118th Annual Meeting
United States Animal Health Association
and
57th Annual Conference
American Association of
Veterinary Laboratory Diagnosticians

October 16-22, 2014
Sheraton Crown Center Hotel
Kansas City, Missouri
2014 Officers and Administrative Staff

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Welcome to
USAHA’s 118th Annual Meeting
and
AAVLD’s 57th Annual Conference

ANNOUNCEMENTS

USAHA/AAVLD
Headquarters Hotel
Sheraton Crown Center Hotel
2345 McGee St
Kansas City, MO
Additional Hotel
Westin Crown Center Hotel

REGISTRATION FEES

On-Site Fee Schedule:

- Member Registration: $300.00
- Non-Members Registration: $500.00
- Life Member Registration: $150.00
- One Day Registration: $150.00
- Two Day Registration: $200.00
- Resident or Graduate Student Registration: $125.00
- Veterinary Student Registration: $0.00
- Spouse Registration Fee: $85.00

USAHA 2015 Individual Dues: $150.00
AAVLD 2015 Annual Dues: $200.00
AAVLD 2015 Veterinary, Graduate Student or Resident Dues: $25.00
AAVLD 2015 Associate Dues: $35.00

Registration Schedule:

- Wednesday, October 15, 2014: 3:00-6:00pm
- Thursday, October 16, 2014: 7:00am-6:00pm
- Friday, October 17, 2014: 7:00am-6:00pm
- Saturday, October 18, 2014: 7:00am-5:00pm
- Sunday, October 19, 2014: 7:00am-5:00pm
- Monday, October 20, 2014: 7:30am-5:00pm
- Tuesday, October 21, 2014: 7:30am-5:00pm
- Wednesday, October 22, 2014: 7:30-10:00am

You must register and have a badge to attend meetings.

AAVLD EXHIBITS/POSTERS

Exhibits and Posters – San Francisco
Posters Setup: Friday, October 17 - 12:00pm - 6:00pm
Posters: Saturday, October 18, 9:00 am, until Sunday, October 19, 12:00pm
Exhibitor Setup: Friday, October 17 - 2:00pm-6:00pm
Exhibits: Saturday, October 18 - 9:00am - 6:00pm (refreshments 9:20-10:05am, 11:30am-1:00pm, 3:00-6:00pm)
Exhibits: Sunday, October 19 - 9:15am-12:00pm (refreshments 9:15-10:30am; 11:30AM-1:00PM)

Box lunches for purchase on Saturday and Sunday 11:30am-1:00pm Sheraton Grand Ballroom Foyer

BULLETIN BOARD
The Bulletin Board will be located at Registration on the Terrace. Please check meeting app or the Bulletin Board often for last minute changes in the program, time and location of Committee meetings, personal messages, telephone calls and faxes.

USAHA DISPLAY TABLES
In the Terrace (2nd Floor), Sunday-Wednesday

WORK ROOM
VAN HORN A Thursday through Wednesday, 8:00am-5:00pm

PRESS ROOM and COMMITTEE REPORT READING ROOM
There will be an area set aside in the Work Room to review Committee Reports.

USDA-APHIS-VS WORK ROOM
Penn Valley (Westin Hotel) - Friday-Tuesday

AAVLD Posters

Saturday, October 18, 9:00am-6:00pm
Sunday, October 19, 9:00am-12:00pm
San Francisco Ballroom - Authors present Saturday, 3:00 – 4:00 PM

01 Rapid and Sensitive Diagnosis of Feline Immunodeficiency Virus Using Reverse Transcription-Insulated Isothermal Polymerase Chain Reaction with POCKIT™ System, a Point-of-Need PCR Detection Platform — Rebecca Wilkes, Stephen Kania, Hsiu-Hui Chang, Li-Juan Ma, Yun-Long Tsai, Pei-Yu Lee, Hsiao Fen Grace Chang, Hwa-Tang Thomas Wang
02 † Canine Dysautonomia: Outbreak Investigation in a Litter of Puppies — Noah Hull, Hannah Shoults, Donal O'Toole, Jonathan Fox, Myrna Miller, Gayle C. Johnson, Daniel P. Shaw, Brant Schumaker
03 Development and Validation of a Taqman Multiplex Real-Time PCR for Simultaneous Detection of Major Viral and Bacterial Pathogens Causing Canine Diarrhea — Qing Sun, Richard Hesse, Richard Oberst, T. g. Nagaraja, Gary A. Anderson, Jianfa Bai
04 Susceptibility of Multiple Drug Resistant Bacterial Pathogens to Fosfomycin — Leonie Leduc, Carolyn Guptill-Yoran, Kenitra Hammac
05 #◊ Prevalence and Antibiotic Susceptibility Dynamics of Bacterial Isolates from Canine Skin Infections at a Purdue Veterinary Teaching Hospital (2004-2013) — Shankar Thangamani, Kenitra Hammac, Paulo Gomes
06 § Getting Inside the Identification of Coagulase Positive Staphylococci Frequently Isolated from Companion Animal Clinical Specimens — Charlene Teitzel, Dubraska Diaz-Campos
07 Use of a Commercial Blocking ELISA Test Kit for Detecting Antibodies to Canine Influenza Virus — Matthew Krecic, Jillian Brooks
08 ◊ Determination of Optimal In vitro Drug Ratios of Trimethoprim/Sulfamethoxazole and Trimethoprim/Sulfadiazine Against Equine Pathogens — Carmen Sadaka, Luca Guardabassi, Theofanis Kanellos, Michael Sweeney, Jeffrey Watts
09 Laboratory Diagnosis of Theileria equi Infection in Horses Imported into the Republic of Korea — JuYeon You, Soo Jeong Kye, Moon Jeong Choi, Min Soo Kang, Young Ha Kim, Eun Jin Choi, Jee Woo Lee
10 # Sudden Death Due to Exercise-Related Hemoperitoneum Associated with Idiopathic Mesenteric Hemorrhages in 4 Horses — Federico Giannitti, Asli Mete, Panayiotis Loukopoulos, Rick Arthur, Francisco Uzal
11 § Bovine Coronavirus Antisera Detects Equine Coronavirus in the Intestine of Equids with Equine Coronavirus-Associated Enteritis — Karen Sverlow, Rosa Manalac, Nicola Pusterla, Beate Crossley, James Stanton, Federico Giannitti
12 Necrotizing Enteritis and Hyperammonemic Encephalopathy Associated with Equine Coronavirus in Equids — Federico Giannitti, Santiago Diab, Asli Mete, James Stanton, Langdon Fielding, Beate Crossley, Karen Sverlow, Scott Fish, Samantha Mapes, Liz Scott, Nicola Pusterla
13 Correlation of Corynebacterium pseudotuberculosis Synergistic Hemolysin Inhibition Serologic Test Results with Rhodococcus equi ELISA Results in Equine Samples — Ashley Hill, Michelle Davidson
14 # Bovine Coronavirus-Associated Hemorrhagic Colitis in Two Young Adult Beef Cattle — Heather Herd, Robert Fulton, Jerry Ritchey
Trichomonas foetus Polymerase Chain Reaction: Pooling TF InPouch™ Samples from Bulls — Tamara Golay, Emily Cooper, Mark Payton, Jerry Ritchey

Genotypic Testing for Antimicrobial Resistance Determinants Using Multiplex PCR Assays in Mannheimia hemolytica Isolated from Nebraska Cattle — John Loy, Jamie Bauman, Jonathan Kolman


Wohltahrtirmonas chitiniclastica - A First Report of an Emerging Zoonotic Pathogen in the US — Tuddow Thaiwong, Niesa Kettler, Alam Lim, Heidi Dirkse, Matti Kuipel

Isolation and Identification of Campylobacter fetus subspecies venerealis from an Aborted Fetus and from Preputial Washes of Bulls — Jing Cui, Yan Zhang, Anne Parkinson, Mary Beth Weisner, Beverly Byrum

Recombinant Baculovirus Expression and Immunoreactivity of Schmallenberg Virus Nucleocapsid Protein — Maira Cotton-Caballero, William C. Wilson, Juergen Richt, Bonto Faburay

Evaluation of a Cutoff Change for the IDEXX Mycobacterium paratuberculosis Antibody Test Kit — Valerie Leathers

Sensitivity and Specificity Evaluation of the VetMAX™ MAP Real-Time PCR Reagents on Fecal Samples from USA Cattle — Gilbert Ortiz, Angela Burrell, Catherine O’Connell, Ivan Leyva Baca

Vaccinal Prevention of Reproductive Disease Due to Bovine Viral Diarrhea Virus — Benjamin Newcomer, Paul Walz, M. Daniel Givens, Alan Wilson

A Genome-Wide Association Study for the Incidence of Persistent Bovine Viral Diarrhea Virus Infection in Cattle — Eduardo Casas, Bill Hessman, John Keele, Julia Ridpath

A New Level of Standardization in Real-Time PCR with the IDEXX RealPCR™ BVDV Assays — Martina Kahila, Christoph Egli, Valerie Leathers, Katherine Velek, Lori Plourde, Christian M. Leutenegger, Michael Angelichio

Extended Genetic Characterization of Novel Pestiviruses in the UK — Cynthia Kathir, Anna La Rocca, Akbar Dastjerdi, Christopher Finnegan, Falko Steinbach, Helen Crooke, Rebecca Strong

A Serologic Survey of Bovine Leukosis Virus (BLV), Bovine Viral Diarrhea Virus (BVDV) and Johne’s in Oklahoma/Arkansas Beef Herds — Janisue Jones, Kristin Lenoir, Perla Encarnacion-Astudillo, Grant Rezabek

BVDV isolation from Multivalent Vaccines and Cross Neutralization Antibody Response to BVD Vaccine Viruses and Field Isolates — Curtis Concannon, Richard Hesse, Douglas Mouzin, Elmer Eide, Shollie Falkenberg

A Retrospective Analysis of Mycoplasma bovis Lung Infection in Dairy and Beef Cattle with Pneumonia — Sue Turnquist, Sreekumari Rajeev

Osteoarthritis in a Bovine Abortion Associated with Ureaplasma diversum — Guillermo Rimoldi, Mark Anderson, Kris Clothier

Hoof Sloughing in Beef Cattle Following Transportation: A Preliminary Clinical Report — Bhupinder Bawa, Guy Loneragan, Jamie Henningson, Daniel Thoms

Evaluation of MALDI-TOF as a Tool for Speciation of Mycoplasmas in Selective Broth Culture — Manuel Benitez, G. Kenitra Hammac

The Importance of Continued Prion Research: An Enigmatic Case of Chronic Wasting Disease in a Captive Red Deer (Cervus elaphus) — Marc Schwabenlander, Marie Culhane, S. Mark Hall, Sagam M. Goyal, Paul Anderson, Michelle Carstensen, Scott Wells, William Slade, Anibal G. Armien


New Directions on Caprine Arthritis Encephalitis Virus/Ovine Progressive Pneumonia Virus Serology — Devi Patnayak, Holly Neaton, Judy Lewman, Sagam M. Goyal, James E. Collins

A Multiplexed Fluorometric Immunoassay (MFI) for the Detection of Antibodies to Actinobacillus pleuropneumoniae 1-9-11, 2, 3-6-8-15, 4-7, 5, 10 and 12 — Isabelle Caya, Martine Bertrand, Andre Ch. Broes

Association Between O Serogroups and Pathotypes of Escherichia coli Encoding F18 Subtypes Isolated from Diarrhoeic and Edema Disease piglets in Korea — Jae-Won Byun, Ha-young Kim, Wan-Kyu Lee, Myoung-Heon Lee

A Multiplexed Fluorometric Immunoassay for the detection of antibodies to Porcine Reproductive and Respiratory Syndrome Virus (PRRSV), Swine Influenza Virus (SIV), and Porcine Circovirus(PCV2) — Isabelle Caya, Martine Bertrand, Andre Ch. Broes

Development of an Indirect Enzyme-Linked Immunosorbent Assay (ELISA) for Detection of Antibodies Against Porcine Epidemic Diarrhea Virus (PEDV) — Andre Ch. Broes, Isabelle Caya, Martine Bertrand, Steve Lawson, Eric A. Nelson, Jane Christopher-Hennings

Development and Diagnostic Application of Monoclonal Antibodies Against Porcine Epidemic Diarrhea Virus (PEDV) — Aaron Singrey, Steve Lawson, Faten Okda, Xiaodong Liu, Travis Clement, Julie Nelson, Jane Christopher-Hennings, Eric A. Nelson

Development of a Fluorescent Microsphere Immunoassay (FMIA) and a Blocking ELISA for Detection of Antibodies Against Porcine Epidemic Diarrhea Virus (PEDV) — Steve Lawson, Faten Okda, Xiaodong Liu, Aaron Singrey, Travis Clement, Jane Christopher-Hennings, Eric A. Nelson

Diagnostic Performance of a Commercial PEDV Indirect Fluorescent Antibody Test in 12-Well Glass Slide Platform — Dong Sun, Chungwon Chung, John Johnson, Erin Kalkwarf, Ronaldo Magtoto, Hai Hoang, Darin Madson, Kyoung-Jin Yoon
**Daily Events Wednesday, October 15**

Registration Hours 3:00-6:00pm.

