Plan now to attend the
AASV 46TH Annual Meeting
February 28 - March 3, 2015
Buena Vista Palace Hotel & Spa
ORLANDO, FL

We extend our sincere appreciation to the following sponsors of AASV annual meeting activities:

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AASV Student Seminar
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Thank you to ALL of the companies, organizations, and members who support the AASV in so many ways throughout the year!
Regardless of the location, every year I leave the annual meeting feeling energized, refreshed and ready to take on the world! I am sure this year will be no different. It is always fun to reconnect with colleagues and embrace the opportunity to learn new things. The theme of our meeting this year is “Our Oath in Practice.” Many times in my career, I have found myself saying, “I took an oath to do what is right for the pig.” I strive to uphold the interest of the pig and live by my oath in my daily practice life. This is why I was deeply moved last year when Dr. Craig Rowles, during his Howard Dunne Memorial Lecture, had us rise, raise our right hands, and recite the Veterinarian’s Oath. This year, Dr. Daryl Olsen will deliver the Howard Dunne Memorial Lecture, entitled “The pig always wins.” I know Dr. Olsen will challenge us all to reflect on our oath and to think about how it interfaces with the medical and business decisions we make every day. Dr. Mark Engle will follow with the Alex Hogg Memorial Lecture, focusing on our oath in the context of our recent challenges with porcine epidemic diarrhea (PED). The entire Monday morning session will encourage you to think outside the box, particularly in reference to emerging diseases and the role of the veterinarian.

Welcome to Dallas and the AASV’s 45th Annual Meeting! With its warm climate and easy accessibility from nearly anywhere in the world, I trust you will quickly see why Dallas is one of the most popular convention destinations in the United States. I know you will find the city to be warm and inviting, with a wide variety of dining, entertainment and recreational opportunities for you to enjoy with your family and friends. Did I mention warm?

“Many times in my career, I have found myself saying, ‘I took an oath to do what is right for the pig.’”

Dr. Michelle Sprague
Program Chair

Message from the Program Chair, Dr Michelle Sprague
The pre-conference seminars and the Sunday and Monday afternoon concurrent sessions cover a wide variety of subjects. Be sure to look over the program so you don’t miss an opportunity to hear about the topics of most interest to you!

One issue of particular interest to me is the increasing public scrutiny of swine industry practices. I feel it is not only important for us to live by our oath, but also to educate others about how we uphold our professional oath in our service to the swine industry. Tuesday morning, “agvocate” Trent Loos will challenge us to do exactly that—and more. The rest of the Tuesday morning session will answer all (or hopefully most!) of your questions about PED. The session will conclude with an opportunity for the audience to provide input on how you think AASV, as an association, should handle challenges like PED and other emerging diseases in the future. Don’t miss this opportunity to have your voice heard!

It has been an honor to serve as your program chair this year. I would like to extend my sincere gratitude to everyone involved in the process, especially the planning committee and the AASV staff. It is truly a team effort to put together the annual program and the success of each meeting is a reflection of the dedication of our membership and our staff. Thanks to each and every one of you for making this meeting, and the AASV, a success!

See y’all in Dallas!
~ Michelle Sprague, DVM

“Dr. Olsen will challenge us all to reflect on our oath and to think about how it interfaces with the medical and business decisions we make every day.”
Program Committee

Michelle Sprague, Chair

Matt Anderson       David Reeves
Ron Brodersen       Joseph Rudolphi
Shamus Brown        Kent Schwartz
Scott Dee           Lisa Tokach
Tara Donovan        Blaine Tully
Megan Inskeep       Matthew Turner
Jason Kelly          Amy Vincent
Sherrie Niekamp     Liz Wagstrom
Ginger Pelger       Paul Yeske
Alex Ramirez
Registration

Registration desk located in the Skybridge (hotel, 2nd floor)

- Saturday, March 1: 7:00 AM – 5:00 PM
- Sunday, March 2: 7:00 AM – 5:00 PM
- Monday, March 3: 7:00 AM – 5:00 PM
- Tuesday, March 4: 7:00 AM – 12:00 PM

Fees

Register online at www.aasv.org/annmtg

- AASV member pre-registration: $335
- AASV member registration after February 7: $370
- Non-member veterinarian registration: $455
- Add’l Tech Table representatives (limit 3): $455

Meeting Hotel

Sheraton Dallas Hotel
400 North Olive Street
Dallas, TX 75201
Tel: 888-627-8191 or 214-922-8000
Fax: 214-922-0308

www.aasv.org/annmtg/2014/lodging.htm

Continuing Education Credit

Up to twenty (20) credit hours of veterinary continuing education are available for attendance during the regular meeting sessions Sunday 8:00 AM through Tuesday 12:00 PM. Four (4) additional credit hours are available for the PRRS Risk Assessment Training and each of the pre-conference seminars on Saturday.

Please turn off your cell phone or switch to silent mode during scientific sessions.
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Technical Tables

Location: Grand Hall (conf center, 1st floor)
Monday: 9:00 AM – 5:00 PM
Tuesday: 8:00 AM – 12:00 PM

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Alltech
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APC
ARKO Laboratories
Aurora Pharmaceutical
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AVMA PLIT
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DNA Genetics
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Elanco Animal Health
EPI Air
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Hog Slat
Huvepharma
Hydro Systems Company
IDEXX
IMV Technologies USA
Insight Wealth Group
ITL Animal Healthcare
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Web-based PRRS Risk Assessment Training for the Breeding Herd

Date: Saturday, March 1  
Time: 7:30 AM – 12:30 PM  
Location: Seminar (hotel; 2nd floor)  
Fee: No charge  
Limit: 20 participants, AASV members only  
Coordinator: Derald Holtkamp

This training will guide you through the use of the web-based PRRS Risk Assessment known as the Production Animal Disease Risk Assessment Program (PADRAP). PADRAP allows you to view benchmarking reports immediately after submitting an assessment. The website underwent a “facelift” in May 2011 and gained a few new useful features.

Three ways veterinarians have applied the PRRS Risk Assessment:

- Evaluate current biosecurity protocols and /or develop new biosecurity protocols to avoid risk
- Communicate risks and the importance of biosecurity procedures to clients or production personnel
- Aid in the decision to initiate a project to eliminate PRRSv from a breeding herd site and identify modifiable risk factors in an effort to increase the likelihood that an elimination project will be successful long-term.

This session is open to AASV member veterinarians who have not previously used the PRRS Risk Assessment, as well as those who have previously been trained on the spreadsheet version. Please bring a laptop capable of accessing the internet via wireless connection using one of the following web browsers: Mozilla Firefox, Google Chrome, or Internet Explorer.
Risk Assessment Training

7:30  Welcome and introductions (note the early start time!)  
     Derald Holtkamp

7:45  Application of PRRS Risk Assessment  
     Egan Brockhoff

8:00  Overview of PRRS Risk Assessment  
     Dale Polson

8:45  “How to” Tour of PADRAP  
     Resetting/retrieving your password, creating a new production system, setting up a site and survey, navigating through a survey, duplicating and taking multiple surveys  
     Chris Mowrer

9:45  BREAK

10:00 Hands-on use of the risk assessment; User interview  
     Dale Polson

12:00 Demonstration of pareto chart and the database and benchmarking tool for risk assessment data, exporting raw data: Interpreting results  
     Derald Holtkamp

12:30 Training concludes
## Seminar 1

### Practice Tips: It’s Our Sworn Duty to Share!

**Date:** Saturday, March 1  
**Time:** 1:00 – 5:00 PM  
**Location:** Austin 1 (hotel, 2nd floor)  
**Fee:** $80  
**Seminar chair:** Jay Miller

The very popular practice tips pre-conference seminar is back again this year with even more information for you to utilize in your practice. Once again, the idea-sharing session will feature veterinarians competing for cash and the top spot for the practice tip that will impact our industry the most, according to our expert judges. In the past, this very popular session has delivered an abundance of ideas to drive your practice to the next level. Be sure to attend to get the latest information, as there are no proceedings papers!

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| 1:00   | You want me to do WHAT??? The crazy world known as the show pig industry!  
         | Amy Woods                                                               |
| 1:15   | Hashtag!  
         | Abby Harding                                                            |
| 1:30   | Motivating employees through purpose discovery  
         | Larry Coleman                                                           |
| 1:45   | More than just a tip  
         | Joshua Barker                                                          |
| 2:00   | Shipping samples: regulations and compliance inspections  
         | Melissa Hensch                                                         |
| 2:15   | Investigations, illusions, and integrity  
         | Carissa Odland                                                         |
| 2:30   | Diagnosis of *Mycoplasma hyopneumoniae* using antemortem tracheobronchial mucus collection and RT-PCR  
         | Kimberly Crawford                                                     |
| 2:45   | Communicating to incite action  
         | Aaron Lower                                                            |
Seminar 1

3:00  BREAK

3:30  Feedback tips and tricks
      Rebecca Robbins

3:45  Let’s take another look at that pig
      Joe Rudolphi

4:00  A veterinarian’s options for inactivating PEDv in hog trailers
      Paul Thomas

4:15  Ovugel®: Practical use in gilt breeding programs
      Todd Price

4:30  PED survival 101
      Matthew Turner

4:45  PED – Because you just haven’t heard enough yet
      Pete Lasley

5:00  Seminar concludes
Grow-Finish Biosecurity: Reality or Oxymoron?

