

A person wearing a blue medical coat with a yellow caduceus symbol on the pocket is gently holding a small, white piglet. The piglet has large, upright ears and a pink snout. The background is dark, making the piglet and the person's hands stand out.

Our Oath in Practice

AASV

45th Annual
Meeting

March 1-4, 2014
Dallas, Texas

Message from the Program Chair, Dr Michelle Sprague



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?

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.

"Many times in my career, I have found myself saying, 'I took an oath to do what is right for the pig.'"

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.

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!

"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."

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



Program Committee

Michelle Sprague, Chair

Matt Anderson

Ron Brodersen

Shamus Brown

Scott Dee

Tara Donovan

Megan Inskeep

Jason Kelly

Sherrie Niekamp

Ginger Pelger

Alex Ramirez

David Reeves

Joseph Rudolphi

Kent Schwartz

Lisa Tokach

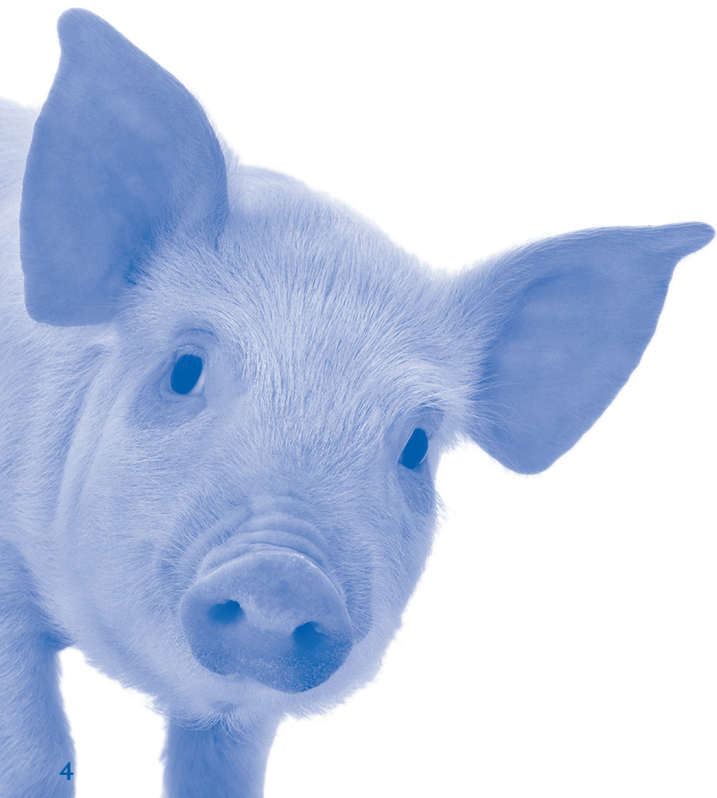
Blaine Tully

Matthew Turner

Amy Vincent

Liz Wagstrom

Paul Yeske



Registration & Fees

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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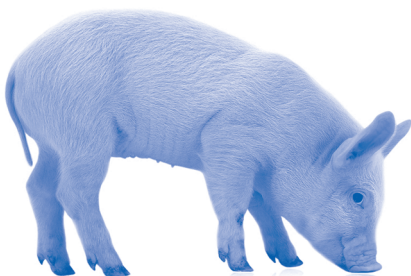
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Technical Tables