**Daily Events Thursday, October 16**

Registration Hours 7:00am-6:00pm.

AAVLD/NAHLN – Quality Assurance Symposium – 8:00am-5:00pm; Chicago AB.

AAVLD/NAHLN IT meeting – 1:00-5:00pm, Chouteau AB.

AAVLD – Accreditation Committee – 1:00-5:00pm; Empire C. COMMITTEE ONLY.

AAVLD – Strategic Planning Meeting – VET-LIRN – 6:00-8:00pm, Chouteau AB. CLOSED SESSION

**Daily Events Friday, October 17**

Registration Hours 7:00am-6:00pm.
AAVLD – Financial Advisory Committee - 7:00-8:00am; Private Dining Room (Spectators Restaurant). COMMITTEE ONLY.
AAVLD – Publications Committee – 8:00-10:00am; Boardroom.
AAVLD – Mini Bacteriology Symposium – Understanding and effective application of the updated CLSI standards to antimicrobial susceptibility testing and interpretations - 8:00-11:30am; Chicago B.
AAVLD – Laboratory Emergency Management Committee – 8:00am-12:00pm; New York A.
AAVLD – Accreditation Committee – 8:00am-12:00pm; Chicago C. COMMITTEE ONLY.
AAVLD – Parasitology Committee – 8:00am-12:00pm; Empire A.
AAVLD – Informatics Committee – 8:00-5:00pm; Benton AB.
C. L. Davis Diagnostic Pathology Symposium: Diagnostic Pathology of Bovine Diseases – 8:00am-5:50pm; Chouteau AB. (Additional registration fee required see www.aavld.org for link).
AAVLD- Epidemiology Committee – 10:00am – 12:00pm; Chicago A.
AAVLD – LCEM User Group – 11:00am-1:00pm; Northrup.
AAVLD – Subcommittee on Antimicrobial Susceptibility Testing Business Meeting – 11:30am-12:00pm; Chicago B.
USAHA – Executive Committee Luncheon and Meeting – 12:00-5:00pm – Boardroom.
AAVLD – Poster Presentations Set-up — 12:00-6:00pm; San Francisco
AAVLD – Subcommittee on Bacteriology and Mycology – 1:00-2:00pm; Chicago B.
ABVT – Annual Meeting – 1:00-2:00pm; Empire A.
AAVLD – Virology Committee – 1:00-4:00pm; Chicago A.
AAVLD – Quality Assurance Committee – 1:00-5:00pm; New York A.
AAVLD – Executive Board – 1:00-5:00pm; Chicago C.
National Assembly of State Animal Health Officials – Closed - 1:00-3:15pm; Open 3:30-6:00pm; Atlanta A.
AAVLD – Bacteriology Steering Committee - 2:00-3:00pm; Chicago B.
AAVLD/AAVCT - Business Meeting and Case Presentations – 2:00-6:00pm; Empire B.
AAVLD - Exhibitor Setup - 2:00-6:00pm; San Francisco
AAVLD – Enteric Diseases Committee – 3:00-5:30pm; Chicago B.
AAVLD – Laboratory Technology Committee – 4:00-6:00pm; Chicago A.
AAVLD – Editorial Board, Journal of Veterinary Diagnostic Investigation (JVDI) – 4:00-6:00pm; Empire A.
AAVLD – Membership Committee – 4:30-5:15pm; Empire C.
AAVLD – Constitution, Bylaws and Resolutions Committee – 5:00-6:00pm; Northrup.
AAVLD – New Member Orientation – 5:15-6:00pm; Empire C.
AAVLD – Reception and Foundation Auction – 6:00-9:00pm; Century BC (Westin Hotel).

Daily Events Saturday, October 18

Registration Hours 7:00am-5:00pm.

AAVLD – Foundation Committee – 7:00-8:00am; Private Dining Room (Spectators Restaurant).
Mycobacterial Diseases of Animals Multi-State Initiative – 7:00am – 6:00pm, Shawnee Mission (Westin Hotel)
AAVLD – Plenary Scientific Session— 7:45- 11:30am; Chicago ABC.
Co-Moderators: François Elvinger and Thomas J. Baldwin
7:45am Introduction
8:00am Veterinary Molecular Pathology
Bridging the Gap Between Clinical Disease and Molecular Pathogenesis — Matti KiupeL
8:40am Veterinary Laboratory Knowledge Translation and Transfer — Grant Maxie, Hugh Cai, Davor Ojkic, Durda Slavic, Joseph DeLay
9:20am Break (45 min)
10:05am Leveraging Laboratory Data for Animal Health Surveillance — Brian McCluskey
10:45am Veterinary Pharmacovigilance and the Use of Diagnostic Laboratory Data and Services by the Animal Health Industry — Susan M. Strehman

USAHA/AAVLD – Committee on Animal Emergency Management– 8:00am-1:00pm; Century A (Westin Hotel).

Time-Specific Papers
9:45am - FMD Vaccine Surge Capacity for Use in the U.S. - Dr. James Roth
11:10am - The Impact of Movements and Animal Density on Continental Scale Cattle Disease Outbreaks in the United States - Dr. Dan Grear

AAVLD – Exhibits – 9:00am – 6:00pm; San Francisco; Refreshments in Exhibit Hall 9:00-10:30am; 11:30am-1:00pm; 3:00-6:00pm.
AAVLD – Posters – 9:00am-6:00pm San Francisco. Authors Present 3:00-4:00pm.
AAVLD – House of Delegates and General Membership – 11:30am-12:00pm; Chicago A.
AAVLD – LCEM User Group – 11:30am-12:30pm; Empire B.
USAHA/AAVLD – Student Luncheon - 12:00 – 1:30pm; Empire A.
National Assembly of State Animal Health Officials - 1:00-6:00pm; Liberty (Westin Hotel). Closed 12:00-3:00pm; open 3:00-7:00pm.
AAVLD – Toxicology Scientific Session – 1:00-3:00pm; Chicago B.
Co-Moderators: Wilson Rumbeiha and Patricia Talcott

1:00pm A Novel Nephrotic Mycotoxin: Pathology and Etiological Diagnosis — Poojya Anantharam, Elizabeth Whitley, Paula Imerman, Wilson Rumbeiha
1:15pm Phosphorus Toxicosis Following Fireworks Ingestion — Dwayne Schrunk, Dale Miskimins, Steve M. Ensley
1:30pm Hemolytic crisis in Horses from Exposure to Pistacia spp. — Leslie Woods, Kyla Walter, Carly Moore, Rana Bozorgmanesh, Gary Magdesian, Federico Giannitti, Mark L. Anderson, Birgit Puschnner
1:45pm # Intralaboratory Development and Validation of an Analytical Method for Determination of Aflatoxin M1 and B1 in Liver — Dahai Shao, Paula Imerman, Dwayne Schrunk, Steve M. Ensley, Chong Wang, Wilson Rumbeiha
2:00pm # A LC-MS Method for the Analysis of Nitrate and Nitrite in Serum — Karan Agrawal, Theresa Pedersen, John Newman
2:30pm # Comparison of Two Extraction methods for Monensin in Feed by LCMS/MS — Paula Imerman, Dwayne Schrunk, Ray Grover, Wilson Rumbeiha, Steve M. Ensley
2:45pm § The Effect of Foot-and-Mouth Disease Virus Inactivation on the Status of Serum Mineral and Vitamin Concentrations — Dwayne Schrunk

AAVLD – Pathology 1 Scientific Session – 1:00-3:00pm; New York A.
Co-Moderators: Santiago Diab and Kevin Lahmers

1:00pm ♦+++ Use of Iba1 Immunohistochemistry in the Diagnosis of Hepatic Histiocytic Sarcoma in a Dog: A Case for Kupffer Cell Neoplasia? — Kenneth Kim, Rudy Bauer
1:15pm Sudden Death Associated with Pulmonary Hemorrhage in Racehorses in New Mexico: 2010-2014 — John Ragsdale, Norbert Takacs, R. Flint Taylor
1:30pm #† Abortion in a Miniature Donkey Associated with a Gammaherpesvirus Similar to Equid Herpesvirus-7 — Tessa LeCuyer, Dan Bradway, James Evermann, Anette Rink, Tim Baszler, Gary Haldorson
1:45pm Investigation of Serum Amyloid A Levels in Fetal Heart Blood in Aborted Equine Fetuses — Erdal Erol, Carney Jackson, Steve Locke, Naomi Kelly, David Horohov, Craig N. Carter
2:00pm Lesions Associated with Eucolus sp. in the Non-Glandular Stomach of Wild Urban Rats (Rattus norvegicus) — Jamie Rothenburger, Chelsea Himsworth, Manigandan Lejeune, Piper Treutling, Frederick Leighton
2:15pm § Identifying Vaccinal-Type Strains of BoHV-1 in Bovine Abortion Using Single Nucleotide Polymorphisms: 10 Herd Episodes — Donal O’Toole, Myrna Miller, Christopher Chase
2:30pm ** The Effect of Zinc Oxide Nanoparticles (Zno-NPs) and Diet Form (Dry and Moisture) on the Indices of Immune System, Blood Parameters and Gut Morphological of Broilers During Starter Period — Farhad Ahmadi, F. Mohammadi, M. Esfahani, V. Pahlavan, S. Pazhavand
2:45pm ♦ Pathology and Diagnosis of Necrotic Enteritis of Chickens — Carlos Gornatti Churria, Francisco Uzal, Gabriel Senties
Cue, Horacio Shivaprasad

AAVLD – Epidemiology 1 Scientific Session – 1:00-2:45pm; Chicago C.
Co-Moderators: Bruce L. Akey and Belinda Thompson

1:00pm ♦ Outbreak and Elimination of PRRSV from Switzerland in 2012/2013 — Collaboration of Swiss Animal Health Authorities and QIAGEN Leipzig — Nevena Djuranovic, Carsten Schroeder, Christine Gaunitz, Guido Fritsch, Patricia Scheer, Barbara Thur
1:15pm Genotype Prevalence and Mixed-Genotype Infections Revealed by Group A Rotavirus Full-Genome Sequencing in Cattle and Swine — Elizabeth Poulsen, Haixia Li, Barbara Breazeale, Joe Anderson, Qing Sun, Ben Hause, Chester McDowell, Juergen Richt, Gary A. Anderson, Richard Hesse, Jiana Bai
1:30pm Behavioral Aspects of Swine Oral Fluid Sample Collection — Ashley Holmes, Apisit Kittawornrat, Yaowalak Panaying, Christa Goodell, Karthik Subramanyam, Steve Hoff, Chong Wang, Jeff Zimmerman
1:45pm Studies of the Emerging Pestivirus Species Pronghorn Virus; Antigenic Cross Reactivity with other Pestiviruses, Recent Detection in Wildlife and Clinical Presentation in Goats and Deer — Julia Ridpath, Fernando Bauermann, Shollie Falkenberg, John Neill, Peregrine Wolff
2:00pm The Prevalence and Epidemiology of Equine Rhinitis A Virus and Equine Rhinitis B Virus Urine Shedding in Horses. — Steven Grubbs, Robert Keene, Andres Diaz-Mendez, Laurent Viel, John Tuttle, Christian M. Leutenegger
2:15pm Dual Infections with Canine Parvovirus Type 2 (CPV-2) and Dog Circovirus (DCV) in Michigan Dogs — Annabel Wise, Roger K. Maes, Thomas P. Mullaney, Tuddow Thiawong, Matti Kjupel
2:30pm ◊ Point of Need Detection of Canine Respiratory Disease Pathogens on POCKET, a Portable Molecular Detection System — Jessie D. Trujillo, Uri Donnett, Chuan Fu Tsai, Yun-Long Tsai, Pei-Yu Lee, Fu-Chun Lee, Hsiu-Hui Chang, Pin-Hsing Chou, Bor-Huah Chen, Li-Juan Ma, Yu-Han Shen, Hsiao Fen Grace Chang, Thomas Wang