**Date:** Saturday, March 1  
**Time:** 1:00 – 5:00 PM  
**Location:** Austin 2 (hotel, 2nd floor)  
**Fee:** $95  
**Seminar chair:** Paul Yeske

With the arrival of PEDv to the industry, many farms and systems are re-evaluating their biosecurity programs to make sure they are effective. One of the biggest challenges is grow-finish, which historically has not been very strict. Truck washes and trucking are also areas that have not received much focus. The panel will give insight into their programs, how they set them up, and what to audit.

1:00  Bench entries: How to get into and out of farms without a shower  
Douglas MacDougald

1:30  Visiting multiple sites in the same day  
Mike Eisenmenger

2:00  How to keep the truck clean in the loading and unloading process  
Brad Chappell

2:30  What did we learn from the packing plant survey and what can we do in the future?  
Paul Yeske

3:00  BREAK

3:30  Truck wash symposium: Looking inside Pandora’s box and making sense of it  
3:30  Genetic supplier’s perspective  
Robert Thompson

3:50  System perspectives  
Joel Nerem

4:10  System perspectives  
Clayton Johnson

4:30  Panel discussion  
Robert Thompson, Joel Nerem, Clayton Johnson

5:00  Seminar concludes
Data Management

Date: Saturday, March 1
Time: 1:00 – 5:00 PM
Location: Austin 3 (hotel, 2nd floor)
Fee: $95
Seminar chair: Alex Ramirez

The complexity of today’s swine industry necessitates that practitioners have the ability to summarize data in an easy and meaningful way. Data sets are becoming larger and more complex, making it difficult to have a single report that meets everyone’s needs. The purpose of this workshop is to introduce practitioners to the future of data management and to provide hands-on training on how to organize and manipulate data using Microsoft Excel PivotTable features. PivotTables are an easy and powerful tool that can be used in everyday practice. This seminar will also provide practice tips from three different perspectives while providing insight into current and practical uses of data. There will also be a presentation on how one production system is using sequencing information from databases to make better health decisions.

Participants will need their own laptop computer with Microsoft Excel installed to take advantage of the hands-on section of the seminar. The hands-on portion will last 1 hour. Although participants can still learn simply by observing the activity, hands-on experience will maximize the learning and retention of this exercise.

1:00  Introductions and overview
      Alex Ramirez

1:05  Challenges and solutions to data confidentiality, integration and access during an animal disease emergency
      Tammy Beckham

1:45  Excel PivotTables: Simple yet powerful
      Hands-on exercise: How to prepare data and use pivot tables
      Alex Ramirez

2:40  BREAK

Continued on next page
Seminar 3

3:10  Practice tips: How they use data in their systems
      3:10  Jason Kelly
      3:30  Matthew Turner
      3:50  Jim Lowe

4:10  Sequence data: Using it in your practice
      Chad Smith

4:50  Wrap up
      Alex Ramirez

5:00  Seminar concludes
Swine Reproduction Technology

Date: Saturday, March 1  
Time: 1:00 – 5:00 PM  
Location: Press Club (hotel, 2nd floor)  
Fee: $95  
Seminar chair: Ron Brodersen

This seminar will review female swine reproductive physiol-ogy and endocrinology within the context of utilizing existing and new tools for reproductive management. Presenters will offer their experiences with induction and synchronization of estrus for timed artificial insemination, usage of post-cervical artificial insemination, efficient open female management, and herd reproduction audits. Sow herd reproduction data will be reviewed, focusing on variation and improvements in herd productivity as well as future trends.

1:00  The physiology behind technologies for control of reproduction in swine  
Rob Knox

2:00  Experience with post-cervical AI in a production system  
Julie Ménard

2:30 Single fixed-time insemination  
Grant Allison

3:00 BREAK

3:30 Open female management and reproductive audits  
Bill Hollis

4:00 Historical improvement in sow herd productivity and future trends  
Ron Ketchen

4:30 Panel discussion  
All speakers

5:00 Seminar concludes
Using pharmaceuticals correctly is essential to animal health. Regulatory and customer requirements are changing, and veterinarians and their clients need to be able to protect animal health while documenting compliance with these requirements. This seminar will utilize a case study on penicillin residues to demonstrate federal agency and customer requirements. It will also address upcoming changes in antimicrobial availability and oversight, and explore methods used in other countries.

Penicillin residues in sows: A case study

1:00 Residues from beginning to end: How tolerances are set and violations are investigated by the FDA
Steve Vaughn

1:25 FSIS: A day in the life of a sample
Emilio Esteban

1:50 Residues from a packer’s point of view
Barb Masters

2:15 Residue/withdrawal research: How does FARAD help inform us?
Mike Apley

2:40 BREAK

3:05 Producer’s point of view: How to avoid the violators list while taking care of your animals
Dyneah Classen

3:30 Residue discussion: Looking for solutions
3:40  AMDUCA in the real world: How do our practices conform?  
      Mike Apley

4:00  VFDs, growth promotion, disease control and prevention: How FDA’s new guidances may affect your practice  
      Scott Stehlik

4:30  Update on antibiotic use data collection in the European Union  
      Jennifer Koeman

5:00  Seminar concludes
Seminar 6

**Operation Main Street Training**

**Date:** Saturday, March 1  
**Time:** 1:00 – 5:15 PM  
**Location:** Majestic 4 and 5 (hotel, 37th floor)  
**Fee:** No charge  
**Limit:** 25 participants; US AASV member veterinarians only  
**Seminar chair:** Al Eidson

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**Co-sponsored by AASV and the National Pork Board**

In 2011, AASV and the National Pork Board partnered to train veterinarians as Operation Main Street speakers with a goal to schedule a speaker in all 28 schools of veterinary medicine. To date, trained veterinarians have presented at 24 of 28 schools, reaching 5000 students through this program.

This training updates participants on what activists are saying about agriculture today, and provides attendees with the needed tools and presentations to address those concerns in a science-based, proactive manner. The objective is to equip veterinarians to speak to veterinary students and professional groups, including dietitians. Unless otherwise indicated, presentations will be made by Al Eidson.

1:00  Welcome, overview, and introductions  
1:15  Antibiotic update  
**Jennifer Koeman**  
1:40  A presentation for schools of veterinary medicine  
**Gene Nemechek**  
2:40  Industry structure; Social license  
3:00  BREAK; Biography photos  
3:15  Values-based communications (Center for Food Integrity research)  
3:25  “What they hear” (US Farmers and Ranchers Alliance research)
Seminar 6

3:40  Issue updates and answering common questions:
      3:40  Animal care and well-being
      4:20  Environment
      4:40  Worker health/public safety

5:00  Events at schools of veterinary medicine; speaking to civic groups, dietitians, and county commissioners

5:15  Training evaluation; Seminar concludes
For many, Sunday is a day to gather with family and friends for spiritual nourishment and encouragement in faith. Bring your family and join your AASV friends for breakfast, music, and fellowship at the AASV Praise Breakfast!

Raise your voice in song with the AASV praise band. Then, learn about opportunities with the Christian Veterinary Mission group and enjoy an inspirational message from one of our own AASV members to get your week off to a good start!

Your free-will offering, along with support from Stuart Laboratories, will defray the cost of the breakfast. The program will conclude by 8:00 AM to allow you to attend the meeting sessions, but feel free to stay and visit.

All AASV meeting attendees and their family members are welcome!
This seminar will focus on pathogen transmission and how it has the potential to put the US swine industry at risk of contracting foreign animal diseases. It will outline what diseases are most pertinent for the US to be concerned about and describe possibilities of how these pathogens have the potential to cross the border. It will also give perspectives from the diagnostic lab and the field of what veterinarians face with new diseases and how to approach them.

8:00 What are we at risk of? A global perspective
Montserrat Torremorell

8:35 Frequency, dose, and diversity of airborne PRRSV surrounding filtered breeding herds: A seasonal perspective
Scott Dee

9:10 Indirect transmission of swine pathogens: What matters most
Jean Paul Cano

9:45 BREAK

10:05 Pathogen transmission at the border
Kevin Harriger

10:50 Diagnostic perspective: What’s next? The lab results aren’t what I expected
Greg Stevenson

11:25 Production perspective: What’s next? The lab results aren’t what I expected
Luc Dufresne

12:00 Seminar concludes
Effective Communication

Date: Sunday, March 2
Time: 8:00 AM – 12:00 PM
Location: Austin 3 (hotel, 2nd floor)
Fee: $95
Seminar chair: Ginger Pelger

Have you ever attended a boring meeting or workshop? Have you presented to a group of people only to find that several attendees have fallen asleep in the back of the room? Do you feel like you are saying the same thing at every farm visit, only to have your recommendations ignored? If any of these apply, you need to attend this seminar! By the end of the morning, you will know how to create and deliver engaging presentations or discussions to groups of 1–2 people up to 200! Four I Adult Learning will allow you to adapt your style to the participants and involve them in the communication process. There will be discussion and activities during the seminar, so be prepared to interact with each other!

