120th ANNUAL MEETING
February 23 - 25, 2017 | Hyatt Regency, Minneapolis, MN
2017 Program Book

“Laughter is the Best Medicine”
2017 Convention Sponsors

The Minnesota Veterinary Medical Association (MVMA) wishes to acknowledge and thank the following sponsors for their financial support of the MVMA 2017 Convention. These sponsors and the exhibitors help maintain high quality continuing education and reasonable registration rates by sponsoring speakers and purchasing booth space. They are our veterinary medicine partners!
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WIFI Lounge
Located in the Exhibit Hall-Row 700
Need to take a load off? Stop on by the WIFI lounge to recharge!
Want to check your email? Take advantage of the free WIFI.
Use Password MVMA2017  * Note: only 25 connections are available at any one time,
so please be certain to log off before leaving the lounge.
Welcome to the 2017 MVMA Annual Meeting, the 120th of our state veterinary medical association. We are excited to be at a different meeting venue, Hyatt Regency Hotel, in Minneapolis this year. This convention site is conveniently located downtown and is easily accessible from the freeway with plenty of parking located at or near the hotel. All this makes for a great meeting location. Please notice the MVMA’s new convention “app” that I hope you use and please provide us with your feedback.

Dr. Jennifer Schurrer, chair of the CE Committee, and her committee have done another outstanding job in putting together a program with course offerings that should appeal to all veterinarians and provide us with new information, innovative practice ideas, and the latest in research all presented in a format that will provide you with practical take-home concepts that you can apply today. The veterinary technicians also have a great program put together for their members. The MVMA convention is the annual meeting place for the entire veterinary profession in our state and the upper Midwest region.

We continue to have active participation and support of our sponsors at our meeting. Be sure to check out the latest information on products and services in the centrally located exhibit hall. On Friday night, you will want to join us in the Hyatt’s Niccollet ballroom for a fun comedy evening with Tim Gabrielson. This is a great opportunity to enjoy good food, great fun and laughter with friends and exhibitors. On Saturday, a crowd is expected for the noon luncheon with keynote speaker and prominent veterinary economist, Dr. Michael Dicks. You won’t want to miss his interesting view of the veterinary profession through the lens of a veterinary economist.

The Annual Meeting will include both popular and new program offerings and activities:

- Three Small Animal Tracks offered daily
- Three full days of Practice Management Sessions
- Veterinary Practice Plus Track topics include: Veterinary Telemedicine (Pros/Cons); Compassion Fatigue: Causes, Symptoms Intervention and Prevention; Animal Cruelty Cases and Link to Human Cruelty; and Hot Drug Topics from the MN Board of Pharmacy Executive Director.
- MVMA Business Meeting
- Bovine, Equine, Small Ruminant, Comparative Medicine, Public Health & Swine Programs
- MVM Foundation Silent Auction
- MVMA Veterinary Professional Awards
- Animal Hall of Fame Awards
- University of Minnesota College of Veterinary Medicine Alumni Reception
- Friday Night Exhibitor Event with Comedy!

Again, welcome colleagues and friends to the MVMA 2017 Annual Meeting. I look forward to seeing you in the hallways and in the sessions. Thank you for giving me the opportunity this past year to serve you as President of the MVMA

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Registration Hours
Thursday, February 23rd  
7:00 a.m. - 4:00 p.m.
Friday, February 24th  
7:00 a.m. - 4:00 p.m.
Saturday, February 25th  
7:00 a.m. - 2:00 p.m.

Guests
Guests (non-DVM) must be registered. Guest registration includes entrance into the exhibit hall and the Friday Night Exhibitors Comedy Event.

Name Badges
Name badges are required for all convention functions including seminars, exhibit hall entrance and Exhibitors Comedy Night. Security personnel will allow only those with badges into the exhibit area or seminar rooms. Please Recycle Badge holders at MVMA registration.

Exhibit Hall Information
The Exhibit Hall will be open: Thursday, February 23rd from 12:00 pm to 5:30 pm; Friday, February 24th from 8:00 am to 5:30 pm; and Saturday, February 25th, from 8:00 am to 11:00 am. Also, plan to attend the Friday Night Exhibitor Comedy Event (Sponsored by Elanco) from 5:00 - 7:15 pm. See page 8 for more details. MVMA Exhibitors offer state-of-the-art technology, timely information, and cutting-edge products. With over 100 exhibitors to visit and an excellent reputation among veterinary suppliers, there is something of interest for every MVMA Convention attendee. Don't forget! Fill out your passport card and return it to registration desk by Saturday at 12:00 pm for great drawing items.

Wellness Center
(sponsored by Marshfield Laboratories)
Convention attendees may have blood drawn for rabies antibody status ($60.00) and total cholesterol ($10.00) at the Wellness Center. Results will be sent via mail from Marshfield Laboratories. The Wellness Center is open during the following times in the Exhibit Hall:

- Thursday, February 23rd  
  3:30 pm - 5:30 pm
- Friday, February 24th  
  8:30 am - 10:30 am
- Saturday, February 25th  
  8:30 am - 10:30 am

Continuing Education Tracking Sheet
The CE Tracking Sheet is provided on the next page. This form allows you to track the seminars you attended and add-up the hours earned for re-licensure. One credit equals 50 minutes of lecture. Be sure to fill out the form and maintain it for verification when you renew your veterinary license or veterinary technician certification. 20 CE credits are possible during the MVMA Annual Meeting and a possible 9 additional for trainings prior to convention. MVMA Academy Members, please provide a copy of your completed tracking sheet to an MVMA staff member to put in your Academy CE file. Not an Academy Member? Consider joining for just $25 per year. It's a great way of keeping track of all your CE for Minnesota license renewal purposes.

Annual MVMA Business Meeting
MVMA members—Plan to attend this meeting! Awards for Veterinarian of the Year, Distinguished Veterinary Service, Outstanding Faculty of the College of Veterinary Medicine, Outstanding Industry Representative and the Emerging Leader are presented. A ticket is required for entry. The meeting will be held on Friday, February 24th, from 12:00 pm - 2:00 pm.

SCAVMA Coat Check
SCAVMA offers coat check in the Nicollet Promenade near registration. Donations received will be used to support student programs. Check your coat when you arrive and support this good cause!

Electronic Devices
Please mute all electronic devices while in seminar rooms. Thank you for this consideration.

WIFI
Complimentary WIFI is available during the Convention in the hotel lobby, restaurant, fitness center and contracted guest rooms. Look for the WIFI network listed as @Hyatt_WIFI.

WIFI Lounge
Located in the Exhibit Hall, the WIFI lounge is available for groups to gather and rest in between sessions, so take some time to recharge and connect with colleagues and friends.

Convention App
Brought back by popular demand is the mobile app for the 120th MVMA Annual Meeting! It is available through Yapp (mobile app platform). It includes the schedule, room assignments, facility map, proceedings, list of attendees who have consented to have name published and much more. To install the app, follow these steps:
1. Install the Yapp app, available from the App store (iPhone or Google Play (Android), and then either:
   a. Visit this link from your mobile device: http://my.yapp.us/MinnesotaVCA
   b. Scan the convention app QR code here

Facebook & Twitter Followers
Want to know who else is attending the Convention? Then "RSVP" to the 120th Annual Meeting Event Page on the MVMA Facebook. You will also get event updates and see photos! https://www.facebook.com/MN.VMA/events

Follow us @MN_VMA on twitter, RT #2017MVMAAnnualMeeting, and come to our Annual Meeting with your veterinarian friends!

Mothers Room - Salon A, 2nd floor
A Mother's Room will be available during the Annual Meeting. This is a private-single occupancy room furnished with an oversized chair, small table and mini fridge. See the registration desk for more information.

Consent to Use Photographic Images
Registration and attendance at, or participation in, the MVMA Convention and other activities constitutes an agreement by the registrant to MVMA's use and distribution (both now and in the future) of the registrant or attendee's name and/or voice. This includes the use and distribution in photographs, videos, electronic reproductions, and audiotapes of such events and activities.

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Hotel room guests receive complimentary self-parking for one car per guest room per night in the Loring Parking Ramp–attached to the Hyatt Regency.
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MVMA ANNUAL MEETING ATTENDEES:
Visit BOOTH 105 for your chance to win a Continued Education course! Valued at $1,500
COMEDY NIGHT with Tim Gabrielson
Friday Evening Exhibitors Event | 5:00 - 7:15 pm | Nicollet A/B/C

Don’t miss it!
Tim Gabrielson, The Magic of Comedy, on Friday, February 24th. Time Gabrielson’s blend of comedy and magic has left audiences amazed since 1989. He will inspire you with his words, entertain you with his breathtaking comedy and magic, and show you how to make small choices that result in big differences.

Take advantage of this special opportunity to join colleagues and friends for an entertaining evening that includes delicious hors d'oeuvres and an open bar. And don’t forget to bid on the many fantastic items at the MVMF Silent Auction as bidding closes this evening!

Laughter is the Best Medicine!

Sponsored by Elanco
Luncheons

Lunch with the Exhibitors
Join the Grand Opening of the 120th Annual Meeting Exhibit Hall
Thursday, February 23
12:00 pm
Enjoy visiting with the many MVMA Exhibitors.

Join us for the induction of 2016 Animal Award recipients
Saturday, February 25
12:00 – 2:00 pm
Nicollet A/B, 1st Floor

Lunch with Michael Dicks
Take the Nail Out
Saturday, February 25
12:00 – 2:00 pm
Nicollet A/B, 1st Floor

Just in Time Lunch Discussion
Challenges and Solutions for Health Care Delivery for Low Income Animal Owners
Thursday, February 23 | 1:00 - 2:00 pm | Nicollet A/B, 1st Floor
Moderator: Dr. Julie Wilson, Minnesota Board of Veterinary Medicine
Panelists: Dr. John Howe, AVMA Board of Directors
Dr. Kim Culbertson, MN SNAP (Spay Neuter Assistance Program)
Dr. Susan Miller, Mission Animal Hospital
David Aafedt, Attorney, Winthrop and Weinstine, PA.
Dr. Julie Wilson, Executive Director of the MN Board of Veterinary Medicine, will moderate a panel of veterinarians and a legal expert on the various approaches to providing veterinary care for Minnesota's indigent pet owner population. This session will be educational in learning how some veterinarians have structured their veterinary practices to accommodate a low cost caseload. An attorney with one of the Twin Cities top law firms will share his experience as a health care attorney working with physicians, dentists and veterinarians, as well as highlight the changes he has seen in how health and veterinary care is being delivered today.

MVMA Annual Business Meeting and Awards Luncheon
Friday, February 24
12:00 pm – 2:00 pm
Nicollet A/B/C - 1st Floor
MVMA members: Plan to attend this meeting! Awards for Veterinarian of the Year, Distinguished Veterinary Service, Outstanding Faculty of the College of Veterinary Medicine, Outstanding Industry Representative and the Emerging Leader are presented. MVMF Scholarships will be awarded too!

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Nicollet A/B/C - 1st Floor
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**BOVINE**

**Friday, February 24, 2017**

Room: Lakeshore A  
Moderators: **AM** - Dr. Matt Boyle  
**PM** - Dr. Michael Hodgman

**9:00 am – 10:15 am**

**Practical Evaluation of a Dairy Nutritional Program**

**Presenter: Dr. King Hickman**

The purpose of this lecture is to provide the practicing veterinarian with the basic knowledge to be able to critically evaluate the practical implementation of a dairy nutrition program from the standpoint of identifying potential bottlenecks and areas of opportunity for better animal performance.

**King Hickman, DVM**  
718-899-6877 | kinghickman@gpsdairy.com

Dr. Hickman is a founding partner of GPS Dairy Consulting, LLC a group of independent dairy nutrition and management consultants servicing customers throughout the Midwest US and Australia. Dr. Hickman is a graduate of Iowa State University’s College of Veterinary Medicine and holds a certificate from the University of Wisconsin Dairy Health Management Program. He spent his first 8 years in the dairy industry as a practicing dairy veterinarian in Postville and Sheldon, IA before joining Monsanto Dairy Business in 1997. While with Monsanto he served in various capacities including Area Market Manager, Technical Service Specialist and 5 years as a Team Business and Development Coach. This broad range of experience has provided him with a unique set of technical, business management and coaching skills. He is an AVMA member as well as a member of the American Association of Bovine Practitioners, National Mastitis Council and is a past Executive Board member of the Iowa Veterinary Medical Association. Dr. Hickman has been practicing dairy medicine and was a food animal ambulatory veterinarian at the Iowa State University’s College of Veterinary Medicine where he taught beef production medicine and has broad speaking experience on topics varying from dairy nutrition and cow comfort to team building and people development. Dr. Hickman lives in Sheldon, IA with his wife Kecia and four children.

