120th Annual Meeting

United States Animal Health Association

and

59th Annual Conference

American Association of Veterinary Laboratory Diagnosticians

October 13-19, 2016
Sheraton Greensboro Hotel
Greensboro, North Carolina

Officers and Administrative Staff

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Welcome to USAHA's 120th Annual Meeting and AAVLD's 59th Annual Conference

Announcements

USAHA/AAVLD Headquarter Hotel

Sheraton Greensboro at Four Seasons Hotel
Greensboro, North Carolina

Registration Fees

On-Site Fee Schedule:

Member Registration $350.00
Non-Member Registration $550.00
Life Member Registration $175.00
One Day Registration $200.00
Two Day Registration $250.00
Resident or Graduate Student Registration $125.00
Veterinary Student Registration ..... $ 0.00
Spouse Registration Fee ..... $ 85.00

USAHA 2016 Individual Dues $160.00
AAVLD 2016 Annual Dues $200.00
AAVLD 2016 Graduate Student or Resident Dues ..... $ 25.00
AAVLD 2016 Associate Dues ..... $ 50.00
AAVLD New Member Dues $200.00
Membership for January-December 2017

Registration Schedule

Wednesday, October 12, 2016 ..... 3:00-6:00 pm
Thursday, October 13, 2016 ..... 7:00 am-6:00 pm
Friday, October 14, 2016 ..... 7:00 am-6:00 pm
Saturday, October 15, 2016 ..... 7:00 am-5:00 pm
Sunday, October 16, 2016 ..... 7:00 am-5:00 pm
Monday, October 17, 2016 ..... 7:30 am-5:00 pm
Tuesday, October 18, 2016 ..... 7:30 am-5:00 pm
Wednesday, October 19, 2016 ..... 7:30-10:00 am

You must register and have a badge to attend meetings.

Announcements (cont.)

AAVLD Exhibits/Posters

3rd Floor Hallway

Posters: Saturday, October 15 ..... 9:00 am-6:00 pm
Authors present ..... 3:00-4:00 pm

Sunday, October 16 ..... 9:00 am-1:00 pm

Exhibits: Saturday, October 15 ..... 9:00 am-6:00 pm
(refreshments 9:30-10:15; 11:30-1:00; 3:00-6:00)

Sunday, October 16 ..... 9:00 am-1:00 pm
(refreshments 9:00-10:15; 11:30-1:00)

Bulletin Board

The Bulletin Board will be located at the Registration Area. Please check the Bulletin Board often for last minute changes in the program, and time and location of Committee meetings.

USAHA Display Tables

3rd Floor Hallway

Sunday 1:00 pm-Wednesday 12:00 pm

Work Room

Carolina

Thursday, October 13 through Tuesday, October 18 ..... 8:00 am-5:00 pm
Wednesday, October 19 ..... 8:00 am-12:00 pm

Press Room and Committee Report Reading Room

Cardinal

Thursday, October 13 through Tuesday, October 18 ..... 8:00 am-5:00 pm
Wednesday, October 19 ..... 8:00 am-12:00 pm

USDA-APHIS-VS Work Room

Blandwood

Friday, October 14 through Tuesday, October 18 ..... 8:00 am-5:00 pm
Exception: Saturday office is in Biltmore
Wednesday, October 19 ..... 8:00 am-12:00 pm

Posters

Saturday, October 15 – Sunday, October 16

1. Mycotic myocarditis in a dog attributed to infection with ***Triadelphia sp.*** *Ashleigh Hall, Scott Talent, Haley Bates, Rupika Desilva Johnson Chris, Steven Hodges, Adrienne Hale, Akhilesh Ramachandran,* Keith L Bailey *175*
2. Change in resistance of ***Pasteurella multocida spp multocida*** and ***Mannheimia haemolytica*** isolates obtained from bovine pneumonic lungs from 2008 through 2015 to selected antimicrobial agents *Arthur Hattel, Subhashinie Kariyawasam, Thomas Denagamage,* Jason W. Brooks, Jenny Fisher *176*
3. Vet-LIRN proficiency test to detect ***Listeria*** in raw dog food *Christopher Powers, Sarah Nemser, Samantha Lindemann, Matthew Kmet,* Andriy Tkachenko, Ravinder Reddy, Renate Reimschuessel *177*
4. Challenges in laboratory characterization of ***Aeromonas salmonicida*** § *Timberly Maddox, Tessa LeCuyer, Dubraska Vanessa Diaz-Campos, Kevin R Snekvik* *178*
5. When routine encounters a select agent: A lesson on ***Burkholderia pseudomallei*** and the importance of universal laboratory diagnostic precautions § *Kyriakos Deriziotis, Anil J. Thachil* *179*
6. Comparison of the Clinical Presentation and Urinalysis Results of Companion Animals with ***Staphylococcus spp.*** and ***E. coli*** Bacteriruria (2008-2014) *Stephen Cole, Shelley C C. Rankin* *180*
7. ***Pseudomonas aeruginosa*** mastitis in two goats associated with contaminated essential-oil based teat dip *Jane Kelly, David J. Wilson* *181*
8. The Futures Laboratory: A virtualized collaborative space meant to foster communication and cooperation between DoD and non-DoD academic institutions in areas of common interest, including public health/ One Health *Robert A. Norton, Stephanie Renee Ostrowski, James C. Wright* *182*
9. Current situation assessment of biosecurity measures in small scale broiler poultry farms and backyards in Egypt *◊ *Asmaa Nady Mohamed, Hassan E. A. Helal* *183*
10. Genotyping of ***Mycobacterium bovis*** from ruminants in Taiwan during 2014-2016 *ChenShen Huang, Hsiang-Jung Tsai* *184*
11. Modeling condemnation cases in cattle slaughter plants in California ◊ *Sara Amirpour Haredasht, Tadaishi Yatabe, Beatriz Martínez-López* *185*
12. Devising a disease surveillance and reporting system using Orchard® Harvest™ LIS * *Vanessa J. Wallace, Jennifer Rudd, Tanya LeRoith* *186*
13. The epidemiology of ***Campylobacter jejuni*** and ***Campylobacter coli*** in geese in Taiwan *Yang-Chi Chiea Fan, Hsian-Jung Tsai* *187*
14. Field trial using a combined treatment of garlic and organic spray based formula for fly control and animal's defensive behaviour alleviation in cattle farms *◊ *Asmaa Nady Mohamed, Naglaa M. Abdel Azeem, Gehan K. Abdel Latef* *188*
15. Creating a true quality system with an electronic QMS *Sarah Obenauer* *189*
16. Development of a diagnostic duplex real-time PCR for the detection *of* ***Mycoplasma gallisepticum*** and infectious laryngotracheitis in chickens * *Rachel Jude, Naola Ferguson-Noel* *190*

Symbols at the end of titles indicate the following designations:

§ AAVLD Laboratory Staff Travel Awardee
# AAVLD Trainee Travel Awardee
+ AAVLD/ACVP Pathology Award Applicant
◊ USAHA Paper
* Graduate Student Poster Presentation Award Applicant
† Graduate Student Oral Presentation Award Applicant

Posters (cont.)

17. Enable the right result the first time with xeno internal positive control *Michelle Swimley, Rohan Shah, Richard Conrad* 191

18. Development and validation of a probe hybridization qPCR for rapid identification and quantification of ***Pythium insidiosum*** in clinical samples § *Robert Bowden, April Childress, Galaxia Cortes, Jackson Presser, Erica Goss, Justin Shmalberg, James Wellehan* 192

19. The benchtop and field validation of a novel qPCR assay for the detection of ***Brucella abortus*** field strain and vaccine strains # *†◊ *Noah Hull, Suelee Robbe-Austerman, Jon Miller, William Laegreid, David Berry, Christine Quance, Christine Casey, Brant Schumaker* 193

20. Real-time PCR for porcine cytomegalovirus utilizing antemortem samples *Susan Schommer, Melissa Samuel, Sabrina Hammond, Ben Jacquin, Eric Walters, Randall Prather* 194

21. Detection of ***Toxoplasma gondii*** and ***Neospora caninum*** in ruminant abortions by real-time PCR § ◊ *Feng (Julie) Sun, Gabriel Gomez, Megan Schroeder, Andres de la Concha-Bermejillo de la Concha-Bermejillo, R. Jay Hoffman, Guy Sheppard, Terry Hensley, Pamela J. Ferro* 195

22. Peritonitis & necrotizing hepatitis in a Quarterhorse mare with ***Clostridium haemolyticum*** *Kelli Almes, Pankaj Kumar, Laurie Beard, Tanya Purvis, Brian Lubbers, Russell Ransburgh Jianfa Bai* 196

23. Suspected fatal hypothermia in a dog with generalized demodicosis *Doris Marie Miller* 197

24. Post-surgical inflammatory neuropathy in a dog *Tuddow Thaiwong, Matti Kiupel* 198

25. ***Rhodococcus equi*** osteomyelitis in an Anglo-Nubian buck * *Mario F. Sola, Stephen D Lenz, Gillian Haanen, Chee Kin Lim, Nickie Baird* 199

26. ***Clostridium haemolyticum*** infection in a horse *Scott Talent, Haley Bates, Rupika Desilva, Hayley Knopf, Freya Stein, Todd Holbrook, Akhilesh Ramachandran, Keith L Bailey* 200

27. Corynebacterium pseudotuberculosis and copper deficiency in a male Rocky Mountain bighorn sheep in Utah *Jane Kelly, Annette Roug, Jeffery Hall, Leslie McFarlane, Kerry A. Rood* 201

28. Pyelonephritis associated with ***Aspergillus fumigatus*** in a captive reindeer calf ***(Rangifer tarandus)*** *Jane Kelly, Jacqueline Larose, Thomas J Baldwin* 202

29. ***Escherichia fergusonii*** enteritis and septicemia in a 3 day old Holstein bull calf *Shannon Swist, Denise DiCarlo-Emery, Shannon Mann* 203

30. Retrospective study of ***post-mortem*** cases of pneumonia in racehorses of California *Francisco R. Carvallo, Santiago Diab, Ashley E. Hill, Francisco Uzal* 204

31. Diagnosis and within-flock seroprevalence of ovine Johne's disease caused by a sheep (type S) strain of ***Mycobacterium avium*** subsp. ***paratuberculosis*** in Uruguay *Federico Giannitti, Martin Fraga, Ruben Caffarena, Carlos Schild, Georgget Banchero, Anibal G Armien, Gabriel Traveria, Douglas Marthaler, Scott Wells, Franklin Riet-Correa* 205

32. A study on Marek's disease pathology and viral loads in backyard chickens with and without tumors *Asli Mete, Radhika Gharpure, Maurice Pitesky, Dan Famini, Karen Sverlow, John Dunn* 206

33. ***Lamanema chavezi*** (Nematoda: Molineidae) hepatitis in 3 llamas ***(Lama glama)*** from California *Federico Giannitti, Virginia Aráoz, Santiago Diab, Chris Gardiner, Eric Hoberg* 207

Posters (cont.)

34. The effect of zinc oxide nanoparticles on the antioxidant status, blood parameters and immune response in ***Japanese quail*** during starter period + *Farhad Ahmadi, Yaser Khorramdel, Hana Hamidi, Farzad Moradpour* 208

35. Quantification of aminoaciduria in dogs with jerky pet treat exposure *Jennifer Jones, Olgica Ceric, Jake Guag, Renate Reimschuessel* 209

36. Chronic canine parvovirus myocarditis in two puppies *Santiago Diab, Virginia Aráoz, Patricia Pesavento* 210

37. Circovirus-like virus infection in a pig with myocarditis and cardiac arteritis of undetermined etiology *Federico Giannitti, Linlin Li, Fabio Vannucci, Eric Delwart* 211

38. Enzyme-Linked Immunosorbent Assay (ELISA) Information Management System (EIMS): The Swiss army knife for managing the ELISA Value Stream Map (VSM) *Kelly Boesenberg, Sheila Heinen, Daniel Patanroi, Erin Kalkwarf, Sheila Norris, Suzanne Block, Randy Berghefer, John Johnson, Rodger Main, Dave Baum* 212

39. Problem solving using SPC charts for PRRSX3 quality management at ISU VDL *Dave Baum, Kelly Boesenberg, Jeff Zimmerman, Luis Gabriel Gimenez-Lirola, Rodger Main, Chong Wang, Calista Koeneke* 213

40. ELISA quality: On target with minimal variation *Dave Baum, Kelly Boesenberg, Jeff Zimmerman, Luis Gabriel Gimenez-Lirola, Rodger Main, Chong Wang, Calista Koeneke* 214

41. Prevalence of ***Coxiella burnetii*** infection in livestock in Bangladesh * † *Amitavo Chakrabartty, Md Siddiqur Rahman, A.K.M.A Rahman, P Bhattacharjee, L Akther, Klaus Henning, Heinrich Neubauer* 215

42. A comparison of two Enzyme-Linked Immunosorbent Assays (ELISAs) for determination of ***Brucella ovis*** seroprevalence in Wyoming domestic sheep * † *Molly Jeanne Elderbrook, Todd Cornish, Brant Schumaker, Dannele Peck, Kerry Sondgeroth* 216

43. ***Ichthyophthirius multifiliis*** i-antigen stimulates ***ex vivo*** proliferation of channel catfish T cells: CD4 T cell immune responses and vaccine development * *Christine Casey, R. Craig Findly, Harry Dickerson* 217

44. Indirect immunofluorescence assay for detection of antibodies to porcine delta corona virus *Wendy Wiese, Esteban Ramirez, Jose Garcia, Albert Rovira, Sagar M Goyal, Devi P Patnayak* 218

45. Development of reagents & assays for Senecavirus A serodiagnosis *Steven R. Lawson, Aaron Singrey, Diego G. Diel, Jessica Leat, Lok R. Joshi, Julie Nelson Jane Christopher-Hennings, Eric A. Nelson* 219

46. Histopathologic findings in a 3 month subchronic mouse microcystin LR study *Wanda M. Haschek-Hock, Elisiane Camana, Belinda Mahama, Poojya Vellareddy Anantharam, Elizabeth Whitley, Wilson Kiiza Rumbeiha* 220

47. Mycotoxin and metal contaminants in peanut butter on the Ugandan market ◊ *Dwayne Edward Schrunk, Paula Martin Imerman, Elisiane Camana, Wilson Kiiza Rumbeiha,Steve M Ensley, Sylvia Baluka, Richard Zigudde* 221

48. Acute lead arsenate poisoning in beef cattle in Uruguay *Carlos Schild, Federico Giannitti, Rosane Medeiros, Caroline Silveira, Ruben Caffarena, Robert H Poppenga, Franklin Riet-Correa* 222

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Posters (cont.)