8:00 Introduction to Four I Adult Learning
Ginger Pelger

8:30 Using adult learning in scientific presentations
Corrie Brown

9:20 Farm talk: Using the 4 I’s and DiSC® to reach people
Sarah Probst Miller

10:10 BREAK

10:40 Communicating agriculture to consumers using 4 I Adult Learning method
Colleen Parr Dekker

11:30 Roundtable Q & A: Conclusions and take-home actions
All speakers

12:00 Seminar concludes
Diagnostic Laboratory Synergism for Best Outcomes

Date: Sunday, March 2
Time: 8:00 AM – 12:00 PM
Location: Austin 2 (hotel, 2nd floor)
Fee: $95
Seminar chair: Joseph Rudolphi

Difficult practitioner cases bring out the best of the coordination with the diagnostic laboratories. This seminar will demonstrate how the practitioners, who have experienced difficult cases or hard-to-interpret diagnostic information, and the diagnosticians, who have been challenged to apply their expertise, can come together into a cohesive unit to meld together science and production to solve the issues. Drs Darin Madson, Richard Hesse, and Kurt Rossow will be challenged to comment on the diagnostic methods used in the cases, and to answer questions from all attendees as they may pertain to specific diagnostic methods. Attendees should be prepared to challenge speakers and panel members with diagnostic questions.

8:00  PCV2 in the sow herd: Pathogen or not?  
      Jim Lowe

8:30  Writing the PEDV response plan...using a light pencil  
      Scanlon Daniels

9:15  APP in the sow herd: PCR, serology, culture, now what?  
      Micah Jansen

9:45  BREAK

10:15 Rotavirus piglet diarrhea: Diagnostic and control strategies; dendograms, feedback, and vaccines  
      Dyneah Classen

10:45 Mycoplasma serology: The role and importance of sow herd stability  
      Jamie Lehman

11:15 PRRS instability in an ARC project: The curse or the blessing of the rules of engagement  
      Noel Garbes

12:00 Seminar concludes
Swine Medicine for Students

Date: Sunday, March 2
Time: 8:00 AM – 12:00 PM
Location: Houston AB (conf center, 3rd floor)
Fee: $95; No charge for veterinary students or 2012 or 2013 DVM graduates
Seminar co-chairs: Jeremy Pittman and Angie Supple

This seminar has the goal of providing students with supplementary information for their course curricula at school. This year we will provide information on the economics of raising pigs, an important aspect to consider when providing veterinary care for a farm or system. We will also provide a series of short and concise case studies by recent graduates of common and not-so-common problems, highlighting the thought process of a case work-up. We will end with a popular interactive case presentation where students will work in groups to think through a real-life case example.

As always, recent graduates and life-long students are encouraged to participate.

8:00  Introductions and “multi-sourced commingling”  Angie Supple

8:20  Pig Economics 101  Jason Hocker

9:15  Case presentations:
    9:15  Late finishing diarrhea  Daren Miller
    9:30  Post-weaning E coli  Melissa Hensch
    9:45  Neurological disorder of swine  Sara Hough

10:00  BREAK
10:15 Case presentations:
10:15 Severe respiratory disease in early finishing pigs
   Pete Schneider
10:30 Porcine circovirus type 2: Sorting fact from fiction to develop control strategies
   Megan Potter
10:45 Respiratory disease associated with swine influenza virus (SIV)
   Pete Thomas

11:00 Interactive Case
   Jeremy Pittman

12:00 Seminar concludes
Research Topics

**Date:** Sunday, March 2  
**Time:** 8:00 AM – 12:00 PM  
**Location:** Houston C (conf center, 3rd floor)  
**Session chair:** Chris Rademacher

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8:00  
Differential diagnosis of porcine reproductive and respiratory syndrome infection and vaccination by one-step real-time reverse transcription PCR assays  
**Michael Murtaugh**

8:15  
Pigs selected for increased feed efficiency are less affected by experimental infection with the PRRS virus  
**Jenelle Dunkelberger**

8:30  
Factors associated with N-specific IgG response in piglets experimentally infected with porcine reproductive and respiratory syndrome virus  
**Andrew Hess**

8:45  
Detection and characterization of influenza A virus endemic circulation in neonatal and nursery pigs in a farm using an inactivated influenza vaccine  
**Phil Gauger**

9:00  
Influenza A virus infection and diversity in commercial pig herds  
**Andres Diaz**

9:15  
Maternally derived antibodies induce vaccine-associated enhanced respiratory disease in weaned pigs challenged with heterologous virus  
**Daniela Rajao**

9:30  
Evaluation of porcine epidemic diarrhea virus (PEDV) production impact and management strategies for stability in sow herds  
**Dane Goede**

9:45  
Pathogenesis of porcine epidemic diarrhea virus in post-weaned pigs  
**Drew Magstadt**
Research Topics

10:00  BREAK

10:15  Isolation and characterization of porcine epidemic diarrhea viruses associated with the 2013 disease outbreak in US swine
       Jianqiang Zhang

10:30  Utility of oral fluid sampling and testing for monitoring PEDV in herds
       Leslie Bower

10:45  Development of an alphavirus RNA particle-based vaccine against porcine epidemic diarrhea virus
       Mark Mogler

11:00  A commercial PCV2a vaccine and an experimental PCV2b vaccine both protect against challenge with a 2013 variant mPCV2b
       Tanja Opriessnig

11:15  Comparative detection of *Lawsonia intracellularis*, *Salmonella*, and *Brachyspira* from oral fluids and feces
       Timothy Frana

11:30  Evaluation of loop-mediated isothermal amplification (LAMP) for detection of *Lawsonia intracellularis* in feces and oral fluids
       Ryan Strobel

11:45  Effect of antibiotic treatment on the development of *Haemophilus parasuis* disease and seroconversion
       Nubia Macedo

12:00  Session concludes
Sunday Session #1

Student Seminar

Date: Sunday, March 2
Time: 1:00 – 5:15 PM
Location: Houston AB (conf center, 3rd floor)
Session co-chairs: Peter Davies and Alex Ramirez

Sponsored by ZOETIS

1:00 Use of oral fluids for detection of Ascaris suum eggs
Daniel Boykin, North Carolina State University

1:15 Efficacy of different heat bulbs and reflectors in a commercial sow barn
Alexandra Buckley, Michigan State University

1:30 Utilizing molecular diagnostics to determine the acclimation dose based on the current PRRSv status of the pigs
Ethan Spronk, University of Minnesota

1:45 Evaluation of age-dependent vaccination on piglet antibody response to Fostera™ PCV
Andrew Kryzer, University of Minnesota

2:00 Infection with porcine reproductive and respiratory syndrome virus and Streptococcus suis changes the pharmacokinetics of ceftiofur hydrochloride in nursery pigs
Deanne Day, Iowa State University

2:15 Evaluation of aerosol shedding in growing pigs following administration of porcine reproductive and respiratory syndrome virus vaccine
Anna Samson, Colorado State University

2:30 Comparison of liquid cyclonic air collectors for detection of porcine reproductive and respiratory syndrome virus
Katherine Wedel, University of Minnesota

2:45 BREAK
3:15  Development and evaluation of a *Lawsonia intracellularis* fecal test that differentiates infected from vaccinated animals (DIVA)
*Ryan Strobel, University of Minnesota*

3:30  Potential environmental contamination of porcine reproductive and respiratory syndrome virus (PRRSV) by livehaul vehicles
*Alexander Hintz, University of Wisconsin*

3:45  A comparison on the influence pooling has on *Mycoplasma hyopneumoniae* Real-Time™ polymerase-chain reaction diagnostic assay results for both bronchial and oropharyngeal swab samples from piglets
*Levi Johnson, Iowa State University*

4:00  Identification of risk factors for PRRSv infection in finishing sites with PRRSv negative placed pigs
*Laura Carroll, North Carolina State University*

4:15  Assessment of colostrum management strategies at commercial sow farms using immunocrit ratios
*Brianna Peters, University of Tennessee*

4:30  Dynamics of *Mycoplasma hyosynoviae* detection and clinical presentation
*Jake Schwartz, University of Minnesota*

4:45  The effect of cross fostering on PRRS transmission and litter performance
*Brigitte Mason, University of Illinois*

5:00  An investigation into preweaning piglet mortality in three farrowing systems
*Elizabeth Stiles, University of Pennsylvania*

5:15  Session concludes

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**STUDENT RECEPTION**

Sponsored by: **MERCK ANIMAL HEALTH**

Sunday, March 2
8:30 – 11:00 PM

Austin Ballroom (hotel, 2nd floor)
Industrial Partners

**Date:** Sunday, March 2  
**Time:** 1:00 – 4:45 PM  
**Location:** Houston C (conf center, 3rd floor)  
**Session co-chairs:** Brad Thacker and Dan McManus

**1:00**  
Mecadox: Recent research on control of swine dysentery  
**Dwain Guggenbiller**  
PHIBRO ANIMAL HEALTH

**1:15**  
A single-dose, PCV2a based ORF2 subunit vaccine cross-protects against challenge with a recent PCV2b strain  
**Marc Eichmeyer**  
BOEHRINGER INGELHEIM VETMEDICA

