprehensive Review Maryland A | New Approaches to Diagnosis and Interpretation of Intestinal Dysbiosis <i>J. Suchodolski</i> | Standards Revised: Time for New Markers in Canine Hepatobiliary Diseases? <i>I. Burgener</i> | Unraveling the Role of Histamine Receptors H1, H2, H3, and H4 in the Canine Gastrointestinal Tract <i>A. Sullivant</i> | Inflammatory-bowel Disease Re-visited: The Role of the Eosinophil <i>R. Washabau</i> |
| Small Animal (SAIM) Comprehensive Review from Europe National Harbor 10/11 | Shedding Light on Canine Pituitary Dwarfism <i>A. Voorbij</i> | Feline Hypersomatotropism <i>C. Scudder</i> | | |
| Small Animal (SAIM) Clinical Workshop Maryland C | Selection, Delivery, and Monitoring of Transfusion in Cats and Dogs: Background Concepts <i>J. Walker, A. Lynch, J. Thomason</i> | | 10:00–11:25 am Selection, Delivery, and Monitoring of Transfusion in Cats and Dogs: Case Examples With Audience Interaction <i>J. Walker, A. Lynch, J. Thomason</i> | 11:25–11:50 am Selection, Delivery, and Monitoring of Transfusion in Cats and Dogs: Open Discussion and Wrap-Up <i>J. Walker, A. Lynch, J. Thomason</i> |
| Small Animal (SAIM) Post Graduate Course Potomac 1-4 |  Hyperadrenocorticism: Diagnosis and Management <i>J. Smith</i> |  Hyperadrenocorticism: Management with Urinary Disease <i>J. Bartges</i> |  Monitoring of Diabetic Patients: Could We Do Better? <i>M. Krecic</i> |  The Significance of Correct Classification of Diabetes Mellitus in Veterinary Medicine <i>C. Gilor</i> |
| |  Hyperadrenocorticism: Management with Diabetes Mellitus <i>C. Ward</i> |  Hyperadrenocorticism: Management with Pancreatitis and GI Disease <i>T. Hill</i> | | |
| Small Animal (SAIM) Research Reports Maryland 1-3 | Mutations Causing Feline Factor XII Deficiency in the United States <i>H. Maruyama</i> | Worldwide SNAP® 4Dx® and SNAP® 4Dx® Plus Clinic-Based Serologic Survey of Tick-Borne Diseases in Dogs <i>J. Buch</i> | Occurrence of Renal Azotemia and Associated Clinicopathological Findings in Canine Babesiosis <i>P. Defauw</i>  | Raw Food Diets Alter the Microbiome and Metabolome of Dogs Compared to Commercial <i>J. Suchodolski</i> |
| | Performance of Four In-clinic Tests for Giardia Antigen Compared With Direct Immunofluorescence Assay <i>D. Bowman</i> | Prevalence of Borrelia burgdorferi, Anaplasma spp., Ehrlichia spp. and Dirofilaria immitis in Canadian Dogs, 2007-2016 <i>M. Evason</i> | P16Ink4a-Mediated Cellular Senescence is Increased in Geriatric Cats and Cats With Chronic Kidney Disease <i>J. Quimby</i>  | Ciprofloxacin Population Pharmacokinetics in Dogs After Oral Administration <i>M. Papich</i> |
| SCE (SAIM) Maryland D | Endocrine Regulation of Appetite <i>A. Cook</i> | Endocrine Aspects of Obesity <i>T. Lutz</i> | Endocrine Causes of Hypertension in Cats <i>T. Williams</i> | Feline Hyperaldosteronism <i>H. Kooistra</i> |
| VECCS (SAIM) Maryland B 4-6 | Diagnosis and Management of Pulmonary Thromboembolism in Dogs <i>R. Goggs</i> | Heparin Monitoring in Critically Ill Dogs <i>R. Hanel</i> | NETs, Cell-free DNA and Biomarker Guided Therapy in Sepsis <i>R. Goggs</i> | Thromboelastography at the Point of Care in ICU: Research Update <i>R. Hanel</i> |

SCIENTIFIC SESSIONS • AFTERNOON SESSIONS

| | 1:00-1:50 pm | 2:00-2:50 pm | 3:00-3:50 pm | 4:00-4:50 pm |
|---|--|--|---|---|
| Cardiology Clinical Workshop Chesapeake GHI | Pathophysiology of Congestive Heart Failure: Beyond the Heart <i>Y. Martinez Pereira</i> | Syncope: A Review <i>F. Meyers</i> | Feeding for Two: Nutrition for the Cardiac Patient with Concurrent Diseases <i>L. Freeman</i> | |
| | | | Muscle Matters: Cardiac Cachexia in Dogs and Cats <i>L. Freeman</i> | |
| Equine Comprehensive Review/ Research Reports National Harbor 2/3 | Overreaching, Overtraining and Peripheral Fatigue <i>M. Vengust</i> | The Internist's Approach to Equine Dynamic Upper Airway Obstructions <i>E. Van Erck</i> | Latency in Equid Herpes Virus-10 Purpose-Infected Horses <i>L. Goehring</i> | |
| | | | Prevalence Factors Associated with EHV-2/5 Among Equines with Signs of Upper Respiratory Infection in US <i>W. Vaala</i> | |
| AAVN/ACVN (Equine)/ Equine Post Graduate Course Chesapeake 5/6 | Vascular Function, Insulin Dysregulation, and Endocrinopathic Laminitis <i>A. Wooldridge</i> | Adipokines and Equine Metabolic Function <i>A. Wooldridge</i> | Designing EMS Treatment Plans Based on Phenotype and Concurrent Disorders <i>E. Tadros</i> | Management Strategies for the EMS Horse <i>M. Shepherd</i> |
| Food Animal (FAIM) Clinical Workshop Potomac 1-4 |  Update on Diagnostic Approaches to Respiratory Disease in Cattle <i>A. Woolums, S. McGuirk, S. Buczinski</i> |  Diagnostic Approaches to Respiratory Disease in Cattle: What's the Future? <i>A. Woolums, S. McGuirk, S. Buczinski</i> |  The 5 Most Popular Scientific Papers in Bovine Medicine in 2016 <i>M. Chigerwe, M. Heller</i> |  The 5 Most Popular Scientific Papers in Caprine, Ovine and Porcine Medicine in 2016 <i>M. Chigerwe, M. Heller</i> |
| Neurology Comprehensive Review National Harbor 6/7 |  Comprehensive Epilepsy Management <i>H. Volk</i> |  Impact of New Radiation Therapy Technologies on the Management of Brain and Spinal Tumors <i>S. LaRue</i> |  Hyperbaric Oxygen Therapy and Its Use in Neurology and Neurosurgery: Physiology and Applications With Examples <i>A. Chauvet</i> |  Innervation of the Respiratory System and Neurogenic Causes For Breathing Problems in Our Patients <i>D. Hague</i> |
| Neurology Post Graduate Course Chesapeake DEF | Preparing For the Feline Neurologic Examination <i>A. Taylor, S. Kerwin</i> | Performing the Feline Neurologic Examination <i>A. Taylor, S. Kerwin</i> | Feline Neurologic Cases of Intracranial Disease: Reviewing the Classic and Puzzling Over Unusual Case Presentations <i>A. Taylor, S. Kerwin</i> | Feline Neurologic Cases of Spinal Cord Disease: Reviewing the Classic and Puzzling Over Unusual Case Presentations <i>A. Taylor, S. Kerwin</i> |
| Oncology Post Graduate Course Magnolia 3 | Medical, Surgical & Radiation Oncology: Practical Approach to Diagnosis & Management of Osteosarcoma in Dogs & Cats <i>P. Woods, S. Boston, M. Turek</i> | Medical, Surgical & Radiation Oncology: Approach to Diagnosis & Management of Feline Injection Site Sarcomas <i>P. Woods, S. Boston, M. Turek</i> | Medical, Surgical & Radiation Oncology: Approach to Diagnosis & Management of Transitional Cell Carcinomas <i>P. Woods, S. Boston, M. Turek</i> | Medical, Surgical & Radiation Oncology: Approach to Diagnosis & Management of Squamous Cell Carcinomas in Dogs & Cats <i>P. Woods, S. Boston, M. Turek</i> |
| One Medicine Magnolia 1 | Climate Changes, Vector Biology and Arthropode-borne Viruses: One Medicine In Action <i>S. Kapil</i> | Climate Change and One Health: What About Tuberculosis in Populations? <i>D. Lawler</i> | Real Time One Medicine Experience: Emerging Novel Viruses <i>S. Kapil</i> | Pathobiome of Blood and Complex Disease Expression <i>E. Breitschwerdt</i> |