49. Thyroid parafollicular (C) cell hyperplasia and carcinoma in a sheep with enzootic calcinosis due to *Nierembergia rivularis* (synonymous *N. repens*) poisoning in Uruguay *Carlos Schild, Federico Giannitti, Ricardo Costa, Marcela Preliasco, Rosane Medeiros, Franklin Riet-Correa*.....223

50. Evaluation of a rapid antigen kit for the detection of porcine epidemic diarrhea virus *Lotus Solmonson, Marc D. Schwabenlander, Michele Leiferman, James E Collins, Sagar M Goyal, Devi P Patnayak*.....224

51. The Wisconsin electron microscopy diagnostic proficiency program *Craig Radi, Sara Miller, Cynthia Goldsmith, Kathy L Toohey-Kurth*.....225

52. Avian influenza virus inactivation by environmental factors and disinfectants: Premises treatment during the 2014-2015 H5Nx outbreak in the United States ◊ *Randall Lynn Levings, Emergency Management Response System Team, Mia Kim Torchetti*.....226

53. Complete genome constellation of group A rotavirus from deer identifies common evolution with bovine rotaviruses *Srivishnupriya Anbalagan, Jessica L. Peterson, Joshua D. Elston, Tamer A. Sharafeldin*.....227

54. Genotype constellation analysis of bovine and porcine rotavirus A isolates *Joshua D. Elston, Jessica L. Peterson, Patricia A. r Klumpe, Anita M. Froderman, Tamer A. Sharafeldin, Srivishnupriya Anbalagan*.....228

55. Determination of the immunodomaint regions of Senecavirus A-VP1 by ELISA epitope mapping * † *Elizabeth R. Houston, Luis Gabriel Gimenez-Lirola, Qi Chen, Jianqiang Zhang, Pablo E. Pineyro*.....229

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Daily Events — Thursday, October 13

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

8:00 am-12:00 pm	**AAVLD Accreditation and Quality Assurance Symposium** Guilford G
1:00-5:00 pm	**AAVLD/NAHLN IT** Oak
1:00-5:00 pm	**AAVLD Accreditation Committee COMMITTEE ONLY** Cedar BC
2:00-4:00 pm	**Best Practices for Submitting, Reviewing and Publishing Manuscripts in JVDI** Meadowbrook
5:30-6:00 pm	**New Member Orientation** Guilford F
6:00-7:00 pm	**Networking Reception with New Members, sponsored by bioMérieux** Guilford F

Daily Events — Friday, October 14

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

7:00-8:00 am	**AAVLD Financial Advisory Committee COMMITTEE ONLY** Joseph's Restaurant
8:00-9:00 am	**AAVLD Membership Committee** Cedar A
8:00-10:00 am	**AAVLD Publications Committee** Oak C
8:00-11:00 am	**AAVLD Bacteriology and Mycology Subcommittee presents: Round Table Discussion** Imperial A/B
8:00 am-12:00 pm	**AAVLD Accreditation Committee COMMITTEE ONLY** Cedar BC
8:00 am-12:00 pm	**AAVLD Parasitology Committee** Imperial E/F
8:00 am-5:00 pm	**AAVLD Informatics Committee** Colony B/C
8:00 am-5:50 pm	**15th CL Davis: Diagnostic Dermatopathology Symposium** Guilford F
10:00 am-12:00 pm	**Laboratory Emergency Management Committee** Imperial D
10:00 am-12:00 pm	**AAVLD Epidemiology Committee** Oak A/B
11:00 am-1:00 pm	**LCEM User Group** Cedar A
12:00-5:00 pm	**USAHA Executive Committee Lunch** Oak C
12:00-6:00 pm	Poster Session - setup posters Third Floor
12:30-1:30 pm	**AAVLD Subcommittee on Bacteriology and Mycology** Imperial A/B
1:00-2:00 pm	**ABVT Annual Meeting** Imperial E/F
1:00-3:00 pm	**AAVLD Virology Committee** Imperial G/H
1:00-5:00 pm	**AAVLD Executive Board** Cedar B/C
1:00-5:00 pm	**AAVLD Quality Assurance Committee** Imperial D
1:00-6:00 pm	**National Assembly of State Animal Health Officials** Guilford G
1:30-2:15 pm	**AAVLD Subcommittee on Antimicrobial Susceptibility Testing Business Meeting** Imperial A/B
2:00-6:00 pm	**AAVLD/AAVCT Business Meeting & Case Presentations** Oak A/B
2:30-4:30 pm	**AAVLD Diagnostic Bacteriology case reports** Imperial A/B
4:00-6:00 pm	**AAVLD Editorial Board of Journal of Veterinary Diagnostic Investigation (JVDI)** Imperial E/F
3:00-5:00 pm	**AAVLD Laboratory Technology Committee** Imperial G/H
5:00-6:00 pm	**Vet-LIRN meeting** Meadowbrook
5:00-6:00 pm	**AAVLD Constitution, Bylaws and Resolutions Committee** Riverdale
6:00-9:00 pm	**AAVLD Reception and Foundation Auction** Guilford B/C

Daily Events (cont.) Saturday, October 15

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

7:00-8:00 am **AAVLD Foundation Committee** Links

7:45-11:30 am **AAVLD Plenary Session - Precision Diagnostic Medicine: Game Changing Technology … Is Your Lab Ready?** Imperial D

Moderators: Patrick G. Halbur and Stephen B. Hooser

- 7:45 am Welcome
- 7:50 am The National Microbiome Initiative: Opportunities for diagnostic medicine and beyond - Jo Handelsman
- 8:30 am Progress on the food animal microbiome and relevance to veterinary diagnostic medicine...using next generation sequencing to unravel complex infectious diseases - Paul Plummer
- 9:00 am Progress on the companion animal microbiome and relevance to veterinary diagnostic medicine - Jan Suchodolski
- 9:30 am Break
- 10:00 am Precision Medicine: An opportunity for a paradigm shift in veterinary diagnostic medicine - K.C. Kent Lloyd
- 10:30 am Advances in the use of molecular techniques to detect and monitor antimicrobial resistance - Nicole Ricker
- 11:00 am Use of metabolomics in veterinary diagnostic medicine - Elizabeth Ryan

8:00 am-1:00 pm **JOINT Committee on Animal Emergency Management** Auditorium IV

9:00 am-6:00 pm **AAVLD Exhibits** Beverages 9:30-10:15 & 11:30-1:00; food & bev 3:00; wine/cheese 5:00 Third Floor

9:00 am-6:00 pm **AAVLD Poster Session** Third Floor

11:30 am-12:15 pm **AAVLD House of Delegates and General Membership** Imperial D

11:30 am-12:30 pm **LCEM User Group** Cedar A/B

12:00-1:30 pm **JOINT Student Luncheon** Augusta B

1:00-3:00 pm **AAVLD Scientific Session Pathology I** Imperial A

Moderators: Jamie Henningson and Pablo E. Pineyro

- 1:00 pm Pathology findings in veterinary pharmacovigilance cases at the Oklahoma Animal Disease Diagnostic Laboratory: 2013-2015 Keith L. Bailey, Yoko Nagamori, Akhilesh Ramachandran, Grant Rezabek
- 1:15 pm A retrospective study of inflammatory conditions of the large intestine in race horses in California : 1990 – 2015 + Karina Cecilia Fresneda, Luis Hoyos, Ashley E. Hill, Francisco R. Carvallo, Santiago Diab, Francisco Uzal
- 1:30 pm Ribonucleic acid (RNA) decay and the estimation of the postmortem interval (PMI) in horses # + † ◊ - Nanny Wenzlow
- 1:45 pm Detection of Bovine Viral Diarrhea virus (BVDV) in a Holstein heifer with mucosal disease - Melissa Behr, Kathy L. Toohey-Kurth, Sheila McGuirk, Sarah Jacob
- 2:00 pm Hyperplastic goiter in adult dairy cattle *Scott D. Fitzgerald, Chee Bing Ong, Thomas H. Herdt*
- 2:15 pm An influenza D virus vaccine protects cattle from respiratory disease caused by homologous challenge - *Jamie Henningson, Ben Hause, Lucas Huntimer, Shollie Falkenberg, Jodi McGill, Tom Halbur*

Daily Events (cont.) Saturday, October 15

- 2:30 pm Documentation for a suspect animal cruelty case in a miniature horse - *Doris Marie Miller*
- 2:45 pm Clinical and pathologic characterization of an outbreak of highly pathogenic avian influenza H7N8 in commercial turkeys in southern Indiana - Grant N. Burcham, Jose A. Ramos-Vara, Duane A. Murphy

1:00-3:00 pm **AAVLD Scientific Session Bacteriology I** Imperial B

Moderators: John Dustin Loy and Claire Miller

- 1:00 pm Antimicrobial Susceptibility Testing in Veterinary Diagnostic Laboratories in the United States - Beth Harris, David Dargatz, Matthew M. Erdman, Sarah Tomlinson
- 1:15 pm Increased frequency of isolation of multi-drug resistant *Salmonella* I 4,[5],12:i:- from swine with histologic lesions consistent with salmonellosis - Adam Krull, Bailey Lauren Arruda, Kent L. Schwartz, Eric Burrough, Orhan Sahin, Amanda Kreuder
- 1:30 pm Culture and Sensitivity Results from Canine and Feline Cystocentesis Samples (2008-2014) - Emily Knebel, Stephen Cole, Shelley C. C. Rankin
- 1:45 pm Antimicrobial susceptibility of *Streptococcus suis* isolated from diseased pigs from a veterinary diagnostic laboratory in the Midwest United States: Association between isolation site, serotype and resistance - Orhan Sahin, Curt Thompson, Lei Dai, Adam Krull, Eric Burrough
- 2:00 pm Monitoring and source tracking of multiple antimicrobials resistant enteropathogenic *E. coli* and resistant genes in a dairy farm † - Asmaa Nady Mohamed
- 2:15 pm Creation of a MALDI-TOF Library to Identify *Aeromonas salmonicida* # * † - Tessa LeCuyer, Timberly Maddox, Dubraska Vanessa Diaz-Campos, Kevin R. Snekvik
- 2:30 pm Validation and optimization of the NIH Mold Database for MALDI-TOF MS in veterinary diagnostic setting § - Niesa Kettler, Karen Parlor, Rinosh Joshua Mani
- 2:45 pm MALDI-TOF as a novel detection method for *Clostridium difficile* toxins - Kenitra Hammac, Dian Dian Lin, Kelly Ray, Christina Wilson

1:00-3:00 pm **AAVLD Scientific Session Epidemiology I** Imperial C

Moderators: Michael Martin and Craig N. Carter

- 1:00 pm An evaluation of the performance of pre-movement active surveillance testing protocol options for moving pullets during an outbreak of highly pathogenic avian influenza - Sasidhar Malladi, Peter Bonney, Todd Weaver, Amos Ssematimba, David Halvorson, Carol Cardona
- 1:15 pm Small flock poultry diagnostics and veterinary training: a new approach to a capacity and emergency preparedness issue - Melanie K. Barham, Marina Louise Brash, Csaba Varga, Leonardo Susta, Lloyd Weber, Al Dam, Elizabeth Black, Michael Petrik, Michele Guerin

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1:30 pm Evaluating the role of distance in the 2015 HPAI outbreak in Minnesota via a spatial transmission kernel - Peter Bonney, Sasidhar Malladi, Todd Weaver, Amos Ssematimba, David Halvorson, Carol Cardona

1:45 pm A comparison of modeling approaches for estimating within-flock disease transmission parameters for the 2015 H5N2 highly pathogenic avian influenza virus outbreak in the United States ◊ - Amos Ssematimba, Sasidhar Malladi, Todd Weaver, Peter Bonney, Kelly Patyk, David Halvorson, Carol Cardona

2:00 pm Influenza receptor distribution in little brown bats *(Myotis lucifugus)* – uncovering the missing link in the influenza virus evolution # * † - Shubhada Krishna Chothe, Ruth Nissly, Gitanjali Bhushan, Yin-Ting Yeh, Miranda Sill, Justin Brown, Gregory Turner, Jenny Fisher, Mauricio Terrones, Bhushan Jayarao, Suresh V. Kuchipudi

2:15 pm Spatial autocorrelation and implications for oral fluid-based PRRSV surveillance * † - Marisa Rotolo, Monica Haddad, Yaxuan Sun, Luis Gabriel Gimenez-Lirola, Sarah Bade, Chong Wang, Dave Baum, Phillip Gauger, Marlin Hoogland, Rodger Main, Jeff Zimmerman

2:30 pm Epidemiology and management of endemic CWD in farmed elk through antemortem rectal biopsy testing † ◊ - Sara Wyckoff, Davin Henderson, Dan Love, Ed Kline, Aaron Lehmkuhl, Bruce V. Thomsen, Nicholas James Haley

2:45 pm Twenty-four year retrospective study of adenovirus hemorrhagic disease in California deer - Leslie Willis Woods, Brant Shumaker, Howard Lehmkuhl, Patricia Pesavento, Beate Crossley, Pam Swift