**10:45 am – 12:00 pm**

**Enhancing Feeding Efficiency and Dairy Profitability with TMR Audits**

**Presenter: Dr. Tom Oelberg**

Dairy cattle performance and health depends heavily on consistency in many routines including feeding. This presentation will discuss methods to reduce variation in forages such as haylage and corn silage so that every load of TMR is more consistent in moisture and nutrients. The TMR mixing process is critical to providing a consistent TMR that allows every bite, by every cow on every day to be as consistent and as possible as prescribed by the nutritionist formulating the rations. The presentation will discuss eleven factors during the TMR mixing process that can cause the TMR to be poorly mixed and inconsistent across the feed bunk. The presentation will cover some of the latest findings in time-lapse photography of feed bunks and access to feed by cows.

**Tom Oelberg, PhD**  
507-381-3114 | toelberg@diamondv.com

Dr. Tom Oelberg has worked in the Upper Midwest dairy industry for 31 years in several roles. He spent 10 years as manager of animal research for a regional feed company. He lead research efforts in the development of many animal nutrition products for dairy, beef, swine and poultry that impacted U.S. and overseas operations for the feed company. Dr. Oelberg spent 13 years with Monsanto Dairy Business leveraging his expertise in cow cooling, stall comfort, feed bunk and silage management. He has been working the past 8 years with Diamond V. In 2008 Tom introduced the TMR audit on large dairies in the United States. Since then, Tom has conducted many training sessions, has written many articles, and has given presentations on TMR Audits at numerous nutrition conferences. Recently, he co-authored a chapter on TMR Audits in the 2014 Veterinary Clinics of North America Food Animal Practice. Tom will share the key learnings obtained from the TMR Audits and from time-lapse photography of feed bunks. He lives in New Ulm, MN with his wife Kristy and daughter Sydney. His son, Wyatt is a freshman in medical engineering at University Minnesota, Twin Cities. (BS and MS – South Dakota State University; Ph.D. - the Ohio State University)

**2:00 pm – 3:15 pm**

**Beef Cow Nutrition–She’s Not a Dairy Cow**

**Presenter: Dr. W. Mark Hilton**

With the recent fluctuations in prices of feedstuffs used in beef rations and the increasing availability of alternative feeds, now is the time for veterinarians to become more involved in nutrition consultation with their beef clients.

**3:45 pm – 5:00 pm**

**Beef Heifer Development**

When discussing replacement heifers in a beef herd, a few questions must be answered before we even select our first potential replacement. First, does this farm or ranch need to calve out heifers? Reasons for never calving out heifers could include labor shortage at calving time; lack of facilities in case of dystocia; historically poor nutrition of young cows and heifers; and historically poor fertility of nursing 2-year-olds. If any of these situations are present, buying bred cows or cow-calf pairs is likely the most pragmatic option available. ‘There is nothing wrong with this option.

**W. Mark Hilton, DVM, PAS, DABVP** (beef cattle practice)  
765-714-1092 | w.mark.hilton@elanco.com

Dr. Hilton earned both his BS in Animal Science and DVM from Purdue University. He is currently the Senior Technical Consultant for Elanco Animal Health. Prior to joining Elanco he was a clinical professor of beef production medicine at Purdue University, College of Veterinary Medicine where he taught beef production medicine and was a food animal ambulatory clinician. In 2009 Dr. Hilton was honored as Continuing Educator of the Year/Food Animal by Western Veterinary Conference. In 2013 he was named one of the 20 most influential bovine veterinarians in North America by Bovine Veterinarian magazine. He has been married to Denise for 36 years, 2 sons, 2 daughter-in-law’s, 2 grandsons and 2 grandchildren in gestation (will be born before MVMA meeting!)
Saturday, February 25, 2017
Room: Lakeshore A
Sponsor: Zoetis (Dr. John Hallberg)
Moderators: AM - Dr. Gary Neubauer
PM - Dr. Chris Nord

9:00 am – 10:15 am
Veterinary Food Directive: Now What!
Presenter: Dr. John Hallberg
December 8-10, 2016, CVM removed all growth promotion claims for all type A medicated feeds, approved combinations and generic copies containing medically important antibiotics. CVM also required that a veterinarian issue a veterinary feed directive (VFD) for a producer to use any of these products in final feed going to food producing animals. In this same period, CVM changed all over the counter water soluble products containing medically important antibiotics to Rx status. These new approves have changed the practice of veterinary medicine for the food animal producer. With these new approvals, veterinarians should be issuing VFD's for all medicated feed and prescribing use of all water-soluble powders. The next step is preparation to insure compliance with your issued VFD's as you visit your clients. It is also essential that you prepare yourself and your clients for potential visits from FDA. CVM has indicated that initially they will be inspecting but in an “education” mode. Eventually, they will switch to a compliance mode and the veterinarian, feedmill and producer must be ready.

John Hallberg, DVM, PhD
269-359-9201 | john.w.hallberg@zoetis.com

Dr. John Hallberg is a Director of Regulatory Affairs for Veterinary Medicine Research and Development at Zoetis. He has been involved with the following product registrations at Zoetis (all without moving his office). He has been a member of AVMA, AABP and NMC. He has been married to Lois for 38 years and resides in Nashville, MI where they raise and show national champion Shetland ponies.

10:45 am – 12:00 pm
Update on Medically Important Antimicrobials
Presenter: Dr. Michael Murphy
This session will provide an update on the regulatory status of the applications affected by Guidelines for Industry #209 and 213 after January 1, 2017.

Michael Murphy, DVM, JD, PhD, DABVT, DABT
Michael.Murphy@fda.hhs.gov

Dr. Murphy is a Veterinary Medical Officer in the Office of the Director at the Center for Veterinary Medicine, FDA. Mike joined CVM in 2009; prior to that time, he was a Professor at the University of Minnesota.

2:00 pm – 2:45 pm
Updates on Bovine Coronavirus
Presenter: Dr. Jeremy Schefers
We will review bovine coronavirus infections in cattle with emphasis on immunity.

3:00 pm – 3:45 pm
BRDC Pathogens & Antimicrobial Susceptibility Trends
We will review antibiotic susceptibility trends for BRDC pathogens.

4:00 pm - 4:45 pm
Dairy Cows & their Gut Problems
We will attempt to examine the gastrointestinal challenges of the modern dairy cow.

Sunday, February 26, 2017
Room: Kalamazoo/Richland VMRD site
Moderator: Dr. Jeremy Schefers

Dr. Jeremy Schefers is a Food Animal Diagnostian at the University of Minnesota Veterinary Diagnostic Laboratory. He completed his BS, DVM and PhD at the University of Minnesota. A majority of his responsibilities include performing necropsy exams on ruminants and swine submissions, generating diagnostic reports and consulting with livestock veterinarians, producers, nutritionist and students. His profession interests are focused on the diagnosis, treatment and prevention of enteric and respiratory disease of livestock.

COMPARATIVE MEDICINE
Thursday, February 23, 2017
Room: Nicollet D1
Presenters: Drs. Sheree Beam & Melanie Goodman Keiser
Moderator: Dr. Seth Baker

2:00 pm – 3:15 pm
Treating Pain Using Neurostimulation: Human and Veterinary Applications
Pain management in people and animals is the focus of intense research and one of the most common patient complaints. Neurostimulation is an alternate strategy for pain management which can be effective alone or used in combination with drugs such as opioids or NSAIDs. Neurostimulation is the alteration of nerve activity through the delivery of electrical signals to targeted sites of the body which is used to normalize (or modulate) nerve function. This presentation will describe how neurostimulation works (physiology) and how it has been used for numerous ailments in people for nearly 50 years. Also, current and potential veterinary uses of neurostimulation such as treatment for osteoarthritis and cancer analgesia in large and small animal patients will be discussed.

3:45 pm – 5:00 pm
Treating Pain Using Neurostimulation: Human and Veterinary Applications…continued
Sheree Beam, DVM, MS, DACVP
763-413-4972 | beam.path@outlook.com

Dr. Sheree Beam is a comparative veterinary pathologist and owner of Preclinical Pathology Consulting Service, a pathology consulting service for the medical device industry located in the Twin Cities. She obtained her DVM from Iowa State University in 1990 and engaged in small animal medicine in Wisconsin for 10 years. Dr. Beam entered the veterinary pathology residency program at Cornell University and completed her training at The Wisconsin Regional Primate Center in 2003. She achieved Diplomate status in the American College of Veterinary Pathology in 2003. As a veterinary pathologist, she was an associate professor at Well Cornell Medical Center/Memorial Sloan Cancer Center where she divided her time between transgenic mouse studies and investigatory projects with medical school surgeons. Prior to establishing PPCS, she was at the Physiological Research Laboratory of Medtronic, Inc. concentrating on neurologic and cardiovascular medical device preclinical studies.
Melanie D. Goodman Keiser, PhD  
763-526-8328  
Melanie.d.goodman.keiser@medtronic.com

Dr. Melanie Goodman Keiser, Ph.D., is a neurophysiologist, working as a Principal Scientist in the Neuromodulation division of Medtronic, Inc. in the Minneapolis area. Lanie received her Ph.D. in Physiology from the University of Oklahoma Health Sciences Center in 2009 with a focus on the neurophysiology and the neuromodulation clinical feasibility and preclinical research with St. Jude Medical. In her current role, she develops large animal models for neuromodulation and manages preclinical and basic science projects. She has published 8 articles, presented 16 posters, given 3 talks at scientific meetings and holds 2 patents in the neuromodulation field.

EQUINE

Friday, February 24, 2017
Room: Lakeshore C
Presenter: Dr. Joe Bertone
Moderator: Dr. Julia Wilson

9:00 am – 10:15 am  
Effective Equine Treatment Begins with Smart Equine Medication Choices

10:45 am – 12:00 pm  
Equine Neurology: Interactive Case Discussions

2:00 pm – 3:15 pm  
Equine Lyme Disease Demystified

3:45 pm – 5:00 pm  
Tips for Field Diagnosis of Equine Medical Problems

Joe Bertone, DVM, MS, BS  
jbertone@westernu.edu

Dr. Bertone is professor of equine medicine at Western University of Health Sciences College of Veterinary Medicine. He received his DVM and MS degrees (nutrition concentrate) from Cornell University (1983). He completed a residency-training program, and a MS degree at Colorado State University. He served on the faculties of Louisiana State and Ohio State Universities and at the Food and Drug Administration Center for Veterinary Medicine.

HEALTH SERVICES CENTER IN 2009 WITH A FOCUS ON THE NEUROPHYSIOLOGY AND THE NEUROMODULATION FEASIBILITY AND PRECLINICAL RESEARCH WITH ST. JUDE MEDICAL. IN HER CURRENT ROLE, SHE DEVELOPS LARGE ANIMAL MODELS FOR NEUROMODULATION AND MANAGES PRECLINICAL AND BASIC SCIENCE PROJECTS. SHE HAS PUBLISHED 8 ARTICLES, PRESENTED 16 POSTERS, GIVEN 3 TALKS AT SCIENTIFIC MEETINGS AND HOLDS 2 PATENTS IN THE NEUROMODULATION FIELD.

PRACTICE MANAGEMENT

Thursday, February 23, 2017
Room: Lakeshore B
Presenters: Ms. Heather Prendergast
Moderator: Dr. Matt Kruse

9:00 am – 10:15 am  
What is Leadership Fatigue? Do YOU Fit the Picture?

Leadership has been defined as the means of social influence in which a person can enlist the aid and support of others to achieve a common goal. As managers, leadership responsibilities may often include instilling the practice MVVs in the team. However, when the main activity of a manager becomes “putting out fires on a daily basis” leadership fatigue or burnout may set in, likely affecting the entire team and practice. Attendees will identify what fatigue looks like in their practice, and tie back to the detrimental affects on the team.

10:45 am – 12:00 pm  
Preventing Leadership Fatigue in Managers and Owners

Leading and managing a practice can be a fatiguing task, even for the most experienced hospital administrator, practice manager or owner — that is until steps are taken to prevent fatigue from setting in. Only you, the great leader can make that happen! Attendees will take steps identified in the previous session and develop an action plan to prevent fatigue in themselves and other team members of the practice.

2:00 pm – 3:15pm  
Leadership Strategies: Step Up or Set Out

Teams follow their leaders. In fact, what the team does (or does not do) is in direct correlation to their leader(s). However, many veterinary practices lack the leadership needed to produce a positive, effective and efficient culture. Participants will gain an understanding of the importance of great leadership, and will take home tools to produce the dream team.

3:45 pm – 5:00 pm  
Bullying in the Practice: Are YOU Guilty?

Your practice can operate most successfully when team moral, productivity and customer service are all being positively reinforced and when employees respect one another, have a great rapport, and work well together. Unfortunately, when inappropriate behavior, disrespect, derogatory comments or gossip is allowed in the environment, significant consequences to the veterinary practice can occur, as well as a potential increase for legal liability. Attendees will identify what bullying looks like in the veterinary setting and walk away with tools to prevent it from occurring.

