Plan now to attend the AASV 45TH Annual Meeting
March 1-4, 2014
Sheraton Dallas Hotel
DALLAS, TEXAS

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.

2015 Orlando Feb 28-Mar 3
2016 New Orleans Feb 27-Mar 1
2017 Denver Feb 25-28
Every year I leave our conference inspired by our members and re-grounded in my professional purpose. Feeling like I should be doing a little more for our clients and my profession. That experience has given rise to this year’s conference title, “Purpose Inspired Practice.” It is my hope that you will find something at this year’s conference that will inspire you in your practice life.

Over the course of veterinary history our professional purpose has changed many times. Is it doing so now? It is my hope that you will find something at this year’s meeting that inspires you to think about that a little. What is the veterinarian's role? How do we best serve our clients? How do we best serve the public interest? After all, we have taken an oath to do so.

In this year’s program we have a great combination of AASV experience and outside input. Dr Craig Rowles will deliver the Howard Dunne lecture. Dr Rowles has played a number of roles in his veterinary career—from mixed animal practitioner to production management. Throughout his practice life he has always served our organization quietly and effectively. Dr Rowles will bring a wealth of experience and insight to the Dunne lecture. Don’t miss it.

Dr John Waddell is this year’s Alex Hogg lecturer. Dr Waddell has served our organization in a leadership role and on countless committees. I don’t know anyone who has had a greater influence on our organization through the mentorship of future veterinarians.

Welcome back to beautiful San Diego. And welcome home.

I have never been to one of our annual meetings when it didn’t feel like coming back home after an extended absence. I believe that speaks to the very nature of our organization and its members – Friendship, Fellowship, Mentorship. What a wonderful group to be part of.

“Over the course of veterinary history our professional purpose has changed many times.”
Every once in a while something comes out of left field and has a profound effect on an industry. Think Pink Slime. Think gestation stalls. Black swans? Maybe. Dr Guy Loneragan will talk to us on Tuesday morning about his insight on such events. Don’t miss it – this will definitely be worth staying for.

These great speakers, across a plethora of sessions and preconference seminars, will be complemented by talks on disease, diagnostics, business management, animal welfare, practice tips, antibiotic resistance, public health, business continuity in the face of an industry-changing event, and a host of other topics. There is something for everyone and I think you’ll find something at this conference of value to you in your practice.

I would like to thank the program committee for working so diligently to put this conference together for you. They have been a great group of folks to work with and they have been personal friends and mentors of mine over the years. Be sure to thank them for their hard work.

Again, welcome. Enjoy the conference.

~ Matt Anderson, DVM
Program Committee

Matt Anderson, Chair

Scanlon Daniels  Chris Rademacher
Scott Dee  Paul Ruen
Tara Donovan  Kent Schwartz
Doug Groth  Michelle Sprague
Jeff Harker  Montserrat Torremorell
Thayer Hoover  Jess Waddell
Clayton Johnson  John Waddell
Randy Jones  Paul Yeske
Jason Kelly  Jeff Zimmerman
Jay Miller
Registration

Registration desk located in the Litrenta Foyer (2nd level)

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

Fees

Register online at www.aasv.org/annmtg

AASV member pre-registration $335
AASV member registration after Feb. 8 $370
Non-member veterinarian registration $455
Add’l Tech Table representatives (limit 3) $455

Meeting Hotel

Manchester Grand Hyatt San Diego
One Market Place
San Diego, CA 92101
Reservations: 888-421-1442
Tel: 619-232-1234

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 additional (4) credit hours are available for the PRRS Risk Assessment Training and each pre-conference seminar attended.

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

President
Dr Tara Donovan
The Hanor Company
E 4614 US Hwy 14 and 60
Spring Green, WI 53588
Tel: 608-588-9170 Ext 9627
tdonovan@hanorusa.com

President-Elect
Dr Matt Anderson
Suidae Health & Production
2200 Hwy 18 E
PO Box 598
Algona, IA 50511
Tel: 515-295-8777
matt_anderson@suidaehp.com

Vice President
Dr Michelle Sprague
608 Chicago Street
Audubon, IA 50025
Tel: 712-563-2080
msprague@amvcms.com

Past President
Dr Randy Jones
Livestock Veterinary Services
3501 Lakeview Trail
Kinston, NC 28504
Tel: 252-527-4960
rjones@livestockvet.com
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Frankfort, IN 46041
USA

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USA

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Villa De Guadalupe 234
Villas Del Campestre
Leon, GTO 37129
MEXICO

District 11
Dr George Charbonneau
225 Oak Street
Stratford, ON N5A 8A1
CANADA

Student Delegate
Joshua Duff
603 N East Street
Raleigh, NC 27604
USA
Location: Manchester GHI (2nd level)
Monday 9:00 AM – 5:00 PM
Tuesday 8:00 AM – 12:00 PM

Academy of Rural Veterinarians
ADM Specialty Ingredients
AgCreate Solutions
Allflex USA/Destron Fearing
Alltech
Animal Health International
APC
ARKO Laboratories
Aurora Pharmaceutical
Automated Production Systems
AVMA PLIT
Baumgartner Environics, Inc (BEI)
Bayer Animal Health
Best Veterinary Solutions
BioChek
Biomin USA
Boehringer Ingelheim
CHR Hansen
Christian Veterinary Mission
CLARCOR Air Filtration Products
Continental Plastic Corp
Danbred North America
Elanco
Feedstuffs
Genesis Instruments
Genesys
Genetiporc USA
GlobalVetLINK
Harrisvaccines
Hermitage NGT
Hog Slat
Huvepharma
IDEXX
IMV Technologies
Insight Wealth Group
IVESCO
JBS United Animal Health
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MVP Laboratories
MWI Veterinary Supply
National Hog Farmer
National Pork Board
National Pork Producers Council
Nedap Agri North America
Neogen
NewField Technologies
Newport Laboratories
Newsham Choice Genetics
Norbrook
Norsvin USA
Novartis Animal Health US
Pfizer Animal Health
Pharmacosmos
Pharmgate Animal Health
Phibro Animal Health
PIC
PigCHAMP
Preserve International
Prima Tech USA
PureTek Genetics
Ralco Animal Health
ReproQuest
Stuart Products
Struve Labs International
TechMix
Tetracore
TOPIGS USA
Tri-M AI
USDA APHIS Veterinary Services
Zinpro Performance Minerals
Web-based PRRS Risk Assessment Training for the Breeding Herd

**Date:** Saturday, March 2  
**Time:** 7:30 AM – 12:30 PM  
**Location:** Windsor BC (3rd level)  
**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 with MS Windows 2000, XP, Vista, or Windows 7 capable of accessing the internet via wireless connection.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Welcome and introductions (note the early start time!)</td>
<td>Derald Holtkamp</td>
</tr>
<tr>
<td>7:45</td>
<td>Application of PRRS Risk Assessment</td>
<td>Egan Brockhoff</td>
</tr>
<tr>
<td>8:00</td>
<td>Overview of PRRS Risk Assessment</td>
<td>Dale Polson</td>
</tr>
<tr>
<td>8:45</td>
<td>“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</td>
<td>Chris Mowrer</td>
</tr>
<tr>
<td>9:45</td>
<td>BREAK</td>
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<tr>
<td>10:00</td>
<td>Hands-on use of the risk assessment; User interview</td>
<td>Dale Polson</td>
</tr>
<tr>
<td>12:00</td>
<td>Demonstration of pareto chart and the database and benchmarking tool for risk assessment data, exporting raw data: Interpreting results</td>
<td>Derald Holtkamp</td>
</tr>
<tr>
<td>12:30</td>
<td>Training concludes</td>
<td></td>
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</tbody>
</table>
Purpose-Inspired Practice Tips will once again be an exciting, interactive, ideas-sharing session. There will be ten veterinarians competing for the big dollars for the practice tip with the “most impact” to our industry. The expert judges will be given the task to pick the practice tip with the most benefit to the practitioner and/or the producer. The session is sure to be loaded with everyday useful information to benefit the “boots-in-the-barn” veterinarian. Please come join our session as there will NOT be proceedings for all of the wonderful information presented.