AAVLD – Virology 1 Scientific Session - 1:00-3:00pm; Chicago A.
Co-Moderators: Christie Mayo and Lalitha Peddireddi
Commercial Sponsor: ECL2

1:00pm Rapid Isothermal Detection of Porcine Epidemic Diarrhea Virus (PEDV) RNA — Yogesh Chander, Thomas Schoenfeld, Kyoung-Jin Yoon, Sagar M. Goyal, David Mead

1:15pm # Development and Evaluation of a Colloidal Gold Particles-Based Immunochromatographic Strip for Specific Detection of Porcine Epidemic Diarrhea Virus — Yueun Lang, Xi Li, Dianlei Guo, Fang Fu, Xiangling Wang, Xueyun Zhang, Kunpeng Li, Li Feng, Wenjun Ma

1:30pm § Development and Evaluation of a Duplex Real-Time RT-PCR for Detection and Differentiation of Classical and Variant Strains of Porcine Epidemic Diarrhea Viruses from the United States — Leyi Wang, Yan Zhang, Beverly Byrum

1:45pm ◊ Real-Time RT-PCR comparison to Ensure Accurate Detection of PEDV and TGEV — Douglas Marthaler, Marie Culhane, Kurt D. Rossov, Yin Jiang

2:00pm Kinetics of the Porcine Epidemic Diarrhea Virus (PEDV) Humoral Immune Response (IgM, IgA, and IgG) in Serum and Oral Fluid Specimens from Pigs Infected Under Experimental Conditions — Luis Gimenez-Liola, Hai Hoang, Qi Chen, Dong Sun, Darin Madson, Drew Magstadt, Leslie Bower, Paulo Arruda, Mahesh Bhandari, Jeff Zimmerman, Jianqiang Zhang, Kyoung-Jin Yoon

2:15pm Disease Investigation and Virus Isolation of Porcine Deltacoronavirus — Melinda Jenkins-Moore, Leo Koster, Colleen Bruning-Fann, Montserrat Torremorell, Mary Lea Killian, Steve Tousignant

2:30pm ◊ Detection and Characterization of a Porcine Deltacoronavirus from Pigs with Diarrhea — Yan Zhang, Leyi Wang, Beverly Byrum

2:45pm ◊ Characterization of Genotypically Distinct Enteric and Respiratory Bovine Coronavirus — Alexa Ukena, Joe Anderson, Ben Hause, Elizabeth Poulsen, Richard Hesse

AAVLD – Administrative Management Personnel Committee - 1:00-5:00pm; Empire B.
AAVLD Poster Session (Authors present at posters): 3:00 – 4:00 PM – San Francisco
Applied Animal Health, Public Health Research and Extension Veterinarians Symposium – 3:00-6:00pm; Empire A.
Sponsored by the American Association of Extension Veterinarians
Coordinators: Robert Wills, Mississippi State University and Thomas Hairgrove, Texas A&M University

3:00pm Evaluation of an Interactive workshop designed to teach practical welfare techniques to beef cattle caretakers and decision makers — R. Dewell, Iowa State University

3:20 pm New Method for Extension Needs Assessment and Use in STEC Extension Programming — D.A. Moore, Washington State University

3:40 pm Occupational Safety Survey of Corporate Cattle Feeding Operations in the Western United States — Jeff Sarchet, Zoetis, Decatur, Texas

4:00 pm Dairy Farm Management Practices and Characteristics of Herds Positive for Johne’s Disease and/or Bovine Viral Diarrhea in the Intermountain West — D.J. Wilson, Utah State University

4:20 pm Efficacy of a vaccine and a direct-fed microbial against fecal shedding of Escherichia coli O157:H7 and corresponding impacts on cattle performance in a commercial feedlot — C.A. Cull, Kansas State University

4:40 pm Using Serology to Investigate Reproductive Failure Due to Neospora in Beef Herds — Russ Daly, South Dakota State University

5:00 pm Impact of Foot and Mouth Disease Indirect Transmission Probability and Vaccination on Outbreak Duration, Herds Depopulated and Economic Costs — S.W. McReynolds, Kansas State University

5:20 pm Live Bird Markets, Disease Surveillance and e-Learning — S.C. Trock, Centers for Disease Control and Prevention, Atlanta, GA

5:40 pm Influenza A virus (IAV) surveillance using pre-weaning oral fluid samples — J Zimmerman, Iowa State University

USAHA/AAVLD – Committee on Diagnostic Laboratory and Veterinary Workforce Development – 3:00-7:00pm; Chouteau AB.
AAVLD – Government Relations Committee – 3:30-5:30pm; Benton AB.
AAVLD – Diagnostic Bacteriology Cases – 3:30-5:30pm; Atlanta A.
AAVLD – Diagnostic Pathology Slide Seminar – 3:30-5:45pm; New York A.
USAHA/AAVLD – Committee on Environment and Toxicology and Veterinary Analytical Toxicology & Mycotoxins - 3:30-6:30pm; Chicago C.
AAVLD – Laboratory Safety Committee – 3:30-7:30pm; Chicago B.
AAVLD and NAHNL – Laboratory Directors Committee - 5:30-7:30pm; Chicago A.
AAVLD - Sponsor Seminar: Introduction to the new IDEXX RealPCR™ Modular System 6:00-6:30pm Atlanta A.
USAHA – Committee on Program – 6:00-8:30pm; Empire C.
USAHA – Subcommittee on Trichomoniasis – 6:00 – 8:00pm Empire B
Extension Veterinarians Business Meeting – 6:00-8:00pm; Empire A.
AAVLD Gross Pathology Mock Examination – 6:00-9:00pm; New York A.
Extension Veterinarians Business Meeting – 6:00-10:00pm; Empire A.
American Association of Food Hygiene Veterinarians, Board of Directors - 6:00-10:00pm; Fremont.
AAVLD – USA Lims User Group Meeting – 7:00-8:30pm; Benton AB.
Saturday Night Reception, hosted by IDEXX – 8:00pm – 11:00pm, Century C (Westin Hotel).

Daily Events Sunday, October 19

Registration Hours 7:00am-5:00pm.

Prayer Breakfast – 6:30-8:00am; Empire A.
USAHA – District Breakfast Meeting (NC, NE, S, W, At-Large) – 7:00-8:30am; Empire BC, Sponsored by TraceFirst
AAVLD – Exhibits – 9:15am – 1:00pm; San Francisco. (refreshments in exhibit hall).
AAVLD – Posters – 9:00am-12:00pm; San Francisco
AAVLD – Pathology 2 Scientific Session – 8:00-10:00am; New York A.
Co-Moderators: Kelli Almes and Arthur (Bill) Layton

8:00am ♦ Variant Strain of Porcine Epidemic Diarrhea Virus Caused Mild Histological Lesions in the Small Intestines of Piglets — Yan Zhang, Leyi Wang, Jeffrey R. Hayes, Beverly Byrum
8:15am ♦ Histological Lesions in Piglets Associated with a Swine Deltacoronavirus — Yan Zhang, Leyi Wang, Jeffrey R. Hayes, Craig Sarver, Beverly Byrum
8:30am Treatment-Associated Pathologic Findings in Wisconsin Cattle — Melissa J. Behr
8:45am Descriptive Epidemiology, Gross and Histologic Lesions of Toe-Tip Necrosis in Western Canadian Feedlot Cattle — Lana Gyan, Chad Paetsch, Andrew Allen, Murray Jelinski
9:00am Oak Poisoning in Yearling Cattle — Don Kitchen
9:15am Pathology of Select Organs after Zilpaterol Supplementation and Variation in Select Hematologic and Anatomic Parameters — David Steffen, Ty Schmidt, Steve Jones, Jeff Carroll, Joe Buntyn
9:30am Sodium Toxicity in Neonatal Dairy Calves — Donald Sockett, Melissa J. Behr
9:45am ♦ Hepatogenous Chronic Copper Toxicity in a Charolais Heifer — Benjamin Newcomer, Dwight Wolfe, Manuel Chamorro, Thomas Passler, Kellye Joiner

AAVLD – Bacteriology Scientific Session – 8:00am-12:00pm; Atlanta A.
Co-Moderators: Timothy Frana and Deepanker Tewari

8:00am Isolation of a Novel Campylobacter Species from Bovine Genital Sample — Beth Ange, Molly MacNab, Ogi Okwumabua
8:15am Isolation and Identification of Helicobacter ovis from Bovine Joint Fluid — William H. Fales, Jesse Bowman, Irene Ganjam, Dae Young Kim, Susan Schommer, Michael Calcutt, Thomas Reilly
8:30am A Taqman Multiplex Real-Time PCR for Rapid Detection of Viral and Bacterial Pathogens Associated with Bovine Respiratory Disease Complex — Qing Sun, Ana Rita Rebelo, Lalitha Peddireddi, Richard Hesse, Richard Oberst, Brian Lubbers, Gary A. Anderson, Jianfa Bai
8:45am Development and Evaluation of a Real-Time PCR Assay for Detection of Salmonella Heidelberg from Clinical and Environmental Samples — Kris Clothier, Andrea Torain, Stephen Reinf, Bart Weimer
9:00am ♦ Prevalence, isolation and characterization of E. coli O104 in cattle feces — Pragathi B. Shridhar, Lance Noll, Xiaoong Shi, Natalia Cernichario, Jianfa Bai, David Renter, T. g. Nagaraja
9:15am ** An Improved Primer Set for the Genotyping of Clostridium perfringens — Bayar Saeed, Kenneth Mills, Donal O’Toole, Brant Schumaker, Blédar Bisha, William Laegred
9:30am Break (45 min)
10:15am #† Survey of Respiratory Pathology in Wild Urban Rats (Rattus norvegicus and Rattus rattus) — Jamie Rothenburger, Chelsea Himsworth, Charles Clifford, Piper Treuting, Frederick Leighton
10:30am Minimal Inhibitory Concentration Antimicrobial Susceptibilities of Coagulase Positive Staphylococcus sp. Associated with Canine Pyoderma (2011-2013) — Kristin Ellis, Amy Stevenson, Ian Sweeney, Sara Lanka, Carol Maddox
10:45am Virulence Factors Genes (siet, lukI and lukF) in Staphylococcus Species Isolated from Canine Clinical Specimens — Dubraska Diaz-Campos, Terri Hathcock, Roberto Palomares, Kenny Brock
11:00am Fatalities Caused By Streptococcus dysgalactiae subsp. equisimilis in Horses — Erdal Erol, Robert Gertz, Lynne Cassone, Steve Locke, Carney Jackson, Craig N. Carter, Oktay Genc, Bernard Beall
11:15am ♦ A Novel Avibacterium sp. Causes Mortality in Laying Hens — Darrell Trampel, Sarah Tilley, Timothy Frana, Margie Lee
11:30am Development of a Multiplex PCR Assay for the Identification and Speciation of Pathogenic Vibrionaceae — Seth Nydam, Claire Miller, Kenitra Hammac, Timothy Maddox, Thomas E. Besser, Kevin R. Snekvik
11:45am #† Use of Matrix-Assisted Laser Desorption Ionization Time of Flight Mass Spectrometry (MALDI-TOF MS) for the Speciation of Pathogenic Vibrio in Fish — Claire Miller, Seth Nydam, G. Kenitra Hammac, Timberly Maddox, Thomas E. Besser, Dubaska Diaz-Campos, Kevin R. Snekvik

AVLD – Epidemiology 2 Parasitology Scientific Session – 8:00am-12:00pm; Chicago C.
Co-Moderators: Ashley Hill and Marie Culhane

8:00am Application of MIQE Guidelines for Use in a Veterinary Diagnostic Laboratory PCV2 qPCR — Frederick Sylvia, Kent Doolittle, Jack Gallup, Brian Payne