Heather Prendergast has spent over 25 years in small animal practice, has taught several years for both veterinary technology and assistance programs, and has authored the book “Front Office Management for the Veterinary Team”. Heather has lectured for several local, state and national organizations and has authored several articles and participated in published roundtable discussions with the goal of increasing nutritional awareness, client compliance and communication within the veterinary practice. Currently, Heather provides consulting services for veterinary hospitals and is an instructor for Patterson Veterinary University and VetMedTeam. Heather serves on several advisory committees, including the Pet Nutrition Alliance Committee, the Fear Free Advisory Board and most recently was appointed Program Chair of the Technician Program at the North American Veterinary Conference. In addition, Heather was named the 2014 Veterinary Technician of the Year, and Western Veterinary Conference 2016 Speaker of the Year.

Friday, February 24, 2017
Room: Lakeshore B
Presenters: Ms. Heather Prendergast
Moderator: Dr. Paul Jensen

9:00 am – 10:15 am  
HR: Developing the Success of Your Team

Human Resources is not just about law and how it applies to the veterinary profession. It expands far beyond, and is the basic building block of the veterinary team. Attendees will learn how simple documents such as job descriptions, employee manuals, mission, vision and value statements help build a long term, successful team.

10:45 – 12:00 pm  
Cultivating Positive Experiences thru Personality

Positive team member communication is vital to the success of the practice. Team member communication not only affects one another, it also affects the clients and patients. Often, this communication tree is broken by personality ‘clashes and struggles’. Understanding personalities and how they can work together will not only enhance team moral and decrease employee turnover, it will also increase client compliance, trust and retention.

Heather Prendergast, RVT, CVPM, SPHR  
h.prendergast@synergie-LLC.com  
Heather Prendergast has spent over 25 years in small animal practice, has taught several years for both veterinary technology and assistance programs, and has authored the book “Front Office Management for the Veterinary Team”. Heather has lectured for several local, state and national organizations and has authored several articles and participated in published roundtable discussions with the goal of increasing nutritional awareness, client compliance and communication within the veterinary practice. Currently, Heather provides consulting services for veterinary hospitals and is an instructor for Patterson Veterinary University and VetMedTeam. Heather serves on several advisory committees, including the Pet Nutrition Alliance Committee, the Fear Free Advisory Board and most recently was appointed Program Chair of the Technician Program at the North American Veterinary Conference. In addition, Heather was named the 2014 Veterinary Technician of the Year, and Western Veterinary Conference 2016 Speaker of the Year.
2:00 pm – 3:15 pm
How is YOUR Team Really Marketing your Practice?
The practice can spend thousands of dollars marketing the hospital each year through web page design, newspaper ads, telephone books ads, whatever the choice may be to get the word out. However, your team is the biggest, most diverse, and most influential marketing campaign you’ve got. They could be doing a great job or not. Your practice is always marketing, whether it is intentional or not.

3:45 pm – 5:00 pm
It Could be You: Protect Yourself from Fraud and Embezzlement
No one hires a thief; however, fraud and embezzlement occur in small businesses everyday. Participants will gain an understanding of when and how embezzlement occurs, and will leave with tools needed to decrease risk in the practice.

Heather Prendergast, RVT, CVPM, SPHR
please see page 12

Saturday, February 24, 2017
Room: Lakeshore B
Presenters: Dr. Tony Bartels
Moderator: Dr. Anna Ruelle

9:00 am – 10:15 am
Climbing Mt. Debt: Understanding Your Loan Repayment Options
Navigating and objectively assessing the rapidly evolving student loan repayment options in the era of income-driven repayment (IBR, PAYE, REPAYE) can be a challenge and significant source of stress for the busy veterinary practitioner. This first session will describe how you can use your student loan borrowing history, debt-to-income ratio, and family circumstances to choose the repayment plan that works best for you and your family.

10:45 am – 12:00 pm
Climbing Mt. Debt: Integrating Income-Driven Repayment into a Personal Financial Wellness Plan
Navigating and evaluating income-driven loan repayment options (IBR, PAYE, REPAYE) can cause significant financial and tax confusion. Building on Climbing Mt. Debt, Session 1, we will discuss student loan “forgiveness,” income taxes, debt-to-income ratios, and compare income-driven repayment against traditional and private loan refinancing options. Session 2 will conclude with strategies to integrate student loan repayment into a strong financial wellness plan.

Tony Bartels, DVM, MBA
800-846-0028 ext. 192 | tonyb@vin.com

Tony Bartels is a 2012 Colorado State University graduate from their combined MBA/DVM program and employee of the Veterinary Information Network (VIN). He and his wife, a small animal internal medicine specialist practicing in Denver, have more than $400,000 of veterinary school debt they manage using the federal income-driven repayment plans. By necessity (and now obsession), his professional activities and interests include researching and speaking on veterinary student debt, providing guidance to colleagues on loan repayment strategies, contributing to VIN Foundation initiatives, as well as small and exotic animal practice. When he’s not staring holes into his colleague’s student loan data, he enjoys fly fishing, ice hockey, camping and exploring Colorado with his wife Audra, and their two rescued canines, Herbie and Addi.

2:00 pm- 3:15 pm
Alternative Business Models for Veterinary Practices
Presenter: Dr. Michael Dicks
Veterinary practices focus too much on profitability rather than return on investment and are missing enormous revenue potential. This session will walk through the steps to take in your practice to understand the relationship between earns and turns with your products and services to help you increase the returns on your investment.

3:30 pm – 4:45 pm
Job Interviews and Evaluations: Battles or Celebrations
Setting expectations with potential or current employees is critical for a healthy practice culture. This session will provide a tool for practice owners/managers and associates to set expectations to eliminate conflict during performance reviews.

Michael Dicks, PhD
please see page 27

PUBLIC HEALTH
Saturday, February 25, 2017
Room: Lakeshore C
Moderators: Drs. Larissa Minicucci & Stacey Holzbauer

9:00 am – 9:30 am
Antimicrobial Stewardship
Presenter: Dr. Amanda Beaudoin
Antibiotic resistance (AR) is one of the greatest public health concerns of our time, eliciting global attention. AR is driven by antibiotic use, horizontal transmission of resistance genes, and acquisition of resistant bacteria. All health sectors—human, animal, and environmental—must work to combat AR. One key approach is optimization of antibiotic use, a practice referred to as “antibiotic stewardship”.

Amanda Beaudoin, DVM, PhD, DACVPM
651-201-5603 | Amanda.beaudoin@state.mn.us

Dr. Beaudoin is Director of One Health Antibiotic Stewardship at Minnesota Department of Health. Amanda works with stakeholders of the state’s One Health Antibiotic Stewardship Collaborative to advance antibiotic resistance and stewardship activities in human, animal and environmental health, and agriculture. She holds a Doctor of Veterinary Medicine degree from Cornell University, a PhD in veterinary epidemiology from the University of Minnesota, and board certification by the American College of Veterinary Preventive Medicine. Amanda has worked in equine and small animal clinical practice and conducted research on influenza in swine, poultry, and human populations. Amanda previously worked for the Centers for Disease Control and Prevention, where she was active in many facets of human public health practice, including outbreak investigation and response to foodborne, zoonotic, and healthcare-associated infections, providing infection prevention and control support to healthcare facilities, and assisting foreign governments with antibiotic resistance surveillance.

9:30 am – 10:00 am
Stewardship in Human Medicine
Presenter: Dr. Jonathan Sellman
Continued emergence of antibiotic resistance has led to an increased focus on antibiotic stewardship across the fields of veterinary and human medicine. Antibiotics are a resource held in common, in the sense described in Garrett Hardin’s landmark essay, The Tragedy of the Commons. How can we harness social and economic forces to our advantage in protecting this resource for future use? What have been the challenges, successes, and failures in encouraging and enforcing prudent antimicrobial use in human medicine? And how might these efforts function, or not, in veterinary settings?
Jonathan Sellman, MD
651-254-7400
jonathan.s.sellman@healthpartners.com

Dr. Sellman is an infectious diseases consultant at HealthPartners Medical Group and Clinical Scholar Assistant Professor in the Department of Medicine at the University of Minnesota. He has a strong interest in One Health epidemiology, research, and practice, working collaboratively across disciplines with the aim of improving the health of people, animals and the environment. He has a passion for teaching in non-clinical and clinical settings. He has an interest in zoonotic infections, tickborne disease, agricultural medicine, and environmental toxicology. Outside of work, he enjoys prairie habitat restoration on a former farm, exploring the outdoors and trying to avoid (sometimes unsuccessfully) the infections he treats.

10:30 am – 11:00 am  
Stewardship in Companion Animal Medicine  
Presenter: Dr. Jeff Bender

Companion animal practice has not been immune to the global challenge of antibiotic resistance. Within the past decade many veterinary practitioners, now observe patients with multidrug-resistant Escherichia coli, Klebsiella sp., and Staphylococcus infections, including the emergent methicillin-resistant Staphylococcus pseudintermedius (MRSP). As individual companion animal practitioners, we need to be aware and encourage the practice of antimicrobial stewardship principles.

Jeff Bender, DVM, MS, DACVPVM
612-625-6203 | bende002@umn.edu

Dr. Jeff Bender is a Professor of Veterinary Public Health in the College of Veterinary Medicine and the School of Public Health and the former Director for the Center for Animal Health and Food Safety (CAHFS), a Center focused on emerging issues that impact both animal and human health. In addition, he is a Co-Director for the NIOSH funded Upper Midwest Agriculture Safety and Health Center (UMASH), a Center focused on improving the health of agriculture workers and their families. He serves or served on several National Committees related to public health. He is the Hospital Epidemiologist for the University of Minnesota, Veterinary Medical Center and recently served as the Chair for the AVMA committee on antimicrobial stewardship for companion animals. His primary teaching and research interests include infection prevention, disease surveillance, emerging zoonotic diseases, occupational safety, food safety and antimicrobial resistance.

11:00 am – 11:30 am  
Stewardship in Large Animal  
Presenter: Timothy J. Goldsmith

Presentation on the efforts related to Antimicrobial Stewardship ongoing in Livestock and Food Animal Production.

Timothy J. Goldsmith DVM, MPH, Dipl. ACVPM
gold0188@umn.edu

Dr. Timothy J. Goldsmith has been a faculty member at the University of Minnesota, College of Veterinary Medicine since 2008 and is currently an Assistant Professor and Co-Director of the Veterinary Public Health and Preventive Medicine Residency Program within the Center for Animal Health and Food Safety. He is board certified in the American College of Veterinary Preventative Medicine. Professional experience prior to his current position was as a private practice food animal veterinarian. Current research and academic interest is related to topics in the areas of food safety, food security, livestock production systems and emergency response planning. Major research effort has been placed on emergency response planning in the area of business continuity and development of secure food supply plans. In addition, Dr. Goldsmith focuses on the development and teaching of programs for veterinary students in the area of beef cattle production medicine and management, along with providing outreach and education to producers throughout Minnesota.

2:00 pm – 3:15pm  
Vectorborne Diseases  
Presenter: Ms. Elizabeth Schiffman

Although arboviral diseases are fairly common in humans and animals, they don’t always attract a lot of attention unless there is a major outbreak. Infections can cause mild, severe, or no illness at all, and diagnostics are often a challenge. This presentation will discuss the risks for and prevention of arboviruses like West Nile and Zika, including seasonality of disease, as well as diagnostic testing recommendations.

Elizabeth Schiffman, MPH, MA
651-201-5077 | Elizabeth.schiffman@state.mn.us

Elizabeth is a senior epidemiologist with the vectorborne disease program at the Minnesota Department of Health, and has been working on vectorborne diseases in Minnesota since 2011. She coordinates human disease surveillance activities for both tickborne and mosquito-borne diseases in Minnesota, and works on a variety of studies and special projects regarding the ecology and epidemiology of vectorborne diseases in the Upper Midwest. Despite spending most of her time in the office, Elizabeth enjoys getting out into the field every season to see what's really going on around Minnesota, and is especially interested in emerging and travel-associated vectorborne diseases, GIS mapping, and anything involving parasites.

3:30 pm – 4:45 pm  
Chronic Wasting Disease and Seneca Valley Virus  
Presenters: Drs. Paul Anderson, Erik Hildebrand & Gregory Suskovic

During this session there will be a(n): 1) review the status of current cases of Chronic Wasting Disease (CWD) in Minnesota farmed deer herds; 2) update on the current Senecavirus A situation in Minnesota; 3) discuss about investigation procedures and description of how a diagnosis is made.

Paul Anderson, DVM, MS
651-328-2533 | paul.l.anderson@state.mn.us

Dr. Anderson earned his DVM degree from Iowa State University in 1975. He spent 11 years in mixed animal practice in Minnesota and Iowa. In 1988, he earned a Master’s degree in veterinary medicine from the University of Minnesota with an emphasis on epidemiology and public health. He joined the Minnesota Board of Animal Health in 1990. Dr. Anderson currently directs programs for dogs and cats, horses and farmed deer and elk.

Erik Hildebrand
Erik.hildebrand@state.mn.us

Mr. Hildebrand is a Wildlife Health Specialist for the Minnesota Department of Natural Resources.