**1:30**  
Efficacy of a *Salmonella Typhimurium* and *Salmonella Choleræsuis* experimental combination vaccine against *S. Typhimurium* challenge in growing pigs  
**Troy Kaiser**  
BOEHRINGER INGELHEIM VETMEDICA

**1:45**  
Evaluation of the prevalence of PCV2 viremia in Canadian breeding herds and piglets  
**Blaine Tully**  
MERCK ANIMAL HEALTH

**2:00**  
Field comparison of PCV2 vaccines: A retrospective production data analysis  
**Brad Thacker**  
MERCK ANIMAL HEALTH

**2:15**  
Circumvent® PCV G2: Standard efficacy and duration of immunity studies  
**Brad Thacker**  
MERCK ANIMAL HEALTH

**2:30**  
Feeding the sow every day; reliability and uptime of electronic sow feeders  
**Jeff Schoening**  
AUTOMATED PRODUCTION SYSTEMS
Sunday Session #2

2:45    BREAK

3:15    Skycis efficacy in a grow-finish facility  
       Mike Brumm  
       ELANCO ANIMAL HEALTH

3:30    Dietary modulation of the intestinal immune response  
       Mike Spurlock  
       ELANCO ANIMAL HEALTH

3:45    Selection for disease tolerance in terminal lines of pigs  
       Mark Weaver  
       CHOICE GENETICS USA

4:00    Immunologic considerations for the use of inactivated multivalent swine influenza vaccines  
       Douglas Stine  
       NEWPORT LABORATORIES

4:15    Effect of post-weaning electrolyte supplementation on the performance of nursery pigs  
       Dan McManus  
       PURINA ANIMAL NUTRITION

4:30    Defining, evaluating and understanding iron deficiency and anemia in modern swine production  
       Christian von der Recke  
       PHARMACOSMOS

4:45    Session concludes
Sunday Session #3

Industrial Partners

**Date:** Sunday, March 2  
**Time:** 1:00 – 5:00 PM  
**Location:** San Antonio A (conf center, 3rd floor)  
**Session chair:** Tara Donovan

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1:00  Effect of an organic acid blend on performance of nursery pigs fed diets with and without antibiotics  
*Betsy Newton  
AKERY, A CARGILL COMPANY*

1:15  A cost-effective alternative to finishing depopulation for swine dysentery  
*Rachel Korty  
NOVARTIS ANIMAL HEALTH US*

1:30  Bioequivalence vs. product content: Pioneer and generic pharmaceuticals  
*David Nash  
NORBROOK*

1:45  Building confidence in generic animal drugs  
*Lonnie Luther  
HUVEPHARMA*

2:00  Quantitative imaging flow cytometry and porcine semen fertility evaluation: A new insight in semen quality and fertility  
*John Versteegen  
MINITUBE OF AMERICA*

2:15  Nursery, finishing and wean-to-finish performance data benchmarking  
*Tom Stein  
META FARMS*

2:30  A novel *Mycoplasma hyopneumoniae* ELISA, specially designed for high specificity  
*Eric van Esch  
BIOCHEK*

2:45  BREAK
3:15  A comprehensive, full chain and US meat sector economic analysis of the adoption of Improvest® by the US pork industry
   Dennis DiPietre
   ZOETIS

3:30  Draxxin at weaning for control of swine respiratory disease in a natural infection
   Doug King
   ZOETIS

3:45  Efficacy and safety of a two-dose, one-bottle porcine circovirus/Mycoplasma hyopneumoniae combination vaccine
   Richard Swalla
   ZOETIS

4:00  Gilt management for 35 PSY
   Juan Carlos Pinilla
   GENUS/PIC

4:15  Elimination of two consecutive swine influenza subtypes in a large breed-wean herd
   Bob Thompson
   GENUS/PIC

4:30  PEDv in the US pig industry: Avoiding our future vulnerabilities
   Hank Harris
   HARRISVACCINES

4:45  RNA particles: A novel application for efficient development of FAD serologic assays
   Luis Giménez
   HARRISVACCINES

5:00  Session concludes

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WELCOME RECEPTION
Sponsored by: ZOETIS
Sunday, March 2
6:30 – 8:30 PM
Dallas CD (conf center, 1st floor)
Sunday Session #4

Industrial Partners

**Date:** Sunday, March 2  
**Time:** 1:00 – 4:45 PM  
**Location:** San Antonio B (conf center, 3rd floor)  
**Session co-chairs:** Joseph Rudolphi and Nathan Winkelman

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1:00  Regulatory restrictions ease with digital solutions  
**Conrad Schmidt**  
GLOBALVETLINK

1:15  Comparison of filter efficiency stability in used air filters  
**Steven Devine**  
CAMFIL USA

1:30  Using litter oral fluids from weanling pigs to monitor PRRS status in commercial sow farms - field study  
**Christa Goodell**  
IDEXX

1:45  Parity differences in reproductive performance and progeny performance  
**Chad Yoder**  
PURETEK GENETICS

2:00  Normal vs optimal levels of fat-soluble vitamins A, D and E for growth and reproduction  
**Rob Stuart**  
STUART PRODUCTS

2:15  Field evaluations using OvuGel® for single fixed-time artificial insemination  
**Charles Francisco**  
JBS UNITED ANIMAL HEALTH

2:30  A case study: Oral Pro Vitamin D3 plus E to aid in control of PRRS virus circulation in three sow farms  
**Grant Allison**  
AURORA PHARMACEUTICAL

2:45  BREAK
3:15 Effect of birthweight on finisher performance and profitability
   Chad Bierman
   BABCOCK GENETICS

3:30 Detection of compliance to PCV2 vaccination using a delayed type hypersensitivity test (DTH test)
   Antonio Callen Mora
   MERIAL

3:45 DLI ileitis immunity in pigs and sows given a high dose *Lawsonia intracellularis* mucosal homogenate challenge
   Nathan Winkelman
   SWINE SERVICES UNLIMITED

4:00 Development and validation of the VetMAX™-Gold SIV subtyping kit
   Angela Burrell
   LIFE TECHNOLOGIES

4:15 The effectiveness of tylvalosin (Aivlosin® Type A Medicated Article) against porcine proliferative enteropathy (PPE; ileitis) in swine challenged with *Lawsonia intracellularis*
   Dan Rosener
   PHARMGATE ANIMAL HEALTH

4:30 Why you need CDCD pigs for your research. Specifically, why you need Struve Labs International CDCD pigs for your research
   Rexanne Struve
   STRUVE LABS INTERNATIONAL

4:45 Session concludes
Veterinary Student Posters (#1 – #42)

**Location:** Grand Hall (conf center, 1st floor)

**Sunday, March 2**

12:00 – 5:00 PM  
Authors present from 12:00 – 1:00 PM

**Monday, March 3**

9:00 AM – 5:00 PM

**Sponsored by ZOETIS**

Posters #1-15 have been selected for judging in the Student Poster Competition, with scholarship awards sponsored by **BOEHRINGER INGELHEIM VETMEDICA, INC**

1. **Variation in sow vocalizations during restraint**  
   **Matthew Cook, University of Pennsylvania**

2. **Evaluation of PRRSV contamination of driver’s boots and foot pedals during feed truck deliveries**  
   **Amy Daniels, University of Illinois**

3. **Oral-fluid collection from gestating sows housed in large static pens**  
   **Lauren Glowzenski, University of Pennsylvania**

4. **Comparison of maternally derived antibodies in weaned pigs following pre-farrow or pre-breeding vaccination of dams with FluSure XP**  
   **Jessica Johnson, University of Minnesota**

5. **Evaluation of swine transport vehicle decontamination practices**  
   **Justin Kuecker, Iowa State University**

6. **The impact of pooling nasal swab samples on the diagnostic sensitivity of influenza A virus RRT-PCR**  
   **Carrie Lee, University of Minnesota**

7. **Dermestes maculatus** infestation of swine barns  
   **Christine Mainquist, Iowa State University**
Veterinary Student Posters

8. The evaluation of PRRSv transfer via tattooing in the suckling piglet  
Chad O’Connor, University of Illinois

9. Oral fluids from individually-housed, “untrained” sows: Baseline parameters  
Brent Pepin, Iowa State University

10. Comparison of different blood storage and transport temperature effects on PRRSV ELISA results  
Lauren Scruggs, Auburn University

11. Effect of tulathromycin or ceftiofur crystalline free acid injection on post-weaning performance and economic return in porcine reproductive and respiratory syndrome virus infected pigs  
Christopher Sievers, Iowa State University

12. Using placental umbilical cord serum to determine porcine circovirus type 2 (PCV2) status of breeding herd  
Tyler Te Grotenhuis, Iowa State University

13. Effects of an iron dextran injection at weaning on pigs’ blood hemoglobin status and nursery performance  
Shannon Walsh, Ontario Veterinary College

14. Novel use of DNA traceback for genetic selection in the Canadian swine industry  
Christina Yamazaki, Atlantic Veterinary College

15. Improved pre-weaning surveillance using oral fluids: A pilot study  
Lisa Yeske-Livermore, Iowa State University

16. On-site testing of oral fluids for ceftiofur residues using beta-lactam SNAP testing  
Sarah Balik, Iowa State University