SCIENTIFIC SESSIONS • AFTERNOON SESSIONS

| | 1:00-1:50 pm | 2:00-2:50 pm | 3:00-3:50 pm | 4:00-4:50 pm |
|---|--|---|---|---|
| Small Animal (SAIM) Comprehensive Review Maryland A | The Somogyi Effect: Is it Clinically Significant? <i>C. Gilor, L. Fleeman</i> | A Novel HbA1c Assay for the Monitoring of Canine Diabetes <i>I. Ramsey</i> | Monitoring Canine Cushing's Disease Without ACTH <i>I. Ramsey</i>  | Canine Copper Associated Hepatopathy: Where Are We Now? <i>S. Center</i> |
| Small Animal (SAIM) Post Graduate Course Maryland B 4-6 | How Pain and Stress Impact the Hospitalized Patient <i>J. Slovak, T. Grubb, S. Bennett</i> | Diagnosing and Managing the Painful Medical Patient <i>J. Slovak, T. Grubb</i> | Pharmacology for Non-pharmacologists <i>C. Fellman</i> | The Role of Culture and Susceptibility Data in Minimizing Antimicrobial Resistance <i>D. Boothe</i> |
| Small Animal (SAIM) Clinical Workshop National Harbor 12/13 | Gallbladder Halo Sign: Update on the Diagnosis and Complications in Canine Anaphylaxis <i>G. Lisciandro</i> | AFAST, TFAST and Vet BLUE Point-of-care Ultrasound for Traditionally Difficult Conditions <i>G. Lisciandro</i> | Use of Vet BLUE Proactive Lung Ultrasound in Feline Respiratory Distress <i>G. Lisciandro</i> | The Use of Global FAST: AFAST, TFAST and Vet BLUE for Patient Monitoring <i>G. Lisciandro</i> |
| Small Animal (SAIM) Research Reports Maryland 1-3 | Selective Osmotic Shock for Canine Pancreatic Islet Isolation <i>C. Adin</i> | Assessment of Transdermal (Lipoderm) Mirtazapine as an Appetite Stimulant in Cats with Chronic Kidney Disease <i>J. Quimby</i> | | |
| | Novel Medical Approach to Canine Hyperadrenocorticism <i>S. Galac</i> | Relationship Between Fibroblast Growth Factor-23 and Survival in Dogs with Chronic Kidney Disease <i>A. Rudinsky</i> | | |
| ACVCP/AAVPT (SAIM) Maryland D | Population Pharmacokinetics and Antiepileptics in Dogs and Cats <i>D. Boothe</i> | Medical Cannabinoids: Prophecy or Prayer? <i>D. Boothe</i> | Clinical Consequences of Pharmacokinetic Variability <i>R. Gehring</i> | Planning a Pharmacokinetic Study Without Elementary Mistakes <i>T. Whitem</i> |
| AVHTM (SAIM) Maryland C | Novel Oral Anticoagulants: Human Medicine Perspective <i>S. Moll</i> | Novel Oral Anticoagulants: Veterinary Medicine Perspective <i>A. deLaforcade</i> | Year in Review: Transfusion Medicine <i>M. Holowaychuk</i> | Controversies in Veterinary Blood Banking <i>S. Musulin</i> |
| EBVMA (SAIM) National Harbor 10/11 | Overdiagnosis: Don't Just Do Something, Stand There! <i>B. McKenzie</i> | Why Use Scientific Literature to Answer Clinical Questions? <i>B. Larson</i> | Reporting Quality and Risk of Bias in Veterinary Clinical Trials <i>B. McKenzie</i> | From Evidence-based Practice to Practice-based Evidence: The Electronic Health Record as a Platform for Clinical Decision Support <i>S. Turner</i> |

TECHNICIAN PROGRAM

WW = Woodrow Wilson

| Time | Track | Session Title • Speaker | Room |
|----------------|------------|---|-------|
| 8:00–8:50 am | Cardiology | Anti-arrhythmic Drugs Vs. Electrical Cardioversion For the Treatment of Tachyarrhythmias in the Canine and Feline • <i>A. Myers</i> | WW B |
| 8:00–8:50 am | Neurology | Neurology Technician's Role in Management of Patients With Intracranial Trauma • <i>K. Inzana</i> | WW CD |
| 9:00–9:50 am | Cardiology | Assessing the Emergent Heart Failure Patient • <i>S. Tou</i> | WW B |
| 9:00–9:50 am | Neurology | How to Perform a Neurological Exam • <i>M. Sroufe</i> | WW CD |
| 10:00–10:50 am | Cardiology | Cardiac Effects of Systemic Disease: Structural, Functional, Electrical Heart Changes of Noncardiac Origin • <i>J. Ward</i> | WW B |
| 10:00–10:50 am | Neurology | Spinal Cord Localization and Disease • <i>M. Sroufe</i> | WW CD |
| 11:00–11:50 am | Cardiology | Recent Trends in Diagnosis and Treatment of Congestive Heart Failure in Dogs and Cats • <i>J. Ward</i> | WW B |
| 11:00–11:50 am | Neurology | Pain Management Options for Dogs and Cats • <i>A. Partnow</i> | WW CD |
| 1:00–1:50 pm | Oncology | Chemotherapy Safety Jeopardy! • <i>J. Impellizeri</i> | WW B |
| 1:00–1:50 pm | SAIM | Semi-elemental Nutrition for Internal Medicine Patients • <i>K. Burns</i> | WW CD |
| 2:00–2:50 pm | Oncology | Flexible GI Endoscopy • <i>L. Rudolph</i> | WW B |
| 2:00–2:50 pm | SAIM | Parathyroid Disease • <i>T. Nowers</i> | WW CD |
| 3:00–3:50 pm | Oncology | License to Pill: What You Need to Know to Keep Your Job and Your Cancer Patients Safe • <i>C. Henry</i> | WW B |
| 3:00–3:50 pm | SAIM | Understanding Diabetic Remission in the Cat • <i>L. Van Vertloo</i> | WW CD |
| 4:00–4:50 pm | Oncology | The Long Goodbye: Hospice and Palliative Care in the Veterinary Hospital • <i>L. Hughston</i> | WW B |
| 4:00–4:50 pm | SAIM | Stenting for the VT: Procedures, Equipment & Techniques • <i>M. Hall</i> | WW CD |

INTERACTIVE SESSIONS

| Time | Track/ Session Type | Session Title • Speaker | Room |
|------------------|------------------------|---|-------------------|
| 8:00 am–12:00 pm | SAIM/Workshop | <p>💰 ✓ (IS118) Focus on Gastroenterology: Advanced Imaging and Interventions • <i>J. Lidbury, J. Pomrantz</i></p> <p style="text-align: right;">Sponsored by</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> | National Harbor 8 |
| 12:00–2:00 pm | Equine/SIG | <p>💰 ✓ (IS120) Equine Internal Medicine Specialists in Private Practice Luncheon • <i>A. Polkes, C. Clark</i></p> <p style="text-align: right;">Sponsored by</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> | Potomac D |