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

Monday: 9:00 AM – 5:00 PM

Tuesday: 8:00 AM – 12:00 PM

Academy of Rural Veterinarians

Agrosoft

Allflex USA/Deatron Fearing

Alltech

Animal Health International

APC

ARKO Laboratories

Aurora Pharmaceutical

Automated Production Systems

AVMA PLIT

Bayer Animal Health

BioChek

Biomin USA

Boehringer Ingelheim Vetmedica

Choice Genetics

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DNA Genetics

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EPI Air

Genesis Genetics

GlobalVetLINK

Harrisvaccines

Hermitage NGT

Hog Slat

Huvepharma

Hydro Systems Company

IDEXX

IMV Technologies USA

Insight Wealth Group

ITL Animal Healthcare

IVESCO

JBS United Animal Health

King Techina

Technical Tables

Life Technologies
LiveLeaf
MAI Animal Health
Merck Animal Health
Merial
Minitube of America
MJ Biologics
MVP Laboratories
MWI Veterinary Supply
National Hog Farmer/Feedstuffs
National Pork Board
National Pork Producers Council
Nedap Livestock Management
Neogen Corporation
Newport Laboratories
Norbrook
Norsvin USA
Novartis Animal Health
Novus International
Pharmacosmos
Pharmgate Animal Health
Phibro Animal Health
PIC
PigCHAMP
PigKnows
Preserve International
Prima Tech USA
PureTek Genetics
Purina Animal Nutrition
Ralco Animal Health
ReproQuest
Ro-Main
Stuart Products
Struve Labs International
Swine Medicine Education Center
TechMix
Tetracore
TOPIGS USA
USDA APHIS Veterinary Services
Zinpro Performance Minerals
Zoetis

Risk Assessment Training

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.

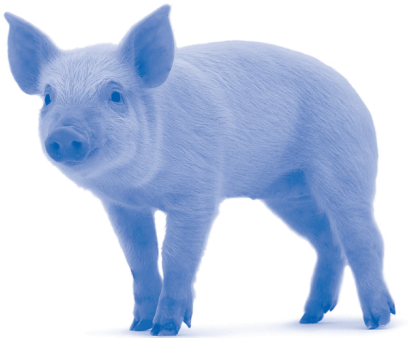
Three ways veterinarians have applied the PRRS Risk Assessment:

- 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

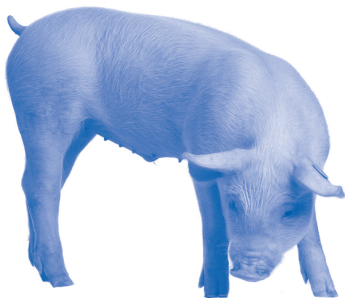
Seminar chair: Jay Miller

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!

- 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



Seminar 2

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

Seminar 3

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 Pivot-Table 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.

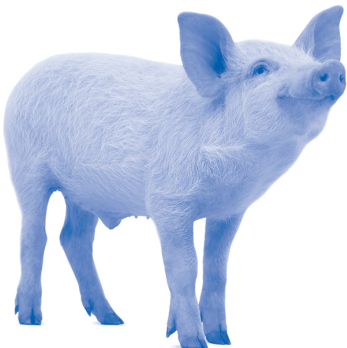
Participants will need their own laptop computer with Microsoft Excel installed to take advantage of the hands-on section of the seminar. The hands-on portion will last 1 hour. Although participants can still learn simply by observing the activity, hands-on experience will maximize the learning and retention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



Seminar 4

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 physiology 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 Ketchem
- 4:30** Panel discussion
All speakers
- 5:00** Seminar concludes

Seminar 5

Avoiding Black Helicopters

Date: Saturday, March 1

Time: 1:00 – 5:00 PM

Location: Remington (hotel, 4th floor)

Fee: \$95

Seminar chair: Liz Wagstrom

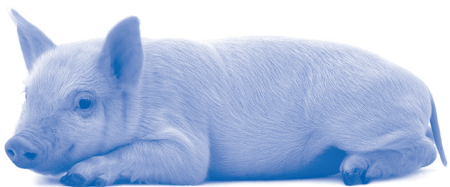
Using pharmaceuticals correctly is essential to animal health. Regulatory and customer requirements are changing, and veterinarians and their clients need to be able to protect animal health while documenting compliance with these requirements. This seminar will utilize a case study on penicillin residues 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

Seminar 5

- 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

Co-sponsored by AASV and the National Pork Board

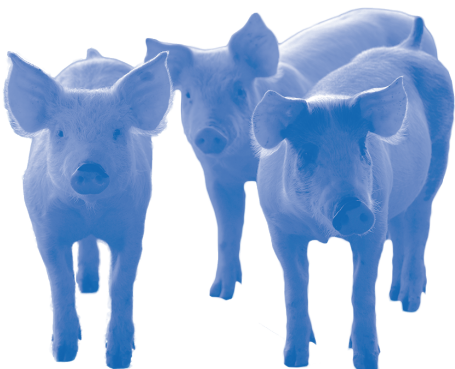
In 2011, AASV and the National Pork Board partnered to train veterinarians as Operation Main Street speakers with a goal to schedule a speaker in all 28 schools of veterinary medicine. To date, trained veterinarians have presented at 24 of 28 schools, reaching 5000 students through this program.