1:00 Collecting diagnostics on the fly
Kelly Greiner

1:20 Dissecting lameness
Jason Verbeck

1:40 Finding a needle in a hog stack
Lori Feldmann

2:00 Put the cart before the pig
Melissa Farber Billing

2:20 Periorbital blood draw from pre-wean pigs
Monte W. Fuhrman

2:40 The first year practice lesson
Adam Schelkopf

3:00 BREAK

3:30 Potpourri of practical ideas for pig vets
Jeff Harker

3:50 7 traits of a highly successful swine vet
Scott Stehlik
Seminar 1

4:10  Chasing lame finishing pigs
      Jerry Torrison

4:30  Unexpected results – unexpected reason
      Bill DuBois

5:00  Seminar concludes
It’s Not All Bugs and Drugs

Date: Saturday, March 2
Time: 1:00 – 5:00 PM
Location: Manchester B (2nd level)
Fee: $95
Seminar co-chairs: Randy Jones and Rodger Main

Not all clinical disease that practitioners encounter on a daily basis is due to infectious agents. Numerous production inputs, stressors, and toxins can cause “disease.” Determining an accurate diagnosis on these, often multifaceted, cases can be challenging and require the use of diagnostic tools and methodologies that go beyond the traditional “test and report.” This seminar is designed to give practitioners the tools and knowledge needed to work up these atypical cases, and to present and discuss some recent cases as examples.

1:00  On-farm troubleshooting of non-infectious causes of “disease”  
      Scanlon Daniels

1:30  Diarrhea got you on the run?  
      Marlin Hoogland

2:00  Weather’s influence on grain quality; what does it mean to the pig?  
      Steve Ensley

2:30  Top 5 case-based examples of intoxications and deficiencies seen at the VDL  
      Steve Ensley

3:00  BREAK

3:30  Tools, methods, and samples needed for “complete” diagnostic workup  
      Darin Madson

4:00  “You make the call” rapid-fire case-based review  
      Phil Gauger and Eric Burrough

5:00  Seminar concludes
Boar Stud Technology and Lameness Challenges in the Sow Herd

Date: Saturday, March 2
Time: 1:00 – 5:00 PM
Location: Manchester C (2nd level)
Fee: $95
Seminar chair: Doug Groth

As we have seen this past year, boar studs have a large impact on the industry. This seminar will cover updates on testing procedures and new technologies affecting the stud. Speakers will also cover bacterial contamination in semen and PCAI impact at the stud and in the sow herd. The last section will cover lameness in group and individual housing, and mineral source effect on sow lameness.

1:00  Testing procedures in the stud  
      Darwin Reicks

1:30  Bugs in semen; what are the options?  
      Gary Althouse

2:15  Emerging sow reproductive technologies  
      Chris Kuster

2:45  BREAK

3:00  Sexed semen technology update  
      Duane L. Garner

3:45  PCAI impact at the stud and training in the sow herd  
      Tom Petznick

4:25  Sow lameness comparison in group and individual housing and mineral source effect on sow lameness  
      Laura Greiner

4:55  Seminar summary

5:00  Seminar concludes
Seminar 4

Turning Data into Knowledge

Date: Saturday, March 2  
Time: 1:00 – 5:00 PM  
Location: America’s Cup AB (4th level)  
Fee: $95  
Seminar chair: Thayer Hoover

The objective of this seminar is to provide practical information allowing for critical appraisal and validity of data presented from field and institutional studies to determine if the conclusions drawn from those data are supported by a valid study design. The seminar will provide practical, “real world” examples of data interpretation that can be used to make decisions supporting an intervention strategy.

1:00 Welcome and introduction  
Thayer Hoover

1:05 Quantifying factors associated with disease  
Randall Singer

2:00 Getting the correct data takes planning  
Mike Brumm

2:45 BREAK

3:00 Background for case studies, odds ratios, NNT and other parameters, and their application for improving evidence-based decisions  
Alex Ramirez

3:40 Useful spreadsheet design incorporating data collected from field studies  
Matt Ackerman

4:20 Am I really getting what the trial results got? Detecting ongoing operational impact after the trial is done and the change has been implemented  
Dale Polson

5:00 Wrap up: One key take-home from each presentation  
Thayer Hoover

5:05 Seminar concludes
The objectives of this seminar are 1) to educate and inform swine veterinarians on the process and mechanics of generating a PRRSv ORF5 sequence, and what they and the diagnostic laboratories do/can do to maximize sequence success rate, accuracy and the leverage of sequence information to support more effective and more “real-time” decision-making for their clients and communication/coordination in the PRRS area-regional control projects that they participate in, and 2) to educate and inform swine veterinarians on some relatively new and currently less familiar sequence analytic tools they can utilize with their clients, practices, and within/among area-regional control and elimination projects.

1:00  Introduction  
Amber Stricker

1:10  What would a sustainable sampling plan for sequencing look like?  
Derald Holtkamp and Dale Polson

2:00  What can a practitioner do to improve PRRSV ORF-5 sequencing success rates?  
Rodger Main and Jeff Zimmerman

2:25  What does the diagnostic laboratory do to maximize sequencing success rates?  
Travis Clement and Jane Christopher-Hennings

2:50  BREAK

3:10  Variation in PRRS ORF5 sequencing within and among state diagnostic laboratories  
Amber Stricker
3:35  The mechanics and process of sequencing from sample to data to dendogram: What’s inside the “black box”?  
Michael Murtaugh

4:00  Sequence analytics: Getting more from sequence information than just a dendogram and homology table  
Barbara Brito and Jean Paul Cano

4:50  Summary  
Amber Stricker

5:00  Seminar concludes
Step outside the hotel and stretch your legs on this fun 5K run/walk arranged especially for AASV! Participants check in at 6:30 AM on the boardwalk behind the Grand Hyatt. The race starts at 7:00 AM (sharp) and loops around on the sidewalks through South Embarcadero Park.

Pick your own speed and distance. Once around the course is 2.5K; twice around is 5K. No matter how fast or how far, you’ll enjoy the exercise in the fresh seaside air and the competition and company of fellow meeting attendees.

All AASV meeting attendees and their families are welcome to participate. Registration includes your race bib, course map, and insurance, in addition to professional oversight of the race. All proceeds benefit the AASV Foundation.

Sorry, no race-day entries.

Please register when you submit your meeting registration!
Sunday, March 3
7:00 – 8:00 AM

Location: Manchester E
Coordinators:
Dave Smidt and
Monte Fuhrman

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 worship and fellowship at the AASV Praise Breakfast!

Join in musical worship led by members of the AASV praise band: Drs Jane Christopher-Hennings, Monte Fuhrman, Harold Tilstra, Keith Wilson and Tom Wetzell. This year we will enjoy hearing a meditation from one of our own, Dr Jane Christopher-Hennings.

Your free-will offering will defray the cost of the breakfast. The devotion will conclude by 8:00 AM to allow you to attend the meeting sessions, but feel free to stay and visit if you wish.

All AASV meeting attendees and their family members are welcome!
Feeding Group-Housed Sows and the Growing Herd Efficiently

Date: Sunday, March 3
Time: 8:00 AM – 12:00 PM
Location: Manchester AB (2nd level)
Fee: $95
Seminar chair: Bill Starke

Are you providing your clients or employer with the most current nutrition and feeding management recommendations? The speakers in this seminar will share their first-hand experiences along with practical and implementable information.

The seminar will delve into viable options for feeding and managing sows in group housing, including past experiences and future opportunities for improving sow welfare and performance. The seminar will also provide strategies for managing nutrition of the growing herd in this era of record high feed costs. Speakers will focus on efficiently managing the interactions of feeding non-traditional ingredients and non-traditional rations on grow/finish productivity.

8:00 Alternatives for feeding sows in group housing
Tom Parsons

8:50 Real-world experiences feeding sows in retrofitted gestation barns
Donald Davidson

9:30 BREAK
Sponsored by HARRISVACCINES

9:50 Formulating diets for sows in group housing: What should be considered?
Betsy Newton

10:15 Impacts of nontraditional ingredients and diets on pig health and performance
Ruurd T. Zijlstra

11:05 Review of everyday nutrition decisions and interventions affecting feed conversion, feed costs, and pig performance
Joel DeRouchey

12:00 Seminar concludes
Seminar 7

Business Management

Date: Sunday, March 3  
Time: 8:00 AM – 12:00 PM  
Location: Elizabeth H (2nd level)  
Fee: $95  
Seminar chair: Scanlon Daniels

8:00  Managing generational expectations  
Larry Firkins

8:30  Effective hiring practices  
Eric Spell

9:10  Structuring compensation  
Rod Johnson

9:45  BREAK  
Sponsored by HARRISVACCINES

10:00  Applying metrics to food animal practice  
Randy Bush

10:40  Developing profit centers within a practice  
Tim Loula

11:20  Succession planning  
Wayne Freese

12:00  Seminar concludes
Seminar 8

How to Use Diagnostic Information in the Field

Date: Sunday, March 3
Time: 8:00 AM – 12:00 PM
Location: Manchester C (2nd level)
Fee: $95
Seminar chair: Paul Yeske

This seminar will review diagnostic procedures and detail how the information can be used at the farm and system level. It will outline some of the latest procedures available along with their limitations, and identify some new methods for collecting and using diagnostic information.