1:00-3:00 pm **AAVLD Scientific Session Virology I** Imperial F

Moderators: Jianqiang Zhang and Douglas Marthaler

1:00 pm PEDV shedding patterns and antibody kinetics in commercial growing pigs * † - Jordan Bjustrom Kraft, Katie Woodard, Luis Gabriel Gimenez-Lirola, Marisa Rotolo, Chong Wang, Yaxuan Sun, Pete Lasley, Jianqiang Zhang, Dave Baum, Phillip Gauger, Rodger Main, Jeff Zimmerman

1:15 pm Serum and mammary secretion antibody responses in PEDV-exposed gilts following PEDV vaccination * † - Jordan Bjustrom Kraft, Katie Woodard, Luis Gabriel Gimenez-Lirola, Blake Setness, Ju Ji, Pete Lasley, Eric A. Nelson, Jianqiang Zhang, Dave Baum, Phillip Gauger, Jeff Zimmerman, Rodger Main

1:30 pm Quantifying the effect of lactogenic antibody on porcine epidemic diarrhea virus infection in neonatal piglets * † - Korakrit Poonsuk, Jianqiang Zhang, Qi Chen, Wendy Gonzalez, Lucas Correa da Silva Carrion, Yaxuan Sun, Chong Wang, Rodger Main, Jeff Zimmerman, Luis Gabriel Gimenez-Lirola

1:45 pm Pathogenesis and antibody responses of porcine deltacoronavirus in weaned pigs † - Qi Chen, Phillip Gauger, Joseph Thomas, Michael Welch, Priscilla Gerber, Tanja Opriessnig, Paulo Arruda, Drew Magstadt, Luis Gabriel Gimenez-Lirola, Jianqiang Zhang

2:00 pm Pathogenesis of Senecavirus A in swine - Lok R. Joshi, Maureen H. V. Fernandes, Travis Clement, Steven R. Lawson, Fabio Vanucci, Eric A. Nelson, Diego G. Diel

2:15 pm Serological and molecular detection of Senecavirus A associated with an outbreak of swine idiopathic vesicular disease and neonatal mortality ◊ - Luis Gabriel Gimenez-Lirola, Christopher Rademacher, Daniel Correia-Lima-Linhares, Karen Harmon, Marisa Rotolo, Yaxuan Sun, Dave Baum, Jeff Zimmerman, Pablo E. Pineyro

2:30 pm Outbreak of a pandemic H1N1 influenza virus in a swine herd - Yan Zhang, Leyi Wang

2:45 pm Experimental infection of U.S. swine with HeN1 variant Pseudorabies virus of Chinese origin: Coverage of diagnostic assays and commercial vaccines - Rachel M. Tell, Sabrina L. Swenson, Tracy L. Sturgill, Richard Clayton, Katie Mozingo, Leo G. Koster, Melinda Jenkins-Moore, Tamara J. Beach, Ann Predgen, Dawn R. Toms

1:00-3:00 pm **AAVLD Scientific Session Serology** Imperial G

Moderators: Dave Baum and Devi P. Patnayak

1:00 pm Statistical process control (SPC) charts: The operational definition for ELISA quality - Dave Baum, Kelly Boesenberg, Jeff Zimmerman, Luis Gabriel Gimenez-Lirola, Rodger Main, Chong Wang, Calista Koeneke

1:15 pm Assessment of ELISA discrepant Equine Infectious Anemia (EIA) samples submitted to the National Veterinary Services Laboratories ◊ - Tiffany Palmer, Kevin Lake, Tracy L. Sturgill

1:30 pm Diagnosis of *Brucella canis* infection using serologic assays - Yan Zhang, Jing Cui, Mary Beth Weisner, Anne Parkinson, Jeffrey R. Hayes, Beverly Byrum

1:45 pm Detecting circulating antigens in dogs naturally infected with *Heterobilharzia americana* # * † - Jessica Yvonne Rodriguez, Govert J. Van Dam, Karen F. Snowden

2:00 pm Serological responses to Senecavirus A infection in pigs - Lok R. Joshi, Steven R. Lawson, Maureen H. V. Fernandes, Jane Christopher-Hennings, Eric A. Nelson, Diego G. Diel

2:15 pm Rapid, simple and innovative diagnosis of Classical Swine Fever - Carsten Schroeder, Stefanie Fritsche, Claudia Engemann, Alexander Postel, Paul Becher, Denise Meyer

2:30 pm Serologic detection of equine antibodies to vaccine and field strains of rabies virus using a multiplex microsphere-based assay - Susan M. Moore, Kaitlin Haukos, Kelley Black, Beth Davis, Melinda Wilkerson

2:45 pm Duration of serum antibody response to rabies vaccination in horses - Alison Harvey, Johanna Watson, Stephanie Brault, Judy Edman, Susan M. Moore, Philip Kass, W. David Wilson

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† Graduate Student Oral Presentation Award Applicant

1:00-3:00 pm **AAVLD Scientific Session Molecular Diagnostics and Bioinformatics 1** Imperial H

Moderators: Pamela J. Ferro and Laura B. Goodman

1:00 pm Rapid microbiome profiling using high performance bioinformatic tools and curated genomic databases - Nur A. Hasan, Poorani Subramanian, Richard Isom, Manoj Dadlani, Karl Nestor, Steve Lerner, Rita Colwell

1:15 pm Identification of multiple pathogens in clinical samples using Kraken algorithm-based bioinformatics analysis pipeline ◊ - Ying Zheng, Qi Chen, Baoqing Guo, Jianqiang Zhang, Phillip Gauger, Kyoung-Jin Yoon, Sarah Bade, Wendy R. Stensland, Karen Harmon, Rodger Main, Ganwu Li

1:30 pm Evaluation of targeted next generation sequencing for detection of bovine pathogens in clinical samples - Eman Anis, Ian K. Hawkins, Marcia Ilha, Moges Woldemeskel Woldemariam, Jeremiah T. Saliki, Rebecca P. Wilkes

1:45 pm High-throughput whole genome sequencing of porcine reproductive and respiratory syndrome virus from cell culture materials and clinical specimens using next-generation sequencing technology - Jianqiang Zhang, Ying Zheng, Qi Chen, Sarah Bade, Kyoung-Jin Yoon, Karen Harmon, Phillip Gauger, Rodger Main, Ganwu Li

2:00 pm Detecting porcine coronaviruses PEDV, PDCoV, and TGEV by real-time reverse transcriptase PCR - Robert Sterling Tebbs, Angela Burrell, Adam Allred, Michelle Swimley, Quoc Hoang, Johnny Callahan, Richard Conrad

2:15 pm Application of digital PCR for the detection and association of major Shiga toxigenic *Escherichia coli* serogroups and key virulence genes - Jianfa Bai, Xuming Liu, Lance Wade Noll, Xiaorong Shi, Andrew O'Guin, Jamal Mitchell, Brent Dalke, T.G Nagaraja, Gary Anderson

2:30 pm Evaluation of a multispecies nanoscale PCR array for detection of enteric pathogens - Laura B. Goodman, Renee R. Anderson, Rebecca Franklin-Guild, James R. Ryan, Anil J. Thachil, Amy Glaser

2:45 pm Validation and implementation of a 48-hour CWD test in hunter and diagnostic veterinary submitted samples - Davin Henderson, Nicholas James Haley, Edward Hoover

1:00-3:00 pm **AAVLD Laboratory Administrative Management Personnel Committee** Imperial E

1:00-6:00 pm **National Assembly of State Animal Health Officials** Guilford G

3:00-4:00 pm **AAVLD Poster Session – Authors present** Third Floor

3:00-5:00 pm **Committee on Diagnostic Laboratory and Veterinary Workforce Development** Imperial C

3:00-5:00 pm **AAVLD Laboratory Safety Committee** Cedar A/B

3:00-6:00 pm **Applied Animal Health, Public Health Research and Extension Veterinarians Symposium** Pebble Beach

3:30-4:15 pm **AAVLD Bacteriology Steering Committee** Imperial B

3:30-5:30 pm **AAVLD Government Relations Committee** Imperial E

3:30-5:45 pm **AAVLD Diagnostic Pathology Slide Seminar** Imperial A

3:30-6:30 pm **JOINT Committee on Environment and Toxicology** Imperial G

5:30-7:30 pm **AAVLD/NAHLN Laboratory Directors Committee** Augusta

6:00-6:30 pm **Biovet innovates again with Multiplex serology, ELISA diagnostic kits and a brand new qPCR product line** Imperial F

6:00-8:00 pm **USAHA Trichomoniasis Subcommittee of Infectious Diseases of Cattle, Bison and Camelids** Cedar A/B

6:00-8:00 pm **Extension Veterinarians Business Meeting** Pebble Beach

6:00-8:30 pm **USAHA Committee on Program** Oak

6:00-8:30 pm **AAVLD Gross Pathology Mock Examination** Imperial A

6:00-10:00 pm **Board of Directors of the American Association of Food Safety and Public Health Veterinarians** Olympia

6:30-7:00 pm **Thermo Fisher: Meeting today's diagnostic needs - innovating for tomorrow's challenges** Imperial B

6:30-7:00 pm **Qiagen - Explore new frontiers with Qiagen's sample to insight solutions for animal health** Imperial F

7:00-8:30 pm **USA LIMS User Group** Imperial E

8:00-11:00 pm **Saturday Night Reception, hosted by IDEXX** Club Fifth

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

6:30-8:00 am **Prayer Breakfast** Grandover East

7:00-8:30 am **USAHA District Breakfast (NE, S, W, NC, Allied), sponsored by Trace First** Blue Ashe

8:00-9:45 am **AAVLD Scientific Session Bacteriology 2** Imperial B

Moderator: Kris A. Clothier

8:00 am *Streptococcus halichoeri*, an emerging zoonotic pathogen. § - Eric W. Lee, Rebecca Franklin-Guild, Anil J. Thachil

8:15 am Factors and causal organisms associated with bacterial abscesses in goats from cases submitted to the California Animal Health and Food Safety Lab System from 2007-2014 - Kris A Clothier, Michelle Schack, Ashley E. Hill

8:30 am Phenotypic characteristics and virulence genotypes of *Trueperella pyogenes* strains isolated from ruminants - Artem Rogovskyy, Sara Lawhon, Kay Dunkan, Chris Gillis, Helen Hurley, Kathryn Kuczmanski, Kranti Konganti, Jing Wu, Ching-Yuan Yang

8:45 am Assessing genetic diversity within *Moraxella* isolates from cattle; application of high resolution melt analysis for rapid sequence typing - John Dustin Loy, Joshua Payne, Aaron Dickey, Michael L. Clawson

9:00 am Validation of a 24-hour enrichment followed by quantitative PCR to decrease turnaround time and improve detection of *Salmonella* in clinical samples and environmental surveillance - Adam Krull, Carly Kanipe, Karen Harmon, Laura Bradner, amanda Kreuder

9:15 am Genotypic and phenotypic characterization of *Salmonella enterica* serovar *Dublin* in cattle - Milton Thomas, Anil J. Thachil, Sudeep Ghimire, Amy Glaser, Angela E. Pillatzki, Russ Daly, Eric A. Nelson, Jane Christopher-Hennings, Joy Scaria

9:30 am International impact of invalid *Salmonella* laboratory testing methods on public health - Megin Nichols

8:00-9:45 am **AAVLD Scientific Session Virology 2** Imperial F

Moderator: Diego G. Diel

8:00 am Complete genome sequencing and phylogenic analysis of cervid adenovirus from naturally occurring cases in Wyoming, Washington, and Colorado - Myrna M. Miller, Todd Cornish, Jennifer McKenna, Marce Vasquez

8:15 am Identification of a novel virus causing mass mortalities in an endangered species of freshwater turtle - Jing Zhang, Melinda Frost, Andrew J. Read, Mukesh Srivastava, Kate Parrish, Deborah S. Finlaison, Sarah Gestier, Xingnian Gu, Jane Hall, Karrie Rose, Peter Daniel Kirkland

8:30 am Observations on embryo mortality during avian influenza virus propagation from wild birds - Beate Crossley, Munashe Chigerwe, Kathy L. Toohey-Kurth, Hon Ip, Mia Kim Torchetti, John Baroch

8:45 am Evaluation of oral swabs as a sample for FMDV surveillance - Peter Daniel Kirkland, Rodney J. Davis, Bernd Haas, Kerstin Wernike, Martin Beer

9:00 am Detection of Foot and Mouth Disease virus serotypes and persistence of infection induced antibody against FMD in naturally infected cattle # † ◊ - Laila Akhter

9:15 am *In vivo* bioluminescent imaging of J Paramyxovirus (JPV) infection # † - Mathew Abraham, Zhuo Li, Biao He

9:30 am Break

10:15-11:30 am **AAVLD Molecular Diagnostics and Informatics 2** Imperial F

Moderator: Karen Harmon

10:15 am Development and validation of the VetMAXTM-Gold MAP detection kit - Angela Burrell, Ivan Leyva Baca, Rohan Shah, Daniel Kephart

10:30 am Comparison of four DNA extraction methods for the detection of *Mycobacterium avium* subspecies *paratuberculosis* from the VersaTrek broth cultures by polymerase chain reaction - Nagaraja Thirumalapura, Willard Feria, Deepanker Tewari

10:45 am Improved performance and turnaround time of PRRSV PCR using optimized TaqMan® Fast Virus 1-Step Master Mix - Kelly Smith, Sarah Bade, Phillip Gauger, Karen Harmon

11:00 am Prevalence of Porcine Parainfluenza Virus Type 1 (PPIV-1) in diagnostic specimens § - Kevin Lin, Sarah Bade, Karen Harmon, Pablo E. Pineyro, Jianqiang Zhang, Phillip Gauger

11:15 am Survey of inhibitor resistance in qPCR/qRTPCR master mixes ◊ - Derek Grillo, Sarah Read, Sharon Matheny, Richard Conrad