Gregory Suskovic, DVM
651-238-2503 | greg.suskovic@state.mn.us

Dr. Suskovic is a 1984 graduate of the University of Minnesota’s College of Veterinary Medicine. He practiced in Madelia, MN for 6 years (General Practice). Dr. Suskovic has worked for the MN Board of Animal Health for over 27 years, first as a district veterinarian for 26 years. Currently, he is the senior veterinarian in charge of emergency planning for the MNBAH. Dr. Suskovic is a Foreign Animal Disease Diagnostican, and the field coordinator for FAD Investigation in MN. He has a strong interest in pathology and poultry production medicine.
SMALL RUMINANT
Thursday, February 23, 2017
Room: Lakeshore A
Presenter: Dr. R. Greg Stewart
Moderator: Dr. Cindy Wolf

9:00 am – 10:15 am
Raising and Managing Guardian Dogs for Sheep and Goat Production
For extensive production sheep and goat systems predator protection is required. This presentation will discuss 28 years of first-hand experience with protection strategies gleaned from personal flock use and from experience with producers in nine states over that time period. Breeds of guardian dogs and camelid use will be discussed.

10:45 am - 12:00 pm
Extensive Sheep Production Experience Leading to the Development of a Strain of Breeding Stock Suited to a Specific Environment
Internal and external parasites and fly strike are challenges for sheep production in the subtropical regions of the world. (As defined by Wikipedia-a humid subtropical climate is a zone characterized by summers that are hot and very humid. The winters are mild to cool. These typically lie in the southeastern side of the continents between latitude 25-40 degrees. Tending to be coastal or near coastal.) The typical flock problems are barber pole worm infestations, lice, and foot bacterial infections. Ability to graze in high heat index climes is critical for adequate growth rate. Bacterial processing contamination can be an issue in wool sheep in these regions. Our work has the focus of using an improved Hairsheep breed bred for optimal lamb meat production in subtropical regions with minimal veterinary inputs.

R. Greg Stewart, DVM, MS, PhD

Dr. Stewart graduated from the University of Georgia with his DVM degree a PhD in Medical Microbiology. Dr. Stewart has owned and operated Southern Veterinary Services, Inc. since 1988. His entire thirty-three-year career has served the food animal and small ruminant sectors of veterinary medicine. Along with Dr. Stan Bychawski, his collaborator for 17 years, SVS Inc provides concierge herd health and reproductive services to producers of whitetail deer, elk, mule deer, and sheep and goats in ten states. This practice pioneered the concept of the mobile hospital in small ruminant theriogenology; pioneered and refined embryo transfer in whitetails, and has served the industry through laparoscopic and cervical artificial insemination, semen collection and freezing and herd health for many years.

He has detailed experience with infectious disease management, vaccine production, and genetics in the international community of veterinary medicine. He freely gives of his professional time to serve the industry with contributions of presentations, articles of interest and has given considerable time to “straight talk” about CWD. Dr. Stewart raises hair sheep with his wife and two children, Dr. Stewart and family serve others at the Lord’s direction.

2:00 pm – 2:20 pm
Review of Results of the MN OPP Eradication Trial
Presenter: Dr. Holly Neaton
A brief overview of findings during the past 3 years of the MN OPP Eradication Trial that has been a collaboration between the Minnesota Lamb and Wool Producers, OPP Concerned Sheep Breeders Society, MN Board of Animal Health, USDA and the MN Veterinary Diagnostic Laboratory. Includes information on the new Elitest ELISA and genetic connection to susceptibility and clinical signs.

Holly Neaton, DVM
hjneaton@gmail.com

Farming with my husband (Neaton Animal Sourcing LLC), we have provided sheep, calves and goats for preclinical medical device studies for the past 17 years. Due to the need for optimum health in these animals I have been a champion for eradicating disease from sheep flocks. The OPP Concerned Sheep Society, MN Lamb and Wool Producers, USDA, MN BAH and MN VDL have worked together in a 4-year trial using new research to eradicate OPP virus from volunteer MN flocks.

2:20 pm – 3:15 pm
Managing Parasites in High Rainfall and High Temperature Climes
Presenter: Dr. R. Greg Stewart
Small ruminant parasites present a challenge to the shepherd in the tropics. The management of class of anthelmintic choice, potential rotation benefits, rainfall drainage in paddocks, planting choices, Refugia, and genetics all play an important role in the efficiency of performance. Each subject will be discussed as it has been evaluated and honed into an overall strategy for sheep production in the latitudes from 22.5 degrees to 38 degrees north and south.

3:45 pm – 5:00 pm
Managing Rumen Function in Small Ruminants with Emphasis of Mineral Nutrition and Wellness
After three decades in production animal medicine it has become obvious that if an animal is adequately managed and nourished that three areas are optimized. These are overall increases in wellness and welfare, in productivity, and decreased drug and nutrition costs. Each small ruminant animal has a unique “design” that is dictated by its gastrointestinal function and nutritional requirements. To optimize wellness and performance the shepherd must understand that design and find ways to allow for the matching of gastrointestinal function, nutritional inputs, grazing systems and stress free management systems. A system for optimizing micromineral nutrition used in our practice will be discussed.

SMALL ANIMAL I
Cutting Edge
Thursday, February 23, 2017
Room: Greenway D-G
Sponsor: Academy of Veterinary Medical Practice
Moderator: Dr. Teresa Hershey

9:00 am – 9:55 am
Practical Applications to Antibiotic Use Guidelines
Presenters: Drs. Jennifer Granick, Jody Lulich & Sheila Torres
Global concern over antimicrobial resistance has resulted in several recent guidelines for antibiotic use in common companion animal infections. This talk will walk through the practical use, as well as limitations, of these recent guidelines. Specific cases will be presented by dermatology and internal medicine clinicians to highlight the most salient aspects of the antibiotic guidelines.

Jennifer Granick, D.V.M., Ph.D., Diplomate ACVIM
612-62-8367 | gran003@umn.edu

Dr. Granick is an assistant professor of small animal internal medicine at the University of Minnesota College of Veterinary Medicine. She received her D.V.M. from the University of Wisconsin and completed a one-year rotating small animal internship at the University of Minnesota. After a year in private general practice, she returned to the University of Minnesota to complete a small animal internal medicine residency and became boarded in internal medicine in 2008. She received a Ph.D. in Comparative Pathology from the University of California, Davis, where her dissertation was focused on the novel innate immune response of hematopoietic stem and progenitor cells at the site of a cutaneous Staphylococcus aureus infection. Her current research focuses on two areas; the use of a novel non-antibiotic therapy to treat methicillin-resistant S. aureus-infected skin wounds, and clinical antibiotic use and antimicrobial stewardship. Her clinical interests include infectious diseases, especially zoonotic diseases, and antimicrobial stewardship. She is a member of the Minnesota One Health Antimicrobial Stewardship Collaborative.
Contributions to Science and Education

Dermatology Award for Excellence for Outstanding

Dr. Torres received the American College of Veterinary

Dr. Torres has

After vet school, she was in private practice for 4

He specializes in nephrology and urology, and has earned an international reputation as a clinical investigator and educator in this field. Among his contributions to veterinary medicine is the technique of voiding urohydropropulsion, a nonsurgical method to remove uroliths from the urinary bladder. In 2007, he was voted as Speaker of The Year at the North American Veterinary Conference held in Orlando, Florida. He was awarded the Norden-Pfizer-Zoetis Distinguished Teacher Award in 2001 & 2013. Dr. Lulich currently holds the endowed Hills/Osborne Chair in Nephrology and Urology at the University of Minnesota.

Dr. Jody Lulich currently 

Dr. Brine is a 1997 graduate of the University of Minnesota College of Veterinary Medicine. After several years in private practice, Dr. Brine completed a residency in Veterinary Dentistry at the University of Illinois College of Veterinary Medicine. In 1997, and became a board-certified veterinary dental specialist in 2000. From 1999-2005, she was an Adjunct Assistant Professor at the University of Minnesota Veterinary Medical Center. Dr. Brine joined the staff at Animal Emergency & Referral Center of Minnesota as a veterinary dental specialist in 2013, and also provides dental consultation and dental radiology services for national medical research companies.

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Department of Health, Tory spent many years working in various roles in a veterinary clinic. In her spare time, Tory enjoys camping and anything else involving the outdoors as well as spending time with her family and friends including herblack lab, two cats, and 5 turtles.

**2:30 pm – 3:15 pm**
**Chronic Pain Management in Cats**
**Presenter: Dr. Alonzo Guedes**

Chronic pain in cats is a significant clinical problem. Properly assessing and managing chronic painful conditions such as feline osteoarthritis continues to be challenging. In this lecture, we will discuss the current understanding of chronic pain physiology, pain assessment, and analgesic pharmacology relevant to feline patients with chronic pain.

**Alonso Guedes, DMV, MS, PhD, DACVAA**

Dr. Guedes is currently an Associate Professor of Veterinary Anesthesia and Pain Medicine at the University of Minnesota. He was trained as a veterinarian at the University of Santa Maria in Brazil (1994-1999) completed his residency and PhD training (2001-2006) at the University of Minnesota. In 2005, he was the first Brazilian to become board certified by the American College of Veterinary Anesthesia and Analgesia. Dr. Guedes professional goal is to engage in the generation and dissemination of biomedical knowledge to improve the lives of animals and people. His research focus is in the biology of pain involving basic and translational studies. As a clinician, he strives to apply his knowledge and skills as a member of the veterinary team to deliver high quality and efficient patient care. As a clinical educator, he emphasizes critical thinking and the acquisition of life-long skills to prepare future professionals to function effectively and independently.

**3:45 pm – 4:15 pm**
**Got Weed? An Update on Medical Marijuana in MN**
**Presenter: Dr. Ahna Brutlag**

In 2015, medical cannabis became legal in Minnesota. In 2016, sales jumped as the product became approved for chronic pain and 9 more medical indications were proposed for consideration. This lecture will familiarize listeners with the indications for use, dispensing process, available products, the difference between the two active ingredients – THC and CBD – and the potential impacts and risks posed to pets. Note that Dr. Brutlag gave a similar lecture at the 2016 MVMA Convention. This lecture is meant to help veterinarians refresh their memories and learn about what’s new since that point.

**Ahna Brutlag, DVM, MS, DABT, DABVT**

Dr. Ahna Brutlag is a Diplomate of both the American Board of Toxicology (ABT) and the American Board of Veterinary Toxicology (ABVT). She is also the Associate Director of Veterinary Services at Pet Poison Helpline and holds an adjunct assistant professor appointment at the University of Minnesota’s College of Veterinary Medicine. Dr. Brutlag received her veterinary degree from the University of MN and subsequently practiced small animal medicine in the Minneapolis area before pursing post-doctoral training in veterinary toxicology. She has personally consulted on over 20,000 cases involving potentially poisoned pets and has authored dozens of textbook chapters and scientific articles on the subject of small animal toxicology.

**4:15 pm – 5:00 pm**
**Lyme Disease: New Findings in the Variability of OspC in Field Strains**
**Presenter: Dr. Dennis Horter**

This session would discuss findings around the variability of field isolates of OspC in Lyme disease. Clinical impact of these findings would be presented around the effect of these new findings in the pathogenesis, clinical impact, and current treatment/preventative strategies for Lyme disease in clinical practice.

**Dennis Horter, DVM, MS, DABVP, DACVPM, CVPP**

Dr. Dennis Horter is the Director of Professional Veterinary Services for the East Region for Zoetis. He performed his undergraduate studies at South Dakota State University and received his DVM at Iowa State University while concurrently acquiring a Master’s degree in Veterinary Microbiology. He was in a progressive small animal practice in the Minneapolis Metro area for 6 years. His passion for veterinary medicine covers many areas, of particular interest are anesthesia, infectious disease, pain management, immunology, microbiology, preventive medicine and surgery. Dr. Horter received his board certification from the American Board of Veterinary Practitioners in canine and feline practice, is a Certified Veterinary Pain Practitioner as recognized by the International Veterinary Academy of Pain Management and is a boarded diplomate of the American College of Veterinary Preventive Medicine.

**SMALL ANIMAL I**
**Ophthalmology**
**Friday, February 24, 2017**
**Room: Greenway D-G**
**Presenter: Dr. Wendy Townsend**
**Moderator: Dr. Kari Ekenstedt**

**9:00 am – 10:15 am**
**Feline Ophthalmology: Conjunctivitis to Retinal Detachment - Part 1**

Does a kitty with a red eye on the appointment book make you start to sweat? Does the blind cat make you feel a bit nauseous? Would you rather take a beating than try to figure out if a cat has uveitis? If you answered yes to any of these questions, then this 2 part series is for you. We will cover all of the common feline ophthalmic diseases and give you a practical approach to diagnosis and treatment.

**10:45 am – 12:00 pm**
**Feline Ophthalmology: Conjunctivitis to Retinal Detachment - Part 2**

Does a kitty with a red eye on the appointment book make you start to sweat? Does the blind cat make you feel a bit nauseous? Would you rather take a beating than try to figure out if a cat has uveitis? If you answered yes to any of these questions, then this 2 part series is for you. We will cover all of the common feline ophthalmic diseases and give you a practical approach to diagnosis and treatment.