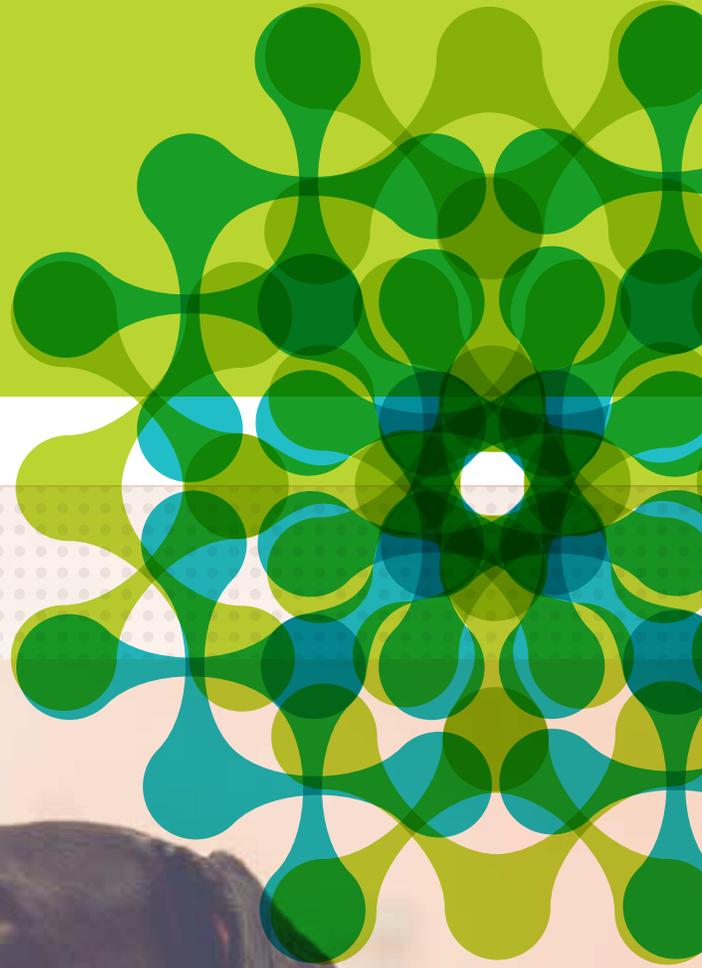
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| Equine | | |
|--------|---|---------------------------|
| E02 | Effect of Flecainide on Atrial Fibrillatory Rate in Horses with Induced Atrial Fibrillation | <i>E. Hesselkilde</i> |
| E03 | Reduced Exercise Capacity in Horses Due to Atrial Fibrillation | <i>R. Buhl</i> |
| E04 | Antiarrhythmic Effects of Flecainide on Experimentally Induced Atrial Fibrillation of Different Duration in Horses | <i>E. Hesselkilde</i> |
| E05 | Beat-to-Beat Heart Rate Variability During Ridden Exercise in Healthy Horses | <i>P. Egli</i> |
| E09 | Equine Breed Histologic Differences in Adipocytes and Muscle Related to Insulin Dynamics and Body Fat | <i>J. Manfredi</i> |
| E35 | ◆ Prevalence of Cardiac Arrhythmias in Competition Draft Horses | <i>L. Gallant</i> |
| E36 | Beat-to-Beat Heart Rate Variability During Treadmill Exercise in Healthy Horses and Horses with Cardiac Disease | <i>L. Frick</i> |
| E37 | Simpson's Method of Discs in Argentina-Chair Horse: Echocardiographic Reference-Intervals for End-Diastolic and End-Systolic Left-Ventricle Volumes | <i>J. Munoz-Pérez</i> |
| E38 | Equine Pituitary Pars Intermedia Dysfunction in the Southern Hemisphere, What is Different? | <i>F. Bertin</i> |
| E39 | Hair Cortisol Concentration as a Stress Biomarker in Horses | <i>M. Duran Graeff</i> |
| E40 | The Association Between Endocrine Disrupting Chemicals and Equine Metabolic Syndrome | <i>S. Durward-Akhurst</i> |
| E41 | Clinical Signs Associated with PPID in the Equine Athlete | <i>J. Kremburg</i> |
| E42 | Assessment of Prolactin Concentration as a Screening Test for PPID | <i>H. Schott, II</i> |
| E43 | Adrenocorticotrophic Hormone Levels in Equine Plasma After Centrifugation at Multiple Time-Points From Collection | <i>K. Shepard</i> |
| E44 | Effects of Dexamethasone on Circulating ACTH and Cortisol Concentrations in Healthy and PPID-Affected Horses | <i>D. Whelchel</i> |
| E45 | Evaluation of Dexamethasone to Prevent Post-Operative Ileus in 61 Horses with and without Intestinal Resection | <i>K. McGovern</i> |
| E46 | Acid-base Disorders in Diarrheic Calves and Horses: Comparison Between the Traditional and Physicochemical Approaches | <i>C. Faso</i> |
| E47 | Radiographic Evaluation of Compounded and Illegal Over-the-Counter Omeprazole Products | <i>M. Wallace</i> |
| E48 | ◆ Effects of TLR Agonist and Clarithromycin on Growth of <i>Rhodococcus equi</i> in Adult Equine Macrophages | <i>T. Likavec</i> |
| E49 | Outcome of a Novel Vertebral Interbody Fusion Technique in Horses with Cervical Vertebral Compressive Myelopathy | <i>Y. Nout-Lomas</i> |
| E50 | Accuracy of Two Patient Registration Techniques for Neuronavigation-Guided Brain Biopsy in the Horse | <i>L. Santistevan</i> |
| E51 | Causes of Fatalities During FEI Three-Day Eventing | <i>I. Comyn</i> |
| E52 | Effects of Endothelial Colony Forming Cell / PEG-Fibrinogen Scaffolds on Wound Healing in Horses | <i>R. Winter</i> |
| E53 | Measured and Calculated Parameters of Global Oxygenation in Healthy Foals | <i>D. Wong</i> |
| E54 | A Randomized, Blinded, Controlled Crossover Study of Dipyrone to Control Fever in Horses | <i>R. Avenatti</i> |
| E55 | A Controlled Study of the Clinical Safety of an Oral Formulation of Dipyrone in Horses | <i>E. Sundman</i> |
| E56 | In Vitro Effects of Tamoxifen on Equine Neutrophil Respiratory Burst and Phosphatidylserine Expression | <i>C. Olave</i> |
| E57 | ◆ Effects of Magnesium Sulfate Infusion on Lung Function and Clinical Scores in Severe Asthmatic Horses | <i>L. Tanquerel</i> |

◆ Indicates ACVIM Resident Research Award Eligibility

▲ Indicates Early Career Clinical Oncology Research Abstract Award Eligibility

| Food Animal (FAIM) | | |
|--------------------|---|----------------------------|
| F06 | ◆ Persistence of Coagulase Negative Staphylococcal Intramammary Infection in Dairy Goats | <i>V. Bernier Gosselin</i> |
| F07 | ◆ Use of a Minimally Invasive Tube Cystostomy for the Management of Obstructive Urolithiasis in Goats | <i>L. Wagner</i> |
| F13 | Cross-Sectional Study of Teat and Inguinal Skin Colonization of Dairy Heifers with Various Staphylococcal Species | <i>P. Adkins</i> |
| F14 | Quantifying Stress in Primiparous and Multiparous Dairy Cattle Around Parturition | <i>A. Megahed</i> |
| F15 | Is Plasma L-lactate a Reliable Predictor of Non-Survival in Critically Ill Neonatal Calves? | <i>F. Trefz</i> |

| Cardiology (SAIM) | | |
|-------------------|--|-----------------------|
| C15 | ◆ Normal Echocardiographic Parameters in Clinically Healthy Adult Captive Tigers with and without Medetomidine Sedation | <i>K. Rodriguez</i> |
| C16 | Evaluating Clopidogrel Effect in Cats Using Plateletworks (Arachidonic Acid) and Platelet Function Analyzer 200 (P2Y) | <i>A. Abrams-Ogg</i> |
| C17 | Postoperative Changes in Aortic Characteristics Affect the Low Fractional Shortening in Canine Patent Ductus Arteriosus | <i>T. Aoki</i> |
| C18 | Congestive Heart Failure Associated with DOCP Therapy in 12 Dogs with Hypoadrenocorticism | <i>C. Bourguignon</i> |
| C19 | An Impaired Oculocardiac Reflex Identifies the Autonomic Imbalance in Dogs with Symptomatic Mitral Valve Disease | <i>B. Brüler</i> |
| C20 | Instability of the QT Interval in Dogs with Myxomatous Mitral Valve Disease | <i>B. Brüler</i> |
| C21 | Cardiovascular Changes in Brachycephalic Dogs | <i>M. Sousa</i> |
| C22 | Dobutamine Stress Test in Dogs with Degenerative Mitral Valve Disease | <i>M. Sousa</i> |
| C23 | Speckle Tracking in Dogs with Myxomatous Mitral Valve Disease Submitted to Pharmacological Stress Test | <i>M. Sousa</i> |
| C24 | Cardiovascular Echocardiography Aspects During Pregnancy in Female Dogs | <i>M. Sousa</i> |
| C25 | TAPSEidx Echocardiographic Evaluation in Dogs with Pulmonary Hypertension Pre-Capillary and Post-Capillary | <i>M. Sousa</i> |
| C26 | Pre Clinical Results of LASSBIO294: An Inodilator Compound | <i>R. Carvalho</i> |
| C27 | Clinical and Echocardiographic Features, and Survival of French Bulldogs with Pulmonic Stenosis (66 Cases: 2005-2016) | <i>C. Damoiseaux</i> |
| C28 | ◆ Comparative Multidimensional Imaging of Patent Ductus Arteriosus in Dogs | <i>K. Doocy</i> |
| C29 | Changes In Neurohumoral Factors in 9 Dogs That Received Carperitide and Presented with Pulmonary Edema | <i>M. Enokizono</i> |
| C30 | Myocardial Remodeling in Canine Dilated Cardiomyopathy | <i>S. Fonfara</i> |
| C31 | Retrospective Evaluation of Effect of Heart Rate on Survival in Dogs with AF | <i>A. Gelzer</i> |
| C32 | Left Atrial Volume Can Detect Congestive Heart Failure in Dogs with Chronic Mitral Valve Disease | <i>A. Gimenes</i> |
| C33 | Serum Levels of ST2 Soluble Fraction in Clinically Healthy Dogs | <i>A. Gimenes</i> |
| C34 | Soluble ST2 Biomarker in Heart Failure Secondary to Chronic Mitral Valve Disease in Dogs | <i>A. Gimenes</i> |
| C35 | Prevalence of Heart Disease in Dogs at a Teaching Hospital: A Retrospective Populational Study | <i>G. Goldfeder</i> |
| C36 | Assessment of Left Atrial Function by Speckle-Tracking Echocardiography in Dogs with Myxomatous Mitral Valvular Disease | <i>S. Han</i> |
| C37 | Acute Echocardiographic Effects of Sotalol on Ventricular Function and Ectopy in Dogs with Ventricular Tachyarrhythmias | <i>J. Kaplan</i> |
| C38 | Speckling-Tracking Echocardiographic Alterations in Dogs with Chronic Mitral Valvular Disease and Concurrent Renal Disorders | <i>Y. Kim</i> |