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**.

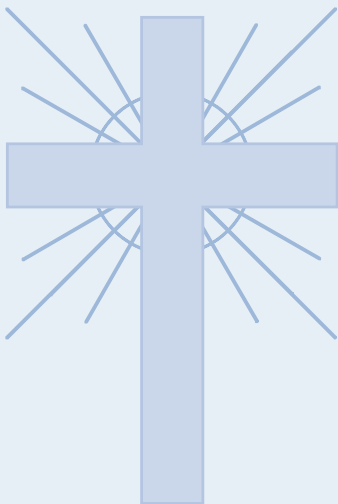
- 1:00** Welcome, overview, and introductions
- 1:15** Antibiotic update
Jennifer Koeman
- 1:40** A presentation for schools of veterinary medicine
Gene Nemecek
- 2:40** Industry structure; Social license
- 3:00** BREAK; Biography photos
- 3:15** Values-based communications (Center for Food Integrity 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



PRAISE BREAKFAST



Sunday, March 2
7:00 – 8:00 AM

Location: Atrium
(hotel, 2nd floor)

Coordinators:
Monte Fuhrman
and Tom Wetzell

Sponsored by Stuart Laboratories

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!***

Seminar 7

Pathogen Transmission: From Around the World to Your Backyard!

Date: Sunday, March 2

Time: 8:00 AM – 12:00 PM

Location: San Antonio AB (conf center, 3rd floor)

Fee: \$95

Seminar chair: Megan Inskip

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

Seminar 8

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

Seminar 9

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

Seminar 10

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

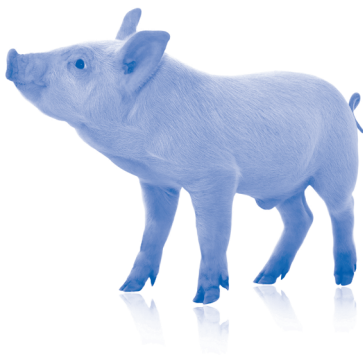
This seminar has the goal of providing students with supplementary information for their course curricula at school. This year we will provide information on the economics of raising pigs, an important aspect to consider when providing veterinary care for a farm or system. We will also provide a series 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

Seminar 10

- 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

Research Topics

Date: Sunday, March 2

Time: 8:00 AM – 12:00 PM

Location: Houston C (conf center, 3rd floor)

Session chair: Chris Rademacher

- 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 FosterTM 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

Sunday Session #1

- 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

STUDENT RECEPTION

Sponsored by:
MERCK ANIMAL HEALTH

Sunday, March 2
8:30 – 11:00 PM

Austin Ballroom (hotel, 2nd floor)



Sunday Session #2

Industrial Partners

Date: Sunday, March 2

Time: 1:00 – 4:45 PM

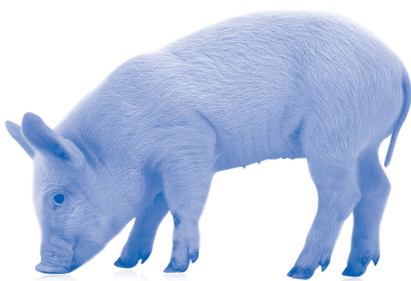
Location: Houston C (conf center, 3rd floor)

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* Choleraesuis 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

- 1:00** Effect of an organic acid blend on performance of nursery pigs fed diets with and without antibiotics
Betsy Newton
AKEY, 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 Verstegen
MINITUBE OF AMERICA
- 2:15** Nursery, finishing and wean-to-finish performance data benchmarking
Tom Stein
METAFARMS
- 2:30** A novel *Mycoplasma hyopneumoniae* ELISA, specially designed for high specificity
Eric van Esch
BIOCHEK
- 2:45** BREAK

Sunday Session #3

- 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

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

- 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

Sunday Session #4

- 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



Poster Session

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 Glowzinski, 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