8:00 So I got a positive on a PCR test - the relevance of PCR and sequencing results
        Kurt Rossow

9:00 Improving sequencing virus isolation from oral fluids for PRRS and SIV
        Christa Goodell and Jeff Zimmerman

9:30 Classification of CNS and locomotive problems
        Kent Schwartz

10:00 BREAK
        Sponsored by HARRISVACCINES

10:30 Using new technology for diagnostics (pictures, video, text)
        Darin Madson

11:00 So I have the lab results; now what do I do with them? Organizing information and applying it back to the field
        Clayton Johnson and Pete Thomas

12:00 Seminar concludes
Swine Med for Students

Date: Sunday, March 3
Time: 8:00 AM – 12:00 PM
Location: Elizabeth F (2nd level)
Fee: $95; No charge for veterinary students or 2011 or 2012 DVM graduates
Seminar co-chairs: Angie Supple and Jeremy Pittman

This year’s student pre-conference seminar is a continuation of last year’s session, which focused on differentials and diagnostics. Now that you know what “bugs” are there, we will explore the “drugs” that can be used to treat and prevent them. Areas we feel are opportunities for veterinary students and recent graduates include getting familiar with what products are available, how to select and develop antibiotic and vaccine protocols, and common “field” mistakes and tricks encountered. The first half of the session will be focused on these aspects, while the second half of the session will be a set of interactive case studies where groups of students will develop treatment or vaccine protocols based on a provided case example, using the knowledge gained in the first half.

8:00 Introduction
Angie Supple and Jeremy Pittman

8:05 Antibiotics
Jana Grauerholz-Morgan

9:00 Vaccines and programs
Deb Murray

10:00 BREAK
Sponsored by HARRISVACCINES

10:30 Interactive case studies
Angie Supple and Jeremy Pittman

12:00 Seminar concludes
Research Topics

Date: Sunday, March 3
Time: 8:00 AM – 12:00 PM
Location: Elizabeth G (2nd level)
Session chair: Chris Rademacher

8:00  Influenza A virus detection from oral fluid and nasal swabs of IAV-inoculated pigs
      Christa Goodell

8:15  Indirect transmission of influenza A virus in two different biosecurity settings
      Matt Allerson

8:30  Field investigations of perceived PCV2 vaccine failures and experimental challenge trials to support transitioning to a PCV2b based vaccine
      Tanja Opriessnig

8:45  The influence of fetal PCV2 infection on lifetime performance and vaccine efficacy
      Jim Lowe

9:00  Association of gilt vulval score with follicle development and expression of estrus
      Robert Knox

9:15  Timed insemination following intravaginal OvuGel™ treatment in postpartum sows
      Paul Yeske

9:30  Time to loss of consciousness using CO₂ or 70% N₂/30% CO₂ for pig euthanasia
      Robert Meyer

9:45  BREAK
      Sponsored by HARRISVACCINES

10:15 Evaluation of the impact of birth litter size on birth weight and subsequent birth-to-market performance
      Derald Holtkamp

Continued on next page
10:30  Experimental reproduction of brachyspiral colitis in pigs infected with *Brachyspira hampsonii*
Fabio Vannucci

10:45  Quantifying the production impact in farms going through load-close-homogenize programs for PRRS virus
Daniel Linhares

11:00  Time to produce PRRSv-negative pigs from infected breeding sites
Daniel Linhares

11:15  Ring test evaluation for the detection of PRRSV antibody in oral fluid specimens using a commercial PRRSV serum antibody ELISA
Apisit Kittawornrat

11:30  Effect of sample collection material on the detection of PRRSV in oral fluid
Chris Olsen

11:45  Economic review of air filtration system performance in North American sow herds
Carmen Alonso

12:00  Session concludes

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**Welcome Reception**

Sponsored by: PFIZER ANIMAL HEALTH

Sunday, March 3  
6:30 – 8:30 PM

Elizabeth DE (2nd level)
Student Seminar

Date: Sunday, March 3
Time: 1:00 – 5:15 PM
Location: Manchester AB (2nd level)
Session co-chairs: Alex Ramirez and Peter Davies

Sponsored by PFIZER ANIMAL HEALTH

1:00 Utilizing snout wipes for PCR detection and virus isolation of SIV in nursery pigs
Kevin Dobesh, Iowa State University

1:15 Comparison of sampling methods for Lawsonia intracellularis testing using qPCR
Kelsey LaVigne, North Carolina State University

1:30 Evaluation of biosecurity measures and management variables as risk factors for infection of growing pigs that are negative at placement with porcine reproductive and respiratory syndrome virus
Caleb Robb, Iowa State University

1:45 Evaluation of Flu Detect antigen test kit for the detection of laboratory isolates and experimentally infected swine with influenza A virus
Anne Duquette, University of Minnesota

2:00 Pilot study to assess the effectiveness of thermo-assisted drying and decontamination in reducing PRRSv in the presence of organic matter in livestock transport vehicles
Jacob Schwartz, University of Minnesota

2:15 Use of oral fluid sampling in suckling pigs for PRRSV monitoring
Jordan Graham, Iowa State University

2:30 Post-weaning sudden death in nursery pigs; a case study
Paisley Canning, University of Guelph

2:45 BREAK

Continued on next page
### Sunday Session #1

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<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter, Institution</th>
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<tbody>
<tr>
<td>3:15</td>
<td>Effect of pre-farrow administration of tulathromycin injectable solution on <em>Mycoplasma hyopneumoniae</em> prevalence in suckling pigs at birth and weaning</td>
<td>Sam Holst, University of Minnesota</td>
</tr>
<tr>
<td>3:30</td>
<td>Comparison of the isolation of <em>Brachyspira hyodysenteriae</em> from various transport and selective media</td>
<td>Brian Bishop, Iowa State University</td>
</tr>
<tr>
<td>3:45</td>
<td>Correlation of individual behavioral responses to different environmental stressors by group housed sows</td>
<td>Alyssa Blaustein, University of Pennsylvania</td>
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<tr>
<td>4:00</td>
<td>Comparison of specimens for monitoring PRRSV in boar studs: What works best?</td>
<td>Brent Pepin, Iowa State University</td>
</tr>
<tr>
<td>4:15</td>
<td>Use of daily feeding or der at an electronic sow feeder (ESF) to improve the individual animal care of group housed sows</td>
<td>Joseph Katz, University of Pennsylvania</td>
</tr>
<tr>
<td>4:30</td>
<td>An investigation of nodular ulcerative skin lesions in growing pigs</td>
<td>Katherine Wedel, University of Minnesota</td>
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<tr>
<td>4:45</td>
<td>Safety of modified live PRRSV 19S1.21 vaccine in late gestation adult breeding swine</td>
<td>Michael Berkland, Iowa State University</td>
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<tr>
<td>5:00</td>
<td>Probability of detecting PRRSV infection using pen-based swine oral fluid specimens as a function of within-pen prevalence</td>
<td>Chris Olsen, Iowa State University</td>
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**Student Reception**

Sponsored by:
MERCK ANIMAL HEALTH

Sunday, March 3
8:30 – 11:00 PM
Manchester DEF (2nd level)
Industrial Partners

**Date:** Sunday, March 3  
**Time:** 1:00 – 5:00 PM  
**Location:** Elizabeth F (2nd level)  
**Session chair:** Jeff Harker

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1:00 NewField Technologies, LLC, offers S2, a novel approach to piglet euthanasia  
Jennifer Stevens  
NEWFIELD TECHNOLOGIES

1:15 Porcine embryo vitrification and non-surgical embryo transfer (nsET)  
John Verstegen III  
MINITUBE OF AMERICA