8:15am Initial Evaluation and Validation of High-Throughput (384-well) Real-Time PCR for Testing Bulk Milk Samples — Beate Crossley, Amy Glaser, Munashe Chigerwe, Michael T. McIntosh, Randall Anderson, Elizabeth Adams, Kathy L. Toohey-Kurth

8:30am ◊ Rapid Detection of Pathogens from Swine Clinical Samples Using a Broad Spectrum Microbial Detection Array — Crystal Jaing, James Thissen, Pam Huling, Nicholas Monday, Raymond Rowland

8:45am ◊ Bioinformatics for Improved Pathogen Detection: Maintenance of the Virotipe® PRRSV RT-PCR Reagents for Improved Accuracy — Nevena Djuranovic, Christine Gaunitz, Carsten Schroeder, Jessie D. Trujillo, Marco Labitzke, Stephen Hennart

9:00am An Empirical Approach to Confidence Intervals of Positive and Negative Values Extrapolated from Case Control Studies — Stéphane Guilloussou

9:15am §◊ Oklahoma Equine Cases Presenting with Clinical Signs of Central Nervous System Disease- 2012-2013 — Kristin Lenoir, Janisue Jones, Perla Encarnacion-Astudillo, Grant Rezabek

9:30am ◊ Salmonella spp. Serotypes Isolated from Drag Swabs at a Veterinary Diagnostic Laboratory and Public Health Implications — Jane Kelly, Kerry Rood

9:45am Break (45 min)

10:30am Retrospective Testing for the Emergence of Porcine Deltaacoronavirus in US Swine at Iowa State University Veterinary Diagnostic Laboratory — Avanti Sinha, Phillip Gauger, Jianqi Zhang, Kyoung-Jin Yoon, Karen Harmon

10:45am † Molecular Epidemiology of Porcine Epidemic Diarrhea Virus in US Swine — Qi Chen, Amy Chriswell, Derek Dunn, Ganwu Li, Avanti Sinha, Karen Harmon, Wendy Stensland, Phillip Gauger, Kyoung-Jin Yoon, Darin Madson, Kent Schwartz, Rodger Main, Jianqiang Zhang

11:00am ◊ Improved Diagnostic Performance of a Commercial Anaplasma Antibody Competitive Enzyme-Linked Immunosorbent Assay Using Recombinant Major Surface Protein 5-Glutathione S-Transferase Fusion Protein as Antigen — Chongwon Chung, Carey Wilson, Chandima-Bandara Bandaranayake-Mudiyanaselage, Eunah Kang, Scott Adams, Lowell Kappmeyer, Donald Knowles, Terry McElwain, James Evermann, Massaro Jeti, Glen Scoles, Stephen Lee, Travis McGuire

11:15am #†◊ Possible Direct Transmission of Histomonas meleagridis in Peafowl. — Lorelei Clarke, Horacio Shivaprasad, Silvia Carnaccini, Robert Beckstead, Daniel Rissi


11:45am Improvements in Tritrichomonas foetus Molecular Diagnostics — Carly Ginter Summerrall, Thomas Hairgrove, Megan Schroeder, Mangkey Bounpheng

AVLD – Virology 2 Scientific Session – 8:00am-12:00pm; Chicago A.
Co-Moderators: Ben Hause and Kristy Pabilonia
Commercial Sponsor: VMRD

8:00am ◊ Enhanced Sensitivity of an Antibody Enzyme-linked Immunosorbent Assay using Equine Arteritis Virus Purified by Anion Exchange Membrane Chromatography — Chongwon Chung, Amanda Grimm, Carey Wilson, Udeni BR Balasuriya, Peter Timoney, Chandima-Bandara Bandaranayake-Mudiyanaselage, Stephen Lee, Travis McGuire

8:15am Evaluation of a Commercially Available Competitive ELISA (cELISA) for the Detection of Antibodies to Equine Arteritis Virus (EAV) — Kristin Pfahl, Chongwon Chung, Jianqi Zhang, Yun Young Go, Juliana Campos, Kathleen Shuck, Amanda Grimm, Ethan Adams, Peter Timoney, Udeni BR Balasuriya

8:30am Evaluation of a Newly Developed Insulated Isothermal RT-PCR Assay and a Real-Time RT-PCR Assay for the Detection of Equine Arteritis Virus Nucleic Acid in Equine Semen — Udeni BR Balasuriya, Ashley Skillman, Kathleen Shuck, Bora Nam, Peter Timoney, Yun-Long Tsai, Li-Juan Ma, Pai-Chun Yang, Hsiu-Hui Chang, Pei-Yu Lee, Hsiao Fen Grace Chang, Hwa-Tang Wang

8:45am Development of a Multiplex Assay to Determine Antibodies to Different Glycoproteins of Equine herpesvirus 1 — Laura Goodman, Heather Freer, Susanna Babasyan, Alícia Rollins, Gillian Perkins, Edward J. Dubovi, Bettina Wagner

9:00am First Diagnosed Case of Vesicular Stomatitis in the United States in 2014 — Melinda Jenkins-Moore, Dawn Toms, Harry Vogt, Mary Lea Killian, Annette Olson, Katherine Mozingo, Angela Pelzel-McCluskey

9:15am Break (45 min)

10:00am ◊ SNP Analysis Used to Select Conserved Regions for an Improved Newcastle Disease Virus Real-time RT-PCR Test — David Suarez, Lauren Marbut
10:15am Detection of H5 and H7 Highly Pathogenic Avian Influenza Virus with Lateral Flow Devices: Performance with Healthy, Sick and Dead Chickens — Erica Spackman, J. Weaver, Sasidhar Malladi

10:30am Characterization of H1N2 Variant Influenza Viruses in Pigs — Jinhwa Lee, Michael Duff, Jingjiao Ma, Qinfang Liu, Yuekun Lang, Bhumipinder Bawa, Jianfa Bai, David Spence, Richard Hesse, Wenjun Ma

10:45am Pathogenicity of Chimere H7N10 Bat Influenza Virus in a Mouse Model — Jinhwa Lee, Bin Zhou, Jingjiao Ma, Qinfang Liu, Wei Wang, Bhumipinder Bawa, Michael Duff, Yuekun Lang, David Wentworth, Juergen Richt, Wenjun Ma

11:00am Updating PCR Assays for Influenza Subtyping — Mia Kim Torchetti, Janice Pedersen, Mary Lea Killian, Nichole Hines, David Suarez

11:15am Characterization of a Novel Influenza Virus in Cattle with Bovine Respiratory Disease — Ben Hause, Emily Collin, Yuekun Lang, Wenjun Ma, Runxia Liu, Feng Li

AAVLD – Virology 3 Scientific Session – 8:00am-12:00pm; Chicago B.
Co-Moderators: Susan Schommer and Jianqiang Zhang
Commercial Sponsor: Biovet

8:00am Simultaneous Detection of African Swine Fever Virus Antibodies in Serum and Oral Fluid Using a Recombinant p30 Antibody ELISA — Luis Gimenez-Lirola, Lina Mur, Belen Rivera, Sergio Lizano, Christa Goodell, Raymond Rowland, Mark Mogler, DL Hank Harris, Carmina Gallardo, Marisa Arias, Jose Manuel Sanchez-Vizzaino, Jeff Zimmerman

8:15am Development and Testing of a Multiplex Molecular Diagnostic Assay for Simultaneous Detection and Differentiation of Multiple Bacterial and Viral Causes of Respiratory Disease in Pigs — Pejman Naraghi-Arani, Jason Olivas, Alda Carrillo, Gary Anderson

8:30am African Swine Fever Virus, Classical Swine Fever Virus, and Foot-and-Mouth Disease Virus Detection By Multiplex Reverse Transcription Quantitative Polymerase Chain Reaction in Swine Oral Fluids — Frederic Grau, Megan Schroeder, Erin Mulhern, Michael T. McIntosh, Mangkey Bounpheng

8:45am Early Post Natal CSFV Infection Can Result in Persistently Infected Piglets — Sara Muñoz, Rosa Rosell, Lester Josue Perez, José Alejandro Bohorquez, Maria Teresa Frias, Lorenzo Fraile, Maria Montoya, Lorena Cordoba, Mariano Domingo, Felix Ehrensperger, Nicolas Ruggli, Artur Summerfield, LLilianne Ganges

9:00am Genetic Variation Observed in BVDV Isolated from 34 Persistently Infected Piglets and BVDV Isolated From Sick and Dead Chickens — Sara Muñoz, Rosa Rosell, Lester Josue Perez, José Alejandro Bohorquez, Maria Teresa Frias, Lorenzo Fraile, Maria Montoya, Lorena Cordoba, Mariano Domingo, Felix Ehrensperger, Nicolas Ruggli, Artur Summerfield, LLilianne Ganges

9:15am One-Step Triplex Real Time RT-PCR Assay for Simultaneous Detection and Differentiation of Three Vesicular Viruses in Swine — Xiju Shi, Qing Sun, Jianfa Bai, Amy Beckley, Jishu Shi

9:30am Break (45 min)


10:30am Detection of BVDV in Cattle Semen- How Common are Persistent Testicular Infections? — Andrew Read, Xingnian Gu, Deborah Finlaison, Peter Kirkland

10:45am Evaluation of Real-Time PCR Assays for the Detection of Viruses in Semen of Livestock — Andrew Read, Xingnian Gu, Deborah Finlaison, Udeni BR Balasuriya, Peter Kirkland

11:00am Rapid and Sensitive Detection of Canine Distemper Virus by One-Tube Reverse Transcription-Insulated Isothermal Polymerase Chain Reaction — Rebecca Wilkes, Fu-Chun Lee, Yun-Long Tsai, Ping-Hua Teng, Pei-Yu Lee, Hsiao Fen Grace Chang, Hwa-Tang Thomas Wang

11:15am The Effect of Coagulant Treatment on the Constituents of Swine Oral Fluid Specimens — Kevin O’Neill, Korakrit Poonsuk, Drew Grosz, Dong Sun, Yaxuan Sun, Dwayne Schrunk, Timothy Ellis, Chong Wang, Timothy Frana, Kyoung-Jin Yoon, Jeff Zimmerman

Food Safety Symposium — 8:00am-12:00pm; Liberty (Westin Hotel).
AAVLD – Administrative Management Personnel Committee — 8:00am-12:00pm; Fremont.
Northeast District Meeting — 9:00-11:30am; Empire A.
North Central District Meeting — 9:00-11:30am; Chouteau A.
Southern District Meeting — 9:00-11:30am; Benton AB.
Western District Meeting — 9:00-11:30am; Chouteau B.
Spouses Brunch — 9:30am-12:00pm; Northrup.
USHA – Committee on Audit — 12:00-1:00pm; Private Dining Room (Spectators Restaurant).
AAVLD - Sponsor Seminar - Customer Perspectives on Successful Utilization of QIAGEN reagents and instruments - 12:00-1:00pm; Benton AB

USHA/AAVLD – Committee on National Animal Health Laboratory Network — 12:00-3:00pm; New York A.
USHA – Committee on Wildlife Diseases — 12:30-5:00pm; Empire BC.
USHA/AAVLD – Committee on Aquaculture — 12:30-5:30pm; Chicago C.
USHA – Committee on Import-Export — 12:30-5:30pm; Chouteau B.
USHA – Committee on Infectious Diseases of Cattle, Bison and Camelids — 12:30-5:30pm; Pershing East (Westin Hotel).
USHA – Committee on Johne’s Disease — 12:30-5:30pm; Empire A.
USAHA – Scientific Advisory Subcommittee on Brucellosis; Subcommittee on Brucellosis in the Greater Yellowstone Area; Feral Swine Subcommittee on Brucellosis and Pseudorabies – 12:30-5:30pm; Chouteau A.  
AAVLD – Pathology Committee – 1:00-3:00pm; Atlanta A.  
APHIS–VS – 1:00-5:30pm: Liberty (Westin Hotel).  
USAHA/AAVLD – Committee on Food and Feed Safety – 1:30-5:30pm; Chicago A.  
AAVLD/NVSL – Proficiency Testing Committee – 3:00-5:00pm; Atlanta A.  
AAVLD – Strategic Planning Committee – 3:00-6:00pm; New York A.  
USAHA/AAVLD – Committee on Animal Health Surveillance and Information Systems – 3:00-6:00pm; Chicago B.  
USAHA District-at-Large Meeting – 4:00 – 5:30pm; Fremont. (Allied Organization Members)  
USAHA – New Member Orientation – 5:00-6:00pm; Benton AB.  
USAHA/AAVLD – Presidents Reception and Dinner 5:30-9:00pm; Sheraton Crown Center Exhibit Hall B.  
Sponsored by Life Technologies and GlobalVetLink.