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Cardiology (SAIM) (continued)

| | | |
|-----|---|---------------------------|
| C39 | Comparative Evaluation of Dogs with Chronic Mitral Valve Regurgitation Treated with Amlodipine or Pimobendan | <i>M. Larsson</i> |
| C40 | Systolic Blood Pressure Obtained by Doppler Method in Dogs: Comparison Between Anatomical Positions and Evaluators | <i>M. Larsson</i> |
| C41 | Effects of Anti-Inflammatory Glucocorticoids on Hemodynamics and Cardiac Function in Clinically Healthy Dogs | <i>A. Masters</i> |
| C42 | Effect of Ultrafiltration during Cardiopulmonary Bypass in Dogs Undergoing Mitral Valve Plasty | <i>K. Matsuura</i> |
| C43 | Right Ventricular Dysfunction and Dyssynchrony Assessed by Echocardiography in Dogs with Pre-Capillary Pulmonary Hypertension | <i>T. Morita</i> |
| C44 | Short-term Results of Quality-of-Life and Right-Ventricle Function after Palatoplasty and Rhinoplasty in Brachycephalic Dogs | <i>J. Munoz-Pérez</i> |
| C45 | Prognostic Factors in Cats with Restrictive Cardiomyopathy: A Retrospective Study of 92 Cases (2001-2015) | <i>P. Passavin</i> |
| C46 | Interindividual Variability in Clopidogrel Active Metabolite Concentrations in Feline Plasma | <i>M. Reinelt</i> |
| C47 | Biological Variation Of Galectin-3 In Clinically Healthy Dogs | <i>D. Schwartz</i> |
| C48 | Galectin-3 as Biomarker in Heart Failure Secondary to Chronic Mitral Valve Degeneration in Dogs | <i>D. Schwartz</i> |
| C49 | Assessment of Longitudinal Systolic Function Using Tissue Motion Annular Displacement in Healthy Dogs | <i>M. Sousa</i> |
| C50 | Coupling Interval and Prematurity Index in Dogs with Mitral Valve Disease and Ventricular Arrhythmias | <i>M. Sousa</i> |
| C51 | Computed Tomographic Angiography and 3D Printing of Aberrant Coronary Arteries in Dogs with Pulmonic Stenosis | <i>S. Stieger-Vanegas</i> |
| C52 | Radial Strain and Strain Rate Assessed by Speckle-Tracking Echocardiography in Turkish Kangal Dogs | <i>O. Terzi</i> |
| C53 | CT-Based Anatomical Features of Large Airway and Heart Volume in Dogs with Different Body Size | <i>T. Uehara</i> |
| C54 | Long-term Outcome of Irish Wolfhound Dogs With Preclinical Cardiomyopathy Treated With Pimobendan, Methyldigoxin, or Benazepril | <i>A. Vollmar</i> |
| C55 | Evaluation of Lung Ultrasound for the Diagnosis of Congestive Heart Failure in Dogs with Cough | <i>J. Ward</i> |

Neurology (SAIM)

| | | |
|-----|---|--------------------|
| N07 | GM2 Gangliosidosis in Shiba Inu Dogs with an In-Frame HEXB Deletion and Autofluorescent Storage Granules | <i>N. Villani</i> |
| N12 | ◆ Non-Surgical Treatment of Intracranial Empyema and Abscesses in 5 Dogs | <i>M. Tensley</i> |
| N13 | Cytarabine Constant Rate Infusion as Treatment for Meningoencephalomyelitis of Unknown Etiology in 22 Dogs | <i>R. Arnold</i> |
| N14 | Hereditary Myotonia in Pigs Associated with Chloride Voltage-Gated Channel 1 Gene Partial Deletion | <i>A. Borges</i> |
| N15 | Population Pharmacokinetics of Extended-Release Levetiracetam in Epileptic Dogs When Administered Alone, with Phenobarbital or Zonisamide | <i>K. Munana</i> |
| N16 | Steroid-Responsive Myelitis in Five Dogs: Different Characteristics in Comparison with Steroid-Responsive Meningitis-Arteritis | <i>S. Park</i> |
| N17 | The Pharmacokinetics of Cytarabine Administered Subcutaneously to Dogs with Meningoencephalomyelitis of Unknown Etiology | <i>B. Pastina</i> |
| N18 | Cavernous Sinus Syndrome in Dogs and Cats: 15 Cases (2002-2015) | <i>H. Rylander</i> |
| N19 | Effects of Chloride in the Diet on Serum Bromide Concentrations in Dogs | <i>G. Togawa</i> |

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| Oncology (SAIM) | | |
|-----------------|---|---------------------|
| O09 | Dysregulation of Healthy Osteoblasts by Canine Osteosarcoma Exosomes | <i>A. Schlueter</i> |
| O10 | Quantification and Prognostic Significance of PD-L1 Expression in Canine Diffuse Large B-cell Lymphoma (<i>VCS Award Winner</i>) | <i>L. Ambrosius</i> |
| O11 | In vitro Inhibition of Monocarboxylate Transporters Display Synergistic Activity with Doxorubicin or Metformin in Canine Osteosarcoma (<i>VCS Award Winner</i>) | <i>H. Gardner</i> |
| O12 | ◆ ▲ Expression of PDGFR-, VEGFR2, and KIT in Canine Transitional Cell Carcinoma | <i>L. Walters</i> |
| O13 | ▲ Clinical Survey of Veterinary Specialists Evaluating Management of Chemotherapy Induced Vomiting and Inappetence in Dogs | <i>N. Punt</i> |
| O14 | Immunohistochemical Expression of P-Glycoprotein in Dogs with Epitheliotropic and Nonepitheliotropic Cutaneous Lymphoma | <i>S. Lucas</i> |
| O15 | Cell Proliferation Markers Ki-67 and Mitotic Index in Cats with Intestinal Lymphoma | <i>V. Winkel</i> |

| Small Animal (SAIM) - Endocrinology | | |
|-------------------------------------|--|------------------------|
| EN15 | Increased Adipocyte Size and Leukocyte Infiltration in Adipose Tissue of Obese Dogs | <i>C. Cavalcante</i> |
| EN16 | Lipid Peroxidation in Obese Dogs Before and After the Weight Loss Program | <i>C. Cavalcante</i> |
| EN17 | Evaluation of Corticotropin (Acthelea) Effect in the ACTH Stimulation Test in Dogs with Hyperadrenocorticism | <i>P. Furtado</i> |
| EN18 | Evaluation of Triglycerides, Cholesterol and Glucose in Dogs with Mastocytoma Submitted to Surgery and Chemotherapy | <i>E. Januário</i> |
| EN19 | Retrospective Incidence of Hyperthyroidism in Domestic Cats at a Veterinary Hospital of São Paulo, Brazil | <i>M. Jericó</i> |
| EN20 | Alterations in the Hormones Regulating Blood Glucose Concentrations in Healthy Dogs Undergoing Hydrocortisone Administration | <i>H. Kim</i> |
| EN21 | Persistent Hypertonicity in Diabetic Dogs | <i>T. Schermerhorn</i> |
| EN22 | Serum 25-Hydroxyvitamin D Concentrations in Dogs with Acute Pancreatitis | <i>P. Son</i> |
| EN23 | Clinical Relationship Between Cholestatic Disease and Pituitary-Dependent Hyperadrenocorticism in Dogs: A Retrospective Analysis | <i>W. Song</i> |
| EN24 | Usefulness of Thyrotropin Stimulation Test in Dogs with Hypothyroidism, Non-thyroidal Illness, or Receiving Hydrocortisone | <i>C. Sung</i> |
| EN25 | Effect of Freezing on Biological Activity of Depot Tetracosactide in Healthy Dogs | <i>A. Vieira</i> |
| EN26 | Evaluation of the Clinical Accuracy of 6 Portable Blood Glucose Meters in Dogs | <i>J. Yun</i> |

| Small Animal (SAIM) - Gastroenterology | | |
|--|--|----------------------|
| GI12 | Evaluation of Hydromorphone and Dexmedetomidine for Emesis Induction in Cats | <i>M. Nystrom</i> |
| GI23 | ◆ Pilot Evaluation of the Effect of Omeprazole on the Feline Fecal Microbiome and Metabolome | <i>S. Schmid</i> |
| GI24 | Serum Biomarkers of Oxidative Stress as a Marker of Inflammatory Bowel Disease in Dogs | <i>K. Allenspach</i> |
| GI25 | Analytical Validation of an Enzymatic Assay for Measurement of Fecal D- and L-Lactate in Dogs | <i>A. Blake</i> |
| GI26 | Dogs with Exocrine Pancreatic Insufficiency have Dysbiosis and Abnormal Fecal Lactate and Bile Acid Concentrations | <i>A. Blake</i> |
| GI27 | Analytical Validation of a Radioimmunoassay for the Measurement of Soluble CD25 Concentrations in Canine Serum | <i>A. Buono</i> |

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Small Animal (SAIM) – Gastroenterology *(continued)*