1:30 Effectiveness of OvuGel® in commercial swine herds in the United States  
Stephen Webel  
JBS UNITED ANIMAL HEALTH

1:45 An experimental model to evaluate the effect of antibiotics on HPS colonization and immunity  
Nubia Macedo  
BAYER ANIMAL HEALTH

2:00 Studies to evaluate the effects of enrofloxacin on *Mycoplasma hyopneumoniae* and *Bordetella bronchiseptica* infections in swine  
Daniel Keil  
BAYER ANIMAL HEALTH

2:15 Productivity of pen gestation compared to stall gestation housing  
Jeff Schoening  
AUTOMATED PRODUCTION SYSTEMS

2:30 The economic value of feed efficiency and correct body condition in a sow herd  
John Sonderman  
DANBRED NORTH AMERICA

2:45 BREAK

*Continued on next page*
Sunday Session #2

3:15  Gilt management 2.0  
Juan Carlos Pinilla  
PIC

3:30  Association of lameness in late finishing with premarket mortality  
Gene Shepherd  
PIC

3:45  Development of an alphavirus RNA particle-based vaccine against classical swine fever virus  
Kurt Kamrud  
HARRISVACCINES

4:00  Development of an alphavirus RNA particle-based vaccine against *Clostridium difficile*  
Mark Mogler  
HARRISVACCINES

4:15  Struve Labs’ CDCD pigs: Traditional and emerging swine applications  
Rexanne Struve  
STRUVE LABS INTERNATIONAL

4:30  Use of CIRCOVAC® to reduce PCV2 impact in pig herds  
Keith Wilson  
NEWPORT LABORATORIES and MERAL

4:45  Water quality and its effect on production  
Steve Stone  
PRESERVE INTERNATIONAL and IVESCO

5:00  Session concludes
**Sunday Session #3**

**Industrial Partners**

**Date:** Sunday, March 3  
**Time:** 1:00 – 4:45 PM  
**Location:** Elizabeth G (2nd level)  
**Session chair:** Clayton Johnson

---

1:00  Antimicrobial resistance patterns in *Streptococcus suis* and strategies for prudent drug use  
*Claude Thibault*  
*VETOQUINOL*

1:15  Effects of a supplemental zinc amino acid complex on intestinal integrity in acutely heat-stressed pigs  
*Lance Baumgard*  
*ZINPRO CORPORATION*

1:30  Oral and injectable fat-soluble vitamin programs for sows, newborn and weaned pigs  
*Robert Stuart*  
*STUART PRODUCTS*

1:45  *Serratia marcescens*, an emerging pathogen involved in semen contamination issues  
*Isaac Huerta*  
*MAGAPOR, SL*

2:00  Controlled challenge study to measure interference of Virginiamycin (Stafac®) when fed at 10 grams per ton with vaccination of an attenuated live oral *Lawsonia intracellularis* vaccine  
*Douglas Weiss*  
*PHIBRO ANIMAL HEALTH*

2:15  Effects of a commercial feed additive on the immune components of sow’s colostrum and milk  
*Dan McManus*  
*PURINA ANIMAL NUTRITION*

2:30  Finishing and wean-to-finish group performance benchmarking by week-on-feed  
*Thomas Stein*  
*META FARMS*

*Continued on next page*
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Content</th>
<th>Presenter</th>
<th>Company/Clinic</th>
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</thead>
<tbody>
<tr>
<td>2:45</td>
<td>BREAK</td>
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</tr>
<tr>
<td>3:15</td>
<td>Whole breeding herd double vaccination with FluSure XP® to reduce shedding of influenza A virus H1N2</td>
<td>Michael Kuhn</td>
<td>PFIZER ANIMAL HEALTH</td>
</tr>
<tr>
<td>3:30</td>
<td>A comprehensive, full chain and US meat sector economic analysis of the adoption of Improvest® by the US pork industry</td>
<td>Dennis DiPietre</td>
<td>PFIZER ANIMAL HEALTH</td>
</tr>
<tr>
<td>3:45</td>
<td>Ionization's documented impacts on microorganisms</td>
<td>John Baumgartner</td>
<td>BAUMGARTNER ENVIRONICS</td>
</tr>
<tr>
<td>4:00</td>
<td>The effect of deviations from predicted lactation feed intake on reproductive performance</td>
<td>Chad Yoder</td>
<td>PURETEK GENETICS</td>
</tr>
<tr>
<td>4:15</td>
<td>Oral Pro: Vitamin D3 and E; optimal dosing in piglets and nursery pigs</td>
<td>Mike Strobel</td>
<td>AURORA PHARMACEUTICAL, LLC</td>
</tr>
<tr>
<td>4:30</td>
<td>Phytobiologics: Novel natural compounds for improving enteric health in nursing swine</td>
<td>Ching Ching Wu</td>
<td>LIVELEAF BIOSCIENCE</td>
</tr>
<tr>
<td>4:45</td>
<td>Session concludes</td>
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</tbody>
</table>
Industrial Partners

Date: Sunday, March 3
Time: 1:00 – 4:45 PM
Location: Elizabeth H (2nd level)
Session chair: John Waddell

1:00  In vitro susceptibility of Japanese, European and North American recent and historical isolates of Mycoplasma spp from swine to tylvalosin (Aivlosin®)
Dan Rosener
PHARMGATE ANIMAL HEALTH

1:15  Porcine circovirus type 2 diagnostic laboratory trends: Relationship between year and production phase
Brad Thacker
MERCK ANIMAL HEALTH

1:30  Virological and production evaluation of Circumvent® PCV M administered during an early field infection
Brad Thacker
MERCK ANIMAL HEALTH

1:45  Optimizing PG 600® and Matrix™ usage with progesterone testing and real-time ultrasound evaluation
Jamie Lehman
MERCK ANIMAL HEALTH

2:00  Activate organic acid blend improves performance in sows and pigs
Karen Lehe
NOVUS INTERNATIONAL

2:15  Sorting out the pathogens in brachyspiral colitis
Mark Hammer
NOVARTIS ANIMAL HEALTH US

2:30  Managing Lawsonia and Brachyspira using pharmacokinetic and pharmacodynamic principles
David Burch
NOVARTIS ANIMAL HEALTH US

Continued on next page
Sunday Session #4

2:45  BREAK

3:15  Evaluation of Tylan in a finishing pig subclinical ileitis challenge model
      Greg Armbruster
      ELANCO ANIMAL HEALTH

3:30  Skycis™ (narasin) safety evaluation in growing swine when fed in sequence or combination with tiamulin
      Tom Weber
      ELANCO ANIMAL HEALTH

3:45  Aligning a boar stud network to produce high quality and consistent semen
      Todd Distad
      GENETIPORC

4:00  Comparison of different Mycoplasma hyopneumoniae vaccination schedules in growing pigs with a seeder pig challenge
      Amber Stricker
      BOEHRINGER INGELHEIM VETMEDICA, INC

4:15  Comparative efficacy of Ingelvac MycoFLEX® in pigs at 3 weeks of age, from vaccinated and non-vaccinated sows
      Jose Angulo
      BOEHRINGER INGELHEIM VETMEDICA, INC

4:30  PRRSv control in finisher pigs; a large scale barn study in a high dense area in USA
      Rebecca Robbins
      BOEHRINGER INGELHEIM VETMEDICA, INC

4:45  Session concludes
Veterinary Student Posters (#1 – #52)

Location: Litrenta Foyer

Sunday, March 3
12:00 – 5:00 PM
Authors present from 12:00 – 1:00 PM

Monday, March 4
9:00 AM – 5:00 PM

Sponsored by PFIZER ANIMAL HEALTH

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

1. A clinical study evaluating prevalence of PCV2 viremia in the breeding herd
   Daniel Boykin, North Carolina State University

2. Swine influenza surveillance using FluDETECT® test kit
   Stacy Brussell, University of Minnesota

3. Pharmacokinetic assessment of ceftiofur hydrochloride in pigs challenged with porcine reproductive and respiratory syndrome virus and Streptococcus suis
   Deanne Day, Iowa State University

4. Hypocalcemia and calcium gluconate use in sows at parturition
   Alexander Hintz, University of Wisconsin

5. Two whole-herd vaccinations as mitigation of influenza virus in breed-to-wean farms
   Levi Johnson, Iowa State University