8:00-11:30 am **AAVLD Scientific Session Epidemiology 2** Imperial C

Moderators: Albert Rovira and Ashley E. Hill

8:00 am Agricultural animal population database and case study for the DTRA BSVE ◊ - Jamie L. Barnabei, Anna M. Dixon, Danielle S. Fields, Catharine Weber, Shawn S. Jackson, Erin T. Lauer, Eric Hess, Margaret A. Rush

8:15 am Achieving efficiency: Systems for receiving case submissions in a high throughput veterinary diagnostic laboratory - Katie Woodard, Michelle Grabosch, Kelly Boesenberg, Wendy R. Stensland, Dave Baum, Rodger Main

8:30 am Attaining document control compliance using the I.D.E.A.S. framework - Susan L. Martin, Thomas James Reilly, Timothy Evans, Shuping Zhang

8:45 am Podcasts as a tool to enhance communications, lab sample quality, continuing education, and emergency preparedness with practicing veterinarians - Melanie K. Barham, Andrew Vince, Michael Deane

9:00 am U.S. survey of AAVLD veterinary dagnostic laboratory Leptospirosis diagnostic capabilities - Gloria Gellin, Craig N. Carter, Jackie Smith, Erdal Erol

9:15 am Break

10:00 am Holstein single nucleotide polymorphisms analyzed by genome wide association study for associations with mastitis resistance and susceptibility - David J. Wilson

10:15 am Frequency of detection and serotype distribution of Salmonella in backyard poultry flocks in California - Kris A. Clothier, Asli Mete, Ashley E. Hill

10:30 am Vesicular stomatitis virus in Colorado horses: seroprevalence and associated risk factors * † - Anna Claire Fagre, Kristy Pabilonia, Gabriele Landolt, Christie Mayo

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10:45 am A deterministic model to quantify risk and guide mitigation strategies to reduce bluetongue virus transmission in California dairy cattle - Christie Mayo, Courtney Shelley, N. James MacLachlan, Ian Gardner, David Hartley, Christopher Barker

11:00 am Estimation of sensitivity of pooled sample testing in surveillance for dwarf gourami iridovirus *(Infectious spleen and kidney necrosis virus)* - Paul M. Hick, Sophia Johnson, Andrew Robinson, Alison Tweedie, Anneke Rimmer, Joy A. Becker

11:15 am A qualitative risk assessment of likelihood of introduction of Brucella serotypes into Egypt from Sudan via illegal camel trade † ◊ - Asmaa Nady Mohamed

8:00-11:30 am **AAVLD Scientific Session Toxicology** Imperial G

Moderators: David Borts and Larry J. Thompson

8:00 am Metabolomics tools…is your lab ready? David Borts

8:15 am A metabolomics study for detection of novel serum biomarkers of microcystin LR intoxication - Ann Perera, Lucas Showman, Elisiane Camana, Belinda Mahama, Poojya Vellareddy Anantharam, Wilson Kiiza Rumbeiha

8:30 am Translational studies on efficacy of cobinamide or thiamine for treatment of hydrogen sulfide-induced neurodegeneration - Poojya Vellareddy Anantharam, Elizabeth Whitley, Belinda Mahama, Dongsuk Kim, Dwayne Edward Schrunk, Paula Martin Imerman, Gerard Boss, Wilson Kiiza Rumbeiha

8:45 am Xylitol detection in meat and dog food by fourier transform infrared spectroscopy - Deon Van der Merwe, Keith B. Byers

9:00 am Paint ball toxicosis: A case review ◊ - Dwayne Edward Schrunk, Steve M. Ensley, Laura Vander Stelt

9:15 am Break

10:00 am Eaglet Poisoning: A case review - Dwayne Edward Schrunk, Steve M. Ensley, Pat Schlarbaum

10:15 am Update of the inter-laboratory evaluation of a high performance liquid chromatography-fluorescence method for detection and quantification of aflatoxins B1 and M1 in animal liver - Xiangwei Du, Dahai Shao, Dwayne Edward Schrunk, Paula Martin Imerman, Chong Wang, Steve M Ensley, Elizabeth R. Tor, John Tahara, Cynthia Gaskill, Lori Smith, Wilson Kiiza Rumbeiha

10:30 am Intra-laboratory evaluation of an extended urine-based quantitative diagnostic method for aflatoxicosis - Xiangwei Du, Dahai Shao, Dwayne Edward Schrunk, Paula Martin Imerman, Steve M. Ensley, Wilson Kiiza Rumbeiha

10:45 am Lead contamination in backyard chicken flocks - Incidence and exposure assessment in positive cases # - Arya Sobhakumari, Lisa Branch, Sabine Hargrave, Robert H Poppenga

11:00 am Manganese deficiency implicated in a case of angular limb deformities in yearling ewes # * † - Jaimie Strickland, Dodd Gray Sledge, Thomas Herdt

11:15 am Organophosphate/carbamate poisoning: Is acetylcholinesterase inactivation a biomarker of interpretation or misinterpretation? - Ramesh C. Gupta, Michelle Lasher, Robin Doss

8:00-11:45 am **AAVLD Scientific Session Pathology 2** Imperial A

Moderators: Dodd Gray Sledge and Rachel Derscheid

8:00 am Nutritional steatitis in salmonids from the Western United States ◊ - Danielle Darracq Nelson, Bethany Frances Balmer, Kevin R. Snekvik

8:15 am Canine ocular melanocytic neoplasms: morphologic and immunohistochemical evaluation # + † - Erica Noland, Megan Climans, Matti Kiupel, Dodd Gray Sledge

8:30 am Proliferative thrombovascular necrosis of the pinnae in dogs # + - Rahul Babulal Dange, Katherine Barnes, Barbara Steficek, Matti Kiupel

8:45 am Concurrent ocular T cell lymphoma with lineage infidelity and histiocytic sarcoma with B cell receptor IGH gene clonality in a cat (felis catus) † - Katie Jean Barnes, Matti Kiupel, Jean Stiles, Madison Operacz, Dodd Gray Sledge

9:00 am Chromatophoromas in bearded dragons # + † - Colleen F. Monahan, Michael Garner, Anne Meyer, Kristen Phair, Gary West, Matti Kiupel

9:15 am Evaluation of pathogenicity and viral quasispecies diversity of genetically distinct strains of Rift Valley Fever virus in a mice model - Vinay Shivanna, Aaron Balogh, Chester McDowell, Anne Sally Davis, William C. Wilson, Juergen Richt

9:30 am Break

10:15 am Development of posterior ataxia, paralysis and myelitis in cesarean-derived colostrum-deprived pigs following experimental inoculation with either *Teschovirus A* serotype 2 or serotype 11 # - Franco Sebastian Matias Ferreyra, Bailey Lauren Arruda, Darin Madson, Kent L. Schwartz, Gregory Stevenson, Jianqiang Zhang, Qi Chen, Kyoung-Jin Yoon, Paulo Arruda

10:30 am An outbreak of mycoplasmosis causing arthritis, pneumonia and meningitis in dairy goat kids - Gayle C. Johnson, William H. Fales, Thomas James Reilly, Brian M. Shoemake, Pamela R.F. Adkins, John R. Middleton, Fred Williams, W. Jefferson Mitchell, Michael Calcutt

10:45 am Arsenic toxicosis in dairy calves - Alexander D. Hamberg, Lisa A. Murphy, Lore Boger

11:00 am Morphological correlation of gammaherpesvirus-5 cellular replication with immune and inflammatory responses in equine multinodular pulmonary fibrosis - Brieuc Cossic, Matthew Pennington, Gerlinde Van de Walle, Amy Glaser, Gerald E. Duhamel

11:15 am Pathologic findings in horses experimentally infected with Equine herpesvirus-1 and mutants of differing neuropathogenic potential - Dodd Gray Sledge, Matti Kiupel, Carine Holz, M. Wilson, Lila Marek Zarski, Rahul K. Nelli, Anthony Pease, Walid Azab, Klaus Osterrieder, Lutz S. Goehring, Gisela Soboll Hussey

11:30 am Diagnostic challenges in the first confirmation of sporadic bovine encephalomyelitis (*Chlamydia pecorum* encephalitis) in New Zealand - Kelly Buckle, Hayley Hunt, John Munday, Geoff Orbell, Hye-Jeong Ha

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Daily Events (cont.) Sunday, October 16

8:00 am-12:00 pm **AAVLD Laboratory Administrative Management Personnel Committee** Imperial H

8:00 am-12:00 pm **Food Safety Symposium hosted by the American Association of Food Safety and Public Health Vets (AAFSPHV) in joint with National Association of Federal Vets (NAFV)** Victoria A

9:00-11:30 am **Northeast District Meeting** Sandpiper

9:00-11:30 am **North Central District Meeting** Tidewater

9:00-11:30 am **Southern District Meeting** Pebble Beach

9:00-11:30 am **Western District Meeting** Victoria C

9:00 am-12:00 pm **AAVLD Poster Session** Third Floor

9:00 am-1:00 pm **AAVLD Exhibits** – food & beverages Third Floor

9:30 am-12:00 pm **Spouses Brunch** Pinehurst

12:00-1:00 pm **USAHA Committee on Audit** Oyster Bay

12:00-2:00 pm **AAVLD Pathology Committee** Imperial C

12:00-3:00 pm **JOINT Committee on NAHLN** Grandover East (National Animal Health Laboratory Network)

12:30-5:00 pm **USAHA Committee on Wildlife Diseases** Victoria A

12:30-5:30 pm **JOINT Committee on Aquaculture** Imperial B

12:30-5:30 pm **USAHA Committee on Import, Export and International Standards** Victoria B

Time Specific Paper
Committee on Import, Export & International Standards
Sunday, October 16 • 1:45pm

FDA and APHIS regulations associated with the import of animal feed, ingredients, and feed containers

Shannon Jordre, FDA Center for Veterinary Medicine, Division of Compliance; Adis Dijab, USDA-APHIS, National Import-Export Services

Time Specific Paper
Committee on Import, Export & International Standards
Sunday, October 16 • 2:35pm

EU Measures to Control African Swine Fever (ASF) & the Spread of Lumpy Skin Disease

Francisco Reviriego – EU commission

12:30-5:30 pm **USAHA Committee on Infectious Diseases of Cattle, Bison and Camelids** Pebble Beach

12:30-5:30 pm **USAHA Johne's Disease Committee** Victoria C

12:30-5:30 pm **USAHA Scientific Advisory Subcommittee on Brucellosis and USAHA Subcommittee on Brucellosis in the Greater Yellowstone Area** Tidewater

1:00-6:00 pm **USAHA Display Tables** Third Floor

1:30-5:30 pm **JOINT Committee on Food and Feed Safety** Imperial G

2:00-5:30 pm **APHIS-VS** Imperial D

Daily Events (cont.) Sunday, October 16

2:00-5:00 pm **AAVLD Racehorse Pathology/Diagnostics Special Session, sponsored by The Jockey Club, Agilent, and Centaur** Imperial A

Chair and co-chair: Francisco Uzal (UC Davis) and Laura Kennedy (University of Kentucky)

2:00 pm Basic anatomic and pathological nomenclature of the musculoskeletal system in race horses. Approach to finding pre-existing lesions - Sue Stover (UCDavis)

2:45 pm Post-mortem protocol for musculoskeletal lesions of race horses - Santiago Diab (UCDavis)

3:15 pm Break-refreshments

3:30 pm Regulatory aspects of horse racing pathology - Mary Scollay (Kentucky Horse Racing Commission) and Megan Romano (University of Kentucky)

4:00 pm The race horse post-mortem program in Kentucky - Laura Kennedy (University of Kentucky)

4:15 pm The race horse post-mortem program in Oklahoma - Grant Rezabek (Oklahoma State University).

4:30 pm The race horse post-mortem program in California - Francisco Uzal (UCDavis)

4:45 pm General discussion

3:00-5:00 pm **AAVLD-NSVL Proficiency Testing Committee** Imperial C

3:00-6:00 pm **AAVLD – Strategic Planning Committee** Imperial H

3:00-6:00 pm **JOINT Committee on Animal Health Surveillance and Information System** Imperial F

4:00-5:30 pm **USAHA District at-Large Meeting (Allied, Industry, and Regional Delegates)** Sandpiper

5:00-6:00 pm **USAHA New Member Orientation** Grandover East

5:30-6:30 pm **Presidents' Reception** Guilford A/B/C

6:30-9:00 pm **USAHA/AAVLD President's Dinner & General Meeting** Guilford ABC

Sponsored by Thermo Fisher Scientific and Merial

Presiding - Dr. Tom Baldwin, AAVLD President and Dr. David Schmitt, USAHA President

Memorial Service
Recognition of Sponsors
Welcome to North Carolina
USAHA President's Remarks
AAVLD President's Remarks
Sponsor Acknowledgement
APHIS Administrator's Award
National Assembly Award
USAHA Awards
AAVLD Awards

Daily Events (cont.) Monday, October 17

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

7:00-8:00 am **AAVLD Past Presidents Breakfast** Olympia
7:00-8:00 am **Continental Breakfast** Imperial Foyer

8:00 am-12:00 pm **JOINT Plenary Scientific Session: Challenges, High Tech Solutions and Success Strategies in Animal Agriculture** Imperial DEFGHI

Moderator: Max Armstrong

8:00 am Opening Remarks - Boyd Parr, Pat Halbur
8:10 am Initial Remarks from Moderator - Max Armstrong
8:25 am Economic challenges and opportunities facing U.S. animal agriculture - David Kohl
9:10 am Challenges and Opportunities for US Animal Agriculture: Meeting the demands of global and domestic markets while fighting burdensome regulation - Dale Moore
9:55 am Panel Discussion
10:05 am Break
10:20 am Experiences with Precision Livestock Farming in Europe - Daniel Berckmans
11:05 am Precision breeding to advance animal health and welfare - Randall Prather
11:50 am Panel Discussion