Poster Session

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

Poster Session

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

Poster Session

Veterinary Student Posters

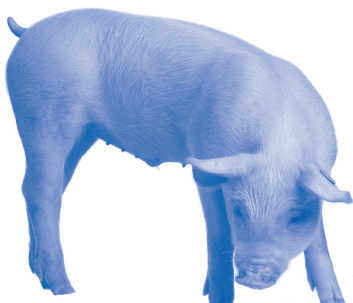
27. Value of health and production performance improvement resulting from the treatment of sows exhibiting post-farrowing vaginal discharge
Brittney McLamb, North Carolina State University
28. Assessment of sample methods for detecting and estimating prevalence of *Lawsonia intracellularis*, *Brachyspira 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

Poster Session

Veterinary Student Posters

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

Poster Session

Research Topics Posters

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

Poster Session

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 bocaviruses (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

Poster Session

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

Poster Session

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

INTERNET KIOSK

Sponsored by **GLOBALVETLINK**



Located near Skybridge
(hotel, 2nd floor)

Poster Session

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

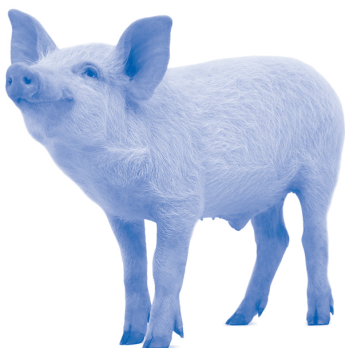
9:00 AM – 5:00 PM

- 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

Poster Session

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
METAFARMS
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!



AASV Foundation Auction



Monday, March 3

Dallas AB (conf center, 1st floor)

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

Monday General Session

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

- 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

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

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

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)

Monday Session #3

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

Tuesday General Session

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)

Speakers

Grant Allison	Walcott, IA
Carmen Alonso	St Paul, MN
Mike Apley	Manhattan, KS
Paulo Arruda	Ames, IA
Butch Baker	Ames, IA
Sarah Balik	Ames, IA
Joshua Barker	Cheyenne, WY
Jessica Bates	Ames, IA
Tammy Beckham	College Station, TX
Chad Bierman	Rochester, MN
Leslie Bower	Ames, IA
Andrew Bowman	Columbus, OH
Daniel Boykin	Raleigh, NC
Cody Branstad	Ames, IA
Egan Brockhoff	Red Deer, AB
Corrie Brown	Athens, GA
Courtney Brumbaugh	West Lafayette, IN
Mike Brumm	North Mankato, MN
Laura Bruner	Belle Plaine, MN
Alexandra Buckley	Lansing, MI
Angela Burrell	Austin, TX
Eric Burrough	Ames, IA
Antonio Callen Mora	Barcelona, Spain
Jean Paul Cano	Minneapolis, MN
Laura Carroll	Cary, NC
Brad Chappell	Steinbach, MB
Dyneah Classen	Carthage, IL
Maria Clavijo	St Paul, MN
John Clifford	Washington, DC
Hans Coetzee	Ames, IA
Larry Coleman	Broken Bow, NE
Joe Connor	Carthage, IL
Laurie Connor	Winnipeg, MB
Matthew Cook	Philadelphia, PA
Macarena Cortez-Jara	Chillan, Chile
Bobby Cowles	Ridgefield, WA
Kimberly Crawford	Ames, IA
Colleen Crozier	Raleigh, NC
Marie Culhane	St Paul, MN
Amy Daniels	Savoy, IL
Scanlon Daniels	Dalhart, TX
Deanne Day	Ames, IA
Scott Dee	Pipestone, MN
Steven Devine	Riverdale, NJ
Andres Diaz	St Paul, MN
Kate Dion	Spring Green, WI
Dennis DiPietre	Columbia, MO
Brandon Dominguez	College Station, TX