5:30PM Reception – Cash Bar  
6:30 PM President’s Dinner  
   Presiding – Catherine Barr, AAVLD President and Stephen Crawford, USAHA President  
   Invocation – David Schmitt  
   Dinner  
7:30 PM Memorial Service – Bruce King  
   Recognize Sponsors – Stephen Crawford  
   Sponsors’ Response – Clifford Smith and Jill Greene  
   Welcome to Missouri – Richard Fordyce, Director, Missouri Dept. of Agriculture  
   Response to the Welcome - Invitation to Providence – Scott Marshall  
   USAHA President’s Remarks – Stephen Crawford  
   AAVLD President’s Remarks – Catherine Barr  
   Sponsor Acknowledgement – Stephen Crawford and Catherine Barr  
   USDA-APHIS Administrator’s Award – Kevin Shea  
   AAVLD Awards – Tom McKenna  
      Graduate Student Awards: Best Presentation, Best Poster  
      Best Journal of Veterinary Diagnostic Investigation Paper  
      Lifetime Membership Award  
      E. P. Pope Award  
      Distinguished Service Award  
   USAHA Federal Partnership Award – Stephen Crawford  
   USAHA Medal of Distinction Award – Stephen Crawford  
   National Assembly of State Animal Health Officials Award – Charlie Hatcher

Daily Events Monday, October 20

Registration Hours 7:30am-5:00pm.  
AAVLD – Past Presidents’ Breakfast – 7:00-8:00am; Private Dining Room. (Spectators Restaurant)  
USAHA/AAVLD – Breakfast – 7:00 am, Sponsored by IDEXX – Terrace Area  
USAHA/AAVLD Joint Plenary Session: Achieving Perspectives to Feed the World – 8:00am-12:00pm; Sheraton Crown Center Exhibit Hall B  
Co-Moderators: Bruce King and François Elvinger  
8:00 am - Welcome and Introduction of Topic – Bruce King, USAHA Program co-chair  
8:10 am –What Consumers Expect - Charlie Arnot, Center for Food Integrity  
8:35 am - Meaningful Conversations - Randy Krotz, US Farmers & Ranchers Alliance  
9:00 am - Animal Feed vs Human Food - Jude L. Capper, Livestock Sustainability Consultancy  
9:25 am - Antibiotic Stewardship as a Driver of Legislative, Regulatory, and Consumer Agendas that will Shape the Future of Antibiotic Use in Agriculture - Mike Apley, Kansas State University  
9:50 am - BREAK  
10:20 am - Animal Welfare Landscape: Current Scientific and Consumer Challenges - Candace Croney, Purdue University  
10:45 am - Trends in Food Safety: Public Perception vs. Reality - Richard Raymond, Food Safety/Public Health Consulting  
11:10 am -The New Consumer Value Proposition - David Fikes, Food Marketing Institute  
11:35 am - Panel Discussion/Q&A  
Break – 9:30am; Terrace Area  
Directors of State Meat Inspection – 11:00am-8:00pm; Chouteau B.  
USAHA – Membership Luncheon and Meeting – 12:00-12:30pm; Crown Center Exhibit Hall B Sponsored by Merial

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**Sponsored by Merial**

Presiding – Stephen Crawford
Recognize Sponsor – Stephen Crawford
Sponsor’s Presentation – Steve Parker, Merial
State of the Association – Stephen Crawford
Treasurer’s Report – Annette Jones
Report of the Committee on Nominations – David Marshall
Other Business and Announcements

**AAVLD – House of Delegates** – 12:00-12:45pm; Chicago A.
**USDA-ARS Animal Health Research Review 2014** – 1:00-5:00pm; Empire A.
Moderator: Eileen Thacker, DVM, PhD, DACVM - National Program Leader, Food Safety and Animal Health
USDA-Agricultural Research Service, Beltsville, MD
1:00-1:30pm Overview of US Government Plans to Address Antibiotic Resistance in Farm Animals - Eileen Thacker
1:30-2:15pm Antibiotics and the Swine Intestinal Microbiome - Thad Stanton, PhD, Research Leader, FSEP Unit
USDA-ARS-NADC, Ames, IA
2:15-3:00pm Antimicrobial Resistance Profiles in Pathogens Isolated from Chickens - Rick Meinersmann, VMD, PhD, USDA-ARS-Russell Research Center, Athens, GA
3:00-3:30pm Break
3:30-4:15pm Surveying Antimicrobial Resistance in Dairy Animals on Farm at Slaughter in Pennsylvania - JoAnn Van Kessel, USDA-ARS-BARC, Beltsville, MD
4:15-5:00pm Bacteria Resistant to Antimicrobials Critically Important to Human Medicine in Beef Cattle Production and Processing Environments - John W. Schmidt, PhD, Research Microbiologist, USDA-ARS-U.S. Meat Animal Research Center, Clay Center, NE

**USAHA – Committee on Bluetongue and Related Orbiviruses** – 1:00-6:00pm; Empire C.
**USAHA – Committee on Brucellosis** – 1:00-6:00pm; New York B.
**USAHA – Committee on Infectious Diseases of Horses** – 1:00-6:00pm; New York A.

**Time-Specific Papers**

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1:45pm</td>
<td>Merging Pathogen Surveillance and Research; Stealth Persistence of an Ema Superfamily Variant of <em>Theileria equi</em> - Don Knowles</td>
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<tr>
<td>3:45pm</td>
<td>The Significance of Surra as an Infection in Horses - Peter Timoney</td>
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**USAHA – Committee on International Standards** – 1:00-6:00pm; Empire B.
**USAHA – Committee on Transmissible Diseases of Poultry and Other Avian Species** – 1:00-6:00pm; Chicago BC.
**USAHA – Committee on Transmissible Diseases of Swine** – 1:00-6:00pm; Chicago A.
**USAHA – Committee on Tuberculosis Scientific Advisory Subcommittee** – 1:00-6:00pm; Benton AB.
**USAHA – Subcommittee on Farmed Cervidae** – 1:00-5:00pm Chouteau A
**AAVLD – Committee Chairs and Program Committee** – 1:30-3:30pm; Boardroom
Break – 3:00pm; Terrace Area
**USAHA/AAVLD – Executive Committees** – 3:30-5:00pm; Boardroom.
**National Association of Federal Veterinarians** – 5:30-8:00pm; Empire A.
**USAHA – Board of Directors** – 6:00-7:00pm; Atlanta AB.

**Daily Events Tuesday, October 21**

Registration Hours 7:30am-5:00pm.

**USAHA – Past Presidents’ Breakfast** – 7:30-9:30am; Boardroom.
**USAHA – Committee on Captive Wildlife and Alternative Livestock** – 8:00am-12:00pm; Empire B.
**USAHA – Committee on Foreign and Emerging Diseases** – 8:00am-5:30pm; New York AB.

**Time-Specific Paper**

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<tr>
<th>Time</th>
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<tr>
<td>12:10pm</td>
<td>Emerging Diseases of Global Concern with a Focus on Middle East Respiratory Syndrome – Markos Tibbos</td>
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**USAHA – Committee on Livestock Identification** – 8:00am-12:00pm; Chicago BC.
**USAHA – Committee on Pharmaceuticals** – 8:00am-12:00pm; Benton AB.
**National Scrapie Oversight Board** – 8:00-9:00am; Chouteau A.
**USAHA – Committee on Scrapie** – 9:00am-12:00pm; Chouteau A.
**USAHA – Committee on Salmonella** – 8:00-12:00pm; Chicago A.
Directors of State Meat Inspection – 8:00am-5:30pm; Chouteau B.
Break – 9:30am; Terrace Area
American Association of Avian Pathologist Liaison with AVMA – 10:00am-12:00pm; Van Horn C.
USAHA – Strategic Plan Information Session – 12:15-12:45pm; Freemont.
USAHA – Committee on Biologics and Biotechnology – 1:00 – 5:30pm; Benton AB.
USAHA – Committee on Public Health and Rabies – 1:00-5:30pm; Chicago A.
USAHA – Committee on Sheep and Goats – 1:00-5:30pm Chouteau A.
USAHA – Committee on Transmissible Diseases of Poultry and Other Avian Species – 1:00-5:30pm; Chicago BC.
USAHA – Committee on Tuberculosis – 1:00-5:30pm; Empire ABC.
Break – 3:00pm; Terrace Area
USAHA – Board of Directors – 6:00-7:00pm; Atlanta AB

Daily Events Wednesday, October 22

Registration Hours 7:30-10:00am.

USAHA – Committee on Animal Welfare – 8:00am-12:00pm; Chicago BC.
USAHA – Committee on Parasitic Diseases – 8:00am-12:00pm; Chicago A.
USAHA – One Health Symposium - 8:00am-12:00pm; Empire A.
Break – 9:30am; Terrace Area

USAHA - Membership Meeting – 2:00-3:30pm; Chicago BC.
2:00pm Call to Order – Stephen Crawford
2:05pm Report of the Action of the Committee on Nominations – David Marshall
   Passing the Presidential Gavel – Stephen Crawford
   President’s Address – Bruce King
   Recognition of Immediate Past President – Stephen Crawford
   Executive Director’s Address – Benjamin Richey
   Report of the Committee on Resolution – David Marshall
   Other Business

USAHA – Board of Directors – Immediately following membership meeting; Atlanta AB.
USAHA – Executive Committee Meeting – 6:00pm; Boardroom.

2014 USAHA Committees

USAHA/AAVLD Committee on Animal Emergency Management
Chair: Nick Striegel, CO
Vice Chair: Heather Simmons, TX

John Adams, VA; Bruce Akey, TX; Kelli Almes, KS; Gary Anderson, KS; Joan Arnoldi, WI; Lyndon Baddock, WA; Tom Baker, ON; Deanna Baldwin, MD; Karen Beck, NC; Tammy Beckham, TX; Lisa Becton, IA; Melissa Berquist, TX; Danelle Bickett-Weddele, IA; Patricia Blanchard, CA; Richard Breitmeyer, CA; Becky Brewer-Walker, AR; Gary Brickler, CA; Charlie Broaddus, VA; William Brown, KS; Heather C. F. Case, IL; Nancy Chapman, MD; Gregory Christy, FL; Neville Clarke, TX; Matt Cochran, TX; Leslie Cole, OK; Dustin Cox, NM; Stephen Crawford, NH; Tarrie Crnic, KS; Glenda Davis, AZ; Ignacio dela Cruz, MP; Susan Dixon, IA; Leah Dorman, OH; Brandon Doss, AR; Cheryl Eia, IL; Brigid Elchos, MS; Dee Ellis, TX; Larry Elsken, IA; Francois Elvinger, VA; Betsy Flores, VA; Cox, NM; Stephen Crawford, NH; Tarrie Crnic, KS; Glenda Davis, AZ; Ignacio dela Cruz, MP; Susan Dixon, IA; Leah Dorman, OH; Brandon Doss, AR; Cheryl Eia, IL; Brigid Elchos, MS; Dee Ellis, TX; Larry Elsken, IA; Francois Elvinger, VA; Betsy Flores, VA; Rose Foster, MO; W. Kent Fowler, CA; Mallory Gaines, DC; Tam Garland, TX; Cyril Gay, MD; Robert Gerlach, AK; Michael Gilksdor, MD; Linda Glaser, MN; Patricia Godwin, KY; Sue Goetz, WI; Timothy Goldsmith, MN; Alicia Gorczyca-Southerland, OK; Larry Granger, CO; Kristin Haas, VT; Rod Hall, OK; Timothy Hanosh, NM; Charles Hatcher, TN; Greg Hawkins, TX; Carl Heckendorf, CO; Julie Helm, SC; Kristi Henderson, IL; Jan Hershenhouse, CA; Linda Hickam, MO; Rick Hill, IA; Donald Hoening, ME; Guy Hohenhaus, MD; Lindsey Holstrom, TX; Floyd Horn, MD; Jesse Hostetter, IA; Dennis Hughes, NE; Holly Hughes-Garza, TX; Pamela Hullinger, CA; David Hunter, VT; Carla Huston, MS; Annette Jones, CA; Karen Jordan, NC; Subhashnie Kariyawasam, PA; Paul Kohrs, WA; Darlene Konkle, WI; Charlotte Krugler, SC; Michael Langford, NY; T.R Lansford, TX; Elizabeth Lautner, IA; Kerry Leedom Larson, IA; Randall Leving, IA; Tsang Long Lin, IN; Mary Lis, CT; Eric Liska, MT; Frank Liu, MN; Francine Lord, ON; Kevin Maher, IA; Barbara Martin, IA; Sarah Mason, NC; Chuck Massengill, MO; Paul McGraw, WI; David Meeker, VA; Shelley Mehlendacher, VT; Jessica Meisinger, IA; Val Smia, NY; Gay Miller, IL; Mendel Miller, SD; Janice Mogan, IA; Alfred Montgomery, DC; Lee Myers, GA; Yvonne Nadler, IL; Sherrie Nash, MT; Cheryl Nelson, KY; Sandra Norman, IN; Dustin Oedekevson, SD; Kenneth Olson, IL; Claudia Osorio, MD; Stephanie Ostrowski, AL; Kristy Pabilonia, CO; Elizabeth Parker, TX; Roger Parker, TX; William Parker, GA; Boyd Parr, SC; Virginia Pierce, MD; Jewell Plumley, WV; Jeanne Rankin, MT; Tom Ray, NC; Renate Reimenschuessel, MD; M. Gatz Richey, Jr., AL; Paul Rodgers, WV; Keith Roehr, CO; James Roth, IA; John Rowden, CA; Mo Salmon, CO; John Sanders, WV; A. David Scarfe, IL; Joni Sechelt, MN; Mark Shearer, IA; Gary Sherman, DC; Kathryn Simmons, DC; Marilyn Simunich, ID; David Smith, NY; Julie Smith, VT; Tom Smylie, ON;
Committee Meeting: Saturday, 8:00am-1:00pm - Century A (Westin Hotel)