8:00 am-5:00 pm **USAHA Display Tables** Third Floor
9:30 am-10:00 am **Break** Third Floor
11:00 am-8:00 pm **Directors of State Meat Inspection** Colony A
12:00-12:30 pm **USAHA Membership Luncheon & Meeting, sponsored by Merial** Imperial DEFGHI
12:00-12:45 pm **AAVLD House of Delegates** Colony B
1:00-5:00 pm **USDA-ARS National Animal Health Research Review** Imperial A
1:00-5:00 pm **USAHA Subcommittee on Farmed Cervidae** Augusta
1:00-6:00 pm **USAHA Committee on Infectious Diseases of Horses** Auditorium II
1:00-6:00 pm **USAHA Committee on Transmissible Diseases of Poultry and Other Avian Species** (Monday & Tuesday) Auditorium III
1:00-6:00 pm **USAHA Committee on Brucellosis** Auditorium IV
1:00-6:00 pm **USAHA Committee on Transmissible Diseases of Swine** Grandover West
1:00-6:00 pm **USAHA Committee on Tuberculosis Scientific Advisory Subcommittee** Grandover East
1:30-3:30 pm **AAVLD Committee Chairs and Program Committee** Pebble Beach
2:30-3:30 pm **Break** Third Floor
3:30-5:00 pm **USAHA and AAVLD Executive Committees** Pebble Beach
5:30-8:00 pm **National Association of Federal Veterinarians** Imperial B
6:00-7:00 pm **USAHA Board of Directors Meeting** Imperial D
7:00-10:00 pm **Monday Night Reception, hosted by GlobalVetLINK** Club Fifth

Daily Events (cont.) Tuesday, October 18

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

7:30-9:30 am **USAHA Past President Breakfast** Turnberry
8:00-9:00 am **National Scrapie Oversight Board** Imperial B
8:00 am-12:00 pm **USAHA Committee on Captive Wildlife and Alternative Livestock** Colony B
8:00am-12:00 pm **USAHA Committee on Livestock Identification** Guilford F
8:00 am-12:00 pm **USAHA Committee on Pharmaceutical Issues** Imperial F
8:00 am-12:00 pm **USAHA Committee on Salmonella** Imperial C
8:00 am-5:00 pm **USAHA Display Tables** Third Floor
8:00 am-5:30 pm **USAHA Committee on Foreign and Emerging Diseases** Guilford E

Time Specific Paper
Committee on Foreign and Emerging Diseases
Tuesday, October 18 • 1:30-2:15pm
Global Efforts towards Peste des petits ruminants Eradication
Bouna Diop

8:00 am-5:30 pm **Directors of State Meat Inspection** Colony A
9:00 am-12:00 pm **USAHA Committee on Scrapie** Imperial B
9:30-10:30 am **Break** Third Floor
10:00 am-12:00 pm **American Association of Avian Pathologist Liaison with AVMA** Imperial E
1:00-5:30 pm **USAHA Committee on Public Health and Rabies** Imperial GlH

Time Specific Paper
Committee on Public Health and Rabies
Tuesday, October 18 • 3:40pm
Insights into Rabies Virus Spread as Revealed by Whole Genome Sequencing
Susan A. Nadin-Davis, PhD, Canadian Food Inspection Agency

1:00-5:30 pm **USAHA Committee on Sheep and Goats** Imperial B
1:00-5:30 pm **USAHA Committee on Transmissible Diseases of Poultry and Other Avian Species** (Monday & Tuesday) Auditorium III
1:00-5:30 pm **USAHA Committee on Tuberculosis** Guilford D
1:00-5:30 pm **USAHA Committee on Biologics and Biotechnology** Imperial F
2:30-3:30 pm **Break** Third Floor
6:00-7:00 pm **USAHA Board of Directors Meeting** Imperial D

Level 3

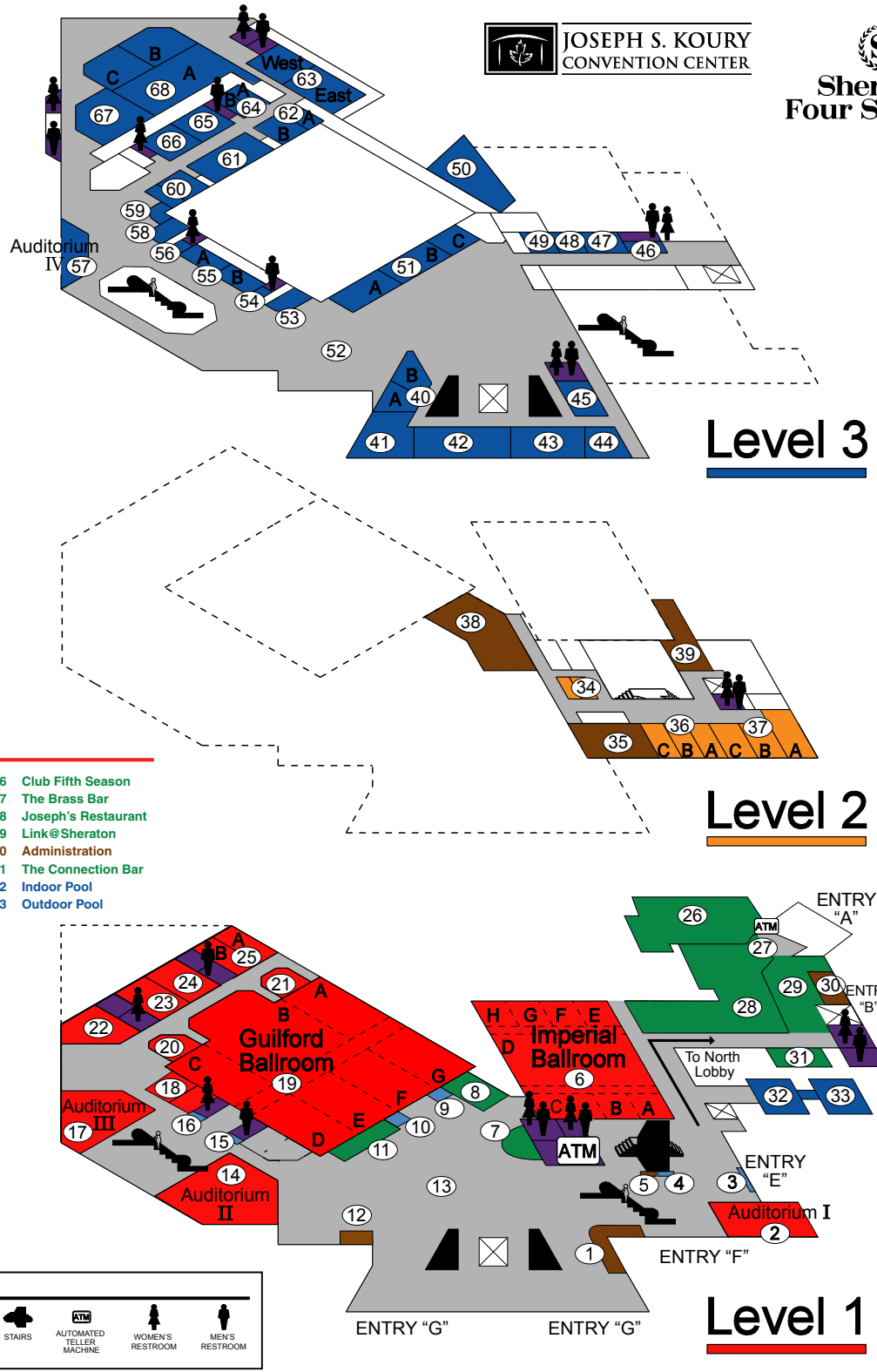
40 Heritage
41 Olympia
42 Turnberry
43 Pinehurst
44 Bear Creek
45 Marsh Harbour
46 Edgewood
47 Meadowbrook
48 Links
49 McCormick
50 Sawgrass
51 Colony
52 Prefunction Area III
53 Riverdale
54 Oyster Bay
55 Arrowhead
56 Eastmoreland
57 Auditorium IV
58 St. Andrews
59 Torry Pines
60 Pebble Beach
61 Edinburgh
62 Augusta
63 Grandover
64 Tidewater
65 Sandpiper
66 Tanglewood
67 Blue Ashe
68 Victoria Ballroom

Level 2

34 Birch
35 Reservations
36 Oak
37 Cedar
38 Sales and Catering
39 Fitness Center

Level 1

1 Hotel Registration
2 Auditorium I
3 Convention Desk I
4 Convention Desk II
5 Concierge
6 Imperial Ballroom
7 The Bar Down Under
8 Skylite Café
9 Convention Desk III
10 Convention Desk IV
11 Café Expresso
12 Gift Shop
13 Prefunction Area I
14 Auditorium II
15 Convention Desk V
16 Convention Desk VI
17 Auditorium III
18 Cardinal
19 Guilford Ballroom
20 Carolina
21 Gate City
22 Old North
23 Blandwood
24 Morehead
25 Biltmore
26 Club Fifth Season
27 The Brass Bar
28 Joseph's Restaurant
29 Link@Sheraton
30 Administration
31 The Connection Bar
32 Indoor Pool
33 Outdoor Pool



Daily Events (cont.) Wednesday, October 19

Registration Hours: 7:30-10:00 am

8:00 am-12:00 pm	**USAHA Display Tables** Third Floor
8:00 am-12:00 pm	**One Health Symposium - Lyme Disease** Auditorium II
8:00 am-12:00 pm	**USAHA Committee on Animal Welfare** Imperial AlB
8:00 am-12:00 pm	**USAHA Committee on Parasitic & Vector Borne Diseases** Imperial C
9:30-10:30 am	**Break** Third Floor
2:00-3:30 pm	**USAHA Business Session - Membership Meeting** Imperial AlB
3:30-4:30 pm	**USAHA Board of Directors Meeting** Imperial D
6:00 pm	**USAHA Executive Committee Meeting and Dinner** Turnberry

2016 USAHA Committees

USAHA/AAVLD Committee on Animal Emergency Management
Chair: Heather Simmons, TX
Vice Chair: Charlotte Krugler, SC

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USAHA/AAVLD Committee on Animal Health Surveillance and Information Systems
Chair: Marianne Ash, IN
Vice Chair: Kate Mueller, IA

Sara Ahola, CO; Bruce Akey, TX; Marianne Ash, IN; James Averill, MI; Rich Baca, CO; Karen Beck, NC; Karen Becker, DC; Tammy Beckham, KS; Lisa Becton, IA; Charlie Broaddus, VA; Stan Bruntz, CO; Craig Carter, KY; Mal Cartwright, AB; Matt Cochran, TX; Marie Culhane, MN; Anita Edmondson, CA; François Elvinger, NY; Tam Garland, TX; Joseph Garvin, VA; Alicia Gorczyca-Southerland, OK; Kristin Haas, VT; Patrick Halbur, IA; Neil Hammerschmidt, MD; Charles Hatcher, TN; Kristi Henderson, IL; Ashley Hill, CA; John Huntley, AZ; Marv Jahde, KS; Annette Jones, CA; Jamie Jonker, VA; Ellen Kasari, CO; Diane Kitchen, FL; Elizabeth Lautner, IA; Donald Lein, NY; Janet Maass, CO; Kevin Maher, IA; Rodger Main, IA; Stu Marsh, AZ; Michael Martin, SC; Rose Massengill, MO; Patrick McDonough, NY; Shelley Mehlenbacher, VT; Gay Miller, IL; Kate Mueller, IA; Roger Parker, TX; Barbara Porter-Spalding, NC; Margaret Rush, MD; Mo Salman, CO; David Scarfe, IL; Stacey Schwabenlander, MN; David Smith, NY; Patricia Stonger, WI; Jessie Trujillo, IA; James Watson, CAN; Patrick Webb, IA; Michelle Willette, MN; Nora Wineland, MO.

2016 USAHA Committees (cont.)

Committee on Animal Welfare
Chair: Belinda Thompson, NY
Vice Chair: Chelsea Good, MO

Bobby Acord, NC; Jamee Amundson, IA; Paul Anderson, MN; Chris Ashworth, AR; James Averill, MI; Deanna Baldwin, MD; Bill Barton, ID; Peter Belinsky, RI; Paul Brennan, IN; Gary Brickler, CA; William Brown, KS; Tom Burkgren, IA; Beth Carlson, ND; Matt Cochran, TX; Stephen Crawford, NH; Susan Culp, TX; Glenda Davis, AZ; Ria de Grassi, CA; Ron DeHaven, CA; Barbara Determan, IA; Linda Detwiler, NJ; Leah Dorman, OH; Brandon Doss, AR; Mark Drew, ID; Roger Dudley, NE; Brigid Elchos, MS; Dee Ellis, TX; Heather Fenton, GA; Kathy Finnerty, MA; Glenn Fischer, TX; Katherine Flynn, CA; Larry Forgey, MO; Kent Fowler, CA; Nancy Frank, MI; Mallory Gaines, CO; Julie Gard, AL; Robert Gerlach, AK; Eric Gingerich, IN; Gail Golab, IL; Eric Gonder, NC; Chelsea Good, MO; James Grimm, TX; Paul Grosdidier, KS; Kristin Haas, VT; Thomas Hairgrove, TX; Rod Hall, OK; Steven Halstead, MI; Charles Hatcher, TN; Bill Hawks, DC; Carl Heckendorf, CO; Julie Helm, SC; Linda Hickam, MO; Robert Hilsenroth, FL; Sam Hines, MI; Heather Hirst, DE; Donald Hoenig, ME; Danny Hughes, AR; Dennis Hughes, NE; John Huntley, AZ; Russell Iselt, TX; Eric Jensen, AL; Annette Jones, CA; Dena Jones, DC; Jamie Jonker, VA; Donna Kelly, PA; Diane Kitchen, FL; Michael Kopp, IN; Daniel Kovich, DC; Eileen Kuhlmann, MN; Dale Lauer, MN; Mary Lis, CT; Pat Long, NE; Travis Lowe, MN; Janet Maass, CO; Bret Marsh, IN; David Marshall, NC; Scott Marshall, RI; Chuck Massengill, MO; Paul McGraw, WI; David Meeker, VA; Emily Meredith, VA; Antone Mickelson, WA; Mendel Miller, SD; Eric Mohlman, NE; Julie Napier, NE; Louis Neuder, MI; Sandra Norman, IN; Dustin Oedekoven, SD; Elizabeth Parker, TX; Boyd Parr, SC; William Pittenger, MO; Maryn Ptaschinski, IA; David Pyburn, IA; John Ragan, VA; Tim Richards, HI; M. Gatz Riddell, Jr., AL; Keith Roehr, CO; Bill Sauble, NM; Travis Schaal, IA; Shawn Schafer, OH; David Schmitt, IA; Dennis Schmitt, MO; Stacey Schwabenlander, MN; Andy Schwartz, TX; Charly Seale, TX; Kathryn Simmons, DC; David Smith, NY; Harry Snelson, NC; Diane Stacy, LA; Matthew Stone, NZ; Nick Striegel, CO; Scott Stuart, CO; Manoel Tamassia, NJ; Robert Temple, OH; Belinda Thompson, NY; Beth Thompson, MN; Brad Thurston, IN; Tracy Tomascik, TX; Alberto Torres, AR; Bob Tully, KS; Jeff Turner, TX; Charles Vail, CO; Liz Wagstrom, DC; Sherrie Webb, IA; Patrick Webb, IA; Michelle Willette, MN; Brad Williams, TX; Cliff Williamson, DC; Nora Wineland, MO; Richard Winters, Jr., TX; Cindy Wolf, MN; Ernest Zirkle, NJ.