17. *Mycoplasma hyopneumoniae* vaccination strategies and challenge in a field setting  
Cody Branstad, Iowa State University

Continued on next page
Veterinary Student Posters

18. Metaphylactic use of tulathromycin in finishing pigs to control multifactorial porcine respiratory disease  
Courtney Brumbaugh, Purdue University

19. Monitoring the compliance of the vaccination procedures of 30,535 pigs  
Colleen Crozier, North Carolina State University

20. Comparison of regional limb injection to systemic medication for the treatment of septic lameness in breeding female swine  
Luke Duckworth, Texas A&M University

21. Effect of pre-farrow vaccination for *Mycoplasma hyopneumoniae* on the bacterial prevalence in offspring at weaning  
Jon Ertl, University of Minnesota

22. A comparison of sampling methods for *Salmonella enterica* serovar Typhimurium  
Will Fombelle, University of Illinois

23. Efficacy of commercial water treatment products to inactivate PRRS virus  
Marissa Garry, University of Minnesota

24. Antemortem joint fluid sampling and optimization of transport material for the recovery of lameness-associated *Mycoplasma* in swine  
Whitney Holt, Iowa State University

25. Age of susceptibility and infectious dose of *Clostridium difficile* in neonatal suckling pigs  
Kayce Kobs, Iowa State University

26. A study on pre- and post-suckling serum total protein and influences by different day one pig care interventions  
Scott Kramer, Michigan State University
Veterinary Student Posters

27. Value of health and production performance improvement resulting from the treatment of sows exhibiting post-farrowing vaginal discharge
Brittney McLamb, North Carolina State University

28. Assessment of sample methods for detecting and estimating prevalence of *Lawsonia intracellularis*, *Brachyspira hyodysenteriae*, and *Salmonella* spp in wean to finish pigs
Daniel Meyer, Iowa State University

29. Characterization of the GP5 glycoprotein of porcine reproductive and respiratory syndrome virus pathogenicity
Sally Moseley, St. Matthew’s University

30. Cognitive bias in gestation sows: A new window on sow welfare?
Megan Murray, University of Pennsylvania

31. Evaluation of a one-dose autogenous *Mycoplasma hyosynoviae* vaccine to control grow/finish lameness in finishing pigs
Chris Olsen, Iowa State University

32. *Trichinella*: The role of swine practitioners
Marianne Parent, Atlantic Veterinary College

33. Behavioral assessment of gestating sows via ear-mounted accelerometers
Lynn Pavlovic, University of Pennsylvania

34. Biological pain indicators for the characterization of piglet pain during and after processing
Kelly Pertzborn, Iowa State University

35. Development of porcine reproductive and respiratory syndrome outbreak investigations program for breeding herds in regional projects in Iowa
Scott Radke, Iowa State University

Continued on next page
36. The role of parity and prevalence on transmission of *Actinobacillus pleuropneumoniae* to offspring: A case study  
**Caleb Robb, Iowa State University**

37. Genetic and geographic variation of PRRSV among the sites of a single company  
**Megan Schnur, Purdue University**

38. Monitoring mortality rates for the evaluation of alpha-virus RNA particle vaccines  
**Channing Sebo, Iowa State University**

39. Comparison of chlortetracycline and tiamulin concentrations in feed, plasma, and oral fluids with pathogen MICs in treated commercial swine sites  
**Joel Sparks, Iowa State University**

40. Comparative evaluation of snout wipes for use in influenza A virus surveillance  
**Christine Szablewski, The Ohio State University**

41. Investigation of the use of ketoprofen on dystocic sows post-farrowing for improving piglet performance  
**Ryan Tenbergen, Ontario Veterinary College**

42. Development and validation of ELISA testing for serological monitoring and surveillance of porcine epidemic diarrhea virus  
**Benjamin Wier, University of Minnesota**
Poster Session

Research Topics Posters (#43 - #83)

Location: Grand Hall (conf center, 1st floor)

Sunday, March 2
12:00 – 5:00 PM
Authors present from 12:00 to 1:00 PM

Monday, March 3
9:00 AM – 5:00 PM

43. Effect of the electrostatic particle ionization technology on PRRSV and influenza aerosols under experimental conditions
   Carmen Alonso

44. Pathogenesis of porcine epidemic diarrhea virus (PEDv) in CDCD neonatal piglets
   Paulo Arruda

45. Translactational analgesia technology for the improvement of swine welfare during castration and tail docking
   Jessica Bates

46. Molecular epidemiology of influenza A virus infections in swine at agricultural fairs
   Andrew Bowman

47. Antimicrobial susceptibility of pathogenic microorganisms isolated from swine intensive production systems in Chile
   Macarena Cortez-Jara

48. Comparative evaluation of one and two dose PCV/ Mycoplasma hyopneumoniae vaccination protocols in swine challenged with PCV and M. hyopneumoniae
   Bobby Cowles

49. Effects of castration on preweaning mortality
   Bobby Cowles

50. The impact of immunological castration on wean to finish body weight variation
   Bobby Cowles

Continued on next page
51. Description and administration success rate of regional limb intravenous perfusion in swine
Brandon Dominguez

52. Efficacy and safety of a one dose one bottle porcine circovirus/Mycoplasma hyopneumoniae combination vaccine
Daniel Fredrickson

53. Detection of porcine epidemic diarrhea virus in air samples at varying distances to epidemic farms in Oklahoma
Dane Goede

54. Growth and cost analysis of immunologically castrated pigs fed distillers dried grains with solubles (DDGS)
Erin Harris

55. Use of an enzyme-linked immunosorbent assay (ELISA) to determine the vaccine uptake following different vaccination schedules against Mycoplasma hyopneumoniae (M hyo) - practical interest
Marc Henninger

56. Relationship between prevalence and severity of lung lesions at slaughter and performance of pigs
Marc Henninger

57. Safety of Draxxin® 25 Injectable Solution (tulathromycin 25 mg/mL) in swine for treatment and control of swine respiratory disease
Doug King

58. Innovative air filtration strategies at the exhaust fans of a quarantine building
Valérie Létourneau

59. Immunological castration controls boar taint in male pigs
Marnie Mellencamp

60. Dynamics of influenza A virus in aerosols and oral fluids from acutely infected swine populations
Victor Neira-Ramirez
Research Topics Posters

61. Relationship of microscopic lesions and viral load in fetal implantation sites for type 2 PRRSv infected pregnant gilts
   Predrag Novakovic

62. Novel platform for simultaneous detection of antibodies against Apx toxins I, II, III and IV to determine *Actinobacillus pleuropneumoniae* exposure
   Tanja Opriessnig

63. High prevalence and genetic diversity of porcine bocavirus (PBoV) in US pigs and identification of multiple novel PBoV species
   Tanja Opriessnig

64. Luminex® application for PCV2 serological diagnosis
   Tanja Opriessnig

65. Evidence for association of emerging parvoviruses in pigs with cases of porcine circovirus associated disease
   Tanja Opriessnig

66. Influenza A virus (IAV) surveillance using pre-weaning oral fluid samples
   Yaowalak Panyasing

67. Evaluation of the electrostatic particle ionization (EPI) technology to reduce the risk of PRRS infections
   Gil Patterson

68. Modified live PRRSv vaccination is efficacious following challenge with eight genetically diverse PRRSV isolates
   Abby Patterson

69. Investigating risk factors for *Mycoplasma hyopneumoniae* piglet colonization during the lactation period
   Maria Pieters

70. Evolution of sow productivity in the last ten years in American and European swine herds
   Carlos Piñeiro

*Continued on next page*
Research Topics Posters

71. Cross-protection of Flusure XP® in pigs challenged with a gamma cluster H1N1/pH1N1 reassortant swine influenza virus
   Vicki Rapp-Gabrielson

72. Vaccine related protection against PCV2 fetal infection in conventional gilts
   Giuseppe Sarli

73. Preliminary virology and pathology of porcine epidemic diarrhea virus (PEDv) in the United States, spring 2013
   John Schiltz

74. GWAS for reproduction traits and antibody response in PRRS infected sows
   Nick Serao

75. A major gene for host response to PRRSV infection
   Nick Serao

76. Next generation sequencing of the porcine reproductive and respiratory syndrome virus genome
   Rohan Shah

77. Understanding genome-enabled selection
   Kenneth Stalder

78. National PRRSv Incidence Project
   Steve Tousignant

79. Collaborative information system for PRRS management: from farm to cell phones
   Lily Urizar

80. Production and economic aspects of pig production sites involved in PRRS area regional control projects in Canada
   Lily Urizar

81. Prevalance of different respiratory pathogens during post-weaning and fattening period in Belgian and Dutch pig herds using a tracheobronchial swab technique
   Frédéric Vangroenweghe
Research Topics Posters

82. A PCV2a based ORF2 subunit vaccine cross protects against challenge with a recent PCV2b strain
Dirk Werling

83. Cause of death for hogs that die during transport to an abattoir
Kathy Zurbrigg
Industrial Partners Posters (#84 – #95)

**Location:** Grand Hall (conf center, 1st floor)

**Sunday, March 2**
12:00 – 5:00 PM
Authors present from 12:00 to 1:00 PM

**Monday, March 3**
9:00 AM – 5:00 PM

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**84.** Administration of Oral Pro: Vitamin D3 plus E in drinking water of gestating sows  
Grant Allison  
AURORA PHARMACEUTICAL