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| GI28 | Fecal Microbial Transplantation Decreases the Dysbiosis Index in Dogs Presenting with Chronic Diarrhea | <i>J. Chaitman</i> |
| GI29 | Fecal Short Chain Fatty Acid Collection, Storage and Variability in Healthy Dogs | <i>A. Duchaussoy</i> |
| GI30 | Immunohistochemical Distribution of TGR5 Bile Acid Receptors in the Gastrointestinal Tract of Dogs | <i>P. Giaretta</i> |
| GI31 | Immunolocalization of TGR5 Bile Acid Receptors in the Colon of Dogs with Chronic Enteropathy | <i>P. Giaretta</i> |
| GI32 | Enteropathogenic Escherichia coli Is Associated with Diarrheal Mortality and Intestinal Inflammation in Foster-Age Kittens | <i>V. Watson</i> |
| GI33 | Development and Analytical Validation of an Assay for the Quantification of Canine Fecal Bile Acids | <i>B. Guard</i> |
| GI34 | Longitudinal Characterization of the Fecal Metabolome in Dogs with Inflammatory Bowel Disease | <i>B. Guard</i> |
| GI35 | Longitudinal Assessment of Fecal Sterol and Fatty Acid Concentrations in Dogs with Diarrheal Diseases | <i>J. Honneffer</i> |
| GI36 | Validation of an Assay for Quantification of Sterol and Fatty Acid Concentrations in Dog Feces | <i>J. Honneffer</i> |
| GI37 | Longitudinal Assessment of Fecal Dysbiosis in Dogs with Acute and Chronic Diarrhea | <i>H. Klein</i> |
| GI38 | Fecal Microbiota and Body Condition in Growing Beagle Dogs Fed Unrestrictedly for 3.5h Daily | <i>L. Leclerc</i> |
| GI39 | Evaluation of the Fecal Microbiota in Cats with Chronic Enteropathy Before and After Treatment | <i>S. Marsilio</i> |
| GI40 | Platelet Indices as Markers of Disease Presence and Severity in Dogs with Inflammatory Bowel Disease | <i>S. Mehain</i> |
| GI41 | Comparison of Serum Lipoprotein Profiles Between Cats with Hepatic Lipidosis and Healthy Control Cats | <i>T. Minamoto</i> |
| GI42 | Ileal and Colonic Mucosal Microbiota in Dogs with Steroid Responsive Chronic Enteropathy | <i>Y. Minamoto</i> |
| GI43 | Effects of Prednisolone Administration on Pancreatic Tissue and Pancreatic Lipase Immunoreactivity Concentration in Healthy Dogs | <i>H. Ohta</i> |
| GI44 | Corticosteroid Therapy as Initial Treatment for Dogs with Acute Pancreatitis: 65 Cases (2011-2016) | <i>H. Okanishi</i> |
| GI45 | Fecal Composition in Dogs with Naturally Occurring Exocrine Pancreatic Insufficiency | <i>J. Parambeth</i> |
| GI46 | Genome-Wide Association Study in German Shepherd Dogs with IBD Reveals Possible Role of TH2 Cytokines | <i>A. Peiravan</i> |
| GI47 | Capsule Endoscopy Findings in Dogs with Hypoalbuminemia | <i>J. Pomrantz</i> |
| GI48 | Canine Adipose Tissue-derived Mesenchymal Stem Cells Reduce Severe Acute Pancreatitis by Regulating T cells | <i>W. Song</i> |
| GI49 | Likelihood and Outcome of Esophageal Perforation Associated with an Esophageal Foreign Body in Dogs | <i>A. Serman</i> |
| GI50 | The Effect of Prolonged Ambient Temperature Exposure on the Feline Fecal Microbiota | <i>M. Tal Gavriel</i> |
| GI51 | Effects of Donor Sex and Pre-Conditioning on Cytokine Production of Canine Adipose-Derived Mesenchymal Stem Cells | <i>T. Webb</i> |
| GI52 | Effects of Provable-DC® on Clinical Signs, Fecal Microbiomes, and Metabolomic Profiles in Cats Receiving Clindamycin | <i>J. Whittemore</i> |
| GI53 | Effects of Staggered Provable-DC® Administration on Fecal Microbiome and Metabolomic Profiles of Cats receiving Clindamycin | <i>J. Whittemore</i> |

Small Animal (SAIM) – Hematology

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| HM13 | ◆ Antiplatelet Effects of Generic Clopidogrel Compared to Trade Name Clopidogrel (Plavix®) in Cats | <i>M. Malkawi</i> |
| HM14 | In Vivo Effects of 7.5% Hypertonic Saline Solution on Canine Whole Blood Coagulation Using Thromboelastography | <i>S. Baek</i> |
| HM15 | In Vitro Inhibition and Detection of Canine Complement Activation in Canine Immune-Mediated Hemolytic Anemia | <i>D. Hernandez Muguira</i> |
| HM16 | Novel Thrombogenicity Examination of Whole Blood: Total Thrombus-Formation Analysis System in Dogs | <i>T. Iwanaga</i> |

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Small Animal (SAIM) - Hematology *(continued)*

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| HM17 | Vaccination Behavior and Adverse Events in Dogs Treated for Primary Immune-Mediated Hemolytic Anemia | A. Moon |
| HM18 | Evaluation of Thromboelastography in Dogs with Heartworm Infection | S. Park |
| HM19 | Characteristics of Hemostasis During Experimental Ehrlichia Canis Infection in Laboratory Beagles | S. Shropshire |
| HM20 | Whole Blood Impedance Platelet Aggregometry in Healthy Greyhounds Compared to Healthy Beagles | S. Shropshire |
| HM21 | Thawing Times and Hemostatic Proteins in Canine Fresh Frozen Plasma Using a Commercial Thawing Device | L. Torkildsen |
| HM22 | Clinical Evaluation of the QuickVet/RapidVet Feline Blood Typing Test | C. Weingart |
| HM23 | Characterization of Thrombocytosis in 715 Dogs (2011-2015) | A. Woolcock |

Small Animal (SAIM) - Hepatology

| | | |
|------|---|--------------|
| HP09 | ◆ Bleeding Risk Assessment for Percutaneous Ultrasound Guided Hepatic Biopsy in Dogs and Cats | M. Pavlick |
| HP10 | High-Throughput RNA Sequencing and Differential Gene Expression Analysis in Dogs with Chronic Hepatitis | V. Eulenberg |

Small Animal (SAIM) - Immunology

| | | |
|------|--|------------|
| IM05 | Activation of Innate Immune Responses in Cat Leukocytes by a Liposomal TLR Ligand Immune Stimulant | S. Dow |
| IM06 | Validation of an Electrochemiluminescent Immunoassay for Measurement of Tumor Necrosis Factor-Alpha in Cat Serum | J. Lidbury |
| IM07 | A Flow Cytometric Study of CD4+CD25+FoxP3+ Regulatory T cells Changes in Canine Atopic Dermatitis | C. Park |
| IM08 | 12/15 Lipoxygenase Deficiency Enhances the Development of Pneumonic Tularemia | C. Pratt |
| IM09 | Feline Adipose Tissue-Derived Mesenchymal Stem Cells Reduce Inflammation by Secreting Soluble Factors | W. Song |
| IM10 | Presence of Naturally Occurring Circulating Anti- AAV8 and AAV9 Antibodies in Pet Dogs and Cats | A. Specht |
| IM11 | Serum from Some Pet Dogs and Cats Neutralizes AAV8 and AAV9 Mediated Gene Transduction | A. Specht |

Small Animal (SAIM) - Infectious Disease

| | | |
|------|--|--------------|
| ID03 | Immune Complex Dissociation Methods for Detecting Heartworm Antigen and Their Utility in Assessing Patient Samples | R. Alleman |
| ID05 | Effects of a Liposome-TLR Mucosal Immune Stimulant on Kittens Infected with Feline Herpesvirus 1 | E. Contreras |
| ID06 | Cell Block Cytology Applied to Sporotrichosis Diagnosis | F. Gonsales |
| ID07 | A Rapid In-Clinic Test Detects IgM Antibodies to Four Different Leptospira Serovars | J. Lizer |
| ID11 | ◆ Prevalence of Anaplasma phagocytophilum Infection in Feral Cats in Massachusetts | E. Galemore |
| ID12 | ◆ Opportunistic Fungal Infections Associated with Cyclosporine Use in Dogs with Immune-Mediated Diseases | B. McAtee |
| ID13 | Staging Feline Leukemia Virus Infections Using Quantitative p27 ELISA and Real-Time PCR Results | M. Beall |
| ID14 | Worldwide Clinic-Based Serologic Survey of FIV Antibody and FeLV Antigen in Cats | J. Buch |
| ID15 | Evaluation of a Rapid Immunoassay for Point-of-Care Detection of Bacteria in Cat Urine | J. Byron |
| ID16 | Enterococcus faecium Inhibits Feline T. foetus Growth and Adhesion to Intestinal Epithelial Cells | R. Dickson |
| ID17 | A Molecular Epidemiological Survey of Gammaherpesviruses in Domestic Cats in Japan | Y. Endo |

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Small Animal (SAIM) – Infectious Disease *(continued)*

| | | |
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| ID18 | Minimal Inhibitory Concentrations of Antimicrobials Against Escherichia coli Isolated from Companion Animal Urinary Tract Infections | <i>L. Johansen</i> |
| ID19 | Effect of Doxycycline Administration on Antibodies Against Different Borrelia burgdorferi Peptides | <i>M. Lappin</i> |
| ID20 | Performance of a Leishmanin Skin Test for the Diagnosis of Feline Leishmaniosis | <i>M. Marcondes</i> |
| ID21 | Evaluation of Dried Blood on Filter Paper for Amplification of Ehrlichia canis DNA from Dogs | <i>Y. Ozekin</i> |
| ID22 | Serological Response to a Hypothetical Surface Protein of Mycoplasma haemofelis in Cats | <i>R. Palaniappan</i> |
| ID23 | Clinical and Laboratory Findings in 30 Dogs Naturally Infected with Ehrlichia ewingii | <i>B. Qurollo</i> |