Speakers

Luke Duckworth	College Station, TX
Luc Dufresne	Shawnee Mission, KS
Jenelle Dunkelberger	Ames, IA
Marc Eichmeyer	Bondurant, IA
Al Eidson	Kansas City, MO
Mike Eisenmenger	Windom, MN
Mark Engle	Hendersonville, TN
Jon Ertl	St Paul, MN
Emilio Esteban	Athens, GA
Jon Ferrel	Frankfort, IN
Will Fombelle	Atwood, IL
Timothy Frana	Ames, IA
Charles Francisco	Sheridan, IN
Daniel Fredrickson	Kalamazoo, MI
Noel Garbes	Sycamore, IL
Marissa Garry	St Paul, MN
Phil Gauger	Ames, IA
Jer Geiger	Shanghai, China
Luis Giménez	Ames, IA
Lauren Glowzenski	Philadelphia, PA
Dane Goede	Minneapolis, MN
Christa Goodell	Westbrook, ME
Doug Groth	Carthage, IL
Dwain Guggenbiller	Columbus, OH
Abby Harding	Collinsville, IL
Kevin Harriger	Washington, DC
Erin Harris	St Paul, MN
Hank Harris	Ames, IA
Joel Harris	Ames, IA
Marc Henninger	Neuilly Sur Seine, France
Melissa Hensch	Ankeny, IA
Andrew Hess	Ames, IA
Dick Hesse	Manhattan, KS
Alexander Hintz	Madison, WI
Jason Hocker	Audubon, IA
Bill Hollis	Carthage, IL
Whitney Holt	Ames, IA
Derald Holtkamp	Ames, IA
Sara Hough	Clinton, NC
Megan Inskeep	Rensselaer, IN
Micah Jansen	Wheeler, IL
Anna Johnson	Ames, IA
Clayton Johnson	Carlyle, IL
Jessica Johnson	Stacy, MN
Levi Johnson	Ames, IA
Troy Kaiser	St Joseph, MO
Jason Kelly	Algona, IA
Ron Ketchem	Fremont, NE

Speakers

Doug King	Otley, IA
Rob Knox	Urbana, IL
Kayce Kobs	Ames, IA
Jennifer Koeman	Clive, IA
Rachel Korty	Lafayette, IN
Scott Kramer	Okemos, MI
Andrew Kryzer	St Paul, MN
Justin Kuecker	Ames, IA
Pete Lasley	Trenton, MO
Carrie Lee	St Paul, MN
Jamie Lehman	Sullivan, IL
Valérie Létourneau	Quebec, QC
Boh Chang Lin	Omaha, NE
Trent Loos	Loup City, NE
Jim Lowe	Albers, IL
Aaron Lower	White Heath, IL
Lonnie Luther	Damascus, MD
Douglas MacDougald	Stratford, ON
Nubia Macedo	St Paul, MN
Darin Madson	Maxwell, IA
Drew Magstadt	Ames, IA
Christine Mainquist	Ames, IA
Brigitte Mason	Savoy, IL
Barbara Masters	Washington, DC
Brittney McLamb	Raleigh, NC
Dan McManus	Dakota Dunes, SD
Marnie Mellencamp	St Joseph, MO
Julie Ménard	Ange Gardien, QC
Daniel Meyer	Ames, IA
Daren Miller	Westfield, IN
Mark Mogler	Ames, IA
Bob Morrison	St Paul, MN
Sally Moseley	Elgin, IL
Chris Mowrer	Madrid, IA
Deborah Murray	Jackson, MN
Megan Murray	Philadelphia, PA
Michael Murtaugh	St Paul, MN
David Nash	Gallatin, TN
Victor Neira-Ramirez	Santiago, Chile
Gene Nemechek	Wilson, NC
Joel Nerem	Pipestone, MN
Betsy Newton	Brookville, OH
Predrag Novakovic	Saskatoon, SK
Brett O'Brien	Mankato, MN
Annette O'Connor	Ames, IA
Chad O'Connor	Urbana, IL
Carissa Odland	Pipestone, MN
Chris Olsen	Johnston, IA