USAHA/AAVLD Committee on Aquaculture
Chair: Lester Khoo, MS
Vice Chair: William Keleher, ME

Sara Ahola, CO; James Averill, MI; Peter Belinsky, RI; Y Reddy Bommineni, FL; Deborah Brennan, MS; Gary Brickler, CA; Stan Bruntz, CO; Sandra Bushmich, CT; Beverly Byrum, OH; Lynn Creekmore, CO; Fred Cunningham, MS; Ria de Grassi, CA; Ignacio dela Cruz, MP; Larry Elsken, IA; Nancy Frank, MI; Richard French, NH; Kathleen Hartman, FL; Jerry Heidel, OR; Donald Hoenig, ME; Dudley Hoskins, VA; Hui-Min Hsu, WI; John Huntley, AZ; William Keleher, ME; Donna Kelly, PA; Lester Khoo, MS; Bruce King, UT; Timothy Kniffen, IA; Tsang Long Lin, IN; Regg Neiger, SD; Jenee Odani, HI; Lanny Pace, MS; Amar Patil, NJ; James Roth, IA; David Scarfe, IL; Kevin Snekvik, WA; Manoel Tamassia, NJ; Robert Temple, OH; Lee Ann Thomas, MD; Kathy Toohey-Kurth, WI; John Williams, MD; Anna Wilson, WI; Paul Zajicek, FL.

Committee on Biologics and Biotechnology
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Vice Chair: Joseph Huff, CO

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2016 USAHA Committees (cont.)

Committee on Brucellosis
Chair: Marty Zaluski

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

Thomas Albert, VA; Paul Anderson, MN; Celia Maria Antognoli, CO; James Averill, MI; Kay Backues, OK; Bill Barton, ID; Scott Bender, AZ; Warren Bluntzer, TX; Tom Bragg, NE; Rhonda Brakke, IA; Deborah Brennan, MS; Sarah Cannizzo, OR; Beth Carlson, ND; Walter Cook, TX; Susan Culp, TX; Donald Davis, TX; Jacques deMoss, MO; Barbara Determan, IA; Bob Dittmar, TX; Mark Drew, ID; Roger Dudley, NE; Heather Fenton, GA; John Fischer, GA; Nancy Frank, MI; Richard French, NH; Tam Garland, TX; Robert Gerlach, AK; Paul Gibbs, FL; Colin Gillin, OR; Michael Gilsdorf, MD; Paul Grosdidier, KS; Keith Haffer, SD; Greg Hawkins, TX; Bill Hawks, DC; Kristi Henderson, IL; Michael Herrin, OK; Linda Hickam, MO; Robert Hilsenroth, FL; Brad Hoxit, NC; David Hunter, MT; John Huntley, AZ; Russell Iselt, TX; Donald Janssen, CA; Lori Keresztes, IN; Diane Kitchen, FL; Patrice Klein, DC; Todd Landt, IA; John Lawrence, ME; Chuck Lewis, IA; Mitch Lockwood, TX; Travis Lowe, MN; Mark Luedtke, MN; Bret Marsh, IN; David Marshall, NC; Chuck Massengill, MO; Bob Meyer, CO; Michele Miller, WI; Eric Mohlman, NE; Yvonne Nadler, IL; Julie Napier, NE; Alecia Naugle, MD; Jeffrey Nelson, IA; Cheryl Nelson, KY; Sandra Norman, IN; Tommy Oates, TX; Dustin Oedekoven, SD; Gary Olson, MN; Mitchell Palmer, IA; Janet Payeur, IA; William Pittenger, MO; Justin Roach, OK; Jonathan Roberts, LA; Keith Roehr, CO; Susan Rollo, TX; Shawn Schafer, OH; David Schmitt, IA; Dennis Schmitt, MO; Krysten Schuler, NY; Marc Schwabenlander, MN; Andy Schwartz, TX; Charly Seale, TX; Laurie Seale, WI; Daryl Simon, MN; Jonathan Sleeman, WI; David Smith, NY; Diane Stacy, LA; Kelly Straka, MO; Manoel Tamassia, NJ; Patrick Tarlton, TX; Robert Temple, OH; Lee Ann Thomas, MD; Brad Thurston, IN; Jeff Turner, TX; Kathleen Turner, FL; Tom Van Kleef, TX; Curt Waldvogel, OH; John Walther, LA; Ray Waters, IA; Skip West, OK; Margaret Wild, CO; Kyle Wilson, TN; Nora Wineland, MO; Richard Winters, Jr., TX; Peregrine Wolff, NV; Mary Wood, WY; Glen Zebarth, MN.

2016 USAHA Committees (cont.)

USAHA/AAVLD Committee on Diagnostic and Veterinary Workforce Development
Chair: Gary Anderson, KS
Vice Chair: Valerie Ragan, VA

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USAHA/AAVLD Committee on Environment and Toxicology
Chair: Tim Evans, MO

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

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2016 USAHA Committees (cont.)

David Schmitt, IA; Aaron Scott, CO; Russell Shoberg, ME; Kathryn Simmons, DC; Jonathan Sleeman, WI; Rebecca Smith, IL; Julie Smith, VT; Harry Snelson, NC; Diane Stacy, LA; Nick Striegel, CO; Sabrina Swenson, IA; Manoel Tamassia, NJ; Belinda Thompson, NY; Beth Thompson, MN; John Thomson, IA; Brad Thurston, IN; Peter Timoney, KY; Sarah Tomlinson, CO; Mia Torchetti, IA; Fernando Torres-Velez, NY; Susan Trock, GA; Jeff Turner, TX; Kathleen Turner, FL; Paul Ugstad, NC; Liz Wagstrom, DC; Mark Walter, PA; James Watson, MS; Patrick Webb, IA; Margaret Wild, CO; Richard Willer, HI; Michelle Willette, MN; Brad Williams, TX; John Williams, MD; William Wilson, KS; Richard Winters, Jr., TX; Raquel Wong, HI; Ching Ching Wu, IN.

Time Specific Paper
Committee on Foreign and Emerging Diseases

Tuesday, October 18 • 1:30-2:15pm

Global Efforts towards Peste des petits ruminants Eradication
Bouna Diop

USAHA/AAVLD Committee on Food and Feed Safety
Chair: Patrick McDonough, NY
Vice Chair: Craig Shultz, ID

Robin Anderson, TX; Chris Ashworth, AR; James Averill, MI; Deanna Baldwin, MD; Adrienne Bautista, CA; Richard Benton, MS; Karyn Bischoff, NY; Richard Breitmeyer, CA; Deborah Brennan, MS; Beverly Byrum, OH; Wendy Cuevas-Espelid, GA; Glenda Davis, AZ; Ignacio dela Cruz, MP; Dubraska Diaz-Campos, WA; Kathy Finnerty, MA; Mallory Gaines, CO; Tam Garland, TX; Robert Gerlach, AK; Chelsea Good, MO; Laura Goodman, NY; Jerry Heidel, OR; Douglas Hepper, CA; Joseph Hill, SC; Susanne Hinkley, NE; Christine Hoang, IL; Donald Hoenig, ME; Danny Hughes, AR; John Huntley, AZ; Doreene Hyatt, CO; Ghazala Jawad, NC; Annette Jones, CA; Ellen Kasari, CO; Susan Keller, ND; Joe Kendall, AB; Hailu Kinde, CA; Daniel Kovich, DC; T.R. Lansford, TX; Dale Lauer, MN; Elizabeth Lautner, IA; Bill Layton, MT; Tsang Long Lin, IN; Gene Lollis, FL; Bret Marsh, IN; David Marshall, NC; Patrick McDonough, NY; Katherine McNamara, VT; David Meeker, VA; Shelley Mehlenbacher, VT; Brenda Morningstar-Shaw, IA; Nicole Neeser, MN; Gene Niles, CO; Sandra Norman, IN; Ogi Okwumabua, WI; Kenneth Olson, IL; Stephanie Ostrowski, AL; Lanny Pace, MS; Elizabeth Parker, TX; Amar Patil, NJ; David Pyburn, IA; John Ragan, VA; Lisa Ramsey, VA; Renate Reimschuessel, MD; Grant Rezabek, OK; M. Gatz Riddell, Jr., AL; Roxana Sanchez-Ingunza, KS; John Sanders, WV; Joni Scheftel, MN; David Schmitt, IA; Craig Shultz, ID; Richard Sibbel, IA; Kathryn Simmons, DC; Harry Snelson, NC; Stan Stromberg, OK; Anil Thachil, NY; Larry Thompson, MO; Bob Tully, KS; Shauna Voss, MN; Liz Wagstrom, DC; Doug Waltman, GA; Robert Wills, MS; Dennis Wilson, CA; Nora Wineland, MO; Jennifer Wishnie, IA; Raquel Wong, HI.

Committee on Government Relations
Chair: Barbara Determan, IA

Barbara Determan, IA; Kristin Haas, VT; Timothy Hanosh, NM; Annette Jones, CA; Susan Keller, ND; Bruce King, UT; Paul McGraw, WI; Doug Meckes, NC; Boyd Parr, SC; David Schmitt, IA; David Smith, NY; Scott Stuart, CO; Marty Zaluski, MT.

2016 USAHA Committees (cont.)

Committee on Import, Export and International Standards
Chair: Linda Glaser, MN
Vice Chair: Mo Salman, CO

Bobby Acord, NC; Celia Maria Antognoli, CO; Mohit Baxi, ON; Bob Bokma, MD; Joyce Bowling-Heyward, MD; Charles Brown II, WI; Stan Bruntz, CO; Bruce Carter, IA; Rod Chitty, IA; John Clifford, DC; Karen Conyngham, TX; Michael David, MD; Ron DeHaven, CA; Ignacio dela Cruz, MP; Jacques deMoss, MO; Adis Dijab, AL; Larry Elsken, IA; Conrad Estrada, VA; Anna Claire Fagre, CO; William Fales, MO; John Fischer, GA; Katherine Flynn, CA; Mallory Gaines, CO; Julie Gard, AL; Donna Gatewood, IA; Cyril Gay, MD; Paul Gibbs, FL; Linda Glaser, MN; Gail Golab, IL; Tony Good, OH; Kristin Haas, VT; Keith Haffer, SD; Percy Hawkes, UT; Rick Hill, IA; Robert Hilsenroth, FL; Donald Hoenig, ME; Dudley Hoskins, VA; Brad Hoxit, NC; Marv Jahde, KS; Annette Jones, CA; Susan Keller, ND; Bruce King, UT; Elizabeth Lautner, IA; Randall Levings, IA; Linda Logan, TX; Travis Lowe, MN; Kevin Maher, IA; Bret Marsh, IN; Brittany McCauslin, NZ; Shirley McKenzie, NC; Sara McReynolds, ND; David Meeker, VA; Emily Meredith, VA; Antone Mickelson, WA; Gay Miller, IL; Eric Mohlman, NE; Sandra Norman, IN; Kristen Obbink, IA; Kenneth Olson, IL; Elizabeth Parker, TX; William Pittenger, MO; John Ragan, VA; Tim Richards, HI; Paul Rodgers, WV; James Roth, IA; Mo Salman, CO; David Scarfe, IL; Travis Schaal, IA; Shawn Schafer, OH; Charly Seale, TX; Laurie Seale, WI; Sheryl Shaw, WI; Rosemary Sifford, NC; Kathryn Simmons, DC; Jonathan Sleeman, WI; Fred Soltero, PR; Matthew Stone, NZ; Manoel Tamassia, NJ; Susan Tellez, TX; Peter Timoney, KY; Alberto Torres, AR; Paul Ugstad, NC; Charles Vail, CO; Mark Walter, PA; James Watson, MS; Patrick Webb, IA; Roger Weigle, WI; Richard Willer, HI; Brad Williams, TX; Mary Anne Williams, TX; William Wilson, KS; Josh Winegarner, TX; Nora Wineland, MO; David Winters, TX; Richard Winters, Jr., TX; Cindy Wolf, MN.