Small Animal (SAIM) – Nephrology/Urology

| | | |
|------|--|----------------------|
| NU05 | Correlation Between Canine Urine Cortisol-Creatinine and Protein-Creatinine Ratios Collected at Home and in Hospital | <i>L. Citron</i> |
| NU13 | ◆ Feline Serum Cytokines and Renal Alpha-Enolase Immunohistochemical Staining After Repeated Administration of a FVRCP Vaccine | <i>S. Summers</i> |
| NU14 | Tamm-Horsfall Protein in Dogs with Natural Occurring Chronic Kidney Disease: A Marker of Progression? | <i>F. Chacar</i> |
| NU15 | Light and Electron Microscopic Analysis of Kidneys from Dogs Infected with Angiostrongylus vasorum | <i>B. Gerber</i> |
| NU16 | Effect of Weight Gain in Dogs on Renal Function and Perfusion Assessed by Contrast-Enhanced Ultrasound | <i>D. Liu</i> |
| NU17 | Evaluation of FGF-23 and Urinary Fractional Excretion of Phosphorus Ratio in Chronic Kidney Disease Dogs | <i>C. Martorelli</i> |
| NU18 | Alpha-Enolase Staining Patterns in the Renal Tissues of Cats with and without Chronic Kidney Disease | <i>S. McLeland</i> |
| NU19 | Metabolomic Evaluation of Feline Urinary Diseases | <i>N. Priymenko</i> |
| NU20 | Comparison of Single, Averaged, and Pooled Urine Protein: Creatinine Ratios in Proteinuric Dogs Undergoing Medical Therapy | <i>S. Shropshire</i> |
| NU21 | Retrospective Study of the Efficacy of Oral Potassium Supplementation in Cats with Chronic Kidney Disease | <i>L. Sieberg</i> |
| NU22 | Serum Concentrations of Symmetric Dimethylarginine in Dogs with Dehydration | <i>S. Woo</i> |

Small Animal (SAIM) – Nutrition/Metabolism

| | | |
|------|---|-----------------------|
| NM04 | ◆ Hypocholesterolemia in Cats: A Retrospective Study of 48 Cases | <i>C. Bowman</i> |
| NM05 | Effect of a Commercially Available Probiotic on Immune Responses in Healthy Dogs | <i>M. Lappin</i> |
| NM06 | Behavior and Health in Aged Dogs Fed a Food with Antioxidants, Phytonutrients and Fatty Acids | <i>H. Shiefelbein</i> |
| NM07 | Behavior and Health in Aged Cats Fed a Food with Antioxidants, Phytonutrients and Fatty Acids | <i>H. Shiefelbein</i> |

Small Animal (SAIM) – Other

| | | |
|------|--|-------------------------------|
| OT05 | Hemodynamic and Cardio-Respiratory Effects of an Infusion of Fentanyl, Ketamine and Lidocaine in Canines | <i>L. Vergara Saldarriaga</i> |
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| Small Animal (SAIM) - Pharmacology | | |
|------------------------------------|---|--------------------------|
| P05 | ◆ Limited Sampling Strategy to Determine Mirtazapine Pharmacokinetics in Cats with Liver Disease and Age-Matched Controls | <i>K. Benson</i> |
| P06 | Antiacidic Effect of Intravenous Esomeprazole Twice a Day with Two Different Doses in Beagle Dogs | <i>Y. Cho</i> |
| P07 | Pharmacokinetics and Antacid Efficacy of Esomeprazole After Intravenous, Oral and Subcutaneous Administration to Beagle Dogs | <i>J. Cho</i> |
| P08 | Prediction of Platelet Responsiveness to Aspirin and Fluoride Effects on Esterase Activity in Healthy Dogs | <i>J. Haines</i> |
| P09 | Pharmacokinetics of an Orally-Disintegrating Sildenafil Film After Oral and Rectal Routes Administration to Beagle Dogs | <i>H. Hong</i> |
| P10 | Safety of Mirtazapine 2% Transdermal Ointment Administered Topically to Cats at 5mg/kg for 28 days | <i>A. Avenatti</i> |
| P11 | Double-Blind, Placebo-Controlled, Randomized Study of Transdermal Mirtazapine Ointment for the Management of Feline Weight Loss | <i>K. Longpre</i> |
| P12 | Single Dose Pharmacokinetics Following Transdermal and Oral Administration of Mirtazapine 2% Transdermal Ointment in Cats | <i>B. Mason</i> |
| P13 | Multiple Dose Pharmacokinetics of Mirtazapine 2% Transdermal Ointment in Cats | <i>M. Poole O'Banion</i> |
| P14 | Oral Mycophenolate Mofetil Dose Escalation Trial Assessing Adverse Effects and Pharmacodynamic Responses in Normal Dogs | <i>C. Mulligan</i> |
| P15 | Functional Evaluation of the Canine CYB5R3 A729G Single Nucleotide Polymorphism Associated with Sulfonamide Hypersensitivity | <i>J. Reinhart</i> |
| P16 | Recovery of T-Cell Function in Healthy Dogs Following Cessation of Cyclosporine Therapy | <i>J. Thomason</i> |

| Small Animal (SAIM) - Respiratory | | |
|-----------------------------------|--|---------------------|
| R05 | ◆ Frequency of Bronchoalveolar Lavage Hemosiderosis in 171 Dogs and 34 Cats with Respiratory Disease (2007-2016) | <i>K. Hooi</i> |
| R06 | Lung Lobe Torsion in 39 Dogs and Cats (2004-2016) | <i>K. Benavides</i> |
| R07 | Fluoroscopic Estimation of Thoracic Dimensional Changes in Healthy Dogs | <i>J. Chan</i> |
| R08 | Exposure to Second-Hand Smoke in Pets from Different Socioeconomic Backgrounds | <i>N. Smith</i> |

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| Companion Animal Health by LiteCure | 320 | Purina | 317 |
| Core Imaging | 123 | RADIOCAT | 428 |
| Cornell University Animal Health Diagnostic Center | 533 | Roadrunner Pharmacy | 221 |
| Cuatro Imaging | 207 | Royal Canin Veterinary Diet | 616 |
| CVCA-Cardiac Care for Pets | 523 | Rx Vitamins, Inc. | 316 |
| Dan Scott & Associates, Inc. | 811 | SA Instruments | 817 |
| Dechra Veterinary Products | 501 | Sarstedt, Inc. | 827 |
| Dextronix Inc. | 234 | scil animal care company | 435 |
| Diamondback Drugs | 210 | Scratch Pay | 829 |
| Digicare Animal Health | 439 | Sedecal USA, Inc. | 722 |
| Doctor Multimedia | 630 | Sentier | 530 |
| Dragon Veterinary, Inc. | 237 | Smart Flow | 116 |
| Elanco Animal Health | 323 | Snyder Manufacturing Co. | 625 |
| ELECTROvet - Leroy Biotech | 619 | Sonac | 228 |
| ELIAS Animal Health | 334 | Sonoma Pharmaceuticals/MicrocynAH | 337 |
| Ellman A Cynosure Company | 717 | Sound's Academy of Veterinary Imaging | 408 |
| Elsevier | 201 | Stokes Pharmacy | 436 |
| Endoscopy Support Services, Inc. | 423 | StringSoft, Inc. | 219 |
| Epica Medical Innovations | 101 | Summit Veterinary Referral Center | 818 |
| Equashield, LLC | 617 | Taylor's Pharmacy | 624 |
| Equipment Outreach, Inc. | 335 | Texas A&M University Medical Sciences Library | 230 |
| Ethos Veterinary Health | 110 | The Boo Radley Foundation | TT6 |
| European School for Advanced Veterinary Studies | TT8 | The Regional Veterinary Referral Center | 329 |
| ExeGi Pharma | 124 | The VET Recruiter® | 823 |
| ezyVet | 724 | Timeless Veterinary Systems | 538 |
| FujiFilm SonoSite, Inc. | 816 | Universal Imaging | 601 |
| Hallmarq Veterinary Imaging | 107 | Universal Medical Systems, Inc. | 311 |
| Hawaiian Moon | 318 | University Veterinary Specialists | 809 |
| HemoSolutions | 730 | Upright Canine Brigade | TT11 |
| Hill's Pet Nutrition, Inc. | 301 | USHIO, Inc. | 131 |
| Hyperbaric Veterinary Medicine | 802 | Van Beek Natural Science | 632 |
| IDEXX | 300 | VCA | 401 |
| Infiniti Medical, LLC | 307 | VEDCO, Inc. | 122 |
| International Win, Ltd. | 108 | VetDC, Inc | 111 |
| ISU-VSC dba Iowa Veterinary Specialties | 120 | Veterinary Allergy Reference Lab (VARL) | 410 |
| iVaoes Animal Health | 208 | Veterinary Books by Servet USA | 819 |
| Jorgensen Laboratories | 704 | Veterinary Cancer Society | TT4 |
| Karl Storz Veterinary Endoscopy America, Inc. | 723 | Veterinary Emergency & Critical Care Society (VECCS) | 106 |
| Katie's Pet Products, Inc. | 118 | Veterinary Pharmacies of America, Inc. | 800 |
| Kindred Biosciences, Inc. | 100 | Veterinary Referral & Emergency Center | 431 |
| Lafeber-Emeraid | 629 | Veterinary Specialty Practice Alliance | TT1 |
| Lakeshore Veterinary Specialists | 135 | VIN - VSPN CE | TT5 |
| Lincoln Memorial University | TT12 | Wedgewood Pharmacy | 633 |
| LLOYD, Inc. | 605 | Wiley | 701 |
| Maryland Veterinary Technician Association | TT3 | Zoetis | 417 |

Anesthesia and Analgesia

AnimalScan
Aratana Therapeutics, Inc.
Canna Companion Products, Inc.
Center for Image-Guided Animal Therapy
Dechra Veterinary Products
Digicare Animal Health
iVaoes Animal Health
Jorgensen Laboratories
MedVet Medical & Cancer Centers for Pets
Sentier
Smart Flow

Animal Equipment, Cages & Supplies

Digicare Animal Health
Equipment Outreach, Inc.
Jorgensen Laboratories
SA Instruments
Snyder Manufacturing Co.