**2:00 pm – 3:15 pm**
**Ophthalmology Pearls - Tips and Tricks to Make Your Life Easier**

Do you ever wonder if eye exams could be easier? If there are ways to make the surgeries go smoother? If there are ways to make the surgeries go smoother? If there are medications you should be using, but maybe aren’t. We’ll cover the tips and tricks of the ophthalmology trade that can make life easier for you and your patients.

**3:45 pm - 5:00 pm**
**Wow, That’s One Nasty Eyeball - How to Figure Out What’s Going on in the Orbit**

Do you feel comfortable with the bulging eyeball? Do you feel comfortable figuring out what might be lurking behind the eye? Do you know what diagnostics you can do in practice? What about treatment options? We will cover all of these topics as we discuss common causes of orbital disease in dogs and cats and a common sense approach to diagnosis and management of these conditions.
### Thursday at a Glance

#### Small Animal I: Cutting Edge
*Sponsored by Academy of Veterinary Practice Greenway D-G*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00-9:55</td>
<td>Practical Applications to Antibiotic Use Guidelines</td>
<td>Dr. Jennifer Granick, Jody Lulich &amp; Sheila Torres</td>
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<tr>
<td>9:55-10:15</td>
<td>New Allergy Treatment Interleukin-31 Monoclonal Antibody Injection</td>
<td>Dr. Melissa Eisenchenk</td>
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#### Small Animal II: Imaging
*Greenway B/CH*

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<tr>
<td>9:00-9:55</td>
<td>Thoracic Radiology: Lung Patterns Made Easy</td>
<td>Dr. Anthony J. Fischetti</td>
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<tr>
<td>9:55-10:15</td>
<td>Avian Radiographic Anatomy and Case Studies</td>
<td>Dr. Natalie Antinoff</td>
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#### Small Animal III: Exotic Avian Regency

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<tr>
<td>9:00-9:55</td>
<td>What is Leadership Fatigue? Do YOU Fit the Picture?</td>
<td>Heather Prendergast, RVT, CVPM</td>
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<tr>
<td>9:55-10:15</td>
<td>Preventing Leadership Fatigue in Managers and Owners</td>
<td>Heather Prendergast, RVT, CVPM</td>
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<td>10:15-10:45</td>
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#### Practice Management
*Lakeshore B*

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#### Small Ruminant
*Lakeshore A*

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#### Swine
*Greenway A*

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<tr>
<td>9:00-9:55</td>
<td>Investigation of M. hyopneumonia Outbreak Using Molecular Characterization Tools</td>
<td>Alysa Anderson</td>
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<tr>
<td>9:55-10:15</td>
<td>Detection Patterns of Mycoplasma hyopneumonia in Self-Replication Gilts</td>
<td>Dr. Karina Ludwig</td>
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<td>10:15-10:45</td>
<td>Break</td>
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#### 10:15 - 10:45 am Break

#### 12:00 pm - Lunch with Exhibitors - Exhibit Hall

#### 3:15 pm - 3:45 pm Break - Visit the Exhibitors

## Additional Thursday Activities

### Veterinary Accreditation Supplemental Training Modules - Skyway A/B

- **Module 5: Vesicular Disease** | 9:00-9:45 am | Dr. Mary Donahue
- **Module 3: Overview of Foreign Animal Program and Reportable Disease** | 10:00-10:45 am | Dr. Karina Burger
- **Module 18: Avian Influenza and Exotic Newcastle Disease** | 11:00-11:45 am | Dr. John Pehr
- **Module 10: Personal Protective Equipment for Veterinarians** | 2:00-2:45 pm | Dr. Steven Just
- **Module 4: Preventing Disease Introduction and Spread** | 3:00-3:45 pm | Dr. Robyn Cocoran
- **Module 7: Foreign Animal Disease Detection in Category 1 Animals** | 4:00-4:45 pm | Dr. Courtney Wheeler

### 3:00 - 4:30 pm Foundation Board Meeting

*Executive Boardroom 4th Floor*

### 5:00 pm - 7:00 pm

- **CVM Alumni Reception**
- **Prairie Kitchen & Bar**
- **Hyatt Regency, Minneapolis**
- **MVMF**
## FRIDAY at a glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 9:00 - 10:15 am | Effective Equine Treatment Begins with Smart Medication Choices  
Dr. Joe Bertone |
|             | Feline Ophthalmology Conjunctivitis to Retinol Detachment-Part I  
Dr. Wendy Townsend |
|             | Caring and Treating the Geriatric Patient  
Dr. Mary Gardner |
|             | Getting to the Heart of the Matter: Collective Wisdom for Acute Treatment of Dyspnea  
Dr. Mandi Kleman |

### 10:15 am - 10:45 am Break - Visit the Exhibitors

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
</table>
|             | Equine Neurology: Interactive Case Discussions  
Dr. Joe Bertone |
|             | Feline Ophthalmology Conjunctivitis to Retinol Detachment-Part II  
Dr. Wendy Townsend |
|             | Palliative Care and Veterinary Hospice  
Dr. Mary Gardner |
|             | Feline Cardiology: Fundamentals and Pearls-Part I  
Mandi Kleman |
|             | Cultivating Positive Experiences Thru Personality  
Heather Prendergast, RVT, CVPM |
|             | Enhancing Feeding Efficiency & Dairy Profitability with TMR Audits  
Dr. Tom Oelberg |

### Lunch - Annual Business Lunch - Nicollet A/B/C (1st Floor)

<table>
<thead>
<tr>
<th>Time</th>
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|             | Equine Lyme Disease Demystified  
Dr. Joe Bertone |
|             | Ophthalmology Pearls – Tips and Tricks to Make your Life Easier  
Dr. Wendy Townsend |
|             | Assessing Quality of Life and Helping the Undecided Client  
Dr. Mary Gardner |
|             | Feline Cardiology: Fundamentals and Pearls-Part 2  
Mandi Kleman |
|             | How is YOUR Team Really Marketing your Practice?  
Heather Prendergast, RVT, CVPM |
|             | Beef Cow Nutrition – She’s Not a Dairy Cow  
Dr. Mark Hilton |

### 3:15 pm - 3:45 pm Break - Visit the Exhibitors

<table>
<thead>
<tr>
<th>Time</th>
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</table>
|             | Tips for Field Diagnosis of Equine Medical Problems  
Dr. Joe Bertone |
|             | Wow, That’s One Nasty Eyeball - How to Figure out What’s Going on in the Orbit  
Dr. Wendy Townsend |
|             | The Art of Euthanasia and What Matters in the End  
Dr. Mary Gardner |
|             | New Tricks for Young Dogs: Diagnosis and Treatment Options for Congenital Heart Disease  
Dr. Mandi Kleman |
|             | It Could be You: Protect Yourself from Fraud and Embezzlement  
Heather Prendergast, RVT, CVPM |
|             | Beef Heifer Development  
Dr. Mark Hilton |

### Additional Friday Activities

- **7:00 - 8:45 am**  
  Revenue Projection 2017: Implementing Forward Booking  
  Nicollet D2  
  Governmental Affairs Committee Breakfast Meeting  
  Nicollet D3

- **7:30 - 8:30 am**  
  Senior Veterinarians Council  
  Dr. David Lee  
  Skyway B

- **9:30 - 11:45 am**  
  Student Session  
  Climbing Mt. Debt: Minimizing Your Borrowing Costs and Navigating Your Repayment Options  
  Dr. Tony Bartels  
  Skyway A/B

- **3:30 - 5:00 pm**  
  Friends of Bill W. Meeting  
  St. Croix

- **5:15 - 6:15 pm**  
  Student Mock Interviews  
  Nicollet D1/D2/D3

- **7:00 - 8:45 am**  
  CVM Prayer Breakfast  
  Nicollet D1

- **7:30 - 8:30 am**  
  Governmental Affairs Committee Breakfast Meeting  
  Nicollet D3

- **9:30 - 11:45 am**  
  Senior Veterinarians Council  
  Dr. David Lee  
  Skyway B

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  Student Session  
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  Dr. Tony Bartels  
  Skyway A/B

- **5:15 - 6:15 pm**  
  Friends of Bill W. Meeting  
  St. Croix

- **5:00 - 7:00 pm**  
  Student Mock Interviews  
  Nicollet D1/D2/D3

- **7:30 pm**  
  MVMF Silent Auction Ends

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**MAGIC OF COMEDY** with Tim Gabrielson  
Laughter is the Best Medicine
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<tbody>
<tr>
<td>9:00 am - 9:30 am</td>
<td>Antimicrobial Stewardship Dr. Amanda Beaudoin</td>
<td>Anesthesia and Endocrine Disease and Electrolyte Problem-Part 1 Dr. Andre Shih</td>
<td>Essential Oils in Veterinary Practice – Introduction Dr. Melissa Shelton</td>
<td>What Looks Like Pyoderma But Isn’t Pyoderma Dr. Alison Diesel</td>
<td>Climbing Mt. Debt: Understanding your Loan Repayment Options Dr. Tony Bartels</td>
<td>Veterinary Food Directive: Now What? Dr. John Hallberg</td>
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<tr>
<td>9:30 am - 10:00 am</td>
<td>Stewardship in Human Medicine Dr. Jonathan Sellman</td>
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<td>10:00 am - 10:30 am</td>
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<tr>
<td>10:45 am - 12:00 pm</td>
<td>Anesthesia and Endocrine Disease and Electrolyte Problem-Part 2 Dr. Andre Shih</td>
<td>Essential Oils in Veterinary Practice – Case Applications Dr. Melissa Shelton</td>
<td>Cutaneous Manifestations of Systemic Diseases Dr. Alison Diesel</td>
<td>Climbing Mt. Debt: Integrating Income-Driven Repayment into a Personal Financial Wellness Plan Dr. Tony Bartels</td>
<td>Update on Medically Important Antimicrobials Dr. Micheal Murphy</td>
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<td>10:30 - 11:00 am</td>
<td>Stewardship in Companion Animal Medicine Dr. Jeff Bender</td>
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<td>11:00 - 11:30 am</td>
<td>Stewardship in Large Animal Medicine Dr. Tim Goldsmith</td>
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<td>11:30 - 12:00 pm</td>
<td>Panel Discussion on Antimicrobial Stewardship - Drs. Sellman, Bender &amp; Goldsmith</td>
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<td>10:45 am - 12:00 pm</td>
<td>Lunch - Animal Awards Lunch with Michael Dicks, Nicollet AB</td>
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<td>2:00 - 3:15 pm</td>
<td>Vectorborne Diseases Elizabeth Schiffman</td>
<td>Anesthesia Complications: How to Fix Stuff in Emergency Dr. Andre Shih</td>
<td>Laser Therapy - Essentials from a Specialist in Practice Dr. Julia Tomlinson</td>
<td>Working up the Pruritic Small Animal Patient Dr. Alison Diesel</td>
<td>Job Interviews and Evaluations: Battles or Celebrations Dr. Michael Dicks</td>
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<tr>
<td>3:15 pm - 4:45 pm</td>
<td>Chronic Wasting Disease and Seneca Valley Virus Drs. Gregory Suskovic, Paul Anderson &amp; Erik Hildebrand</td>
<td>Anesthesia Protocols of Different Case Scenarios Dr. Andre Shih</td>
<td>Treating the Problem at the Source - Regenerative Therapies &amp; More Dr. Julia Tomlinson</td>
<td>Managing Otitis Dr. Alison Diesel</td>
<td>Alternative Business Models for Veterinary Practice Dr. Michael Dicks</td>
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<tr>
<td>3:00 - 3:45 pm</td>
<td>BRDC Pathogens &amp; Antimicrobial Susceptibility Trends Dr. Jeremy Schefers</td>
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<td>4:00 pm - 4:45 pm</td>
<td>Dairy Cows &amp; their Gut Problem Dr. Jeremy Schefers</td>
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<td>4:00 pm - 4:45 pm</td>
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Additional Saturday Activities | Exhibit Hall Closes at 11:00 am

7:30 am - 9:30 am Past Presidents Breakfast Meeting Minnehaha

Please turn in completed passport cards by 12:00 pm to MVMA Registration

Please pick up Silent Auction items at the Registration Area by 3:15 pm

Thank you for coming!
2018 Annual Meeting February 15-17 Mayo Civic Center Rochester
Dr. Townsend joined the Purdue Ophthalmology staff in July of 2010. A native of Lexington, Ky., Dr. Townsend earned her veterinary degree at Auburn University in 1995. She then joined a private mixed-animal practice in western New York State for 3 years before completing a small animal internship and ophthalmology residency at Purdue University. Dr. Townsend was on faculty at Michigan State University from 2003-2010 before returning to Purdue. Dr. Townsend strongly believes in taking a common sense, practical approach to the eye.