Time-Specific Papers
9:45am - FMD Vaccine Surge Capacity for Use in the U.S. - Dr. James Roth
11:10am - The Impact of Movements and Animal Density on Continental Scale Cattle Disease Outbreaks in the United States - Dr. Dan Grear

USAHA/AAVLD Committee on Animal Health Surveillance and Information Systems
Chair: Lisa Becton, IA
Vice Chair: Marie Culhane, MN

Committee Meeting: Sunday – 3:00-6:00pm; Chicago B

Committee on Animal Welfare
Chair: Gail Golab, IL
Vice Chair: Belinda Thompson, NY

Committee Meeting: Wednesday – 8:00am-12:00pm; Chicago BC

USAHA/AAVLD Committee on Aquaculture
Chair: Kevin Snekvik, WA
Vice Chair: Lester Khoo, MS
Committee Meeting: Sunday – 12:30-5:30pm; Chicago C

USAHA Audit Committee  
Chair: Annette Jones, CA

Committee Meeting: Sunday – 12:00-1:00pm; Boardroom

Committee on Biologics & Biotechnology  
Chair: Donna Gatewood, IA  
Vice Chair: Joseph Huff, CO

Committee Meeting: Tuesday – 1:00-5:30pm; Benton AB

Committee on Buetontongue and Related Orbiviruses  
Chair: N James Maclachlan, CA  
Vice Chair: William Wilson, KS

Committee Meeting: Monday – 1:00-6:00pm; Empire C

Committee on Brucellosis  
Chair: Jim Logan, WY  
Vice Chairs: Bill Barton, ID; Tony Frazier, AL

Sara Ahola, CO; Marilyn Blair, ID; Deborah Brennan, GA; Stan Bruntz, CO; Beverly Byrum, OH; Nancy Chapman, MD; Fred Cunningham, MS; Koren Custer, WV; Ria de Grassi, CA; Nancy Frank, MI; Richard French, NH; Suzanne Gibbons-Burghener, WI; Betsy Hart, AR; Jerry Heidel, OR; Donald Hoening, ME; Hui-Min Hsu, WI; John Huntley, WA; Donna Kelly, PA; Bruce King, UT; Kathy Kurth, WI; Anne Lichtenwalner, ME; Tsang Long Lin, IN; Fernando Mardones, CA; Otis Miller, MD; Regg Neiger, SD; Jamie Ng, NY; Jenee Odani, HI; Jon Pate, MS; Charles Palmer, CA; Amar Patil, NJ; Kris Petrine, MN; Nicholas B.D. Phelps, MN; James Roth, IA; John Sanders, WV; A. David Scarfe, IL; Robert Temple, OH; John Williams, MD; Anna Wilson, WI.

Committee Meeting: Sunday – 12:30-5:30pm; Chicago C

Richard Breitmeyer, CA; William Hartmann, MN; Maxwell Lea, Jr., LA; Ernest Zirkle, NJ.

Committee Meeting: Sunday – 12:00-1:00pm; Boardroom

Committee on Biologics & Biotechnology  
Chair: Donna Gatewood, IA  
Vice Chair: Joseph Huff, CO

Gary Anderson, KS; Joan Arnoldi, WI; Chris Ashworth, AR; Randall Berrier, CO; Barbara Determan, IA; Larry Elsken, IA; James England, ID; James Evermann, WA; William Fales, MO; Robert Fulton, OK; Larry Granger, CO; Keith Haffer, SD; Percy Hawkes, UT; Larry Hawkins, MO; Rudolf Hein, DE; Rick Hill, IA; Christine Hoang, IL; Lloyd Lauer, WA; Elizabeth Lautner, IA; John Lawrence, ME; Randall Leving, IA; David Marshall, NC; Kent McClure, DC; Deoki Tripathy, IL; Bob Tully, KS; Gary Weber, MD; Brad Williams, TX; Mary Anne Williams, TX; Ellen Mary Wilson, NM.

Committee Meeting: Tuesday – 1:00-5:30pm; Benton AB

Committee on Buetontongue and Related Orbiviruses  
Chair: N James Maclachlan, CA  
Vice Chair: William Wilson, KS

T. Lynwood Barber, CO; Richard Breitmeyer, CA; Charles Brown II, WI; Kristina Brunjes, GA; Stan Bruntz, CO; Matt Cochran, TX; Joseph Corn, GA; Edward Dubovi, NY; William Edmiston, TX; Anita Edmondson, CA; James Evermann, WA; Robert Fulton, OK; Donna Gatewood, IA; Robert Gerlach, AK; Paul Gibbs, FL; Chester Gipson, MD; Sophie Girtanner, ; Katherine Haman, BC; William Hartmann, MN; Percy Hawkes, UT; Larry Hawkins, MO; Richard Hesse, KS; Linda Hickam, MO; Thomas Holt, FL; Dennis Hughes, NE; Holly Hughes-Garza, TX; Bruce King, UT; Todd Landt, IA; Emily Lankau, GA; Randall Leving, IA; Francine Lord, ON; Travis Lowe, KS; David Marshall, NC; Daniel Mead, GA; Myna Miller, WY; Eric Mohlman, NE; Igor Morozov, KS; Cheryl Nelson, KY; Dustin Oedekoven, SD; Eileen Ostlund, IA; Charles Palmer, CA; William Parker, GA; James Pearson, IA; William Pittenger, MO; Justin Roach, OK; Mark Ruder, KS; Shawn Schafer, OH; Charly Seale, TX; Laurie Seale, WI; Tom Smyle, ON; David Stallknecht, GA; Brian Standafer, MN; Brad Thurston, IN; Curt Waidvogel, OH; Mark Walter, PA; Skip West, OK.

Committee Meeting: Monday – 1:00-6:00pm; Empire C

Committee on Brucellosis  
Chair: Jim Logan, WY  
Vice Chairs: Bill Barton, ID; Tony Frazier, AL

John Adams, VA; J Lee Alley, AL; Neil Anderson, MT; George Badley, AR; Claude Barton, TN; C. Black, GA; Tom Bragg, NE; Richard Breitmeyer, CA; Becky Brewer-Walker, AR; Gary Brickler, AR; Nancy Brown, KS; William Brown, KS; Beth Carlson, ND; Robert Cobb, GA; Michael Coe, UT; Jim Collins, GA; Thomas Conner, OH; Walter Cook, TX; Joseph Corn, GA; Donald Davis, TX; Leah Dorman, OH; Mark Drew, ID; Anita Edmondson, CA; Dee Ellis, TX; Philip Elzer, LA; Steven England, NM; Donald Evans, KS; Mallory Gaines, DC; Francis Galey, WY; Tam Garland, TX; Richard Gerhold, TN; Robert Gerlach, AK; Arnold Gertonson, CO; Michael Gilsdorf, MD; Linda Glaser, MN; Chelsea Good, MO; Rod Hall, OK; William Hartmann, MN; Greg Hawkins, TX; Carl Heckendorf, CO; Linda Hickam, MO; Bob Hillman, ID; Dennis Hughes, NE; David Hunter, MT; Jamie Jonker, VA; Mandy Kaufman, WY; Susan Keller, ND; Bruce King, UT; Diane Kitchen, FL; Paul Kohrs, WA; Maria Koller-Jones, ON; John Lawrence, ME; Maxwell Lea, Jr., LA; Brad Lea, Master, OR; Eric Liska, MT; Laurent O’Gene Lollis, FL; Travis Lowe, KS; Mary Luedeker, TX; Christian Mackay, MT; Bret Marsh, IN; Barbara Martin, IA; Chuck Massengill, MO; Leslie McFarlane, UT; Paul McGraw, WY; Eric Mohlman, NE; Ernie Morales, TX; Sherrie Nash, MT; Cheryl Nelson, KY; Dustin Oedekoven, SD; Elizabeth Parker, TX; Janet Payeur, IA; Alejandro Perera, ; William Pittenger, MO; Valerie Ragan, MD; Jennifer Ramsey, MT; Jeanne Rankin, MT; Tom Ray, NC; Suelee Robbe-Austerman, IA; Keith Rohr, CO; Shawn Schafer, OH;
Committee Meeting: Monday – 1:00-6:00pm; New York B
Scientific Advisory Subcommittee on Brucellosis – Sunday - 12:30-5:30pm; Chouteau A
Subcommittee on Brucellosis in the Greater Yellowstone Area – Sunday - 12:30-5:30pm; Chouteau A
Feral Swine Subcommittee on Brucellosis and Pseudorabies – Sunday - 12:30-5:30pm; Chouteau A

Committee on Captive Wildlife And Alternative Livestock
Chair: Peregrine Wolff, NV
Vice Chair: Julie Napier, NE

Committee Meeting: Tuesday- 8:00am-12:00pm; Empire B
USAHA/AAVLD Committee on Diagnostic Laboratory & Veterinary Workforce Development
Chair: Michael Gilsdorf, MD
Vice Chair: Gary Anderson, KS

Committee Meeting: Saturday – 3:00-7:00pm; Chouteau AB
USAHA/AAVLD Committee on Environment and Toxicology
Chair: Larry Thompson, MO
Vice Chair: Tim Evans, MO

Committee Meeting: Saturday – 3:30-6:30pm; Chicago C
USAHA/AAVLD Committee on Food and Feed Safety
Committee Meeting: Sunday – 1:30-5:30pm; Chicago A

Committee on Foreign and Emerging Diseases
Chair: Tammy Beckham, TX
Vice Chair: Alfonso Clavijo, TX