Avian, Exotic and Small Mammals

ACCESS Specialty Animal Hospitals
Avalon Medical
Canna Companion Products, Inc.
Endoscopy Support Services, Inc.
Karl Storz Veterinary Endoscopy America, Inc.
Lafeber-Emeraid
MedVet Medical & Cancer Centers for Pets
Merck Animal Health
NorthStar VETS
PetVet Care Centers

Biomedical / Biotechnology

ELECTROvet - Leroy Biotech
ELIAS Animal Health
HemoSolutions
Roadrunner Pharmacy
SA Instruments
VetDC, Inc

Bovine Medicine & Surgery

ACON Laboratories, Inc.
Merck Animal Health
Sonoma Pharmaceuticals/MicrocynAH

Business Management

BlackwellKing Veterinary Change Consultants
National Veterinary Associates
Roadrunner Pharmacy
Smart Flow
The VET Recruiter®
VCA
Veterinary Specialty Practice Alliance

Career Opportunities

BlackwellKing Veterinary Change Consultants
BluePearl Veterinary Partners
Cape Cod Veterinary Specialists
Ethos Veterinary Health
ISU-VSC dba Iowa Veterinary Specialties
Lakeshore Veterinary Specialists
MedVet Medical & Cancer Centers for Pets

NorthStar VETS
Pet Partners
PetVet Care Centers
Summit Veterinary Referral Center
The VET Recruiter®
VCA
Veterinary Referral & Emergency Center
Veterinary Specialty Practice Alliance

Client Services

ezyVet
Scratch Pay
The VET Recruiter®
VCA

Computer Systems & Services

Antech Diagnostics
ezyVet
IDEXX

Critical Care Products for Large and Small Animals

Hyperbaric Veterinary Medicine
Jorgensen Laboratories
Lafeber-Emeraid
MILA International, Inc.
Nova Biomedical
petMAP
PetVet Care Centers
Practivet
Roadrunner Pharmacy
Sentier
Snyder Manufacturing Co.
Sonoma Pharmaceuticals/MicrocynAH
Veterinary Referral & Emergency Center

Dental Technology / Supplies

Equipment Outreach, Inc.
Midmark Corporation
MyVet
scil animal care company

Dermatology

Dechra Veterinary Products
Elanco Animal Health
Hyperbaric Veterinary Medicine
Katie's Pet Products, Inc.
MedVet Medical & Cancer Centers for Pets
NorthStar VETS
Sonoma Pharmaceuticals/MicrocynAH
Veterinary Allergy Reference Lab (VARL)
Veterinary Referral & Emergency Center
Zoetis

Diagnostic Technology & Services

Abaxis, Inc.
ACON Laboratories, Inc.
ACTT Allergy
Alicam
AnimalScan
Antech Diagnostics
Center for Image-Guided Animal Therapy
Dextronix Inc.
Hallmarq Veterinary Imaging
IDEXX
Infiniti Medical, LLC

Natus Neurology
Nova Biomedical
Patterson Veterinary
petMAP
Roadrunner Pharmacy
scil animal care company
Timeless Veterinary Systems
Universal Medical Systems, Inc.
USHIO, Inc.
Veterinary Allergy Reference Lab (VARL)

Digital Imaging

Alicam
AnimalScan
Center for Image-Guided Animal Therapy
Core Imaging
Hallmarq Veterinary Imaging
IDEXX
Infiniti Medical, LLC
Midmark Corporation
MyVet
Network Imaging Systems, Inc.
scil animal care company
Sound
Timeless Veterinary Systems
Universal Imaging

Distributors

Animal Health Options
Canna Companion Products, Inc.
Equashield, LLC
MWI Animal Health
Patterson Veterinary
Universal Medical Systems, Inc.
VetDC, Inc

Education

BlackwellKing Veterinary Change Consultants
Canna Companion Products, Inc.
Center for Image-Guided Animal Therapy
Elsevier
Ethos Veterinary Health
European School for Advanced Veterinary Studies (ESAVS)
IDEXX
Roadrunner Pharmacy
Sound's Academy of Veterinary Imaging
Texas A&M University Medical Sciences Library
Upright Canine Brigade
Veterinary Books by Servet USA
Veterinary Cancer Society
Veterinary Emergency & Critical Care Society (VECCS)
Veterinary Specialty Practice Alliance
Wiley
Zoetis

Endocrinology

ACON Laboratories, Inc.
Canna Companion Products, Inc.
Dechra Veterinary Products
Dextronix Inc.
Merck Animal Health
Nova Biomedical

Endoscopy

Alicam
 Dextronix Inc.
 Endoscopy Support Services, Inc.
 Infiniti Medical, LLC
 Karl Storz Veterinary Endoscopy America, Inc.
 MILA International, Inc.
 Patterson Veterinary
 Veterinary Referral & Emergency Center

Equine Medicine & Surgery

Alicam
 Avalon Medical
 Canna Companion Products, Inc.
 Endoscopy Support Services, Inc.
 FujiFilm SonoSite, Inc.
 Infiniti Medical, LLC
 Kindred Biosciences, Inc.
 Merck Animal Health
 MWI Animal Health
 Sonoma Pharmaceuticals/MicrocynAH

Financial Services

CareCredit
 ezyVet
 Smart Flow

Fluid Therapy

Dechra Veterinary Products
 Practivet

Hospital Equipment & General Supplies

AnimalScan
 Hyperbaric Veterinary Medicine
 Jorgensen Laboratories
 Midmark Corporation
 Practivet

Immunotherapy

ACTT Allergy
 Aratana Therapeutics, Inc.
 Center for Image-Guided Animal Therapy
 ELIAS Animal Health
 Katie's Pet Products, Inc.
 Rx Vitamins, Inc.
 Veterinary Allergy Reference Lab (VARL)

Implantable Devices

Dextronix Inc.

Information Resources

Texas A&M University Medical Sciences Library

Job Placement

Lakeshore Veterinary Specialists
 Pet Partners
 PetVet Care Centers
 The VET Recruiter®

Joint Health Support/Nutrition

Animal Health Options
 Canna Companion Products, Inc.
 Dechra Veterinary Products
 Katie's Pet Products, Inc.
 Nordic Naturals
 Purina
 Rx Vitamins, Inc.
 Sonac

Lab Equipment, Supplies & Services

Abaxis, Inc.
 Core Imaging
 Ethos Veterinary Health
 IDEXX
 Jorgensen Laboratories
 Nova Biomedical
 Sarstedt, Inc.
 scil animal care company

Laser Technologies

Companion Animal Health by LiteCure
 Jorgensen Laboratories

Medical Supplies/Equipment

Alicam
 AnimalScan
 Core Imaging
 Dextronix Inc.
 ELECTROvet - Leroy Biotech
 Ellman A Cynosure Company
 Endoscopy Support Services, Inc.
 Equashield, LLC
 Equipment Outreach, Inc.
 Hallmarq Veterinary Imaging
 Hyperbaric Veterinary Medicine
 IDEXX
 Infiniti Medical, LLC
 Jorgensen Laboratories
 Karl Storz Veterinary Endoscopy America, Inc.
 MWI Animal Health
 Natus Neurology
 Practivet
 SA Instruments
 Sarstedt, Inc.
 Sentier
 Sonoma Pharmaceuticals/MicrocynAH
 Universal Medical Systems, Inc.

Mobile Practice

Dextronix Inc.
 Dragon Veterinary, Inc.
 Timeless Veterinary Systems

Natural Supplements

Animal Health Options
 Canna Companion Products, Inc.
 Katie's Pet Products, Inc.
 Lafeber-Emeraid
 Nordic Naturals
 Nutramax Laboratories, Inc.
 Rx Vitamins, Inc.

Non Profit Organizations

Center for Image-Guided Animal Therapy
 Christian Veterinary Mission
 Climate Vets
 European School for Advanced Veterinary Studies (ESAVS)
 Maryland Veterinary Technician Association
 Morris Animal Foundation
 PuppyUp Foundation
 Upright Canine Brigade
 Veterinary Cancer Society
 Veterinary Emergency & Critical Care Society (VECCS)

Nutrition, Foods & Diet Management

Animal Health Options
 Bayer Healthcare Animal Health Division
 Blue Buffalo Company
 Hill's Pet Nutrition, Inc.
 Katie's Pet Products, Inc.
 Lafeber-Emeraid
 Nordic Naturals
 Purina
 Royal Canin Veterinary Diet
 Rx Vitamins, Inc.
 Sonac

Oncology

Amatheon Pharmaceuticals
 Aratana Therapeutics, Inc.
 Canna Companion Products, Inc.
 Center for Image-Guided Animal Therapy
 Diamondback Drugs
 ELECTROvet - Leroy Biotech
 ELIAS Animal Health
 Equashield, LLC
 Ethos Veterinary Health
 Hyperbaric Veterinary Medicine
 iVaoes Animal Health
 MedVet Medical & Cancer Centers for Pets
 MILA International, Inc.
 Pet Partners
 PetCure Oncology
 PetVet Care Centers
 Practivet
 Stokes Pharmacy
 VetDC, Inc.
 Veterinary Cancer Society
 Veterinary Referral & Emergency Center

Pain Management

Amatheon Pharmaceuticals
 Aratana Therapeutics, Inc.
 Bayer Healthcare Animal Health Division
 Canna Companion Products, Inc.
 Center for Image-Guided Animal Therapy
 Companion Animal Health by LiteCure
 Dechra Veterinary Products
 Elanco Animal Health
 Hill's Pet Nutrition, Inc.
 Hyperbaric Veterinary Medicine
 iVaoes Animal Health
 Katie's Pet Products, Inc.
 MedVet Medical & Cancer Centers for Pets
 MILA International, Inc.
 Nutramax Laboratories, Inc.
 Rx Vitamins, Inc.