### SMALL ANIMAL I

#### Anesthesia

**Saturday, February 25, 2017**

**Room:** Greenway D-G  
**Presenter:** Dr. Andre Shih  
**Moderator:** Dr. Al Balay

**9:00 am – 10:15 am**

**Anesthesia and Endocrine Disease and Electrolyte Problems - Part I**

Endocrine disease can lead to significant electrolyte and biochemical disturbance. In this lecture, we will talk about different anesthetic protocols and different practical ways to stabilize patients with uncontrolled Diabetes Mellitus, Insulinoma, Cushing’s, Addison and Pheochromocytoma that would need surgery.

**10:45 am - 12:00 pm**

**Anesthesia and Endocrine Disease and Electrolyte Problems - Part 2**

**2:00 pm – 3:15 pm**

**Anesthesia Complications: How to Fix Stuff in Emergency**

In this lecture, we will discuss common complications that happens during anesthesia. Like for example severe hypotension, hypoxia, arrhythmias or cardiac vascular collapse.

**3:40 pm – 5:00 pm**

**Anesthesia Protocols of Different Case Scenarios**

This is an interactive lecture where we will talk about several different challenging cases that a veterinary clinic may face. We will talk about chronic renal disease, C section, heart disease, trauma, pneumonia, hemorrhagic shock and more. Different strategies for stabilization and pre-op care will be discussed.

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Dr. Andre Shih graduated in Veterinary Medicine from University of Sao Paulo Brazil in 1999. He moved to the US that year and finished his DVM training at the University of Wisconsin – School of Veterinary Medicine Madison. Upon graduation, he worked as an Emergency and Critical Care veterinarian in Fox Valley Animal Referral Center WI for a couple of year. He completed his anesthesia residency at the University of Florida and is currently there as an Anesthesia-Associate Professor faculty. Certificate in acupuncture. Just finished his Emergency Critical Care Fellowship residency. Board certified by both the American College Veterinary Emergency Critical Care and the American College Veterinary Anesthesia and Analgesia. His area of research includes pre-load monitoring, hypovolemic shock and cardio pulmonary resuscitation.

### SMALL ANIMAL II

#### Imaging

**Thursday, February 23, 2017**

**Room:** Greenway BI/CH  
**Presenter:** Dr. Anthony J. Fischetti  
**Moderator:** Tim Krienke

**9:00 am – 10:15 am**

**Thoracic Radiology: Lung Patterns Made Easy**

The objective of this lecture is to review the radiographic principles of lung disease in dogs and cats. Traditional and non-traditional lung patterns will be briefly described with the intention of underemphasizing their importance to the final diagnosis. Instead, lung disease distribution is the single-most important radiographic determinant of the correct diagnosis.

**10:45 am - 12:00 pm**

**Abdominal Radiology: Making the Call on GI Mechanical Obstructions**

The purpose of this lecture is to illustrate the variable, subtle and not-so-subtle, radiographic manifestations of gastrointestinal mechanical obstructions in dogs and cats. We will first review the rules-of-thumb used to diagnose this surgical emergency. We will focus the rest of the lecture on multiple, rapid-fire radiographic examples of confirmed obstructions.

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Dr. Fischetti is the Department Head of Diagnostic Imaging at the Animal Medical Center in Manhattan. Dr. Fischetti received undergraduate and veterinary degrees from Cornell University, immediately followed by an internship at the University of Pennsylvania, and a 3-year Diagnostic Imaging Residency/Master’s Degree from The Ohio State University. In 2005, Dr. Fischetti returned to New York as staff doctor at Animal Medical Center. Dr. Fischetti’s enthusiasm and expertise span all imaging modalities, including radiology, ultrasound, computed tomography (CT), and magnetic resonance imaging (MRI). He created and oversees the Animal Medical Center’s residency in Veterinary Diagnostic Imaging. In 2015, Dr. Fischetti became an executive council member for the American College of Veterinary Radiology (ACVR). His research interests include effects of image compression on diagnostic accuracy, incorporation of teleradiology into tertiary-care veterinary practices, and cardiac MRI for heart-based tumors and pericardial effusion.

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**Thank You!**

**VETERINARY MEDICAL CENTER**  
**UNIVERSITY OF MINNESOTA**  
**Driven to Discover**

For Sponsoring the Attendee Notepads
Caring for a geriatric pet is very different than a senior pet. Unfortunately, many owners are at a loss and feel helpless during this stage. As a veterinary team we can help manage the myriad of ailments that afflict our aging pets and support the family during this difficult yet precious time with their pet. Understanding how the body changes as pets age is important so that we can educate owners and treat pets appropriately. Doing so earlier in the pet’s life may allow for a longer quality of life and prevent some premature euthanasias.

Assessing the quality of life of a family pet is a delicate balance between managing client emotions, the progression of the disease, and the happiness of the pet. These key issues are not always in harmony and it is the job of the veterinary professional team to manage and balance each party’s interests with the natural developments of biology. Understanding common trends in both people and pets will help veterinary professionals solidify their role as animal advocates, strengthen the human animal bond, and maintain the highest level of client care.

The euthanasia appointment is unparalleled in emotion and sentiment. There are few things in veterinary medicine, or life moreover, that require as many outward displays of empathy, compassion, and commiseration from a doctor. The tone of voice, delivery of words, bedside manner with both patient and client, and the medical procedure itself become a delicate dance around death that doctor and staff should carefully choreograph and continually improve. It is only through this shared solace that the family will feel lovingly connected with your clinic, ensuring an unsurpassed level of client service.

SMALL ANIMAL II
Geriatric
Friday, February 24, 2017
Room: Greenway Bl/CH
Sponsor: CareCredit
Presenter: Dr. Mary Gardner
Moderator: Dr. Rebecca McComas

9:00 am – 10:15 am
Caring and Treating the Geriatric Patient
Caring for a geriatric pet is very different than a senior pet. Unfortunately, many owners are at a loss and feel helpless during this stage. As a veterinary team we can help manage the myriad of ailments that afflict our aging pets and support the family during this difficult yet precious time with their pet. Understanding how the body changes as pets age is important so that we can educate owners and treat pets appropriately. Doing so earlier in the pet’s life may allow for a longer quality of life and prevent some premature euthanasias.

A University of Florida graduate, she discovered her niche by co-founding Lap of Love which is now the nation’s largest organization of veterinarians dedicated to end of life care in the home. With over 90 veterinarians around the country, they are the leaders in end of life care. Dr. Gardner not only is a practicing veterinarian but she is also the company’s Chief Technology Officer and is responsible for the company’s proprietary software, web presence and all internet marketing.

SMALL ANIMAL II
Alternative Medicine
Saturday, February 25, 2017
Room: Greenway Bl/CH
Presenter: Dr. Melissa Shelton
Moderator: Dr. Dawn Bradshaw

10:45 am - 12:00 pm
Palliative Care and Veterinary Hospice
Veterinary hospice care is a unique case approach centered around education, preparation, and support for the pet and the client. Understanding what this service includes and what it does not include will help veterinary professionals solidify their role as animal advocates, strengthen the human animal bond, and maintain the highest level of client care.

2:00 pm- 3:15 pm
Assessing Quality of Life and Helping the Undecided Client
Assessing the quality of life of a family pet is a delicate balance between managing client emotions, the progression of the disease, and the happiness of the pet. These key issues are not always in harmony and it is the job of the veterinary professional team to manage and balance each party’s interests with the natural developments of biology. Understanding common trends in both people and their pets helps better identify their needs, address their concerns, and make a decision that does the “most good” for all involved.

3:45 pm - 5:00 pm
The Art of Euthanasia and What Matters in the End
The euthanasia appointment is unparalleled in emotion and sentiment. There are few things in veterinary medicine, or life moreover, that require as many outward displays of empathy, compassion, and commiseration from a doctor. The tone of voice, delivery of words, bedside manner with both patient and client, and the medical procedure itself become a delicate dance around death that doctor and staff should carefully choreograph and continually improve. It is only through this shared solace that the family will feel lovingly connected with your clinic, ensuring an unsurpassed level of client service.

Mary Gardner, DVM
954-425-2461 | drmary@lapoflove.com
Dr. Gardner loves a grey muzzle! Her professional goal is to increase awareness and medical care for the geriatric veterinary patient and to help make the final life stage to be as peaceful as possible, surrounded with dignity and support for all involved.

A University of Florida graduate, she discovered her niche by co-founding Lap of Love which is now the nation’s largest organization of veterinarians dedicated to end of life care in the home. With over 90 veterinarians around the country, they are the leaders in end of life care. Dr. Gardner not only is a practicing veterinarian but she is also the company’s Chief Technology Officer and is responsible for the company’s proprietary software, web presence and all internet marketing.

3:45 pm - 5:00 pm
Treating the Problem at the Source - Regenerative Therapies & More
This talk focuses on reasons for using direct therapies (into a joint, tendon, muscle, bursa) and the effects of those therapies. Focus will be on intraarticular therapies but other tissues will be mentioned. Are newer regenerative therapies offering anything different to the older approaches of corticosteroids or lubricants? Is there a huge difference of effect between different types of blood products (platelet rich plasma etc) versus stem cells? Are these therapies realistic in clinical practice? Can we use these therapies to prevent as well as treat disease? Clinical applications and experiences will be discussed.

2:00 pm- 3:15 pm
Laser therapy - Essentials from a Specialist in Practice
Presenter: Dr. Julia Tomlinson
Specialist in Practice
This talk aims to take a very practical approach about laser therapy in a clinical setting, it also debunks some of the company myths about efficacy and use of different laser wavelengths and powers. Clinical cases will be presented as well as a logical understanding of how laser therapy is applied and the appropriate settings are selected for treating a certain disease process. The focus of this talk is musculoskeletal disease.

2:00 pm - 3:15 pm
Laser therapy - Essentials from a Specialist in Practice
Presenter: Dr. Julia Tomlinson
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This talk aims to take a very practical approach about laser therapy in a clinical setting, it also debunks some of the company myths about efficacy and use of different laser wavelengths and powers. Clinical cases will be presented as well as a logical understanding of how laser therapy is applied and the appropriate settings are selected for treating a certain disease process. The focus of this talk is musculoskeletal disease.

3:45 pm - 5:00 pm
Treating the Problem at the Source - Regenerative Therapies & More
This talk focuses on reasons for using direct therapies (into a joint, tendon, muscle, bursa) and the effects of those therapies. Focus will be on intraarticular therapies but other tissues will be mentioned. Are newer regenerative therapies offering anything different to the older approaches of corticosteroids or lubricants? Is there a huge difference of effect between different types of blood products (platelet rich plasma etc) versus stem cells? Are these therapies realistic in clinical practice? Can we use these therapies to prevent as well as treat disease? Clinical applications and experiences will be discussed.
Avian Radiographic Anatomy and Case Studies

Avian radiography can be challenging. Unique anatomy, small patient size, and close proximity of the visera to each other make identification of individual organs difficult. Familiarity with normal anatomy is the basis for radiographic interpretation in any species. This presentation will cover radiographic anatomy, and utilize case studies to demonstrate abnormalities and diagnostic tools to improve radiology in your practice.

10:45 am - 12:00 pm
Egg Binding and Reproductive Disorders in Birds

Reproductive disorders are among the most common clinical presentations in birds, and the egg bound bird can become critical very quickly. This session will discuss etiologies and therapeutic strategies for the management of common reproductive disorders seen in clinical practice.

2:00 pm - 3:15 pm
Understanding the Respiratory System in Birds

The avian respiratory system is unique in both its anatomy and physiology. An understanding of avian respiration will aid the practitioner in identifying, diagnosing, and treating disease. This presentation will emphasize respiratory anatomy and physiology as a basis for understanding, diagnosing, and treating disease.

3:45 pm - 5:00 pm
Avian Neurology

The avian neurologic examination is similar to mammalian, but performing the assessment can be challenging. There are anatomic variations within the cranial and peripheral nerves, and understanding these is vital to a comprehensive neurologic exam. This lecture will focus on performing a neurologic exam in birds, as well as some of the more common clinical presentations of neurologic disease.

Dr. Julia Tomlinson earned her Veterinary Degree from the University of Liverpool, England in 1996. Her Masters degree in Diagnostic Imaging of the Equine Sacroiliac Joint is from the University of Minnesota and her PhD in Physiology is from North Carolina State University. She practiced in equine sports medicine and surgery prior to pursuing her interest in the canine field. She is board certified specialist in Veterinary Sports Medicine and Rehabilitation and a Veterinary Spinal Manipulative Therapist.

Dr. Tomlinson owns Twin Cities Animal Rehabilitation and Sports Medicine Clinic in Minnesota, a busy stand-alone practice. She lectures nationally and is a consultant in musculoskeletal wellness for the pet food industry. Dr. Tomlinson is President of the American Association of Rehabilitation Veterinarians (AARV) in 2007 and is a past president of that association. She is also a member of the Canine Sports Medicine Association and the International Veterinary Academy of Pain Management. Dr. Tomlinson has particular interests in lower limb conditions, sports medicine, healthy aging, and management of chronic pain. She spoils her pets excessively, her family a little less...