Helen Acland, PA; Bobby Acord, NC; John Adams, VA; L. Garry Adams, TX; Bruce Akey, TX; Wilbur Amand, PA; Gary Anderson, KS; Joan Arnoldi, WI; Lyndon Badcoe, WA; George Badley, AR; Karen Beck, NC; Lisa Becton, IA; Peter Belinsky, RI; Melissa Berquist, TX; Bob Bokma, MD; Philip Bradshaw, IL; Richard Breitmeyer, CA; Deborah Brennan, GA; Becky Brewer-Walker, AR; Gary Brickler, CA; Charlie Broadus, VA; Corrie Brown, GA; Charles Brown II, WI; Johnny Callahan, TX; Jon Caspers, IA; Nancy Chapman, MD; Gregory Christy, FL; Jeein Chung, MN; Neville Clarke, TX; Matt Cochran, TX; Leslie Cole, OK; Thomas Conner, OH; Joseph Corn, GA; Paula Cowen, CO; Stephen Crawford, NH; Wendy Cuebas-Espeland, GA; Donald Davis, TX; Glenda Davis, AZ; Ignacio dela Cruz, MP; Thomas DeLeiberto, CO; Leah Dorman, OH; Brandon Doss, AR; Edward Dubovi, NY; Anita Edmonson, CA; Dee Ellis, TX; Larry Elsken, IA; Francois Elvinger, VA; Peter Fernandez, AA; Katherine Flynn, CA; Heather Fowler, MN; W. Kent Fowler, CA; Richard French, NH; Mallory Gaines, DC; Tam Garland, TX; Cyril Gay, MD; Robert Gerlach, AK; Paul Gibbs, FL; Samantha Gibbs, MD; Colin Gillin, OR; Michael Gilsdorf, MD; Linda Glaser, MN; Timothy Goldsmith, PA; Paul Gossidier, KS; James Mark Hammer, NC; Cathleen Hanlon, GA; William Hare, MI; Greg Hawkins, TX; Larry Hawkins, MO; Rudolf Hein, DE; Jan Hershenson, CA; Richard Hesse, KS; Linda Hickman, MO; Rick Hill, IA; Donald Hoenig, ME; Lindsey Holstrom, TX; Thomas Holt, FL; Floyd Horn, MD; Dennis Hughes, NE; Holly Hughes-Garza, TX; Pamela Hulingir, CA; David Hunter, MT; John Huntley, WA; Carla Huston, MS; Annette Jones, CA; Barbara Kamicker, NY; Gary Kinder, WV; Paul Kohrs, WV; Darlene Konkle, WI; Charlotte Krugler, SC; Elizabeth Krushinski, DE; Elizabeth Lautner, IA; John Lawrence, ME; Randall Levings, IA; Tsang Long Lin, IN; Linda Logan, TX; Pat Long, NE; Francine Lord, ON; Margie Lyness, GA; Janet Maass, CO; John Mahoney, MN; Edward Mallinson, MD; Brett Marsh, IN; David Marshall, NC; Barbara Martin, IA; Michael Martin, SC; Sarah Mason, NC; Rose Massengill, MO; Todd McCaeron, MN; Tracy McCracken, NM; Thomas McKenna, NM; David Meekar, VA; Shelley Mehlenbacher, VT; Gay Miller, IL; Frank Milward, GA; Ray Moby, FL; Janice Mogan, IA; Igor Morozov, KS; Lee Myers, GA; Thomas Myers, MD; Sherrie Nash, MT; Cheryl Nelson, KY; Sandra Norman, IN; James Novy, TX; Kenneth Olson, IL; Stephanie Ostroy, AL; Kristy Pabolionio, CO; Lanny Pace, MS; Charles Palmer, CA; Elizabeth Parker, TX; Roger Parker, TX; William Parker, GA; Boyd Parr, SC; Jeanne Rankin, MT; Tom Ray, NC; Annette Rink, NV; Keith Roehr, CO; James Roth, IA; Mark Rudser, KS; Emi Salto, OR; Mo Salmon, CO; John Sanders, WV; A. David Scarfe, IL; Shawn Schafer, OH; David Schmitt, IA; Dan Sheesley, DC; Heath Simmons, TX; Kathryn Simmons, DC; Marilyn Simunich, ID; Jonathan Sleeman, WI; Tom Smylie, ON; Harry Snelson, NC; Diane Stacy, IA; Mike Starkey, MN; Nick Striegel, CO; David Suarez, GA; David Swayne, GA; Manoel Tamassia, NJ; Rodney Taylor, NM; Belinda Thompson, NY; Beth Thompson, MN; Brad Thurston, IN; Jimmy Tiek, NC; Peter Timm, CA; Peter Timoney, KY; Alfonso Torros, NY; Susan Trock, GA; Paul Ugstad, NC; Arnaldo Vaquer, VA; Liz Wagstrom, DC; Sherrilyn Wainwright, ; Mark Walter, PA; Patrick Webb, IA; Steve Weber, CO; Margaret Wild, CO; Richard Willer, HI; Brad Williams, TX; John Williams, MD; Larry Williams, NE; Sharon Williams, AR; William Wilson, KS; Josh Winegarner, TX; Richard Winters, Jr., TX; Ching Ching Wu, IN.

Time-Specific Paper
12:10pm - Emerging Diseases of Global Concern with a Focus on Middle East Respiratory Syndrome – Markos Tibbos

Committee Meeting: Tuesday – 8:00am-5:30pm; New York, AB
Committee on Government Relations
Chair: David Schmitt, IA

Stephen Crawford, NH; Barbara Determan, IA; Christine Hoang, IL; Annette Jones, CA; Bruce King, UT; Bret Marsh, IN; David Meeker, VA; Boyd Parr, SC; Michael Short, FL; Nick Striegel, CO; Scott Stuart, CO; Manoel Tamassia, NJ.

Committee Meeting: On call of Chair

Committee on Import-Export
Chair: Mark Engle, TN
Vice Chair: Robert Blomme, IA

Bobby Acord, NC; Debbie Barr, ON; Bob Bokma, MD; Joyce Bowling-Heyward, MD; Gary Brickler, CA; Charles Brown II, WI; Stan Brunzt, CO; Jess Burner, TX; Ignacio dela Cruz, MP; Larry Elsken, IA; Effingham Embree, Jr., IL; Amelita Facchiano, TX; William Fales, MO; Mallory Gaines, DC; Julie Gard, AL; Paul Gibbs, FL; Chester Gipson, MD; Tony Good, OH; Cathleen Hanlon, GA; Percy Hawkes, UT; Rick Hill, IA; Robert Hilsenroth, FL; Donald Hoening, ME; Floyd Horn, MD; Laurie Hueneke, DC; Annette Jones, CA; Elizabeth Lautner, IA; R.J. Layher, DC; Kevin Maher, IA; Brittany McCauslin, CO; Susan McClanahan, MN; David Meeker, VA; Gay Miller, IL; Richard Mitchell, CT; Sandra Norman, IN; Elizabeth Parker, TX; James Pearson, IA; Alejandro Perera; William Pittenger, MO; Herbert Richards, HI; Paul Rodgers, WV; Larry Samples, PA; A. David Scarfe, IL; Travis Schaal, IA; Shawn Schafer, OH; Kathryn Simmons, DC; Peter Timoney, KY; Alberto Torres, AR; Charles Vail, CO; Arlanda Vaquer, VA; Mark Walter, PA; James Watson, MS; Patrick Webb, IA; Roger Weigle, WI; Brad Williams, TX; Mary Anne Williams, TX; William Wilson, KS; David Winters, TX; Richard Winters, Jr., TX; Cindy Wolf, MN;

Committee Meeting: Sunday – 12:30-5:30pm; Chouteau B

Committee on Infectious Diseases Of Cattle, Bison And Camelids
Chair: James Evermann, WA
Vice Chair: Chuck Massengill, MO

Helen Acland, PA; Chris Ashworth, AR; Gary Brickler, CA; Charlie Broadaus, VA; Charles Brown II, WI; Beth Carlson, ND; Karen Conyhem, TX; Stephen Crawford, NH; Lewis Dinges, TX; Edward Dubovi, NY; William Edmiston, TX; Anita Edmondson, CA; Adam Eichelberger, SC; James England, ID; Betsy Flores, VA; W. Kent Fowler, CA; Robert Fulton, OK; Donna Gatewood, IA; Michael Greenlee, NV; Keith Hafer, SD; Thomas Hairgrove, TX; Rod Hall, OK; Timothy Hanosh, NM; Percy Hawkes, UT; Carl Heckendorf, CO; Del Hensel, CO; Linda Hickam, MO; Floyd Horn, MD; Dennis Hughes, NE; David Hunter, MT; Annette Jones, CA; Paul Jones, AL; Bruce King, UT; Diane Kitchen, FL; John Lawrence, ME; James Leafstedt, SD; Howard Lehmkuhl, IA; Scott Leibsle, ID; Rick Linscott, ME; Pat Long, NE; Francine Lord, ON; Janet Maass, CO; Patrick McDonough, NY; Shelley Mehlenbacher, VT; Mendel Miller, SD; Richard Mock, NC; Cheryl Nelson, KY; Jewell Plumley, WV; Jeannie Rankin, MT; Herbert Richards, HI; Julia Ridpath, IA; Keith Roehr, CO; Mark Ruder, KS; Bill Sauble, NM; Kathryn Simmons, DC; Ben Smith, WA; Justin Smith, KS; Tom Smylie, ON; Nick Striegel, CO; Manoel Tamassia, NJ; Rodney Taylor, NM; Robert Temple, OH; Charles Thoen, IA; Paul Virkler, NY; Brad Williams, TX; William Wilson, KS.

Committee Meeting: Sunday – 12:30-5:30pm; Pershing East(Westin Hotel)

Committee on Infectious Diseases Of Horses
Chair: Andy Schwartz, TX
Vice Chair: Katherine Flynn, CA

Helen Acland, PA; George Badley, AR; Debbie Barr, ON; Tony Benz, MO; C. Black, GA; Becky Brewer-Walker, AR; Charlie Broadaus, VA; Stan Brunzt, CO; Clarence Campbell, FL; Craig Carter, KY; Stephen Crawford, NH; Glenda Davis, AZ; Brandon Doss, AR; Edward Dubovi, NY; Adam Eichelberger, SC; Dee Ellis, TX; J Amelita Facchiano, TX; Edward 'Rusty' Ford, KY; W. Kent Fowler, CA; Tony Frazier, AL; Robert Gerlach, AK; Paul Gibbs, FL; Michael Greenlee, NV; Kristin Haas, VT; Steven Halstead, MI; Timothy Hanosh, NM; William Hare, MI; Greg Hawkins, TX; Carl Heckendorf, CO; Michael Herrin, OK; Floyd Horn, MD; Bruce King, UT; Paul Kohrs, WA; T.R Lansford, TX; R.J. Layher, DC; Maxwell Lea, Jr., LA; Donald Lein, NY; Mary Lis, CT; Francine Lord, ON; Kevin Maher, IA; Patrick McDonough, NY; Richard Mitchell, CT; Linda Mittel, NY; Lee Myers, GA; Cheryl Nelson, KY; Jeffrey Nelson, IA; Sandra Norman, IN; Don Nutter, KY; Eileen Oslund, IA; Boyd Parr, SC; Jewell Plumley, WV; Jeannie Rankin, MT; Grant Rezabek, OK; Anette Rink, NV; Keith Roehr, CO; Dennis Schmitt, MO; Michael Short, FL; Marilyn Simunich, ID; David Smith, NY; Justin Smith, KS; Diane Stacy, LA; Robert Stout, KY; Tahnee Szymanski, MT; Manoel Tamassia, NJ; Rodney Taylor, NM; Robert Temple, OH; Charles Thoen, IA; Paul Virkler, NY; Brad Williams, TX; William Wilson, KS.

Committee Meeting: Monday – 1:00-6:00pm; New York A

Time-Specific Papers
1:45pm - Merging Pathogen Surveillance and Research; Stealth Persistence of an Ema Superfamily Variant of *Theileria equi* - Don Knowles

3:45pm - The Significance of Surra as an Infection in Horses - Peter Timoney

### Committee on International Standards

**Chair:** Donald Hoenig, ME  
**Vice Chair:** Richard Willer, HI

Chelsea Anderson, NY; Joan Arnoldi, WI; Debbie Barr, ON; Bob Bokma, MD; Corrie Brown, GA; Stan Brunzt, CO; Jeein Chung, MN; John Clifford, DC; Karen Conyngham, TX; Michael David, MD; Ron DeHaven, IL; Peter Fernandez, AA; John Fischer, GA; Betsy Flores, VA; Mallory Gaines, DC; Jane Galyon, IA; Cyril Gay, MD; Paul Gibbs, FL; Gail Golab, IL; William Hartmann, MN; Percy Hawkes, UT; Rick Hill, IA; Annette Jones, CA; Karen Jordan, NC; Susan Keller, ND; Bruce King, UT; Elizabeth Lautner, IA; Randall Leving, IA; Linda Logan, TX; Kevin Maher, IA; Bret Marsh, IN; Todd McAloon, MN; Tracy McCracken, ; Shirley McKenzie, NC; Jamie Ng, NY; Kenneth Olson, IL; Elizabeth Parker, TX; John Ragan, MD; Herbert Richards, HI; James Roth, IA; Mo Salman, CO; A. David Scarfe, IL; Katherine Schuhmacher, NY; Heather Simmons, TX; Kathryn Simmons, DC; Jonathan Sleeman, WI; Matthew Stone, NZ; Manoel Tamassia, NJ; Peter Timoney, KY; Alfonso Torres, NY; Arnaldo Vaquer, VA; Sherrilyn Wainwright, ; Steve Weber, CO; John Williams, MD; Mary Anne Williams, TX; Nora Wineland, MO.