Speakers

Daryl Olsen	Audubon, IA
Tanja Opriessnig	Ames, IA
Yaowalak Panyasing	Ames, IA
Colleen Parr Dekker	Greenfield, IN
Marianne Parent	Montague, PE
Abby Patterson	Story City, IA
Gil Patterson	St Peter, MN
Lynn Pavlovic	Philadelphia, PA
Ginger Pelger	Greenfield, IN
Brent Pepin	Ames, IA
Kelly Pertzborn	Ames, IA
Brianna Peters	Knoxville, TN
Maria Pieters	St Paul, MN
Carlos Piñeiro	Segovia, Spain
Juan Carlos Pinilla	Hendersonville, TN
Jeremy Pittman	Wakefield, VA
Dale Polson	Ankeny, IA
Megan Potter	Abilene, KS
Todd Price	Sycamore, OH
Sarah Probst Miller	Monticello, IL
Scott Radke	Ames, IA
Daniela Rajao	Ames, IA
Alex Ramirez	Ames, IA
Vicki Rapp-Gabrielson	Kalamazoo, MI
Caleb Robb	Ames, IA
Rebecca Robbins	Guymon, OK
Jose Rojas	Taylor, AZ
Mark Roozen	Deurne, The Netherlands
Dan Rosener	Creston, IA
Kurt Rossow	St Paul, MN
Craig Rowles	Carroll, IA
Joe Rudolphi	Noble, IL
Anna Samson	Fort Collins, CO
Giuseppe Sarli	Bologna, Italy
John Schiltz	Ames, IA
Conrad Schmidt	Worthington, MN
Cameron Schmitt	Independence, IA
Pete Schneider	Waterloo, IA
Megan Schnur	West Lafayette, IN
Jeff Schoening	Pocahontas, IA
Jake Schwartz	Sleepy Eye, MN
Lauren Scruggs	Auburn, AL
Channing Sebo	Ames, IA
Nick Serao	Ames, IA
Rohan Shah	Austin, TX
Christopher Sievers	Ames, IA
Chad Smith	Goldsboro, NC
Joel Sparks	Ames, IA

Speakers

Ethan Spronk	St Paul, MN
Mike Spurlock	Ames, IA
Kenneth Stalder	Ames, IA
Scott Stehlik	Ames, IA
Tom Stein	Burnsville, MN
Greg Stevenson	Ames, IA
Elizabeth Stiles	Philadelphia, PA
Douglas Stine	Overland Park, KS
Ryan Strobel	Maple Grove, MN
Rexanne Struve	Manning, IA
Rob Stuart	Bedford, TX
Paul Sundberg	Ames, IA
Angie Supple	Hopkinton, IA
Richard Swalla	Ames, IA
Christine Szablewski	Hilliard, OH
Tyler Te Grotenhuis	Ames, IA
Ryan Tenbergen	Guelph, ON
Brad Thacker	Columbia, MD
Paul Thomas	Audubon, IA
Pete Thomas	Boone, IA
Robert Thompson	Franklin, KY
Montse Torremorell	St Paul, MN
Steve Tousignant	St Paul, MN
Blaine Tully	Winnipeg, MB
Matthew Turner	Clinton, NC
Lily Urizar	Quebec, QC
Eric van Esch	Reeuwijk, The Netherlands
Frédéric Vangroenweghe	Torhout, Belgium
Steven Vaughn	Rockville, MD
John Versteegen	Verona, WI
Thaïs Vila	Lyon, France
Amy Vincent	Nevada, IA
Christian von der Recke	Watchung, NJ
Shannon Walsh	Guelph, ON
Mark Weaver	West Des Moines, IA
Stephen Webel	Sheridan, IN
Katharine Wedel	St Paul, MN
Dirk Werling	Hatfield, UK
Benjamin Wier	St Paul, MN
Nathan Winkelman	Rice, MN
Amy Woods	Remington, IN
Christina Yamazaki	San Diego, CA
Paul Yeske	St Peter, MN
Lisa Yeske-Livermore	Madrid, IA
Chad Yoder	Francesville, IN
Kyoung-Jin Yoon	Ames, IA
Jianqiang Zhang	Ames, IA
Kathy Zurbrigg	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)

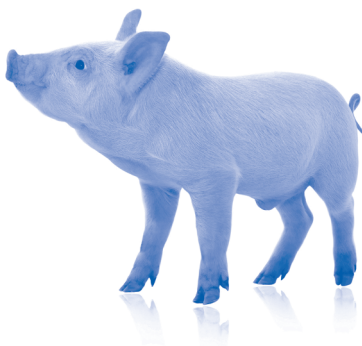
Location: Austin 2 (hotel, 2nd floor)

#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!

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**



2016	New Orleans	Feb 27 -Mar 1
2017	Denver	Feb 25 - 28
2018	San Diego	Mar 3 - 6

Thank you!

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Welcome Reception
AASV Student Seminar
AASV Student Poster Session
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