**85.** Reduction of wild-type PRRS virus shedding in aerosol of growing pigs by modified-live virus vaccination at weaning  
Joel Nerem  
BOEHRINGER INGELHEIM VETMEDICA

**86.** Hemicell® HT 1.5x and Zymannase® use to control a consumed immunogen in the form of β-1,4 galactomannan and β-1,3 glucan  
Jon Ferrel  
ELANCO ANIMAL HEALTH

**87.** Non-living vector vaccines: Introduction to RNA particles and real-time application in the field  
Joel Harris  
HARRISVACCINES

**88.** Development of a new IDEXX ELISA for the detection of PRRS antibodies in swine oral fluids  
Christa Goodell  
IDEXX

**89.** Commercial farm evaluation of sow reproductive performance using OvuGel® with a single fixed-time artificial insemination protocol  
Stephen Webel  
JBS UNITED ANIMAL HEALTH
Industrial Partners Posters

90. Utilizing progesterone assays to troubleshoot reproductive problems and augment the use of PG 600® and MATRIX™
Jamie Lehman
MERCK ANIMAL HEALTH

91. Improvement of pig performance parameters after piglet and sow vaccination against PCV2
Thaïs Vila
MERIAL

92. Weaned sow cohort benchmark analysis
Tom Stein
META FARMS

93. Heterogeneity among *Mycoplasma hyosynoviae* field strains characterized by soluble protein profiling, antigen recognition using immunoblotting, and PCR-RFLP fingerprinting
Boh Chang Lin
MVP LABORATORIES

94. Recent experiences with tylvalosin (Aivlosin®) intervention for the eradication of *Mycoplasma hyopneumoniae* in commercial swine operations
Mark Roozen
PHARMGATE ANIMAL HEALTH

95. Safety, efficacy, and duration of immunity of a PRRSv MLV vaccine in 1 day-of-age pigs
Brett O’Brien
ZOETIS
SPOUSE HOSPITALITY SUITE

Monday, March 3
Time: 7:00 – 9:00 AM
Location: Press Club
(hotel, 2nd floor)

The AASV is pleased to host the spouse hospitality suite at the Sheraton Dallas Hotel. Visit with old friends and make new acquaintances as you enjoy pastries, juice, and coffee. This is a great place to plan the rest of your day with fellow AASV spouses and families.

AASV Foundation Raffle

Here’s a fun opportunity for ALL AASV members to support the Foundation!

The raffle drawing will be held during the Live Auction on Monday, March 3.

FOR $100 PER RAFFLE TICKET, YOU CAN SUPPORT THE FOUNDATION AND HAVE A CHANCE TO WIN:

1st prize: Dean & Deluca Wine Club, 1-Year Subscription donated by ZOETIS

2nd prize: $1000

3rd prize: 2015 AASV meeting registration

4th prize: 2015 AASV meeting registration

Need not be present to win!

Contact the AASV office or one of the Auction Committee members to purchase your ticket(s) and support the foundation!
Spurred on by last year’s success, the AASV Foundation Auction Committee is striving for a 2014 fundraiser as “Big as Texas,” with the goal to surpass $100,000 once again. AASV members and sponsors have already contributed an amazing variety of items for the auction – so “remember the foundation” with your big-as-Texas heart and bid generously!

Look over the auction catalog or go to www.aasv.org/foundation to see the items up for bid. Since everything’s been donated, the full amount of your bid will support AASV Foundation programs, including swine research, scholarships, swine externship grants, annual meeting travel stipends for students, heritage videos, and more!

**Silent Auction**
Bid on the silent auction items on Monday, March 3. The bidding will close Monday evening, and we’ll announce the names of the winning bidders at the AASV Awards Reception.

**Live Auction**
We’re saving a few items for the Live Auction, to be held at the conclusion of the AASV Awards Reception Monday evening.

Remember the Foundation!

aasv.org/foundation
Our Oath in Practice

Date: Monday, March 3
Time: 8:00 AM – 12:15 PM
Location: Dallas AB (conf center, 1st floor)
Program chair: Michelle Sprague

8:00   Howard Dunne Memorial Lecture
       The pig always wins
       Daryl Olsen

9:00   Alex Hogg Memorial Lecture
       The PED challenge: Application of our veterinary oath to represent the interest of the pig
       Mark Engle

10:00  BREAK

10:30  Today it is PED. What will tomorrow bring?
       Watching the eastern horizon
       Jer Geiger

11:00  Meeting our collective oath: USDA Comprehensive and Integrated Swine Surveillance
       John Clifford

11:30  Lessons learned and future application
       Butch Baker

12:15  LUNCHEON

AASV LUNCHEON

Sponsored by:
BOEHRINGER INGELHEIM
VETMEDICA, INC
Monday, March 3
12:15 – 2:00 PM
Dallas CD (conf center, 1st floor)
Monday Session #1

PRRS and SIV

**Date:** Monday, March 3  
**Time:** 2:00 – 5:30 PM  
**Location:** Dallas AB (conf center, 1st floor)  
**Session chair:** Jason Kelly

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2:00  Northwest Indiana PRRS ARC project: What is success?  
*Megan Inskeep*

2:30  Techniques for reducing intra-herd spread of PRRS  
*Jim Lowe*

3:00  Update from the AASV PRRS task force: What is working and what is next?  
*Bob Morrison*

3:30  BREAK

4:00  Making sense of SIV diagnostics for application on the farm  
*Marie Culhane*

4:30  Connecting the dots between swine influenza A virus surveillance and vaccines  
*Amy Vincent*

5:00  Update from the AASV Influenza Committee  
*Joe Connor*

5:30  Session concludes

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**AASV AWARDS RECEPTION**

Sponsored by:  
ELANCO ANIMAL HEALTH

Monday, March 3  
6:30 – 8:30 PM  
Dallas CD (conf center, 1st floor)
Monday Session #2

**Mycoplasma and Enteric Management**

**Date:** Monday, March 3  
**Time:** 2:00 – 5:30 PM  
**Location:** San Antonio AB (conf center, 3rd floor)  
**Session chair:** Shamus Brown

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>2:00</td>
<td>Update on <em>Mycoplasma</em> research</td>
<td>Maria Clavijo</td>
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<td>2:30</td>
<td>Use of parity segregation in <em>Mycoplasma hyopneumoniae</em> elimination</td>
<td>Laura Bruner</td>
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<td>2:45</td>
<td>Clinical management of <em>Mycoplasma hyosynoviae</em></td>
<td>Cameron Schmitt</td>
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<td>3:00</td>
<td>Clinical management of <em>Mycoplasma hyorhinis</em></td>
<td>Deb Murray</td>
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<td>3:15</td>
<td><em>Mycoplasma suis</em>: Strategies for control</td>
<td>Megan Potter</td>
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<tr>
<td>3:30</td>
<td><strong>BREAK</strong></td>
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</tr>
<tr>
<td>4:00</td>
<td>Rotaviruses: The only constant is change</td>
<td>Dick Hesse</td>
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<tr>
<td>4:15</td>
<td>Clinical management of rotavirus</td>
<td>Doug Groth</td>
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<tr>
<td>4:30</td>
<td>Management of hemolytic <em>E. coli</em> in recently weaned pigs</td>
<td>Craig Rowles</td>
</tr>
<tr>
<td>5:00</td>
<td>Diagnostic interpretation of a wean-to-finish mixed enteric disease</td>
<td>Eric Burrough</td>
</tr>
<tr>
<td>5:30</td>
<td>Session concludes</td>
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</tbody>
</table>

**COMMERCIAL EXHIBIT**  
Technical Tables Open  
Monday, March 3  
9:00 AM – 5:00 PM  
Tuesday, March 4  
8:00 AM – 12:00 PM  
Grand Hall (conf center, 1st floor)
Animal Welfare

Date: Monday, March 3
Time: 2:00 – 5:30 PM
Location: Houston AB (conf center, 3rd floor)
Session chair: Lisa Tokach

2:00  Pain management options
       Annette O’Connor

2:30  AMDUCA: What worked in 1997 is NOT working so well in 2014
       Hans Coetzee

3:00  Euthanasia: Moving away from blunt force trauma
       Kate Dion

3:30  BREAK

4:00  Transitioning away from the gestation stall: Sow considerations
       Laurie Connor

4:30  Transitioning away from the gestation stall: It’s all about the people
       Jose Rojas

5:00  The welfare of transportation
       Anna Johnson

5:30  Session concludes

AASV FOUNDATION AUCTION

Monday, March 3
(conf center, 1st floor)

Silent Auction: Bidding starts at noon
Live Auction: After AASV Awards Reception
Loos Tales and Loose Stools

Date: Tuesday, March 4  
Time: 8:00 AM – 12:00 PM  
Location: Dallas AB (conf center, 1st floor)  
Session chair: Michelle Sprague