SMALL ANIMAL III Cardiology
Friday, February 24, 2017

Room: Regency
Sponsor: IDEXX
Presenter: Dr. Mandi Kleman
Moderator: Dr. Melissa Weisman

9:00 am – 10:15 am
Getting to the Heart of the Matter: Collective Wisdom for Acute Treatment of Dyspnea

This session will provide a clinical, stepwise and common sense approach to dyspneic dogs and cats, including treatment and management of acute CHF.

10:45 am – 12:00 pm
Feline Cardiology: Fundamentals and Pearls: Part 1

The first portion of this lecture will discuss the utility of various diagnostics (auscultation, radiographs, ECG, echocardiography, NT-proBNP) to screen, diagnose, and stratify feline heart disease.

2:00 pm – 3:15 pm
Feline Cardiology: Fundamentals and Pearls: Part 2

The second portion of this lecture will provide an update of the currently recommended treatments for feline heart disease and failure via classification guidance.

3:45 pm – 5:00 pm
New Tricks for Young Dogs: Diagnosis and Treatment options for Congenital Heart Disease

An update of current diagnostic and interventional options for dogs with congenital heart disease will be provided.

Mandi Kleman, DVM
mandikleman@gmail.com

Dr. Mandi Kleman received her Doctor of Veterinary Medicine (DVM) degree from the University of Florida and completed an internship in small animal medicine and surgery at the Matthew J. Ryan Veterinary Hospital at the University of Pennsylvania. Dr. Kleman completed her cardiology residency at the University of Florida and became a diplomat of the American College of Veterinary Internal Medicine/Cardiology in 2010. After completing her residency, Dr. Kleman established the cardiology services at Cornell University Veterinary Specialists, in Stamford, CT and Pacific Veterinary...
Specialists in Capitola, CA. Dr. Kleman joined IDEXX Telemedicine Consultants in 2015 and continues to manage a mobile cardiology practice in Atlanta. When not working, she is likely outside running, at the park, or beach hopping.

**SMALL ANIMAL III**

**Dermatology**

**Saturday, February 25, 2017**

**Room:** Regency  
**Sponsor:** Elanco  
**Presenter:** Dr. Alison Diesel  
**Moderator:** Dr. Matt Eberts

**9:00 am – 10:15 am**

**What Looks like Pyoderma But Isn’t Pyoderma?**

Although staphylococcal pyoderma is the most common cause of folliculitis in the dog, other diseases can cause similar clinical signs. This session highlights what may look like a Staph infection, but is rather something else. Recommendations for specific diagnostics are included.

**10:45 am - 12:00 pm**

**Cutaneous Manifestations of Systemic Diseases**

The skin can be a window to the soul... or rather to the rest of the body's organs. This session discusses how a dermatological abnormality may be (the first) sign of systemic illness in our small animal patients. Working up the adult/geriatric dermatological patient will be specifically highlighted.

**2:00 pm - 3:15 pm**

**Working up the Pruritic Small Animal Patient**

Not everything that causes itch is due to underlying allergic skin disease. This session includes a systematic approach to working up the pruritic small animal patient. The session focuses on eliminating parasitic and infectious causes of itch prior to addressing allergies. Management strategies will be briefly discussed.

**3:45 pm - 5:00 pm**

**Managing Otitis**

Otitis is one of the most frustrating problems that veterinarians and clients manage. This session is designed to discuss the approach and strategies to help reduce the headache associated with managing ear disease in small animal patients. Newer products and decision making regarding choosing an appropriate therapeutic will be specifically addressed.

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**SWINE**

**Thursday, February 23, 2017**

**Room:** Nicollet D1  
**Moderator:** Dr. Perle Boyer

**9:00 am – 9:25 am**

**Investigation of *M. hyopneumoniae* Outbreaks Using Molecular Characterization Tools**

**Presenter:** Ms. Alyssa Anderson

Within the swine industry, confirming the negative status of a herd after *M. hyopneumoniae* elimination strategies is difficult. In some cases, clinical disease and *M. hyopneumoniae* detection can be evidenced post-elimination, questioning the success of the program or potential transmission. Through the use of molecular characterization tools, such as p146 sequencing, the comparison of sequences obtained prior to and post-elimination strategies can be performed in order to aid veterinarians in the investigation of *M. hyopneumoniae* activity post-elimination efforts.

**Alyssa Anderson**  
and02573@umn.edu

**9:25 am – 9:50 am**

**Detection Pattern of *Mycoplasma hyopneumoniae* in Self-Replacement Gilts**

**Presenter:** Dr. Karine Ludwig Takeuti

A study describing the *Mycoplasma hyopneumoniae* detection pattern in naturally infected gilts will be presented. Understanding natural infection and detection of *M. hyopneumoniae* in commercial farms is the first step towards proper disease control in the field. Thus, this information will be of significant value to the swine veterinarians dealing with respiratory disease in practice.

**Karine Ludwig Takeuti, DVM**  
ludwi253@umn.edu

**9:50 am – 10:15 am**

**How Can Farm Structure and Demography Influence Pathogen Persistence Within a Herd?**

**Presenter:** Dr. Amy Kinsley

Foot and mouth disease (FMD) is one of the most contagious and economically relevant diseases affecting livestock and is rapidly transmitted between hosts. Typically, FMD models consider farms as the epidemiological unit of analysis, ignoring key characteristics of a farm that may affect livestock and is rapidly transmitted between hosts. Typically, FMD models consider farms as the epidemiological unit of analysis, ignoring key characteristics of a farm that may affect livestock. However, oversimplifying a swine farm's structure and demographic qualities may lead to erroneous conclusions when considering the between-herd spread of FMD.

**Amy Kinsley, DVM**  
carr0603@umn.edu

Amy is a PhD student in the Veterinary Medicine program at the University of Minnesota. She has a DVM from the University of Minnesota and BS in Civil Engineering from the University of Florida. During her years of veterinary school, Amy led research opportunities investigating vector borne diseases in wildlife and livestock. Prior to her...
years in veterinary school. Amy consulted on a variety of land-development projects as an engineering project manager. From this work, she developed an interest in how land development influences environmental and animal health. Amy's PhD research project is aimed at identifying the most cost-effective strategy for controlling a hypothetical FMD epidemic in North Carolina swine farms. For this study, which is primarily funded by the National Pork Board, Amy has been awarded a DHS/CEEZAD fellowship.

10:45 am – 11:10 am
Comparison of Sampling Techniques to Detect and Sequence Influenza A Viruses in Pig Farms
Presenter: Dr. Jorge Garrido Mantilla

Influenza infection in pigs is common, diagnosing influenza virus (IAV) in endemically infected herds could be challenging. Recently, testing of oral fluids has significantly improved the detection of influenza at the herd level. However, obtaining viable viral RNA to sequence has been limited. The objective of this study is to determine the most sensitive and cost-effective sampling method to detect and characterize influenza viruses in swine farms.

Jorge Garrido Mantilla, DVM
garri098@umn.edu

Dr. Jorge Garrido Mantilla is originally from Ibarra - Ecuador. He obtained his DVM in Universidad Central del Ecuador in 2005 and worked in the largest swine production company there as head veterinarian and responsible of the company's diagnostic laboratory. He joined the University of Minnesota in 2015 under the guidance of Dr. Montserrat Torremorell. Jorge's work focuses in understanding the epidemiology and control of swine influenza to figure out methods to eliminate influenza at farms. Creating scientific solutions with field applications for the swine industry in order to maximize productivity is one of Jorge's passions. Currently, Jorge is in the second year of his PhD program.

11:00 am – 12:00 pm
In situ Hybridization for Pathogen Detection: “The PCR on Slides”
Presenter: Dr. Talita Resende

The demonstration of antigens within the lesions is critical to determine the actual contribution of specific pathogens in a disease process. PCR-based techniques have been successfully applied due to the quick process for designing RNA or DNA probes. The new platform for in situ hybridization offers the visualization of the antigen within the tissues and has been relevant to the diagnosis of pathogens in the context of Veterinary Diagnostic.

Talita Resende, DVM
resen023@umn.edu

Experience in Veterinary Medicine, with emphasis on Animal Pathology, mainly on swine diseases. Special recognitions and awards: Best poster award. IPVS, 2016; PIC Fellowship, 2016-2018. CAPES PhD fellowship, 2015-2019.

11:10 am – 11:35 am
Influenza Prevalence at Weaning Determines Infection Dynamics After Weaning
Presenter: Dr. Fabian Chamba Pardo

The presentation will highlight whether influenza levels in piglets at weaning modify influenza detection and transmission after weaning. Additionally, the effect of prevalence at weaning on both sneezing and coughing scores as well as average daily gain in weaned piglets will be shown.

Fabian Chamba Pardo, DVM
chamb376@umn.edu

Dr. Chamba Pardo is a veterinarian from Ecuador. Currently, he is a PhD candidate at the University of Minnesota and working with Dr. Montse Torremorell in the swine group. Dr. Chamba's research focuses on epidemiology and control of influenza in pig populations.

11:35 am – 12:00 pm
VETERINARY PRACTICE PLUS
Thursday, February 23, 2017
Room: Lakeshore C
Moderator: AM – Dr. Lisa McCargar
PM – Dr. Joyce Tesarek

9:00 am – 10:15 am
Compassion Fatigue: Causes, Symptoms, Intervention, Prevention
Presenter: Ms. Colleen Crockford

Compassion fatigue is the emotional and physical distress that occurs to professionals within the helping fields. Compassion fatigue can have detrimental effects on individuals, both professionally and personally, including a decrease in productivity, lack of focus, feeling incompetent, and more. This training will focus on understanding compassion fatigue through and individual and veterinary clinic lens. The causes and symptoms will be examined for self and to identify warning signs in other. Individual and clinic supported Intervention and prevention strategies will be covered.

Colleen Crockford, MSW, LCSW
colleen@crockfordconsulting.com

Colleen Crockford is a Veterinary Social Work Consultant. Veterinary social work occurs at the intersection of veterinary medicine and social work and focuses on providing support, education and resources to the people in relationship with animals.

Colleen specializes in the areas of compassion fatigue, grief & loss, program development and staff development. Colleen has a Master of Social Work degree from the University of Minnesota and is a Board Licensed Independent Clinical Social Worker. She completed specialized training within the veterinary field in the areas of compassion fatigue and grief and loss through the University of Tennessee’s Veterinary Social Work Program; and is a Certified Compassion Fatigue Educator and Therapist through Green Cross Academy of Traumatology. She has over 15 years of experience in the social service fields creating motivated and collaborative teams that understand and support their organizational goals.

10:45 am – 12:00 pm
Animal Cruelty Cases and Link to Human Cruelty
Presenters: Drs. Randall Lockwood and Laura N. Niestat

We review the substantial evidence for a strong connection between animal cruelty and different forms of interpersonal violence, including child abuse, elder abuse and intimate partner violence. Veterinary forensic analysis of the victims of animal cruelty can often play a critical role in building a successful cruelty case and assessing the risks posed by an offender.

Randall Lockwood, PhD
571-225-3463 | randall.lockwood@aspca.org

Randall Lockwood has degrees in psychology and biology from Wesleyan University in Connecticut and a doctorate in psychology from Washington University in St. Louis. He is currently Senior Vice President for Forensic Sciences and Anti-Cruelty Projects at the American Society for the Prevention of Cruelty to Animals. He has testified in many trials involving cruelty to animals or the treatment of animals in the context of other crimes, including dogfighting, child abuse,

...continued on p. 26
domestic violence and homicide. He was a founding Director of the International Veterinary Forensic Sciences Association and is a member of the American Academy of Forensic Sciences. He is a Fellow of the Oxford Center for Animal Ethics and the Denver University Center for Human-Animal Interaction and is Affiliate Assistant Professor in Small Animal Clinical Sciences at the University of Florida College of Veterinary Medicine. He is co-author of Cruelty to Animals and Interpersonal Violence and Forensic Investigation of Animal Cruelty: A Guide for Veterinary and Law Enforcement Professionals, and author of Prosecuting Animal Cruelty Cases and Dogfighting Toolkit: Addressing Dogfighting in Your Community. His most recent book, with Abigail Perdue, is Animal Cruelty and Freedom of Speech: When Worlds Collide.

Laura N. Niestat, DVM, MS
212-876-7700 | laura.niestat@aspca.org

Dr. Laura Niestat is a 2000 graduate of Tufts University School of Veterinary Medicine. In 2016, she received a Master's degree in Veterinary Forensic Medicine from the University of Florida. Dr. Niestat joined the ASPCA as a staff veterinarian in 2009 and began working exclusively with animal cruelty cases in 2013. She joined the forensics team in 2014 and currently works in conjunction with the New York City Police Department providing forensic support for animal cruelty investigations. Since 2014, Dr. Niestat has been the lead forensic veterinarian for over 250 criminal cases involving approximately 800 animals. Prior to coming to the ASPCA, Dr. Niestat served as the Medical Director at the Manhattan Veterinary Group in Manhattan and worked as an emergency and critical care clinician in Boston. Dr. Niestat has delivered lectures and participated in trainings for the NYPD and veterinary professionals in forensic veterinary medicine and recognizing animal abuse.