6. The effects of lidocaine and meloxicam on piglets during and post-castration
   Michelle Lam, University of Guelph

7. A retrospective study of the prevalence of OmpA-RFLP patterns among U.S. field strains of Haemophilus parasuis as correlated to clinical signs and serotype
   Dana Lembke, Iowa State University

Continued on next page
Veterinary Student Posters

8. Oral fluids collection in loose-housed gestating sows
   Amy Martell, University of Pennsylvania

9. Use of buffered Swiffer cloth to assess the risk of PRRS virus spread by employees and fomites during warm weather
   Brittney McLamb, North Carolina State University

10. Oral fluids sample collection and post-collection processing to enhance porcine reproductive and respiratory syndrome virus sequencing as applied in an area regional control program
    Shonna Parker, University of Tennessee

11. Investigating the genetic variability of *Mycoplasma hyopneumoniae* strains circulating within a swine production system
    Kalie Pettit, University of Minnesota

12. Effects of alternative farrowing systems on sow productivity and piglet growth and mortality
    Shawna Rossini, University of Pennsylvania

13. Work in progress: Improved PCRs for oral fluids
    Marisa Rotolo, Iowa State University

14. A serial study to determine piglet vaccination age based on maternal antibody decay, time of infection and potential aerosolization of *Mycoplasma hyorhinis*
    Ethan Spronk, University of Minnesota

15. Evaluation of sleep-wake cycle and behavioral indicators of REM in gestating sows
    Kathryn Sullivan, University of Pennsylvania

16. An investigation of sow lameness in relation to leg and foot conformation, lesions and hoof cracks
    Sarah Ahola, University of Guelph

17. Enteric pathogen prevalence and association inquiry
    Brian Bishop, Iowa State University
Poster Session

Veterinary Student Posters

18. Validation of Swiffer® collection technique for *Lawsonia intracellularis* on concrete surfaces
   Daniel Borchers, Iowa State University

19. A comparison of the relative reduction in PCV2 viremia
   Matthew Borgmann, North Carolina State University

20. Enterotoxin genes in *Staphylococcus aureus* isolates from pork and pigs
   Danielle Botting, University of Minnesota

21. Field results of a modified vaccination protocol with Pfizer’s Fostera PRRS vaccine
   Alexandra Buckley, Michigan State University

22. Exploring the prevalence of *Mycoplasma hyorhinis*, *M hyosynoviae*, and *M hyopneumoniae* across various age groups using various sampling techniques
   Samuel Copeland, North Carolina State University

23. Evaluation of oral fluid antibody enzyme-linked immunosorbent assay (ELISA) dynamics to detect wild-type PRRS virus exposure in pigs vaccinated with modified-live virus
   Amy Daniels, University of Illinois

24. A comparison of serum and tonsilar swabs for the detection of porcine circovirus type 2 (PCV2) by polymerase chain reaction (PCR) in replacement gilts
   Joshua Duff, North Carolina State University

25. Proportionality, public perception, and pigs: An overview of how we dealt with flu at the Minnesota State Fair
   Jon Ertl, University of Minnesota

26. Evaluating the persistence of PRRSv in prior exposed vasectomized teaser boars, mature gilts, and young sows within a breeding herd
   Will Fombelle, University of Illinois

Continued on next page
Veterinary Student Posters

27. Efficacy of a commercial disinfectant to deactivate PRRS virus in water lines
   Marissa Garry, University of Minnesota

28. The effect of vitamin D supplementation on production parameters and immune function in pre-wean and nursery piglets
   Cara Haden, Iowa State University

29. Effects of vitamin D supplementation on plasma 25-hydroxyvitamin D concentrations in suckling and nursery pigs
   Cara Haden, Iowa State University

30. Evaluating sampling strategies to diagnose influenza virus in pre-weaned pigs
   Christina Hill, University of Minnesota

31. A holistic approach to stabilizing porcine reproductive and respiratory syndrome virus from a dually infected farrow-to-finish herd
   Megan Humphrey, University of Wisconsin

32. The importance of vaccination with MLV after stabilization of porcine reproductive and respiratory syndrome virus in a farrow-to-finish herd in an area regional control project
   Megan Humphrey, University of Wisconsin

33. Evaluating the impact of PRRS vaccination and vaccine timing on antibody production to M hyo and PCV2
   Justin Kuecker, Iowa State University

34. Impact of PRRS vaccination timing in pigs with different maternal immunity levels
   Marie-Pier Labrecque, University of Montreal

35. Validating the need for and continued use of E coli vaccine in pregnant sows and gilts
   Wesley Lyons, University of Tennessee
36. Diagnostic survey of residential bacterial pathogens in Pipestone System sow barns to justify the use of Excede® (ceftiofur crystalline free acid)
Nicholas Mayer, University of Minnesota

37. Development of a standard protocol using PRRS modified live virus vaccine to control and reduce wild-type PRRSv in farrow to finish swine systems
Daniel Meyer, Iowa State University

38. Effect of oral Vitamin D supplementation on antibody response to PRRS virus
Andrea Petersen, University of Minnesota

39. A comparison of immunity, viremia, and performance between two commercial circovirus vaccines in a high-health swine system
Anna Petrowiak, University of Minnesota

40. Posterior paresis and paralysis associated with spinal cord vacuolation in late finisher pigs
Kristen Reynolds, University of Guelph

41. Use of slaughter checks to classify lesions identified at harvest
Charlie Robinson, University of Missouri

42. The effect of maternal antibodies on the efficacy of the porcine circovirus vaccine
Holly Rud, University of Minnesota

43. Cecal colonization and fecal shedding in rats inoculated with various Brachyspira spp
Kate Sawyer, Iowa State University

44. Investigation into sow mortality caused by sudden death
Megan Schnur, Purdue University

45. Effect of porcine reproductive and respiratory viral load when inoculating serologically positive sows
Chris Sievers, Iowa State University

Continued on next page
Veterinary Student Posters

46. The roll of serum calcium, vitamin D, and genetics in observations of kyphosis  
Rae Sires, Iowa State University

47. Antimicrobials in lactation diets are transferred into the milk of dams  
Bethany Stammen, The Ohio State University

48. Analgesia in the farrowing room  
Ryan Tenbergen, University of Guelph

49. Investigation of Mycoplasma hyorhinis in the reproductive tract of mature gilts and boars  
Katherine Wedel, University of Minnesota

50. Vitamin D3 dose titration at five dosage rates delivered in water in nursery pigs  
Amanda West, University of Minnesota

51. Oral fluid sampling: sampling recommendations for “trained” vs “untrained” pigs  
Drew White, Iowa State University

52. Investigating high levels of nursery mortality at a multisite system  
Lisa Yeske-Livermore, Iowa State University
Poster Session

Research Topics Posters (#53 – #83)

**Location:** Litrenta Foyer

**Sunday, March 3**
12:00 – 5:00 PM  
Authors present from 12:00 to 1:00 PM

**Monday, March 4**
9:00 AM – 5:00 PM

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53. Environmental impact of replacing physical castration with immunological castration when raising male pigs; results of an environmental life cycle assessment  
Jim Allison

54. Phylogenetic evaluation of historic PRRSV isolates from air filtered sow herds in North America  
Carmen Alonso

55. Intestinal mucosal PCV2-specific immune response in PCV2 vaccinated and non-vaccinated conventional gilts  
Carlo Bianco

56. Four-year assessment of influenza A virus infections in swine at agricultural exhibitions  
Andrew Bowman

57. Data summary of immunological castration impact in grow-finish performance of male pigs in the USA  
Bobby Cowles

58. Retention and growth of expertise in food animal and food safety medicine  
Gail Cunningham

59. Full genome of swine influenza A virus in immune pigs using next generation sequencing  
Andres Diaz

60. Swine influenza infection in sow farms over time  
Andres Diaz

61. Estimating corn savings through the use of immunological castration in male pigs  
Dennis DiPietre

*Continued on next page*
62. Detection of *Streptococcus suis* variants using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry
   Tim Frana

63. Optimizing nursery pig survivability with a husbandry education program
   Lucina Galina

64. Flexible vaccination with Stellamune® One in France: Experiences in 10 farrow-to-finish pig herds
   Marc Henninger

65. Effect of triptorelin dose administered intravaginally in OvuGel™ on the timing of ovulation in mature gilts after estrus synchronization with MATRIX®
   Robert Kraeling