Time Specific Paper
Committee on Import, Export & International Standards
Sunday, October 16 • 1:45pm

FDA and APHIS regulations associated with the import of animal feed, ingredients, and feed containers

Shannon Jordre, FDA Center for Veterinary Medicine, Division of Compliance; Adis Dijab, USDA-APHIS, National Import-Export Services

Time Specific Paper
Committee on Import, Export & International Standards
Sunday, October 16 • 2:35pm

EU Measures to Control African Swine Fever (ASF) & the Spread of Lumpy Skin Disease

Francisco Reviriego – EU commission

2016 USAHA Committees (cont.)

Committee on Infectious Diseases of Cattle, Bison and Camelids
Chair: Dale Grotelueschen, NE
Vice Chair: Pat Long, NE

Helen Acland, PA; Chris Ashworth, AR; Danelle Bickett-Weddle, IA; Charlie Broaddus, VA; Charles Brown II, WI; Beth Carlson, ND; Karen Conyngham, TX; Stephen Crawford, NH; Susan Culp, TX; Bud Dinges, TX; Edward Dubovi, NY; Roger Dudley, NE; William Edmiston, TX; Anita Edmondson, CA; James England, ID; James Evermann, WA; Kent Fowler, CA; Robert Fulton, OK; Donna Gatewood, IA; Timothy Goldsmith, MN; Dale Grotelueschen, NE; Keith Haffer, SD; Thomas Hairgrove, TX; Rod Hall, OK; Timothy Hanosh, NM; Percy Hawkes, UT; Carl Heckendorf, CO; Linda Hickam, MO; Dennis Hughes, NE; David Hunter, MT; Annette Jones, CA; Paul Jones, AL; Bruce King, UT; Diane Kitchen, FL; Randall Larson, IA; John Lawrence, ME; James Leafstedt, SD; Scott Leibsle, ID; Rick Linscott, ME; Coleman Locke, TX; Pat Long, NE; Janet Maass, CO; Chuck Massengill, MO; Patrick McDonough, NY; Shelley Mehlenbacher, VT; Emily Meredith, VA; Mendel Miller, SD; Richard Mock, NC; Igor Morozov, KS; Peter Mundschenk, AZ; Sherrie Nash, MT; Cheryl Nelson, KY; Kathleen Orloski, CO; Elizabeth Parker, TX; Jeanne Rankin, MT; Grant Rezabek, OK; Tim Richards, HI; Julia Ridpath, IA; Jonathan Roberts, LA; Keith Roehr, CO; Michael Sanderson, KS; Bill Sauble, NM; Dennis Schmitt, MO; Kathryn Simmons, DC; Ben Smith, WA; Justin Smith, KS; Diane Stacy, LA; Nick Striegel, CO; Tahnee Szymanski, MT; Manoel Tamassia, NJ; Susan Tellez, TX; Robert Temple, OH; Brad Williams, TX; William Wilson, KS; Cindy Wolf, MN.

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

Helen Acland, PA; Sara Ahola, CO; Joyce Bowling-Heyward, MD; Becky Brewer-Walker, AR; Charlie Broaddus, VA; Stan Bruntz, CO; Craig Carter, KY; Stephen Crawford, NH; Wendy Cuevas-Espelid, GA; Susan Culp, TX; Glenda Davis, AZ; Brandon Doss, AR; Edward Dubovi, NY; Roger Dudley, NE; Dee Ellis, TX; William Fisch, FL; Katherine Flynn, CA; Rusty Ford, KY; Kent Fowler, CA; Tony Frazier, AL; Robert Gerlach, AK; Paul Gibbs, FL; Nita Grause, IA; Kristin Haas, VT; Rod Hall, OK; Steven Halstead, MI; Timothy Hanosh, NM; Greg Hawkins, TX; Carl Heckendorf, CO; Michael Herrin, OK; Linda Hickam, MO; Russell Iselt, TX; Marv Jahde, KS; Beth Johnson, KY; Bruce King, UT; Don Knowles, WA; T.R. Lansford, TX; Donald Lein, NY; Chuck Lewis, IA; Mary Lis, CT; Kevin Maher, IA; Scott Marshall, RI; Patrick McDonough, NY; Barry Meade, NC; Linda Mittel, NY; Kenton Morgan, MO; Peter Mundschenk, AZ; Lee Myers, GA; Alecia Naugle, MD; Cheryl Nelson, KY; Jeffrey Nelson, IA; Sandra Norman, IN; Eileen Ostlund, IA; Boyd Parr, SC; Jeanne Rankin, MT; Grant Rezabek, OK; Jonathan Roberts, LA; Keith Roehr, CO; Dennis Schmitt, MO; Andy Schwartz, TX; Michael Short, FL; David Smith, NY; Justin Smith, KS; Diane Stacy, LA; Robert Stout, KY; Tahnee Szymanski, MT; Manoel Tamassia, NJ; Peter Timoney, KY; Josie Traub-Dargatz, CO; Susan Trock, GA; Jeff Turner, TX; Charles Vail, CO; James Watson, MS; Cliff Williamson, DC; Ernest Zirkle, NJ.

Committee on Johne's Disease
Chair: David Smith, NY

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2016 USAHA Committees (cont.)

Committee on Livestock Identification
Chair: William Brown, KS
Vice Chair: Kevin Maher, IA

Sara Ahola, CO; Marianne Ash, IN; James Averill, MI; Rich Baca, CO; Bill Barton, ID; Karen Beck, NC; Richard Breitmeyer, CA; Paul Brennan, IN; Becky Brewer-Walker, AR; Charlie Broaddus, VA; William Brown, KS; Nancy Brown, KS; Robert Cobb, GA; Matt Cochran, TX; Michael Coe, KS; Francisco Collazo, FL; Karen Conyngham, TX; Michael Costin, IL; Susan Culp, TX; Bud Dinges, TX; Brandon Doss, AR; Anita Edmondson, CA; James England, ID; Kathy Finnerty, MA; Glenn Fischer, TX; Tony Forshey, OH; Robert Fourdraine, WI; Kent Fowler, CA; Kendra Frasier, KS; Tony Frazier, AL; Mallory Gaines, CO; Chelsea Good, MO; Tony Good, OH; Alicia Gorczyca-Southerland, OK; Rod Hall, OK; Steven Halstead, MI; Neil Hammerschmidt, MD; Nephi Harvey, UT; Greg Hawkins, TX; Bill Hawks, DC; Burke Healey, CO; David Hecimovich, WA; Carl Heckendorf, CO; Julie Helm, SC; Kristi Henderson, IL; Linda Hickam, MO; Bob Hillman, ID; Donald Hoenig, ME; Joseph Huff, CO; Dennis Hughes, NE; John Huntley, AZ; Russell Iselt, TX; Marv Jahde, KS; Jamie Jonker, VA; Susan Keller, ND; Bradley Keough, KY; Bruce King, UT; Diane Kitchen, FL; Eileen Kuhlmann, MN; T.R. Lansford, TX; James Leafstedt, SD; Brad LeaMaster, OR; Mary Lis, CT; Jim Logan, WY; Gene Lollis, FL; Kevin Maher, IA; Bret Marsh, IN; Stu Marsh, AZ; David Marshall, NC; Michael Martin, SC; Rose Massengill, MO; Jay Mattison, WI; Gretchen May, WI; Paul McGraw, WI; Thomas McKenna, MA; Sara McReynolds, ND; Shelley Mehlenbacher, VT; Emily Meredith, VA; Ronald Miller, PA; Mendel Miller, SD; Louis Neuder, MI; Kenneth Olson, IL; Greg Onstott, MO; Elizabeth Parker, TX; Boyd Parr, SC; William Pittenger, MO; Barbara Porter-Spalding, NC; Valerie Ragan, VA; John Ragan, VA; Jeanne Rankin, MT; Justin Roach, OK; Keith Roehr, CO; Susan Rollo, TX; Margaret Rush, MD; Larry Samples, PA; Bill Sauble, NM; David Scarfe, IL; Shawn Schafer, OH; David Schmitt, IA; Stacey Schwabenlander, MN; Andy Schwartz, TX; Charly Seale, TX; Laurie Seale, WI; Craig Shultz, ID; Richard Sibbel, IA; Kathryn Simmons, DC; David Smith, NY; Justin Smith, KS; Diane Stacy, LA; Robert Stout, KY; Nick Striegel, CO; Scott Stuart, CO; Tahnee Szymanski, MT; Manoel Tamassia, NJ; Beth Thompson, MN; Tracy Tomascik, TX; Jeff Turner, TX; Alex Turner, CO; Mark Walter, PA; John Walther, LA; James Watson, MS; Patrick Webb, IA; Kyle Wilson, TN; Thach Winslow, WY; David Winters, TX; Cindy Wolf, MN; Marty Zaluski, MT; Glen Zebarth, MN; Ernest Zirkle, NJ.

USAHA/AAVLD Committee on National Animal Health Laboratory Network
Chair: Barbara Powers, CO
Vice Chair: Harry Snelson, NC

Helen Acland, PA; John Adaska, CA; Bruce Akey, TX; Gary Anderson, KS; Cat Barr, TX; Bill Barton, ID; Tim Baszler, WA; Tammy Beckham, KS; Lisa Becton, IA; Steven Bolin, MI; Richard Breitmeyer, CA; James Britt, AR; Sandra Bushmich, CT; Beverly Byrum, OH; Craig Carter, KY; Emily Cooper, OK; Estela Cornaglia, QC; Dustin Cox, NM; Marie Culhane, MN; Barbara Determan, IA; Edward Dubovi, NY; François Elvinger, NY; Ann Fitzpatrick, MN; Richard Fredrickson, IL; Mallory Gaines, CO; Joseph Garvin, VA; Patricia Godwin, KY; Stephen Goldsmith, VA; Patrick Halbur, IA; Steven Halstead, MI; Timothy Hanosh, NM; Beth Harris, IA; Bob Hillman, ID; Stephen Hooser, IN; Pamela Hullinger, CA; Marv Jahde, KS; Bill Johnson, OK; Jim Kistler, FL; Elizabeth Lautner, IA; Randall Levings, IA; Mary Lis, CT; Christina Loiacono, IA; Rodger Main, IA; David Marshall, NC; Barbara Martin, IA; Terry McElwain, WA; Michael McIntosh, NY; Thomas McKenna, MA; Beth Melton, MO; Rey Molina, TX; Igor Morozov, KS; Stacy Morris, TX; Thomas Mullaney, MI; Dustin Oedekoven, SD; Claudia Osorio, MD; Kristy Pabilonia, CO; Lanny Pace, MS; Elizabeth Parker, TX; Roger Parker, TX; Amar Patil, NJ; Robert Poppenga, CA; Barbara Powers, CO; M. Gatz Riddell, Jr., AL; Keith Roehr, CO; Jeremiah Saliki, GA; Renee See, WV; Kathryn Simmons, DC; Harry Snelson, NC; Wendy Stensland, IA; Amy Swinford, TX; Manoel Tamassia, NJ; Deepanker Tewari, PA; Sarah Tomlinson, CO; David Zeman, SD; Shuping Zhang, MO.

2016 USAHA Committees (cont.)

Committee on Nominations and Resolutions
Chair: Bruce King, UT

J Lee Alley, AL; Philip Bradshaw, IL; Richard Breitmeyer, CA; Jones Bryan, SC; Stephen Crawford, NH; Joe Finley, TX; Thomas Hagerty, MN; Steven Halstead, MI; Tim Hanosh, NM; Bob Hillman, ID; Donald Hoenig, ME; Bruce King, UT; Maxwell Lea, Jr., LA; James Leafstedt, SD; Donald Lein, NY; Bret Marsh, IN; Michael Marshall, UT; Paul McGraw, WI; Doug Meckes, NC; David Marshall, NC; Richard McCapes, CA; David Meeker, VA; Lee Myers, GA; John Ragan, VA; Glenn Rea, OR; David Smith, NY Scott Stuart, CO; H. Wesley Towers, DE; Max Van Buskirk, PA; Richard Willer, HI; Larry Williams, NE; Ernest Zirkle, NJ.

Committee on Parasitic and Vector Borne Diseases
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Vice Chair: Diane Kitchen, FL

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Committee on Pharmaceutical Issues
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Vice Chair: Tim Goldsmith, MN

James Averill, MI; Tom Burkgren, IA; Stephen Crawford, NH; Barbara Determan, IA; Leah Dorman, OH; William Fales, MO; Timothy Goldsmith, MN; Kristi Henderson, IL; Rick Hill, IA; Christine Hoang, IL; Donald Hoenig, ME; David Marshall, NC; Shelley Mehlenbacher, VT; Cheryl Nelson, KY; M. Gatz Riddell, Jr., AL; Roxana Sanchez-Ingunza, KS; Joni Scheftel, MN; Craig Shultz, ID; Richard Sibbel, IA; Kathryn Simmons, DC; John Thomson, IA; Liz Wagstrom, DC; Brad Williams, TX; Dennis Wilson, CA; Jennifer Wishnie, IA.

Committee on Public Health and Rabies
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Vice Chair: Skip Oertli, TX

Helen Acland, PA; Gary Anderson, KS; Robin Anderson, TX; Karen Becker, DC; Scott Bender, AZ; Joseph Corn, GA; Stephen Crawford, NH; Tarrie Crnic, KS; Susan Culp, TX; Donald Davis, TX; Ignacio dela Cruz, MP; Thomas DeLiberto, CO; Brigid Elchos, MS; François Elvinger, NY; Anna Claire Fagre, CO; Heather Fenton, GA; Katherine Flynn, CA; Nancy Frank, MI; Donna Gatewood, IA; Robert Gerlach, AK; Keith Haffer, SD; Steven Halstead, MI; Bill Hawks, DC; Rick Hill, IA; Christine Hoang, IL; Donald Hoenig, ME; Patrice Klein, DC; Daniel Kovich, DC; Emily Lankau, GA; Donald Lein, NY; Chuck Lewis, IA; Mary Lis, CT; Margie Lyness, GA; Joanne Maki, GA; Rose Massengill, MO; Patrick McDonough, NY; Shirley McKenzie, NC; David Meeker, VA; Brenda Morningstar-Shaw, IA; Lee Myers, GA; Cheryl Nelson, KY; Megin Nichols, GA; Sandra Norman, IN; Skip Oertli, TX; Steve Parker, GA; Roger Parker, TX; David Pyburn, IA; Renate Reimschuessel, MD; Susan Rollo, TX; Larry Samples, PA; John Sanders, WV; Joni Scheftel, MN; Stacey Schwabenlander, MN; Marc Schwabenlander, MN; Michael Short, FL; Tom Sidwa, TX; Jonathan Sleeman, WI; David Smith, NY; Nick Striegel, CO; Tahnee Szymanski, MT; Manoel Tamassia, NJ; Belinda Thompson, NY; Brad Thurston, IN; Jeff Turner, TX; Liz Wagstrom, DC; Michele Walsh, ME; Margaret Wild, CO; Michelle Willette, MN; Nora Wineland, MO; Jennifer Wishnie, IA; Raquel Wong, HI; Marty Zaluski, MT; Ernest Zirkle, NJ.