2:00 pm – 3:15 pm
Pros & Cons of Veterinary Telemedicine
Presenter: Dr. Julia Wilson

Telemedicine for consulting between veterinarians and for ongoing care advice after diagnosis enhance patient care. Is telemedicine providing primary care in the best interest of the animal? Veterinary advice and prescribing are the practice of veterinary medicine, requiring a valid veterinarian-client-patient relationship. VCPR means examination of the patient or herd, a veterinary license, and a medical record. Can that happen electronically?

Julia Wilson, DVM, Diplomate, ACVIM
651-201-2844 | julia.wilson@state.mn.us

Julia Wilson is Executive Director of the Minnesota Board of Veterinary Medicine. She is a member of several MVMA committees: Equine Issues, CE, and Governmental Affairs as well as an ex-officio member of the Board of Directors. Her career includes veterinary faculty positions at the Universities of Florida and Minnesota, racetrack regulatory work, mixed animal practice in Virginia and equine practice in New Hampshire. As an internist, her focus has been equine infectious diseases, gastroenterology and neonatology. She is a past member of the Board of Directors of the AAEP and Heifer International. Julie is co-founder and current president of the Equitarian Initiative, a non-profit that trains veterinarians to provide health care and education for working equids. She leads the Equitarian project in Honduras and is co-organizer of the Equitarian Workshop, held this past January in Costa Rica. Julie is married to equine veterinarian Tracy Turner.

3:45 pm – 5:00 pm
Hot Drug Topics: How They Affect You
Presenter: Dr. Cody Wiberg

Dr. Wiberg will present information concerning pharmacy and drug-related issues that may be of interest to veterinarians. Issues will include compounding, the Minnesota Prescription Monitoring Program, NPI and DEA numbers, and more.

Cody Wiberg, PharmD, MS, RPh
651-201-2825 | cody.wiberg@state.mn.us

Cody Wiberg, the Executive Director of the Minnesota Board of Pharmacy, received a Doctor of Pharmacy from the University of Minnesota in 1985. He has worked as a clinical pharmacist, community pharmacist and nursing home consultant. From 1999, until he joined the Board in September of 2005, he was the Pharmacy Program Manager for the Minnesota Department of Human Services. Dr. Wiberg is a Clinical Assistant Professor for the University of Minnesota College of Pharmacy and an Instructor and Course Director for the University of Florida Graduate School. (From which he received a Master of Science in Pharmacy Policy and Outcomes in 2009). Dr. Wiberg was named to Minnesota Physician's quadrennial list of the state's 651-201-2825 | cody.wiberg@state.mn.us

Cody Wiberg, the Executive Director of the Minnesota Board of Pharmacy, received a Doctor of Pharmacy from the University of Minnesota in 1985. He has worked as a clinical pharmacist, community pharmacist and nursing home consultant. From 1999, until he joined the Board in September of 2005, he was the Pharmacy Program Manager for the Minnesota Department of Human Services. Dr. Wiberg is a Clinical Assistant Professor for the University of Minnesota College of Pharmacy and an Instructor and Course Director for the University of Florida Graduate School. (From which he received a Master of Science in Pharmacy Policy and Outcomes in 2009). Dr. Wiberg was named to Minnesota Physician's quadrennial list of the state's 100 Most Influential Health Care Leaders in 2008, 2012 and 2016.

Saturday, February 25, 2017
Room: Nicollet D2
Sponsor: CEVA, MVMA Supporting Member
Presenter: Dr. I. Craig Prior
Moderator: Mr. Joe Flood

7:30 am – 8:30 am
Heartworm Potpourri 2017 - What’s Changed and What Hasn’t in the Fight Against This Disease

I. Craig Prior, BVSc, CVJ

Dr. Prior is the President of CAPC (Companion Animal Parasite Council) and has studied heartworm disease and other important parasitic diseases of pets for his entire career. He will speak to the research and educational efforts of the American Heartworm Society (AHS) and how the AHS Guidelines are designed to assist the veterinarian in making the best decisions for each patient in the practice. He will present the latest information about the emergence of resistant heartworm isolates; what we know and what we have yet to learn about this troubling aspect of the complex parasitic infection. Dr. Prior will also discuss the best preventive recommendations for clients in heartworm endemic areas of the United States, including new research about measures that target the arthropod vector along with the heartworm itself.
LUNCH SEMINARS
Thursday, February 23, 2017
Room: Nicollet AB
Presenters: Dr. John Howe, AVMA Board of Directors; Dr. Kim Guilbertson, MN SNAP (Spay Neuter Assistance Program); Dr. Susan Miller, Mission Animal Hospital; David Aafedt, Attorney, Winthrop and Weinstine, P.A.
Moderator: Dr. Julie Wilson

1:00 pm – 2:00 pm
Just in Time Lunch Discussion - Challenges and Solutions for Health Care Delivery for Low Income Animal Owners
This session will be educational in learning how some veterinarians have structured their veterinary practices to accommodate a low-cost caseload. An attorney with one of the Twin Cities top law firms will share his experience as a health care attorney working with physicians, dentists and veterinarians, as well as highlight the changes he has seen in how health and veterinary care is being delivered today.

Friday, February 24, 2017
Room: Nicollet AB

12:00 pm – 2:00 pm
MVMA Annual Business Meeting and Awards Luncheon

Take the Nail Out
Michael Dicks, PhD
Saturday, February 25, 2017
12:00 pm – 2:00 pm | Room: Nicollet AB
What are the current major economic problems in the profession and what strategies do we currently have to ameliorate these problems? Starting with Key Performance Indicators (KPIs) for the national markets then moving through the major veterinary markets and ending with the veterinary practice, this presentation provides the current measures of the KPIs, describes what the KPIs should be and the strategies to get there.

The presentation starts with a 2-minute video that implores the audience to identify the problem and then remove it. The role of the economist is to define the problem and provide economic impacts of potential strategies so that the problem can be eliminated. This is the perfect description for the cooperative efforts of AVMA’s Veterinary Economics Division and the veterinary professional in improving the efficiency of the veterinary markets and practice profitability.

Dr. Mike Dicks is currently the AVMA Director of Veterinary Economics. Dr. Dicks was hired in December of 2012 to develop an economics division to improve the veterinary markets and the financial performance of veterinary practices. His division is responsible for data collection and analysis, and outreach activities within AVMA pertaining to the veterinary workforce and veterinary practice profitability. Dr. Dicks has published more than 50 major reports, professional publications and articles on veterinary economics, defining the current status and problems in the veterinary markets and practices. One of his most important contributions has been to develop industry-wide cooperation in the data analytics processes for the pet health industry. Through this effort his team has produced specific KPIs for each market segment of the industry and in April of 2016 an industry-wide summit was held to develop strategies to reduce the Debt-to-Income ratio (DIR) of new veterinary graduates. In 2013, Dr Dicks initiated the annual AVMA Veterinary Economic Summit to provide a summary of the most recent economic research related to the veterinary profession. | mdicks@avma.org

Animal Hall of Fame Awards & Keynote Speaker Michael Dicks, AVMA Director of Veterinary Economics
Saturday, February 25, 2017 | 12:00 pm – 2:00 pm | Room: Nicollet A/B/C

Animal Hall of Fame Inductions - Class of 2016
Don’t miss the Animal Hall of Fame Induction Ceremony! MVMA Companion, Hero and Professional Animal Awards will be presented to these very deserving animals. The Class of 2016 inductees include:

Hero: K-9 Adak is a retired Contract Working Dog (CWD) who worked for over an astonishing 12 years for a private company directly supporting the U.S. State Department and the U.S. Army. K-9 Adak worked as an explosive detection dog protecting U.S. Embassies, Ambassadors, Dignitaries, and other high ranking US Officials in austere environments around the world including Baghdad, Iraq and Kabul. Upon return to the U.S. with his handler, Dan Hughes, K-9 Adak began working for Dogs for Defense, Inc. providing explosives detection services throughout the United States including concerts, entertainment destinations and US Army bases. After his many years of heroic services, K-9 Adak made an astonishing transition from working in war zones to becoming a loving family pet for Dan, his wife and their five children.

Professional: K-9 Azor has worked for the past five-years for the Hennepin County Sheriff’s Office as a dual purpose of Patrol and Narcotic detection dog with his handler, Sergeant Bret Cline. K-9 Azor is a vital part of the Sheriff’s Office having been involved in two officer involved shooting situations where he was deployed to hold the suspect and separate them from their weapon. Each year K-9 Azor and Sgt. Cline attend and must be certify through the USPCA Region K9 standards. K-9 Azor has won two trophies for his performances in the different certification trials.

Companion: Finnegan is a 7-year-old male Golden Retriever therapy dog, owned by Bob and Mary Molenda of Stillwater. He has a special talent for working with kids and handicapped individuals. He was trained and certified by Therapy Dog International where he graduated top dog in his class. Finnie has touched many lives with over 350 hospital visits interspersed with visits to nursing homes and schools. He is also a regular member of the pet therapy team at New Richmond’s Westfield and Hudson Hospitals in Wisconsin.
When your client needs urgent, emergency, or specialty care, look to us. More than 16 specialties and services are offered at our St. Paul location.

Our new Apple Valley location is convenient for south metro clients. In partnership with South Metro Animal Emergency Care, we provide internal medicine and surgery services from specialists Dr. Jenny Cho and Dr. Liz LaFond (A referral-only practice).

**MVMF**

Compassionate, Caring, Professional™

Provide scholarships and educational grants to benefit animal health and ensure the future of Veterinary Medicine.

**The MVMF supports**

- Veterinary students and veterinary technicians with scholarships
- Continuing Education opportunities for Minnesota veterinarians
- Animal Education for the public at the Miracle of Birth Center and Surgery Suite exhibits
- Educational animal programs such as B.A.R.T. and Dog Bite Prevention
- Contribute to youth animal education groups such as 4-H and FFA

**Stop by the MVMF Booth**

Win a $200 Prize!!

**SAVE THE DATES!**

Golf Classic
Thursday, July 27, 2017

Clay Shoot Event
Thursday, September 28, 2017

**Congratulate the 2017 MVMF Scholarship Winners! Announced at the Friday Business Meeting**

The Pet Card Memorial Program benefits your practice and the MVMF while remembering your clients in their time of grief.

**Put your bids in at the Silent Auction and help raise funds for the MVMF!**
Pet Memorial Card Program - HONOR YOUR CLIENT, HONOR THEIR PET

Remembering a client through the grieving process is vital to your continued relations with that client. The MVMF has given considerable thought to helping you deal with client grief and has developed the Pet Memorial Gift Program to help you handle this challenge.

Share Their Grief—Win Their Heart

The Pet Memorial Card Program works to benefit your practice while remembering your clients in their time of grief. The benefits to you include:

- Helps you deal with the difficulty of client grief
- Serves to strengthen the bond you have with the client, making them a client for life.

Testimonials:

"It is with much humility that I try and capture with words how very special the MVMF Pet Memorial card was for me to receive. My beloved 4-legged companion, 'Bella' was diagnosed with lymphoma and after 6 months of treatment, her final day had come. With a heavy heart, our special connection ended. The timeliness and sincere thoughtfulness of this memorial from two dear friends could not have meant more to me at this very difficult time. The card and donation helped me focus on Bella's unconditional love and all my treasured memories of her. For this, I will be forever grateful and comforted.” — Karen Miller

What benefit does your gift provide to the Foundation?

The Pet Memorial Gift Program helps fund all of the Foundation’s efforts, including underwriting the cost of continuing education, educating the public about veterinary medicine. Veterinarian students also benefit from scholarships sponsored by the Foundation.

How does the Pet Memorial Card Program work?

Simply purchase and have on hand Memorial Cards or inserts to put inside existing cards. There is a message indicating your show of concern for their loss and that a donation to the MVMF was made in honor of their pet. Sign the card and send to your client. Anyone who has lost a family member, loved one, or beloved pet may find a memorial gift to be a comforting gesture.

MVMF Pet Memorial Cards For Sale

(Includes blank envelopes and shipping)

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☐ Payment Enclosed Check #________________________ ☐ Please send an Online Payment Invoice

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2017 Upcoming Seminars

MVMA 2017 Seminars
Available for live or webinar attendance

Thursday, April 6, 2017
MVMA Spring Seminar - Helping the Critical Patient Undergo Anesthesia with Dr. Jane Quandt

Friday - Saturday, June 23 –24, 2017
MVMA Summer Seminar in Duluth - Behavior Techniques to Improve Outcomes from the Exam Room to the Living Room with Dr. Chris Pachel (Webinar not available)

Thursday, September 21, 2017
MVMA Academy of Veterinary Medical Practice Seminar - Nutrition Education: Something to Chew On with Dr. Deborah Linder

Thursday, November 9, 2017
MVMA Fall Staff Seminar - Dentistry: Take Your Practice to the Next Level with Dr. John Lewis

To get more information and register seminars, please visit www.mvma.org/upcoming-seminars
Please visit booth #207
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