Patient Monitoring Equipment

ACON Laboratories, Inc.
 AnimalScan
 Dextronix Inc.
 Mindray North America
 Practivet
 SA Instruments
 Sentier
 Pharmaceuticals & Pharmacy
 Amatheon Pharmaceuticals

Aratana Therapeutics, Inc.
Bayer Healthcare Animal Health Division
BCP Veterinary Pharmacy
Best Pet Rx
Diamondback Drugs
Elanco Animal Health
Equashield, LLC
ExeGi Pharma
Hill's Pet Nutrition, Inc.
iVaoes Animal Health
Kindred Biosciences, Inc.
Merck Animal Health
MWI Animal Health
Patterson Veterinary
Roadrunner Pharmacy
Taylors Pharmacy
VetDC, Inc
Zoetis

Pharmacy Compounding

Best Pet Rx
Diamondback Drugs
Ethos Veterinary Health
Roadrunner Pharmacy
Stokes Pharmacy
Taylors Pharmacy
Veterinary Pharmacies of America, Inc.
Wedgewood Pharmacy

Practice Management

ezyVet
IDEXX
MWI Animal Health
Patterson Veterinary
Roadrunner Pharmacy
Smart Flow
StringSoft, Inc.
Veterinary Specialty Practice Alliance

Professional Services

BlackwellKing Veterinary Change Consultants
Doctor Multimedia
Ethos Veterinary Health
Pet Partners
The VET Recruiter®
VCA

Publications

Elsevier
Texas A&M University Medical Sciences Library
VetDC, Inc
Veterinary Books by Servet USA
Wiley

Referral Programs

Pet Partners
PetVet Care Centers
Timeless Veterinary Systems
Veterinary Referral & Emergency Center

Rehabilitation/Physical Therapy

Companion Animal Health by LiteCure
Hyperbaric Veterinary Medicine
MedVet Medical & Cancer Centers for Pets
NorthStar VETS

Small Animal Practice & Critical Care

Cape Cod Veterinary Specialists
Ethos Veterinary Health
FujiFilm SonoSite, Inc.
Lafeber-Emeraid
MedVet Medical & Cancer Centers for Pets
NorthStar VETS
Pet Partners
PetVet Care Centers
Practivet
Sentier
Smart Flow
Snyder Manufacturing Co.
Sonoma Pharmaceuticals/MicrocynAH
Summit Veterinary Referral Center
The Regional Veterinary Referral Center
VetDC, Inc
Veterinary Referral & Emergency Center

Small Animal Surgical and Dental

Avalon Medical
Dextronix Inc.
Ellman A Cynosure Company
Endoscopy Support Services, Inc.
Jorgensen Laboratories
MedVet Medical & Cancer Centers for Pets
MILA International, Inc.
MWI Animal Health
NorthStar VETS
PetVet Care Centers
Practivet
Sentier
Veterinary Referral & Emergency Center

Surgical

Avalon Medical
Cape Cod Veterinary Specialists
Center for Image-Guided Animal Therapy
Dextronix Inc.
Elanco Animal Health
Ellman A Cynosure Company
Endoscopy Support Services, Inc.
FujiFilm SonoSite, Inc.
Karl Storz Veterinary Endoscopy America, Inc.
MILA International, Inc.
MWI Animal Health
NorthStar VETS
PetVet Care Centers
Smart Flow
Veterinary Referral & Emergency Center

Therapeutic Equipment

Companion Animal Health by LiteCure
ELECTROvet - Leroy Biotech
Hyperbaric Veterinary Medicine

Ultrasound

AnimalScan
Core Imaging
Equipment Outreach, Inc.
FujiFilm SonoSite, Inc.
MedVet Medical & Cancer Centers for Pets
Mindray North America
MyVet
Natus Neurology
Patterson Veterinary
scil animal care company
Sound's Academy of Veterinary Imaging
Timeless Veterinary Systems
Universal Imaging
Veterinary Referral & Emergency Center

Veterinary Medical Devices

Abaxis, Inc.
ACON Laboratories, Inc.
Alicam
AnimalScan
Center for Image-Guided Animal Therapy
Companion Animal Health by LiteCure
Core Imaging
Dextronix Inc.
Digicare Animal Health
ELECTROvet - Leroy Biotech
Ellman A Cynosure Company
Epica Medical Innovations
FujiFilm SonoSite, Inc.
Hyperbaric Veterinary Medicine
Infiniti Medical, LLC
Karl Storz Veterinary Endoscopy America, Inc.
MILA International, Inc.
Natus Neurology
petMAP
Practivet
SA Instruments
Sarstedt, Inc.
USHIO, Inc.

Veterinary Technology

Abaxis, Inc.
ACON Laboratories, Inc.
Digicare Animal Health
Dragon Veterinary, Inc.
ELECTROvet - Leroy Biotech
Epica Medical Innovations
ezyVet
FujiFilm SonoSite, Inc.
Hallmarq Veterinary Imaging
Hyperbaric Veterinary Medicine
IDEXX
Infiniti Medical, LLC
Kindred Biosciences, Inc.
Maryland Veterinary Technician Association
Patterson Veterinary
SA Instruments
Sentier
Smart Flow
Universal Medical Systems, Inc.
VetDC, Inc

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University of Pennsylvania | Philadelphia

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*Space for these courses is limited! Register online at ACVIM.org.
All courses subject to change.*

CLARO®

(florfenicol, terbinafine, mometasone furoate)
Otic Solution

Antibacterial, antifungal, and anti-inflammatory
For Otic Use in Dogs Only

The following information is a summary of the complete product information and is not comprehensive. Please refer to the approved product label for complete product information prior to use.

CAUTION: Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian.

PRODUCT DESCRIPTION: CLARO® contains 16.6 mg/mL florfenicol, 14.8 mg/mL terbinafine (equivalent to 16.6 mg/mL terbinafine hydrochloride) and 2.2 mg/mL mometasone furoate. Inactive ingredients include purified water, propylene carbonate, propylene glycol, ethyl alcohol, and polyethylene glycol.

INDICATIONS:

CLARO® is indicated for the treatment of otitis externa in dogs associated with susceptible strains of yeast (*Malassezia pachydermatis*) and bacteria (*Staphylococcus pseudintermedius*).

DOSE AND ADMINISTRATION:

CLARO® should be administered by veterinary personnel. Administration is one dose (1 dropperette) per affected ear. The duration of effect should last 30 days. Clean and dry the external ear canal before administering the product. Verify the tympanic membrane is intact prior to administration. Cleaning the ear after dosing may affect product effectiveness. Refer to product label for complete directions for use.

CONTRAINDICATIONS:

Do not use in dogs with known tympanic membrane perforation (see **PRECAUTIONS**).

CLARO® is contraindicated in dogs with known or suspected hypersensitivity to florfenicol, terbinafine hydrochloride, or mometasone furoate, the inactive ingredients listed above, or similar drugs, or any ingredient in these medicines.

WARNINGS:

Human Warnings: Not for use in humans. Keep this and all drugs out of reach of children. In case of accidental ingestion by humans, contact a physician immediately. In case of accidental skin contact, wash area thoroughly with water. Avoid contact with eyes. Humans with known hypersensitivity to florfenicol, terbinafine hydrochloride, or mometasone furoate should not handle this product.

PRECAUTIONS:

Do not administer orally.

The use of CLARO® in dogs with perforated tympanic membranes has not been evaluated. The integrity of the tympanic membrane should be confirmed before administering the product. Reevaluate the dog if hearing loss or signs of vestibular dysfunction are observed during treatment.

Use of topical otic corticosteroids has been associated with adrenocortical suppression and iatrogenic hyperadrenocorticism in dogs.

Use with caution in dogs with impaired hepatic function. The safe use of CLARO® in dogs used for breeding purposes, during pregnancy, or in lactating bitches has not been evaluated.

ADVERSE REACTIONS:

In a field study conducted in the United States, there were no directly attributable adverse reactions in 146 dogs administered CLARO®. To report suspected adverse drug events and/or obtain a copy of the Safety Data Sheet (SDS) or for technical assistance, contact Bayer HealthCare at 1-800-422-9874.

For additional information about adverse drug experience reporting for animal drugs, contact FDA at 1-888-FDA-VETS or online at <http://www.fda.gov/AnimalVeterinary/SafetyHealth>.

NADA 141-440, Approved by FDA.

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LOVE at one dose

Try Claro.[®] The one and only FDA-approved canine otitis externa treatment featuring:

- ◆ Single-dose treatment
- ◆ Vet administered to ensure compliance
- ◆ No work for your clients

BayerDVM.com/Claro

CLARO[®]

(florfenicol, terbinafine, mometasone furoate)
Otic Solution

Claro[®] Otic Solution is approved for the treatment of ear infections in dogs caused by susceptible strains of yeast (*Malassezia pachydermatis*) and bacteria (*Staphylococcus pseudintermedius*). CAUTION: Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian. CONTRAINDICATIONS: Claro[®] should not be used in dogs known or suspected to be allergic to Claro[®] or any of its ingredients.

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