8:00  To die or not to die  
Trent Loos

9:00  National Pork Board-funded PEDv research summary  
Paul Sundberg

9:15  PEDv pathogenesis and diagnostics  
Kyoung-Jin Yoon

9:45  BREAK

10:15  Epidemiology and economic impact of PEDv  
Bob Morrison

10:45  A practitioner’s perspective on PEDv  
Luc Dufresne

11:15  Charge to AASV  
Joe Connor

11:45  Open microphone: Membership’s charge to AASV  
Michelle Sprague, facilitator

12:00  Meeting concludes

AASV BUSINESS BREAKFAST

Tuesday, March 4  
7:00 – 8:00 am  
Dallas C  
(conf center, 1st floor)
<table>
<thead>
<tr>
<th>Speakers</th>
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<tbody>
<tr>
<td>Grant Allison</td>
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<tr>
<td>Carmen Alonso</td>
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<tr>
<td>Mike Apley</td>
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<td>Paulo Arruda</td>
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<td>Butch Baker</td>
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<td>Sarah Balik</td>
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<td>Joshua Barker</td>
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<td>Jessica Bates</td>
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<td>Tammy Beckham</td>
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<td>Chad Bierman</td>
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<td>Leslie Bower</td>
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<td>Corrie Brown</td>
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<td>Antonio Callen Mora</td>
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<td>Jean Paul Cano</td>
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<td>Laura Carroll</td>
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<td>Brad Chappell</td>
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<td>Dyneah Classen</td>
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<td>Maria Clavijo</td>
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<td>John Clifford</td>
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<td>Hans Coetzee</td>
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<td>Larry Coleman</td>
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<td>Joe Connor</td>
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<td>Laurie Connor</td>
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<td>Matthew Cook</td>
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<td>Macarena Cortez-Jara</td>
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<td>Bobby Cowles</td>
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<td>Kimberly Crawford</td>
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<td>Colleen Crozier</td>
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<td>Marie Culhane</td>
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<td>Amy Daniels</td>
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<td>Deanne Day</td>
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<td>Andres Diaz</td>
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<td>Kate Dion</td>
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<td>Dennis DiPietre</td>
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<td>Brandon Dominguez</td>
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North Mankato, MN
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Winnipeg, MB
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Chillan, Chile
Ridgefield, WA
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Raleigh, NC
St Paul, MN
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Dalhart, TX
Ames, IA
Pipestone, MN
Riverdale, NJ
St Paul, MN
Spring Green, WI
Columbia, MO
College Station, TX
<table>
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<tr>
<th>Speakers</th>
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<tbody>
<tr>
<td>Luke Duckworth</td>
<td>College Station, TX</td>
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<td>Luc Dufresne</td>
<td>Shawnee Mission, KS</td>
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<td>Jenelle Dunkelberger</td>
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<td>Marc Eichmeyer</td>
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<td>Al Eidson</td>
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<td>Mike Eisenmenger</td>
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<td>Mark Engle</td>
<td>Hendersonville, TN</td>
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<td>Jon Ertl</td>
<td>St Paul, MN</td>
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<td>Emilio Esteban</td>
<td>Athens, GA</td>
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<td>Jon Ferrel</td>
<td>Frankfort, IN</td>
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<td>Will Fombelle</td>
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<td>Timothy Frana</td>
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<td>Charles Francisco</td>
<td>Sheridan, IN</td>
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<td>Daniel Fredrickson</td>
<td>Kalamazoo, MI</td>
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<td>Noel Garbes</td>
<td>Sycamore, IL</td>
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<td>Marissa Garry</td>
<td>St Paul, MN</td>
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<tr>
<td>Phil Gauger</td>
<td>Ames, IA</td>
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<tr>
<td>Jer Geiger</td>
<td>Shanghai, China</td>
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<td>Luis Giménez</td>
<td>Ames, IA</td>
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<tr>
<td>Lauren Glowzenski</td>
<td>Philadelphia, PA</td>
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<td>Dane Goede</td>
<td>Minneapolis, MN</td>
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<td>Christa Goodell</td>
<td>Westbrook, ME</td>
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<td>Doug Groth</td>
<td>Carthage, IL</td>
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<td>Dwain Guggenbiller</td>
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<td>Abby Harding</td>
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<td>Kevin Harriger</td>
<td>Washington, DC</td>
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<td>Erin Harris</td>
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<td>Hank Harris</td>
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<td>Joel Harris</td>
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<td>Marc Henninger</td>
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<td>Melissa Hensch</td>
<td>Ankeny, IA</td>
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<td>Andrew Hess</td>
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<td>Dick Hesse</td>
<td>Manhattan, KS</td>
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<td>Alexander Hintz</td>
<td>Madison, WI</td>
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<td>Jason Hocker</td>
<td>Audubon, IA</td>
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<td>Bill Hollis</td>
<td>Carthage, IL</td>
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<td>Whitney Holt</td>
<td>Ames, IA</td>
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<td>Derald Holtkamp</td>
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<td>Sara Hough</td>
<td>Clinton, NC</td>
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<td>Megan Inskeep</td>
<td>Rensselaer, IN</td>
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<td>Micah Jansen</td>
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<td>Anna Johnson</td>
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<td>Clayton Johnson</td>
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<td>Jessica Johnson</td>
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<td>Levi Johnson</td>
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<tr>
<td>Troy Kiser</td>
<td>St Joseph, MO</td>
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<tr>
<td>Jason Kelly</td>
<td>Algona, MO</td>
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<tr>
<td>Ron Ketchem</td>
<td>Fremont, NE</td>
</tr>
</tbody>
</table>

58
Speakers

Doug King
Rob Knox
Kayce Kobs
Jennifer Koeman
Rachel Korty
Scott Kramer
Andrew Kryzer
Justin Kuecker
Pete Lasley
Carrie Lee
Jamie Lehman
Valérie Létourneau
Boh Chang Lin
Trent Loos
Jim Lowe
Aaron Lower
Lonnie Luther
Douglas MacDougald
Nubia Macedo
Darin Madson
Drew Magstadt
Christine Mainquist
Brigitte Mason
Barbara Masters
Brittney McLamb
Dan McManus
Marnie Mellencamp
Julie Ménard
Daniel Meyer
Daren Miller
Mark Mogler
Bob Morrison
Sally Moseley
Chris Mowrer
Deborah Murray
Megan Murray
Michael Murtaugh
David Nash
Victor Neira-Ramirez
Gene Nemechek
Joel Nerem
Betsy Newton
Predrag Novakovic
Brett O’Brien
Annette O’Connor
Chad O’Connor
Carissa Odland
Chris Olsen

Otley, IA
Urbana, IL
Ames, IA
Clive, IA
Lafayette, IN
Okemos, MI
St Paul, MN
Ames, IA
Trenton, MO
St Paul, MN
Sullivan, IL
Quebec, QC
Omaha, NE
Loup City, NE
Albers, IL
White Heath, IL
Damascus, MD
Stratford, ON
St Paul, MN
Maxwell, IA
Ames, IA
Ames, IA
Savoy, IL
Washington, DC
Raleigh, NC
Dakota Dunes, SD
St Joseph, MO
Ange Gardien, QC
Ames, IA
Westfield, IN
Ames, IA
St Paul, MN
Elgin, IL
Madrid, IA
Jackson, MN
Philadelphia, PA
St Paul, MN
Gallatin, TN
Santiago, Chile
Wilson, NC
Pipestone, MN
Brookville, OH
Saskatoon, SK
Mankato, MN
Ames, IA
Urbana, IL
Pipestone, MN
Johnston, IA
Speakers

Daryl Olsen
Tanja Opriessnig
Yaowalak Panyasing
Colleen Parr Dekker
Marianne Parent
Abby Patterson
Gil Patterson
Lynn Pavlovic
Ginger Pelger
Brent Pepin
Kelly Pertzborn
Brianna Peters
Maria Pieters
Carlos Piñeiro
Juan Carlos Pinilla
Jeremy Pittman
Dale Polson
Megan Potter
Todd Price
Sarah Probst Miller
Scott Radke
Daniela Rajao
Alex Ramirez
Vicki Rapp-Gabrielson
Caleb Robb
Rebecca Robbins
Jose Rojas
Mark Roosen
Dan Rosener
Kurt Rossow
Craig Rowles
Joe Rudolphi
Anna Samson
Giuseppe Sarli
John Schiltz
Conrad Schmidt
Cameron Schmitt
Pete Schneider
Megan Schnur
Jeff Schoening
Jake Schwartz
Lauren Scruggs
Channing Sebo
Nick Serao
Rohan Shah
Christopher Sievers
Chad Smith
Joel Sparks