66. Effect of PRRS on productivity in chronic infected Danish herds
   Charlotte Sonne Kristensen

67. Survey of occupational health risks and protective practices of US swine veterinarians
   Leticia Linhares

68. Behavior and handling of physically- and immunologically-castrated market pigs at home and going to market
   John McGlone

69. Pre- and post-euthanasia concentrations of cortisol, norepinephrine and lactate in pigs
   Morgan Morrow

70. Effect of influenza vaccination on influenza bioaerosol generation
   Victor Neira-Ramirez

71. Effects of immunological castration on nutrient requirements of male pigs
   Daniel Nelson
Research Topics Posters

72. Comparison of PCR assays for reliable, early and fast detection of PRRSV in different sample types from experimentally infected boars
   Tanja Opriessnig

73. Investigation into emerging parvoviruses in the US pig population
   Tanja Opriessnig

74. Detection of influenza A virus nucleoprotein antibody (IgM, IgA, IgG) in serum and oral fluid specimens
   Yaowalak Panyasing

75. The effect of passive immunity to *Mycoplasma hyopneumoniae* and an extended lactation period on piglet immune development
   Maria Pieters

76. Comparison of meat quality parameters of pork produced from immunologically castrated and physically castrated male pigs reared under US conditions
   Aubrey Schroeder

77. Comparison of efficacy of tulathromycin (Draxxin®) and tildipirocin (Zuprevo®) in the treatment of *Mycoplasma hyopneumoniae* infection in pigs
   Jim Eubank

78. Outbreak of influenza A (H3N2) in people and pigs at county fairs
   Sabrina Swenson

79. Sow herd incidence and prevalence study
   Steve Tousignant

80. Reproduction of periweaning failure to thrive syndrome in weaned pigs and effect of supplemental vitamin D
   Steve Tousignant

*Continued on next page*
Research Topics Posters

81. *Mycoplasma hyopneumoniae* prevalence in Belgian and Dutch pig herds using a tracheo-bronchial swab technique and eventual seasonal effects
   Frederic Vangroenweghe

82. Attenuation of virulence and loss of prophage-like elements in *Lawsonia intracellularis* after serial passages in vitro
   Fabio Vannucci

83. Canadian Swine Health Board National Biosecurity Training Program: A model for enhancing adoption of biosecurity best management practices for the farm at a national level
   Lucie Verdon

INTERNET KIOSK
Sponsored by GLOBALVETLINK

Check your email
Search the Web

Located in Litrenta Foyer
(2nd level)
Poster Session

Industrial Partners Posters (#84 – #98)

Location: Litrenta Foyer

Sunday, March 3
12:00 – 5:00 PM
Authors present from 12:00 to 1:00 PM

Monday, March 4
9:00 AM – 5:00 PM

84. Barrier wound spray with pain relief for the health and welfare of baby pigs
   Peggy Anne Hawkins
   AURORA PHARMACEUTICAL, LLC

85. PSY vs *PSY (profit/sow/year)
   Darwin Kohler
   BABCOCK GENETICS

86. A comparison of injection site reactivity and growth rate in pigs vaccinated with single-dose PCV2 vaccines
   Erin Johnson
   BOEHRINGER INGELHEIM VETMEDICA, INC

87. Exogenous enzyme impact on intestinal weights, histology, active nutrient transport and microbial population
   Jon Ferrel
   ELANCO ANIMAL HEALTH

88. Efficacy of Lincofarm® TR (44% lincomycin) in the treatment of ileitis in naturally infected swine
   Flávio Hirose
   FARMABASE SAÚDE ANIMAL

89. Development of an alphavirus RNA particle-based vaccine against swine dysentery
   David Baum
   HARRISVACCINES

90. Physiological properties and mechanism of action of OvuGel®, a novel product containing the gonadotropin releasing hormone (GnRH) agonist, triptorelin acetate
   Charles Francisco
   JBS UNITED ANIMAL HEALTH

Continued on next page
Industrial Partners Posters

91. Semen quality assessment in extended doses and relationship between key parameters
   Isaac Huerta
   MAGAPOR, SL

92. Diagnostic laboratory survey of porcine circovirus type 2 and Mycoplasma hyopneumoniae maternally-derived antibodies
   Brad Thacker
   MERCK ANIMAL HEALTH

93. Non-productive days benchmark analysis
   Thomas Stein
   METAFARMS

94. Retrospective analysis by novel methodology of PRRSv field strains in a regional control project
   Alan Snodgrass
   MJ BIOLOGICS

95. IgG antibody response in young pigs after a booster vaccination with an autogenous Mycoplasma hyosnyoviae vaccine
   Boh Chang Lin
   MVP LABORATORIES

96. Investigating finishing pig performance and diarrhea: A standardized approach
   Robert Evelsizer
   NOVARTIS ANIMAL HEALTH US

97. Effects of Draxxin® (tulathromycin) at weaning in pigs on control of swine respiratory disease including “low” level of PRRS involvement and subsequent performance of pigs
   Doug King
   PFIZER ANIMAL HEALTH

98. In vitro susceptibility of Japanese, European and North American recent and historical isolates of various swine and poultry enteric, joint, and respiratory pathogens to tylvalosin (Aivlosin®)
   John Tasker
   PHARMGATE ANIMAL HEALTH
The AASV is pleased to host the spouse hospitality suite at the Manchester Grand Hyatt. 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.

Spouse Hospitality Suite

Monday, March 4
Time: 7:00 – 9:00 AM
Location: Windsor BC (3rd level)

Create Your Own Spouse/Family Tour

San Diego is full of attractions close to AASV’s meeting location as well as farther afield, including the San Diego Zoo, SeaWorld®, Historic Old Town, Balboa Park, La Jolla, Coronado Island, and many famous beaches.

AASV is not offering an organized tour this year, enabling you to choose the activities that appeal most to your personal sense of adventure!

Check out www.sandiego.com, and look for information about local attractions at the AASV registration desk and in the Spouse Hospitality Suite.

Enjoy and explore San Diego!
The AASV Foundation Auction Committee is off and running towards the goal to raise more than $100,000 at the 2013 fundraising auction in San Diego. With the promise from MVP Laboratories and MJ Biologics of a $100,000 bonus if the goal is reached, the committee members are determined to cross the 100K finish line and win the prize. AASV members and industry supporters have already contributed an incredible variety of items for the auction – now we need your generous bids!

For the complete description of items up for bid, see the auction catalog or go to aasv.org/foundation. Since all of the items are donated, you can bid generously, knowing that 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
You’ll have the opportunity to bid in the silent auction during the day on Monday, March 4. The bidding will close during the AASV Awards Reception on Monday evening, and we’ll announce the names of the winning bidders at that time.

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.

Everybody bid-a-now!
aasv.org/foundation
AASV Foundation Raffle

The AASV Foundation Raffle continues to get bigger and better. After all, we have 100K to raise! This year, you DON’T need to be present to win – so EVERYONE can participate, even if you’re not going to be at the AASV Annual Meeting!

The raffle drawing will be held during the Live Auction on Monday, March 4. The following fabulous prizes will be awarded to four lucky ticket holders (drum roll please):

1ST PRIZE: Log Cabin Quilt
Donated by Hen and Chicks Studio
Pieced by Heidi Kaisand
Quilted by Kelly VanVliet

2ND PRIZE: $1000

3RD PRIZE: 2014 AASV meeting registration

4TH PRIZE: 2014 AASV meeting registration

For $100 per raffle ticket, you can support the AASV Foundation and have a chance to win one of these prizes. Contact the AASV office or one of the Auction Committee members to purchase your ticket(s) and invest in the AASV Foundation!
Monday General Session

Purpose-Inspired Practice

Date: Monday, March 4
Time: 8:00 AM – 12:30 PM
Location: Manchester A-F (2nd level)
Program chair: Matt Anderson

8:00  Howard Dunne Memorial Lecture
      Perspective, passion, and the purpose-inspired practice
      Craig Rowles

9:00  Alex Hogg Memorial Lecture
      Mentoring with purpose
      John Waddell

10:00 BREAK

10:30 Antibiotic use in swine: Pharmacology, residue avoidance, and foreign/domestic trade
      Mike Apley