Time Specific Paper
Committee on Public Health and Rabies

Tuesday, October 18 • 3:40pm

Insights into Rabies Virus Spread as Revealed by Whole Genome Sequencing

Susan A. Nadin-Davis, PhD, Canadian Food Inspection Agency

Committee on Salmonella
Chair: Donna Kelly, PA
Vice Chair: Shelley Rankin, PA

Robin Anderson, TX; Chris Ashworth, AR; Deanna Baldwin, MD; Karen Becker, DC; Richard Breitmeyer, CA; Paul Brennan, IN; Brandon Doss, AR; François Elvinger, NY; Tony Frazier, AL; Mallory Gaines, CO; Eric Gingerich, IN; Jean Guard, GA; Scott Gustin, AR; Julie Helm, SC; Danny Hughes, AR; Eric Jensen, AL; Annette Jones, CA; Donna Kelly, PA; Michael Kopp, IN; Dale Lauer, MN; Elizabeth Lautner, IA; Chelsie Lawyer, IN; Tsang Long Lin, IN; Rick Linscott, ME; Mary Lis, CT; Sarah Mason, NC; Patrick McDonough, NY; David Meeker, VA; Sarah Mize, CA; Alfred Montgomery, DC; Brenda Morningstar-Shaw, IA; Thomas Myers, MD; Megin Nichols, GA; Steve Olson, MN; Kristy Pabilonia, CO; William Pittenger, MO; David Pyburn, IA; Shelley Rankin, PA; Renate Reimschuessel, MD; G. Donald Ritter, DE; Susan Rollo, TX; Gregorio Rosales, AL; Roxana Sanchez-Ingunza, KS; Travis Schaal, IA; Joni Scheftel, MN; Richard Sellers, VA; Tom Sidwa, TX; David Smith, NY; Patricia Stonger, WI; Belinda Thompson, NY; Alberto Torres, AR; Bob Tully, KS; Shauna Voss, MN; Liz Wagstrom, DC; Doug Waltman, GA; Nora Wineland, MO; Jennifer Wishnie, IA; Ching Ching Wu, IN; Andrea Zedek, SC; Bereket Zekarias, KS.

Committee on Scrapie
Chair: Cheryl Miller, IN
Vice Chair: Larry Forgey, MO

Celia Maria Antognoli, CO; James Averill, MI; Scott Bender, AZ; Deborah Brennan, MS; Minden Buswell, WA; Beth Carlson, ND; John Clifford, DC; Walter Cook, TX; Susan Culp, TX; Ignacio dela Cruz, MP; Linda Detwiler, NJ; William Edmiston, TX; Anita Edmondson, CA; Dee Ellis, TX; Keith Forbes, NV; Larry Forgey, MO; Michael Gilsdorf, MD; Carl Heckendorf, CO; Amy Hendrickson, WY; Russell Iselt, TX; Paul Jones, AL; Susan Keller, ND; Eileen Kuhlmann, MN; T.R. Lansford, TX; James Leafstedt, SD; Mary Lis, CT; Jim Logan, WY; Shirley McKenzie, NC; Cheryl Miller, IN; Ronald Miller, PA; Peter Mundschenk, AZ; Elisabeth Patton, WI; Justin Roach, OK; Suelee Robbe-Austerman, IA; Paul Rodgers, WV; Susan Rollo, TX; Joan Dean Rowe, CA; Ben Smith, WA; Scott Stuart, CO; Diane Sutton, MD; Manoel Tamassia, NJ; Jeff Turner, TX; Stephen White, WA; Nora Wineland, MO; David Winters, TX; Cindy Wolf, MN.

Committee on Sheep and Goats
Chair: Amy Hendrickson, WY
Vice Chair: Maggie Highland, WA

Scott Bender, AZ; Deborah Brennan, MS; John Clifford, DC; Walter Cook, TX; William Edmiston, TX; Amy Hendrickson, WY; Maggie Highland, WA; Joseph Huff, CO; Paul Jones, AL; Don Knowles, WA; Eileen Kuhlmann, MN; James Leafstedt, SD; Mary Lis, CT; Linda Logan, TX; Jim Logan, WY; David Marshall, NC; Chuck Massengill, MO; Cheryl Miller, IN; Ronald Miller, PA; Jeffrey Nelson, IA; Suelee Robbe-Austerman, IA; Paul Rodgers, WV; Joan Dean Rowe, CA; Mo Salman, CO; David Scarfe, IL; Diane Sutton, MD; Stephen White, WA; Margaret Wild, CO; William Wilson, KS; Nora Wineland, MO; David Winters, TX; Cindy Wolf, MN.

Committee on Program
Chair: Boyd Parr, SC

Gary Anderson, KS; Marianne Ash, IN; Tammy Beckham, KS; Lisa Becton, IA; Tarrie Crnic, KS; Barbara Determan, IA; Dee Ellis, TX; Donna Gatewood, IA; Colin Gillin, OR; Dale Grotelueschen, NE; Kristin Haas, VT; Amy Hendrickson, WY; Annette Jones, CA; Donna Kelly, PA; Bruce King, UT; Dale Lauer, MN; Patrick McDonough, NY; Dustin Oedekoven, SD; Boyd Parr, SC; David Schmitt, IA; Andy Schwartz, TX; Heather Simmons, TX; David Smith, NY; Harry Snelson, NC; Belinda Thompson, NY; Liz Wagstrom, DC; Peregrine Wolff, NV; Marty Zaluski, MT.

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

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2016 USAHA Committees (cont.)

Committee on Transmissible Diseases of Swine
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Committee on Tuberculosis
Chair: Dustin Oedekoven, SD
Vice Chair: Beth Thompson, MN

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2016 USAHA Committees (cont.)

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Vice Chair: Peregrine Wolff, NV

Gary Anderson, KS; Paul Anderson, MN; Kay Backues, OK; Karen Beck, NC; Scott Bender, AZ; Warren Bluntzer, TX; Tom Bragg, NE; Rhonda Brakke, IA; Beth Carlson, ND; Shelly Chavis, IN; Matt Cochran, TX; Tim Condict, TX; Walter Cook, TX; Joseph Corn, GA; Susan Culp, TX; Thomas DeLiberto, CO; Barbara Determan, IA; Linda Detwiler, NJ; Bob Dittmar, TX; Mark Drew, ID; Hank Edwards, WY; Dee Ellis, TX; James Evermann, WA; Anna Claire Fagre, CO; Heather Fenton, GA; John Fischer, GA; Richard French, NH; Francis Galey, WY; Tam Garland, TX; Donna Gatewood, IA; Robert Gerlach, AK; Paul Gibbs, FL; Samantha Gibbs, FL; Colin Gillin, OR; Linda Glaser, MN; Paul Grosdidier, KS; Greg Hawkins, TX; Kristi Henderson, IL; Melinda Hergert, TX; Linda Hickam, MO; Maggie Highland, WA; Robert Hilsenroth, FL; Donald Hoenig, ME; Dennis Hughes, NE; Noah Hull, WY; David Hunter, MT; Isabel Jimenez, NY; Beth Johnson, KY; Alison Keggan, NY; Susan Keller, ND; Diane Kitchen, FL; Patrice Klein, DC; Darlene Konkle, WI; Todd Landt, IA; T.R. Lansford, TX; Chuck Lewis, IA; Tsang Long Lin, IN; Mitch Lockwood, TX; Jim Logan, WY; Linda Logan, TX; Travis Lowe, MN; Mark Luedtke, MN; Margie Lyness, GA; David Marshall, NC; Chuck Massengill, MO; James Maxwell, FL; Bob Meyer, CO; Myrna Miller, WY; Mendel Miller, SD; Michele Miller, WI; Eric Mohlman, NE; Yvonne Nadler, IL; Julie Napier, NE; Alecia Naugle, MD; Cheryl Nelson, KY; Danielle Nelson, WA; Sandra Norman, IN; Gary Olson, MN; Mitchell Palmer, IA; Steve Parker, GA; William Pittenger, MO; Kate Purple, TN; Jennifer Ramsey, MT; Jack Rhyan, CO; Justin Roach, OK; Jonathan Roberts, LA; Shawn Schafer, OH; Jack Schlater, IA; David Schmitt, IA; Dennis Schmitt, MO; Krysten Schuler, NY; Brant Schumaker, WY; Marc Schwabenlander, MN; Andy Schwartz, TX; Charly Seale, TX; Laurie Seale, WI; Daryl Simon, MN; Jonathan Sleeman, WI; Kelly Straka, MO; Patrick Tarlton, TX; Robert Temple, OH; Lee Ann Thomas, MD; Brad Thurston, IN; Susan Trock, GA; Curt Waldvogel, OH; Michele Walsh, ME; Skip West, OK; Margaret Wild, CO; Richard Willer, HI; Michelle Willette, MN; William Wilson, KS; David Winters, TX; Richard Winters, Jr., TX; Cindy Wolf, MN;

AAVLD Exhibitors October 15-16, 2016

Exhibit Hall Times and Poster Session

Third Floor Hallway

October 15 Saturday 9:00 am–6:00 pm
October 16 Sunday 9:00 am–1 :00 pm

Food and beverage in exhibit area

Observe poster sessions throughout exhibit area.

Authors at posters

Saturday, Oct 15 • 3:00-4:00 pm

Booth	Company
301	Advanced Technology Corp. VADDS
205	Anaerobe Systems
314	Biolog, Inc.
312	BioMed Diagnostics, Inc.
200 202	bioMérieux
213	Bioplastics/Cyclertest, Inc
201	Bio-Rad
100	Biovet Inc.
207	Bruker Daltonics
307	Carolina Liquid Chemistries Corp.
109	Centaur, Inc.
204	Computer Aid, Inc.
215	Cosmos iD
102	Eagle Biosciences, Inc.
206	ECL2/Q-Pulse
105	Elsevier
107	GeneReach Biotechnology Corp.
306 308	IDEXX Laboratories
310	Liferiver Bio-Tech(US) Corp
315	Longhorn Vaccines and Diagnostics LLC
203	Macherey-Nagel, Inc.
217	Nat'l Institute for Animal Agriculture
305	PRI Bio (Progressive Recovery, Inc.)
209 211	QIAGEN, Inc.
309	Qualtrax
104	Quantabio
303	Tetracore, Inc.
219 221 223	Thermo Fisher Scientific
311	VacciXcell
210	VMRD, Inc.
208	Zoetis

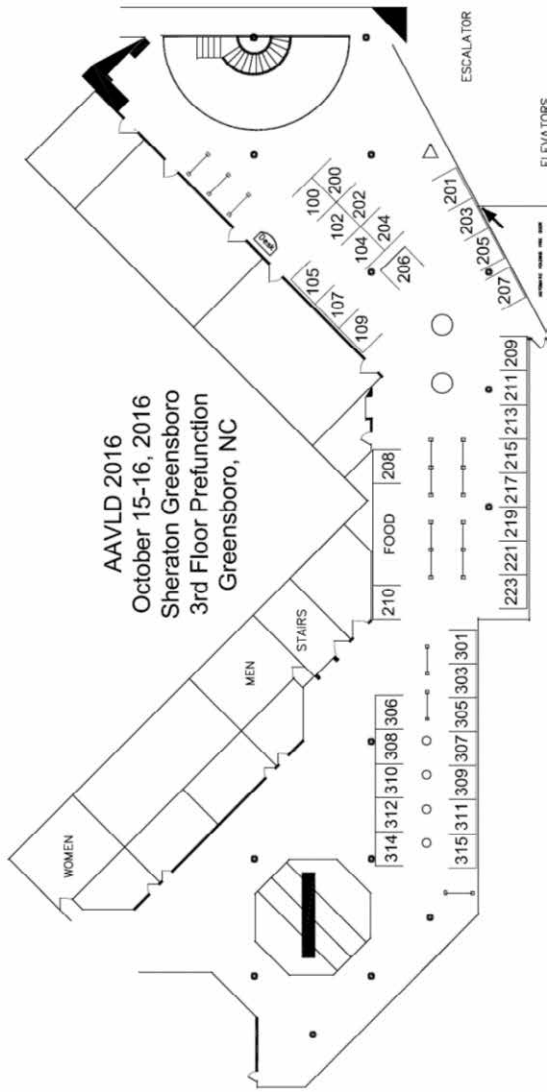
AAVLD Exhibitors Floor Plan

Sponsor Presentations • Saturday, Oct. 15

Biovet 6:00 pm - 6:30 pm Imperial F
Biovet innovates again with Multiplex serology, ELISA diagnostic kits and a brand new qPCR product line

Qiagen 6:30 pm - 7:00 pm Imperial F
Explore new frontiers with Qiagen's sample to insight solutions for animal health

Thermo Fisher 6:30 pm - 7:00 pm Imperial B
Meeting today's diagnostic needs – innovating for tomorrow's challenges



Notes

Future USAHA/AAVLD Annual Meetings

San Diego, California
October 12-18, 2017
Town & Country Hotel

Kansas City, Missouri
October 18-24, 2018
Sheraton Crown Center Hotel

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Illumina

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Qiagen

Reindeer Owners and Breeders Association

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