**Committee Meeting:** Monday – 1:00-6:00pm; Empire B

### Committee on Johnne's Disease

**Chair:** Elisabeth Patton, WI  
**Vice Chairs:** David Smith, NY

John Adams, VA; Bruce Addison, MO; Paul Anderson, MN; Richard Breitmeyer, CA; Charles Brown II, WI; Todd Byrem, MI; Yung Fu Chang, NY; Michael Collins, WI; Thomas Conner, OH; Stephen Crawford, NH; Ria de Grassi, CA; Anita Edmondson, CA; William Fales, MO; Kathy Finnerty, MA; Keith Forbes, NV; Mallory Gaines, DC; Robert Gerlach, AK; William Hare, MI; Linda Hickam, MO; Donald Hoenig, ME; David Hunter, MT; Carla Huston, MS; Annette Jones, CA; Jamie Jonker, VA; Karen Jordan, NC; Susan Keller, ND; Gerald Kitto, ND, John Lawrence, ME; Donald Lein, NY; Tsang Long Lin, IN; Mary Lis, CT; Laurent O'Gene Lollis, FL; Beth Mamer, ID; Chuck Massengill, MO; Jay Mattison, WI; Antone Mickelson, WA; Jeffrey Nelson, IA; Dustin Oedekoven, SD; Kenneth Olson, IL; Lanny Pace, MS; Elizabeth Parker, TX; Boyd Parr, SC; Janet Payeur, IA; Kris Petrini, MN; Jewell Plumley, WV; Suellee Robbe-Austerman, IA; Paul Rodgers, WV; Allen Roussel, Jr., TX; Patricia Scharko, SC; Andy Schwartz, TX; Kathryn Simmons, DC; Marilyn Simunich, ID; Shri Singh, KY; Judy Stabel, IA; Scott Stuart, CO; Tahnee Szymanski, MT; Robert Temple, OH; Charles Thoen, IA; James Waston, MS; Gary Weber, MD; Scott Wells, MS; Diana Whipple, IA; Robert Whitlock, PA; Ching Ching Wu, IN.

**Committee Meeting:** Sunday – 12:30-5:30pm; Empire A

### Committee on Livestock Identification

**Chair:** William Brown, KS  
**Vice Chair:** Kevin Maher, IA

Sara Ahola, CO; J Lee Alley, AL; Joan Arnoldi, WI; James Averill, MI; Bill Barton, ID; Karen Beck, NC; Tony Benz, MO; C. Black, GA; Richard Breitmeyer, CA; Paul Brennan, IN; Becky Brewer-Walker, AR; Gary Brickler, CA; Charlie Broadaus, VA; Nancy Brown, KS; Jess Burner, TX; Jon Caspers, IA; Alan Clark, WI; Robert Cobb, GA; Matt Cochran, TX; Michael Coe, UT; Robert Fourdraine, WI; William Fales, VA; Mallory Gaines, DC; John Gaskins, CA; Thomas Glass, IA; lime Howie, WA; Robert Hoenig, ME; Joseph Huett, CO; Dennis Hughes, NE; John Huntley, WA; Russell Isetl, TX; Regina Jensen, DE; Jamie Jonker, VA; Susan Keller, ND; Bradley Keough, KY; Bruce King, UT; Diane Kitchen, FL; Gerald Kitto, ND; T.R Lansford, TX; Maxwell Lea, Jr., LA; James Leifested, SD; Brad LeaMaster, OR; Mary Lis, CT; Jim Logan, WY; Lawrence Lollis, FL; Francine Lord, ON; Mary Luedeker, TX; Gordon 'Cobie' Magness, SD; Bret Marsh, IN; Stu Marsh, AZ; David Marshall, NC; Michael Martin, SC; Rose Massengill, MO; Jay Mattison, WI; Paul McGraw, WI; Thomas McKenna, ; Shelley Mehlenbacher, VT; Mendel Miller, SD; Ronald Miller, PA; Ernie Morales, TX; Richard Odom, VA; Kenneth Olson, IL; Greg Onstott, MO; Boyd Parr, SC; Alejandro Perera, ; Jewell Plumley, WV; John Ragan, MD; Valerie Ragan, MD; Jeanne Rankin, MT; Tom Ray, NC; Justin Roach, OK; Nancy Robinson, MO; Keith Roehr, CO; Larry Samples, PA; Bill Sauble, NM; A. David Scarfe, IL; Shawn Schaffer, OH; Stacey Schwabenlander, MN; Andy Schwartz, TX; Charly Seale, TX; Laurie Seale, WI; Craig Shultz, PA; Richard Sibbel, IA; Kathryn Simmons, DC; David Smith, NY; Diane Stacy, LA; Robert Stout, KY; Nick Striegel, CO; Scott Stuart, CO; Paul Sundberg, IA; Tahnee Szymanski, MT; Manoel Tamassia, NJ; Beth Thompson, MN; Tracy Tomascik, TX; Arnaldo Vaquer, VA; Rick Wahler, CO; Mark Walter, PA; James Watson, MS; Patrick Webb, IA; Richard Wilkes, VA;
Committee Meeting: Tuesday – 8:00am-12:00pm; Chicago BC

USAHA/AAVLD Committee on NAHLN
Chair: Harry Snelson, NC
Vice Chair: Barbara Powers, CO

Helen Acland, PA; John Adaska, CA; Bruce Akey, TX; Gary Anderson, KS; A. Catherine Barr, TX; Bill Barton, ID; Tim Baszler, WA; Tammy Beckham, TX; Steven Bolin, MI; Richard Breitmeyer, CA; James Britt, AR; Sandra Bushmich, CT; Beverly Byrum, OH; Craig Carter, KY; Estela Cornaglia, QC; Marie Culhane, MN; Sherrill Davison, PA; Barbara Determan, IA; Francois Elvinger, VA; Mallory Gaines, DC; Joseph Garvin, VA; Patrick Halbur, IA; Steven Haistead, MI; Timothy Hanosh, NM; Bob Hillman, ID; Lindsey Holstrom, TX; Stephen Hooser, IN; Holly Hughes-Garza, TX; Pamela Hullinger, CA; Bill Johnson, OK; Jay Kammerzell, CO; Jim Kistler, CA; Jim Kistler, FL; Elizabeth Lautner, IA; Christina Loiacono, CA; David Marshall, NC; Barbara Martin, IA; Terry McElwain, WA; Michael McIntosh, NY; Thomas McKenna; Dustin Oedekoven, SD; Kristy Pabilonia, CO; Lanny Pace, MS; Elizabeth Parker, TX; Roger Parker, TX; Amar Patil, NJ; Jewell Plumeley, WV; Robert Poppenga, CA; M. Gatz Riddell, Jr., AL; Keith Roehr, CO; Jeremiah Saliki, GA; Kathryn Simmons, DC; Marilyn Simunich, ID; Bruce Stewart-Brown, MD; Rodney Taylor, NM; David Zeman, SD.

Committee Meeting: Sunday – 12:00-3:00pm; New York A

Committee on Nominations And Resolutions
Chair: David Marshall, NC

J Lee Alley, AL; Philip Bradshaw, IL; Richard Breitmeyer, CA; Jones Bryan, SC; Clarence Campbell, FL; Joe Finley, TX; Thomas Hagerty, MN; Steven Haistead, MI; Bob Hillman, ID; Donald Hoenig, ME; Maxwell Lea, Jr., LA; James Leafstedt, SD; Donald Lein, NY; Bret Marsh, IN; Michael Marshall, UT; Richard McCapes, CA; David Meeker, VA; Lee Myers, GA; John Ragan, MD; Glenn Rea, OR; Michael Short, FL; Scott Stuart, CO; Nick Striegel, CO; Manoel Tamassia, NJ; H. Wesley Towers, DE; Max Van Buskirk, PA; Richard Willer, HI; Larry Williams, NE; Ernest Zirkle, NJ.

Committee Meeting: On call of Chair

Committee on Parasitic Diseases
Chair: Dee Ellis, TX
Vice Chair: David Winters, TX

Gary Anderson, KS; Bob Bokma, MD; Corrie Brown, GA; Matt Cochran, TX; Joseph Corn, GA; Mark Davidson, CO; Barbara Determan, IA; Anita Edmondson, CA; Richard Gerhold, TN; Chester Gipson, MD; Thomas Hairgrove, TX; Greg Hawkins, TX; Larry Hawkins, MO; Linda Hickam, MO; Bob Hillman, ID; Thomas Holt, FL; Charlotte Krugler, SC; Linda Logan, TX; Francine Lord, ON; Travis Lowe, KS; Mary Luedeker, TX; David Marshall, NC; Terry McElwain, WA; Daniel Mead, GA; Eric Mohlman, NE; Ernie Morales, TX; Don Notter, KY; James Novy, TX; Boyd Parr, SC; Alejandro Perera, MEX; Shawn Schafer, OH; Irene Schiller, ZH; Andy Schwartz, TX; Charly Seale, TX; David Smith, NY; Robert Stout, KY; Paul Ugstad, NC; Arnaldo Vaquer, VA; Sherrilyn Wainwright; James Watson, MS.

Committee Meeting: Wednesday – 8:00am-12:00pm; Chicago A

Committee on Pharmaceuticals
Chair: Christine Hoang, IL
Vice Chair: Liz Wagstrom, DC

Tom Burkgren, IA; Stephen Crawford, NH; Barbara Determan, IA; William Fales, MO; Timothy Goldsmith, MN; Eric Gonder, NC; Kristi Henderson, IL; Rick Hill, IA; Donald Hoenig, ME; Jennifer Koeman, IA; David Marshall, NC; Shelley Mehlbacher, VT; M. Gatz Riddell, Jr., AL; Craig Shultz, PA; Brad Williams, TX; Ellen Mary Wilson, NM.

Committee Meeting: Tuesday – 8:00am-12:00pm; Benton AB

Committee on Public Health and Rabies
Chair: Sandra Norman, IN
Vice Chair: Nancy Frank, MI
Committee Meeting: Tuesday – 1:00-5:30pm; Chicago A

Committee on Salmonella
Chair: Doug Waltman, GA
Vice Chair: Richard Sellers, VA

Committee Meeting: Tuesday – 8:00am-12:00pm; Chicago A

Committee on Scrape
Chair: Kris Petri, MN
Vice Chair: Cheryl Miller, IN

Committee Meeting: Tuesday – 9:00am-12:00pm; Chouteau A

National Scrapie Oversight Board – Tuesday 8:00-9:00am; Chouteau A

Committee Meeting: Tuesday – 1:00-5:30pm; Chouteau A

Committee on The Program
Chair: Bruce King, UT
Committee Meeting: Saturday – 6:00-8:30pm; Empire C

Committee on Transmissible Diseases Of Poultry And Other Avian Species
Chair: Dale Lauer, MN
Vice Chair: Sarah Mason, NC

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Committee Meeting: Monday – 1:00-6:00pm; Chicago BC
Tuesday – 1:00-5:30pm; Chicago BC

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Committee Meeting: Monday – 1:00-6:00pm; Chicago A

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Committee Meeting: Tuesday – 1:00-5:30pm; Empire ABC
Tuberculosis Scientific Advisory Subcommittee: Monday – 1:00-6:00pm; Benton AB

Committee on Wildlife Diseases
Chair: Colin Gillin, OR
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