      Scott Hurd

11:50 Business continuity in the face of a foreign animal disease
      Jim Roth

12:30 LUNCHEON

AASV Luncheon
Sponsored by:
BOEHRINGER INGELHEIM VETMEDICA, INC
Monday, March 4
12:30 – 2:00 PM
Elizabeth DE (2nd level)
Monday Session #1

PRRSV

Date: Monday, March 4
Time: 2:00 – 5:30 PM
Location: Manchester A-F (2nd level)
Session chair: Jeff Zimmerman

2:00  Application of host genetics for PRRS resistance, tolerance, and the vaccine-ready pig
      Bob Rowland

2:15  PRRSV half-life in manure
      Daniel Linhares

2:30  PRRS diagnostics: Update on oral fluids
      Jeff Zimmerman

2:50  Surveillance samples: Where? How many? How often?
      Chong Wang

3:10  PRRSV elimination: How to prove herd negativity?
      Montse Torremorell

3:30  BREAK

4:00  Challenges of air filtration: What are the new challenges?
      Scott Dee

4:15  Challenges of air filtration: How do people and pigs safely enter/exit a filtered farm?
      Jason Kelly

4:30  Challenges of air filtration: Where are the common air leaks and how do we fix them?
      Jeff Feder

4:45  Challenges of air filtration: How does a filtered farm put it all together?
      Jeff Kurt

5:00  Roundtable: Improving future PRRSV elimination success by identifying causes of past failure
      Daniel Linhares, Jeff Zimmerman, Chong Wang, Montse Torremorell, Jason Kelly, Jeff Feder, and Jeff Kurt
      Moderator: Scott Dee
Swine Influenza Virus

Date: Monday, March 4
Time: 2:00 – 5:30 PM
Location: Elizabeth H (2nd level)
Session chair: Tara Donovan

2:00 Summary of USDA SIV surveillance results
John Korslund

2:20 Influenza virus dynamics, transmission and diversity in pig farms
Montse Torremorell and Matt Allerson

2:55 Influenza vaccinology
Overview of vaccine research and technology: What’s on the horizon and what do we need to move forward?
Marcus Kehrli

3:30 BREAK

4:00 Practitioner panel: Controlling influenza in the field: What has worked for us
Sow farm strategies
4:00 Paul Yeske
4:15 Michelle Sprague
Grow/finish strategies
4:30 Jay Miller
4:45 Mary Battrell

5:00 Practitioner panel discussion
Paul Yeske, Michelle Sprague, Jay Miller, and Mary Battrell

5:30 Session concludes

AASV Awards Reception

Sponsored by:
ELANCO ANIMAL HEALTH
Monday, March 4
6:30 – 8:30 PM
Manchester A-F (2nd level)
## Monday Session #3

### Infectious Disease

**Date:** Monday, March 4  
**Time:** 2:00 – 5:30 PM  
**Location:** Elizabeth FG (2nd level)  
**Session chair:** Kent Schwartz

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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<tr>
<td>2:00</td>
<td>Rotavirus and undifferentiated diarrhea in suckling piglets: What’s NEW and diagnostic criteria</td>
<td>Greg Stevenson</td>
</tr>
<tr>
<td>2:15</td>
<td>Rotavirus and undifferentiated diarrhea in suckling piglets: Case management/control methods</td>
<td>Michelle Sprague</td>
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<tr>
<td>2:30</td>
<td>What do we really know about feedback to gestating dams?</td>
<td>Rebecca Robbins</td>
</tr>
<tr>
<td>2:45</td>
<td><em>Mycoplasma hyorhinis</em>: What we are finding</td>
<td>Albert Rovira</td>
</tr>
<tr>
<td>3:00</td>
<td><em>Mycoplasma hyopneumoniae</em>: What we are finding</td>
<td>Maria Pieters</td>
</tr>
<tr>
<td>3:15</td>
<td><em>Mycoplasma hyosynoviae</em>: What we are finding and what it may mean</td>
<td>Carlos Neto</td>
</tr>
<tr>
<td>3:30</td>
<td><em>Mycoplasma hyosynoviae</em>: Case management</td>
<td>Jeff Blythe</td>
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### AASVF Auction

**Ensure Our Future**  
**Today – 100K!**  
Monday, March 4  
Manchester (2nd level)
Monday Session #3

4:00  Swine dysentery: Diagnostic criteria and differentials; diagnostic strategies  
      Eric Burrough

4:15  Swine dysentery: Elimination from sow farm  
      Cary Sexton

4:30  Diagnosis of complex grow-finish enteritis and assessing interventions  
      Jeremy Pittman

5:00  Complex grow-finish enterocolitis: Case example/intervention options  
      Jeff Blythe

5:15  Complex grow-finish enterocolitis: Case example/intervention options  
      Cary Sexton

5:30  Session concludes

COMMERCIAL EXHIBIT
Technical Tables Open

Monday, March 4  
9:00 AM – 5:00 PM

Tuesday, March 5  
8:00 AM – 12:00 PM

Manchester GHI (2nd level)
Tuesday General Session

The Shaping of Purpose

Date: Tuesday, March 5  
Time: 8:00 AM – 12:00 PM  
Location: Manchester A-F (2nd level)  
Session chairs: Matt Anderson

8:00 Pink slime and black swans  
Guy Loneragan

9:00 When science and public perception disagree  
Howard Hill

10:00 BREAK

10:30 Providing leadership and demonstrating value: What our clients want and expect  
Tim Loula

11:30 Panel discussion: The issues challenging our industry today  
Guy Loneragan, Howard Hill, Tim Loula, Craig Rowles, and John Waddell

12:00 Meeting concludes

TUESDAY BREAKFAST  
AASV Business Breakfast  
Tuesday, March 5  
7:00 – 8:00 AM  
Elizabeth FG (2nd level)
<table>
<thead>
<tr>
<th>Name</th>
<th>City, State/Province</th>
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<tbody>
<tr>
<td>Matthew Ackerman</td>
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<td>Dan McManus</td>
<td>Dakota Dunes, SD</td>
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<td>Robert Meyer</td>
<td>Mississippi State, MS</td>
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<td>Jay Miller</td>
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<td>Morgan Morrow</td>
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<td>Chris Mowerr</td>
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<td>Deborah Murray</td>
<td>Jackson, MN</td>
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<td>Michael Murtaugh</td>
<td>St Paul, MN</td>
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</tbody>
</table>
Speakers