Audubon, IA
Ames, IA
Ames, IA
Greenfield, IN
Ames, IA
Montague, PE
Story City, IA
St Peter, MN
Philadelphia, PA
Greenfield, IN
Ames, IA
Ames, IA
Knoxville, TN
St Paul, MN
Segovia, Spain
Hendersonville, TN
Wakefield, VA
Ankeny, IA
Abilene, KS
Sycamore, OH
Monticello, IL
Ames, IA
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Kalamazoo, MI
Ames, IA
Taylor, AZ
Deurne, The Netherlands
Creston, IA
St Paul, MN
Carroll, IA
Noble, IL
Fort Collins, CO
Bologna, Italy
Ames, IA
Independence, IA
Waterloo, IA
West Lafayette, IN
Pocahontas, IA
Sleepy Eye, MN
Auburn, AL
Ames, IA
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Ames, IA
Goldsboro, NC
Ames, IA
Ethan Spronk  
Mike Spurlock  
Kenneth Stalder  
Scott Stehlik  
Tom Stein  
Greg Stevenson  
Elizabeth Stiles  
Douglas Stine  
Ryan Strobel  
Rexanne Struve  
Rob Stuart  
Paul Sundberg  
Angie Supple  
Richard Swalla  
Christine Szablewski  
Tyler Te Grotenhuis  
Ryan Tenbergen  
Brad Thacker  
Paul Thomas  
Pete Thomas  
Robert Thompson  
Montse Torremorell  
Steve Tousignant  
Blaine Tully  
Matthew Turner  
Lily Urizar  
Eric van Esch  
Frédéric Vangroenweghe  
Steven Vaughn  
John Verstegen  
Thaïs Vila  
Amy Vincent  
Christian von der Recke  
Shannon Walsh  
Mark Weaver  
Stephen Webel  
Katharine Wedel  
Dirk Werling  
Benjamin Wier  
Nathan Winkelman  
Amy Woods  
Christina Yamazaki  
Paul Yeske  
Lisa Yeske-Livermore  
Chad Yoder  
Kyoung-Jin Yoon  
Jianqiang Zhang  
Kathy Zurbrigg  

St Paul, MN  
Ames, IA  
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Burnsville, MN  
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Overland Park, KS  
Maple Grove, MN  
Manning, IA  
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Boone, IA  
Franklin, KY  
St Paul, MN  
St Paul, MN  
Winnipeg, MB  
Clinton, NC  
Quebec, QC  
Reeuwijk, The Netherlands  
Torhout, Belgium  
Rockville, MD  
Verona, WI  
Lyon, France  
Nevada, IA  
Watchung, NJ  
Guelph, ON  
West Des Moines, IA  
Sheridan, IN  
St Paul, MN  
Hatfield, UK  
St Paul, MN  
Rice, MN  
Remington, IN  
San Diego, CA  
St Peter, MN  
Madrid, IA  
Francesville, IN  
Ames, IA  
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Elora, ON
Saturday, March 1

7:00 AM
Registration Desk open  
Location: Skybridge (hotel, 2nd floor)
Committee Meetings  
Location: City View rooms (hotel, 4th floor)

7:30 AM
PRRS Risk Assessment Training (see page 10)  
Location: Seminar (hotel, 2nd floor)

8:00 AM
ABVP Entrance Examination  
Location: Live Oak (hotel, 2nd floor)
ABVP Oral Examination  
Location: Exec Boardroom (hotel, 2nd floor)

1:00 PM
SEMINARS
#1 Practice Tips: It’s Our Sworn Duty to Share  
(see page 12)  
Location: Austin 1 (hotel, 2nd floor)

#2 Grow-Finish Biosecurity: Reality or Oxymoron?  
(see page 14)  
Location: Austin 2 (hotel, 2nd floor)

#3 Data Management (see page 15)  
Location: Austin 3 (hotel, 2nd floor)

#4 Swine Reproduction Technology (see page 17)  
Location: Press Club (hotel, 2nd floor)

#5 Avoiding Black Helicopters (see page 18)  
Location: Remington (hotel, 4th floor)

#6 Operation Main Street Training (see page 20)  
Location: Majestic 4 and 5 (hotel, 37th floor)

5:00 PM
OPEN EVENING
There is no reception scheduled for Saturday evening. 
Explore and enjoy Dallas!
Sunday, March 2

6:30 AM
AASV Student Breakfast
Location: Press Club (hotel, 2nd floor)

7:00 AM
Praise Breakfast (see page 22)
Sponsored by STUART PRODUCTS
Location: Atrium (hotel, 2nd floor)

Registration Desk open
Location: Skybridge (hotel, 2nd floor)

8:00 AM
Canadian Swine Veterinarians
Location: State Room 3 (conf center, 3rd floor)

SEMINARS

#7 Pathogen Transmission: From around the World to Your Backyard! (see page 23)
Location: San Antonio AB (conf center, 3rd floor)

#8 Effective Communication (see page 24)
Location: Austin 3 (hotel, 2nd floor)

#9 Diagnostic Laboratory Synergism for Best Outcomes (see page 25)
Location: Austin 2 (hotel, 2nd floor)

#10 Swine Medicine for Students (see page 26)
Location: Houston AB (conf center, 3rd floor)

RESEARCH TOPICS (see page 28)
Location: Houston C (conf center, 3rd floor)
Sunday, March 2

12:00 PM

**POSTER SESSION OPEN**
Authors in attendance: 12:00 – 1:00 PM
Location: Grand Hall (conf center, 1st floor)

**Veterinary Student Posters** (see page 38)
Sponsored by **ZOETIS**

**Research Topics Posters** (see page 43)

**Industrial Partners Posters** (see page 48)

**AASV FOUNDATION LUNCHEON**
(Advance registration required)
Location: Atrium (hotel, 2nd floor)

1:00 PM

**CONCURRENT SESSIONS**

**#1 Student Seminar** (see page 30)
Sponsored by **ZOETIS**
Location: Houston AB (conf center, 3rd floor)

**#2 Industrial Partners** (see page 32)
Location: Houston C (conf center, 3rd floor)

**#3 Industrial Partners** (see page 34)
Location: San Antonio A (conf center, 3rd floor)

**#4 Industrial Partners** (see page 36)
Location: San Antonio B (conf center, 3rd floor)

6:30 PM – 8:30 PM

**WELCOME RECEPTION**
Sponsored by **ZOETIS**
Location: Dallas CD (conf center, 1st floor)

8:30 PM – 11:00 PM

**STUDENT RECEPTION**
Sponsored by **MERCK ANIMAL HEALTH**
Location: Austin Ballroom (hotel, 2nd floor)
Monday, March 3

7:00 AM
Registration Desk open
Location: Skybridge (hotel, 2nd floor)
Spouse Hospitality Suite open (see page 50)
Location: Press Club (hotel, 2nd floor)

8:00 AM – 12:15 PM
GENERAL SESSION

Our Oath in Practice (see page 52)
Location: Dallas AB (conf center, 1st floor)

Howard Dunne Memorial Lecture: Dr Daryl Olsen
“The pig always wins”

Alex Hogg Memorial Lecture: Dr Mark Engle
“The PED challenge: Application of our veterinary oath to represent the interest of the pig”

9:00 AM – 5:00 PM
COMMERCIAL TECHNICAL TABLES (see page 8)
Location: Grand Hall (conf center, 1st floor)

12:15 PM
LUNCHEON
Sponsored by BOEHRINGER INGELHEIM VETMEDICA, INC
Location: Dallas CD (conf center, 1st floor)

2:00 – 5:30 PM
CONCURRENT SESSIONS

#1 PRRS and SIV (see page 53)
Location: Dallas AB (conf center, 1st floor)

#2 Mycoplasma and Enteric Management (see page 54)
Location: San Antonio AB (conf center, 3rd floor)

#3 Animal Welfare (see page 55)
Location: Houston AB (conf center, 3rd floor)

6:30 PM – 8:30 PM
AASV AWARDS RECEPTION
Sponsored by ELANCO ANIMAL HEALTH
Location: Dallas CD (conf center, 1st floor)

AASV FOUNDATION AUCTION (see page 51)
Location: Grand Hall (conf center, 1st floor)
Tuesday, March 4

7:00 AM
Registration Desk open
Location: Skybridge (hotel, 2nd floor)

BREAKFAST and AASV ANNUAL BUSINESS MEETING
Location: Dallas C (conf center, 1st floor)

8:00 AM
GENERAL SESSION
Loos Tales and Loose Stools (see page 56)
Location: Dallas AB (conf center, 1st floor)

8:00 AM – 12:00 PM
COMMERCIAL TECHNICAL TABLES (see page 8)
Location: Grand Hall (conf center, 1st floor)

12:00 PM
MEETING CONCLUDES

1:00 PM
AASV BOARD OF DIRECTORS MEETING
Location: Press Club (hotel, 2nd floor)

Thank you to ALL of the companies, organizations, and members who support the AASV in so many ways throughout the year!

The contributions of time, money, and resources are vital to the AASV’s efforts to provide high quality educational programming at a reasonable cost to AASV members.
Plan now to attend the
AASV 46th Annual Meeting
February 28 - March 3, 2015
Buena Vista Palace Hotel & Spa
ORLANDO, FL

We extend our sincere appreciation to the following sponsors of AASV annual meeting activities:

BOEHRINGER INGELHEIM VETMEDICA, INC
AASV Luncheon
Veterinary Student Poster Awards

ELANCO ANIMAL HEALTH
AASV Awards Reception
AASV Foundation Veterinary Student Scholarships

GLOBALVETLINK
Internet Kiosk

MERCK ANIMAL HEALTH
Student Reception

NEWPORT LABORATORIES and the AASV FOUNDATION
Veterinary Student Travel Stipends

STUART PRODUCTS
Praise Breakfast

ZOETIS
Welcome Reception
AASV Student Seminar
AASV Student Poster Session
AASV Foundation Veterinary Student Scholarship

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