Victor Neira-Ramirez  
St Paul, MN

Daniel Nelson  
East Bethel, MN

Carlos Neto  
Ames, IA

Betsy Newton  
Eaton, OH

Chris Olsen  
Johnston, IA

Tanja Opriessnic  
Ames, IA

Yaowalak Panyasing  
Ames, IA

Shonna Parker  
Knoxville, TN

Tom Parsons  
Kenneff Square, TN

Brent Pepin  
Ames, IA

Andrea Petersen  
St Paul, MN

Anna Petrowiak  
Fairmont, MN

Kalie Pettit  
Falcon Heights, MN

Tom Petznick  
Norfolk, NE

Maria Pieters  
St Paul, MN

Juan Carlos Pinilla  
Hendersonville, TN

Jeremy Pittman  
Wakefield, VA

Dale Polson  
Ankeny, IA

Alex Ramirez  
Ames, IA

Darwin Reicks  
St Peter, MN

Kristin Reynolds  
Aurora, ON

Caleb Robb  
Ames, IA

Rebecca Robbins  
Warsaw, NC

Charlie Robinson  
Columbia, MO

Dan Rosener  
LeMars, IA

Shawna Rossini  
Philadelphia, PA

Kurt Rossow  
St Paul, MN

Jim Roth  
Ames, IA

Marisa Rotolo  
Ames, IA

Albert Rovira  
St Paul, MN

Bob Rowland  
Manhattan, KS

Craig Rowles  
Carroll, IA

Holly Rud  
St Paul, MN

Kate Sawyer  
Ames, IA

Adam Schelkopf  
Savoy, IL

Megan Schnur  
West Lafayette, IN

Jeff Schoening  
Assumption, IL

Aubrey Schroeder  
Greenfield, IN

Jacob Schwartz  
St Paul, MN

Kent Schwartz  
Ames, IA

Cary Sexton  
Deep Run, NC

Gene Shepherd  
Hendersonville, TN

Chris Sievers  
Ames, IA

Randall Singer  
St Paul, MN

Rae Sires  
Ames, IA

Alan Snodgrass  
West Point, NE
Speakers

John Sonderman  Columbus, NE
Eric Spell  Clinton, NC
Michelle Sprague  Audubon, IA
Ethan Spronk  St Paul, MN
Bethany Stammen  New Weston, OH
Scott Stehlik  Ames, IA
Tom Stein  Burnsville, MN
Jennifer Stevens  Brandon, SD
Greg Stevenson  Ames, IA
Steve Stone  Fairmont, MN
Amber Stricker  Albert Lea, MN
Mike Strobel  Northfield, MN
Rexanne Struve  Manning, IA
Robert Stuart  Bedford, TX
Kathryn Sullivan  Philadelphia, PA
Angie Supple  Algona, IA
Sabrina Swenson  Ames, IA
John Tasker  Cambridge, UK
Ryan Tenbergen  Guelph, ON
Brad Thacker  DeSoto, KS
Claude Thibault  Lavaltrie, QC
Pete Thomas  Boone, IA
Montse Torremorell  St Paul, MN
Jerry Torrison  Eden Prairie, MN
Steve Tousignant  Jordan, MN
Frederic Vangroenweghe  Belgium
Fabio Vannucci  St Paul, MN
Jason Verbeck  Carverville, IL
Lucie Verdon  Ottawa, ON
John Verstegen III  Verona, WI
John Waddell  Troy, MO
Chong Wang  Ames, IA
Stephen Webel  Sheridan, IN
Tom Weber  Greenfield, IN
Katherine Wedel  Roseville, MN
Douglas Weiss  Clive, IA
Amanda West  Delano, MN
Drew White  Ames, IA
Keith Wilson  Worthington, MN
Ching Ching Wu  San Carlos, CA
Paul Yeske  St Peter, MN
Lisa Yeske-Livermore  Madrid, IA
Chad Yoder  Ames, IA
Ruurd Zijlstra  Edmonton, AB
Jeff Zimmerman  Ames, IA
We extend our sincere appreciation to the following sponsors of AASV annual meeting activities:

**PFIZER ANIMAL HEALTH**
- Welcome Reception
- AASV Student Seminar and Student Poster Session
- AASV Foundation Veterinary Student Scholarship

**NEWPORT LABORATORIES**
and the **AASV FOUNDATION**
- Veterinary Student Travel Stipends

**MERCK ANIMAL HEALTH**
- Student Reception

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- Refreshment Break Sponsor

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- Internet Kiosk

**ELANCO ANIMAL HEALTH**
- AASV Awards Reception
- AASV Foundation Veterinary Student Scholarships

**BOEHRINGER INGELHEIM VETMEDICA, INC**
- AASV Luncheon
- Veterinary Student Poster Awards
Saturday, March 2

7:00 AM
Registration Desk open
Location: Litrenta Foyer (2nd level)
Committee Meetings

7:30 AM
PRRS Risk Assessment Training (see page 10)
Location: Windsor BC (3rd level)

8:00 AM
ABVP Entrance Examination
Location: Oxford (3rd level)
ABVP Oral Examination
Location: Connaught (3rd level)

1:00 PM
SEMINARS
#1 Purpose-Inspired Practice Tips (see page 12)
Location: Manchester A (2nd level)
#2 It’s Not All Bugs and Drugs (see page 14)
Location: Manchester B (2nd level)
#3 Boar Stud Technology and Lameness Challenges in the Sow Herd (see page 15)
Location: Manchester C (2nd level)
#4 Turning Data into Knowledge (see page 16)
Location: America's Cup AB (4th level)
#5 Full Circle Sequencing (see page 17)
Location: America's Cup CD (4th level)

5:00 PM
OPEN EVENING
There is no reception scheduled for Saturday evening. Explore and enjoy San Diego!
Sunday, March 3

6:30 AM

AASV Student Breakfast  
Location: Manchester D (2nd level)

AASV Fun Run/Walk (see page 19)  
Location: Boardwalk behind Grand Hyatt

7:00 AM

Praise Breakfast  
Location: Manchester E (2nd level)

Registration Desk open  
Location: Litrenta Foyer (2nd level)

8:00 AM

Canadian Swine Veterinarians  
Location: Emma AB (3rd level)

SEMINARS

#6 Feeding Group-Housed Sows and the Growing Herd Efficiently (see page 21)  
Location: Manchester AB (2nd level)

#7 Business Management (see page 22)  
Location: Elizabeth H (2nd level)

#8 How to Use Diagnostic Information in the Field (see page 23)  
Location: Manchester C (2nd level)

#9 Swine Med for Students (see page 24)  
Location: Elizabeth F (2nd level)

RESEARCH TOPICS (see page 25)  
Location: Elizabeth G (2nd level)
12:00 PM
POSTER SESSION OPEN
Authors in attendance: 12:00 – 1:00 PM
Location: Litrenta Foyer
Veterinary Student Posters (see page 35)
Sponsored by PFIZER ANIMAL HEALTH
Research Topics Posters (see page 41)
Industrial Partners Posters (see page 45)

AASV FOUNDATION LUNCHEON
(Advance registration required)
Location: Manchester D (2nd level)

1:00 PM
CONCURRENT SESSIONS
#1 Student Seminar (see page 27)
Sponsored by PFIZER ANIMAL HEALTH
Location: Manchester AB (2nd level)
#2 Industrial Partners (see page 29)
Location: Elizabeth F (2nd level)
#3 Industrial Partners (see page 31)
Location: Elizabeth G (2nd level)
#4 Industrial Partners (see page 33)
Location: Elizabeth H (2nd level)

6:30 PM – 8:30 PM
WELCOME RECEPTION
Sponsored by PFIZER ANIMAL HEALTH
Location: Elizabeth DE (2nd level)

8:30 PM – 11:00 PM
STUDENT RECEPTION
Sponsored by MERCK ANIMAL HEALTH
Location: Manchester DEF (2nd level)
Monday, March 4

7:00 AM
Registration Desk open
Location: Litrenta Foyer (2nd level)

Spouse Hospitality Suite open (see page 47)
Location: Windsor BC (3rd level)

8:00 AM – 12:30 PM
GENERAL SESSION (see page 50)
Location: Manchester A-F (2nd level)

Howard Dunne Memorial Lecture: Dr Craig Rowles
“Perspective, passion, and the purpose-inspired practice”

Alex Hogg Memorial Lecture: Dr John Waddell
“Mentoring with purpose”

9:00 AM – 5:00 PM
COMMERCIAL TECHNICAL TABLES
Location: Manchester GHI (2nd level)

12:30 PM
LUNCHEON
Sponsored by BOEHRINGER INGELHEIM VETMEDICA, INC
Location: Elizabeth DE (2nd level)

2:00 – 5:30 PM
CONCURRENT SESSIONS

#1 PRRSV (see page 51)
Location: Manchester A-F (2nd level)

#2 Swine Influenza Virus (see page 52)
Location: Elizabeth H (2nd level)

#3 Infectious Disease (see page 53)
Location: Elizabeth FG (2nd level)

6:30 PM – 8:30 PM
AASV AWARDS RECEPTION
Sponsored by ELANCO ANIMAL HEALTH
Location: Manchester A-F (2nd level)

AASV FOUNDATION AUCTION (see page 48)
Location: Manchester (2nd level)
Tuesday, March 5

7:00 AM
Registration Desk open
Location: Litrenta Foyer (2nd level)

BREAKFAST and AASV ANNUAL BUSINESS MEETING
Location: Elizabeth FGH (2nd level)

8:00 AM
GENERAL SESSION (see page 55)
The Shaping of Purpose
Location: Manchester A-F (2nd level)

8:00 AM – 12:00 PM
COMMERCIAL TECHNICAL TABLES (see page 8)
Location: Manchester GHI (2nd level)

12:00 PM
MEETING CONCLUDES

1:00 PM
AASV BOARD OF DIRECTORS MEETING
Location: Connaught (3rd level)
Plan now to attend the
AASV 45TH Annual Meeting
March 1-4, 2014
Sheraton Dallas Hotel
DALLAS, TEXAS

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.

2015 Orlando    Feb 28-Mar 3
2016 New Orleans Feb 27-Mar 1
2017 Denver      Feb 25-28

March 2-5, 2013
SAN DIEGO, CALIFORNIA
Plan now to attend the AASV 45th Annual Meeting March 1-4, 2014
Sheraton Dallas Hotel DALLAS, TEXAS

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

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